

Daily Analysis Runlog For Sequence/QC Batch ID # LB94139

Review By		Review On				
SubDirectory		LB94139		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63016,WP63017,WP63018,WP63019,WP63020,WP63021,WP63022				
ICV Standard		WP63024				
CCV Standard		WP63023				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
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 11:48		OK
9	ICB1	ICB1	ICB	03/26/18 11:48		OK
10	CCV1	CCV1	CCV	03/26/18 11:48		OK
11	CCB1	CCB1	CCB	03/26/18 11:48		OK
12	PB107625BL	PB107625BL	MB	03/26/18 11:48		OK
13	J1758-02	PL-02-032318-A	SAM	03/26/18 11:48		OK
14	J1758-02DUP	PL-02-032318-ADUP	DUP	03/26/18 11:48		OK
15	J1758-04	PL-02-032318-B	SAM	03/26/18 11:48		OK
16	J1758-06	PL-02-032318-C	SAM	03/26/18 11:48		OK
17	J1758-08	PL-02-032318-D	SAM	03/26/18 11:48		OK
18	J1760-06	SU-04-032318-A	SAM	03/26/18 11:48		OK
19	J1760-08	SU-04-032318-B	SAM	03/26/18 11:56		OK
20	J2044-03	TEST-PIT-LOC#1	SAM	03/26/18 11:56		OK
21	J2044-04	TEST-PIT-LOC#2	SAM	03/26/18 11:56		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94139

Review By		Review On				
SubDirectory		LB94139		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63016,WP63017,WP63018,WP63019,WP63020,WP63021,WP63022				
ICV Standard		WP63024				
CCV Standard		WP63023				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63026,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/26/18 11:56		OK
23	CCB2	CCB2	CCB	03/26/18 11:56		OK
24	J2050-03	TP-2-MH-C	SAM	03/26/18 11:56		OK
25	J2050-06	TP-3-DB	SAM	03/26/18 11:56		OK
26	J2052-02	TP-BS	SAM	03/26/18 11:56		OK
27	J2052-04	TP-BD	SAM	03/26/18 11:56		OK
28	PB107626BL	PB107626BL	MB	03/26/18 11:56		OK
29	J2050-08	TP-2-MH-C	SAM	03/26/18 11:56		OK
30	J2050-08DUP	TP-2-MH-CDUP	DUP	03/26/18 12:00		OK
31	J2052-06	TP-B-GW	SAM	03/26/18 12:00		OK
32	CCV3	CCV3	CCV	03/26/18 12:00		OK
33	CCB3	CCB3	CCB	03/26/18 12:00		OK



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Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-A	SDG No.:	LB94139
Lab Sample ID:	J1758-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.003	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-B	SDG No.:	LB94139
Lab Sample ID:	J1758-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0084	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-C	SDG No.:	LB94139
Lab Sample ID:	J1758-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0019	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	PL-02-032318-D	SDG No.:	LB94139
Lab Sample ID:	J1758-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0037	U	1	0.025		0.05	mg/Kg	03/26/2018	03/26/2018	9012B

Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	SU-04-032318-A	SDG No.:	LB94139
Lab Sample ID:	J1760-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0054	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	SU-04-032318-B	SDG No.:	LB94139
Lab Sample ID:	J1760-08	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0059	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TEST-PIT-LOC#1	SDG No.:	LB94139
Lab Sample ID:	J2044-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.005	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TEST-PIT-LOC#2	SDG No.:	LB94139
Lab Sample ID:	J2044-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0014	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-2-MH-C	SDG No.:	LB94139
Lab Sample ID:	J2050-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0061	U	1	0.025		0.05	mg/Kg	03/26/2018	03/26/2018	9012B

Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-3-DB	SDG No.:	LB94139
Lab Sample ID:	J2050-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0067	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-2-MH-C	SDG No.:	LB94139
Lab Sample ID:	J2050-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00073	U	1	0.0025		0.005	mg/L	03/26/2018	03/26/2018	9012B

Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-BS	SDG No.:	LB94139
Lab Sample ID:	J2052-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0072	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-BD	SDG No.:	LB94139
Lab Sample ID:	J2052-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0047	U	1	0.025		0.05	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:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-B-GW	SDG No.:	LB94139
Lab Sample ID:	J2052-06	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00052	U	1	0.0025		0.005	mg/L	03/26/2018	03/26/2018	9012B

Report of Analysis

Client:		Date Collected:	3/23/2018 12:00:00 AM
Project:	LB94139	Date Received:	3/23/2018 12:00:00 AM
Client Sample ID:	TP-B-GW	SDG No.:	LB94139
Lab Sample ID:	J2052-06	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: LB94139

SDG No.: LB94139

Contract: _____ Lab Code: CHEM

Case No.: LB94139

SAS No.: LB94139

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	Reactive Cyanide	0.097	0.099	98		85 - 115		03/26/2018	11:48	LB94139



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94139

SDG No.: LB94139

Contract: _____ Lab Code: CHEM

Case No.: LB94139

SAS No.: LB94139

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	Reactive Cyanide	0.24	0.25	96		90 - 110		03/26/2018	11:48	LB94139
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		03/26/2018	11:56	LB94139
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		03/26/2018	12:00	LB94139



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94139

SDG No.: LB94139

Contract:

Lab Code: CHEM

Case No.: LB94139

SAS No.: LB94139

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0013	+/-0.005	U		0.005		03/26/2018	11:48	LB94139



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94139

SDG No.: LB94139

Contract:

Lab Code: CHEM

Case No.: LB94139

SAS No.: LB94139

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0004	+/-0.005	U		0.005		03/26/2018	11:48	LB94139
CCB2	Reactive Cyanide	-0.00031	+/-0.005	U		0.005		03/26/2018	11:56	LB94139
CCB3	Reactive Cyanide	-0.00017	+/-0.005	U		0.005		03/26/2018	12:00	LB94139



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94139

SDG No.: LB94139

Contract: Lab Code: CHEM

Case No.: LB94139

SAS No.: LB94139

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: LB94139

SDG No.: LB94139

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
PB107625BL	Reactive Cyanide	SOLID		Batch Number:		PB107625		Prep Date:	03/26/2018	
		-0.0056	<0.05	U		0.05		03/26/2018	11:48	LB94139
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB107626BL	Reactive Cyanide	WATER		Batch Number:		PB107626		Prep Date:	03/26/2018	
		-0.00065	<0.005	U		0.005		03/26/2018	11:56	LB94139

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DUPLICATE SAMPLE SUMMARY

Client: LB94139 **Level:** LOW **SDG No.:** LB94139
Contract: **Lab Code:** CHEM **Case No.:** LB94139 **SAS No.:** LB94139
Matrix: Solid **Sample ID:** J1758-02 **Client ID:** PL-02-032318-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1758-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0043	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB94139 **Level:** LOW **SDG No.:** LB94139
Contract: **Lab Code:** CHEM **Case No.:** LB94139 **SAS No.:** LB94139
Matrix: WATER **Sample ID:** J2050-08 **Client ID:** TP-2-MH-CDUP
Percent Solids for Sample: 0 **Duplicate ID** J2050-08DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.00028	U			