

Daily Analysis Runlog For Sequence/QC Batch ID # LB94912

Review By		Review On				
SubDirectory		LB94912		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63991,WP63992,WP63993,WP63994WP63995,WP63996,WP63997,wp64013				
ICV Standard		WP64012				
CCV Standard		WP63998				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59958,WP60878,WP63999				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1			SAM	01/01/00		OK
2	0.0PPBCN	0.0PPBCN	CAL1	04/26/18 11:27		OK
3	5.0PPBCN	5.0PPBCN	CAL2	04/26/18 11:27		OK
4	10PPBCN	10PPBCN	CAL3	04/26/18 11:27		OK
5	50PPBCN	50PPBCN	CAL4	04/26/18 11:27		OK
6	100PPBCN	100PPBCN	CAL5	04/26/18 11:27		OK
7	250PPBCN	250PPBCN	CAL6	04/26/18 11:27		OK
8	500PPBCN	500PPBCN	CAL7	04/26/18 11:27		OK
9	ICV1	ICV1	ICV	04/26/18 12:15		OK
10	ICB1	ICB1	ICB	04/26/18 12:15		OK
11	CCV1	CCV1	CCV	04/26/18 12:15		OK
12	CCB1	CCB1	CCB	04/26/18 12:15		OK
13	PB108625BL	PB108625BL	MB	04/26/18 12:15		OK
14	J2154-02	JC-01-042518	SAM	04/26/18 12:15		OK
15	J2154-02DUP	JC-01-042518DUP	DUP	04/26/18 12:15		OK
16	J2156-06	HD-05-042518-A	SAM	04/26/18 12:15		OK
17	J2156-08	HD-05-042518-B	SAM	04/26/18 12:15		OK
18	J2156-10	HD-05-042518-C	SAM	04/26/18 12:15		OK
19	J2158-06	OK-02-042518	SAM	04/26/18 12:15		OK
20	J2161-08	OR-01-042518-A	SAM	04/26/18 12:23		OK
21	J2161-10	OR-01-042518-B	SAM	04/26/18 12:23		OK

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SubDirectory		LB94912		Test : Reactive Cyanide		
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ICV Standard		WP64012				
CCV Standard		WP63998				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59958,WP60878,WP63999				
22	J2455-44	TP-1	SAM	04/26/18 12:23		OK
23	CCV2	CCV2	CCV	04/26/18 12:23		OK
24	CCB2	CCB2	CCB	04/26/18 12:23		OK
25	J2455-45	TP-2	SAM	04/26/18 12:23		OK
26	J2455-46	TP-3	SAM	04/26/18 12:23		OK
27	J2455-47	TP-4	SAM	04/26/18 12:23		OK
28	J2549-08	SP-B	SAM	04/26/18 12:23		OK
29	J2549-12	SP-C	SAM	04/26/18 12:23		OK
30	J2549-16	SP-D	SAM	04/26/18 12:27		OK
31	J2564-02	LS-UB-27176	SAM	04/26/18 12:27		OK
32	J2549-04	SP-A	SAM	04/26/18 12:38		OK
33	CCV3	CCV3	CCV	04/26/18 12:54		OK
34	CCB3	CCB3	CCB	04/26/18 12:54		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB94912	Date Received:	
Client Sample ID:		SDG No.:	LB94912
Lab Sample ID:		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	U	1	0.0025		0.005	mg/Kg		01/01/1900	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	JC-01-042518	SDG No.:	LB94912
Lab Sample ID:	J2154-02	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	-0.018	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	HD-05-042518-A	SDG No.:	LB94912
Lab Sample ID:	J2156-06	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	-0.017	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	HD-05-042518-B	SDG No.:	LB94912
Lab Sample ID:	J2156-08	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	-0.0093	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	HD-05-042518-C	SDG No.:	LB94912
Lab Sample ID:	J2156-10	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.012	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	OK-02-042518	SDG No.:	LB94912
Lab Sample ID:	J2158-06	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	-0.0084	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	OR-01-042518-A	SDG No.:	LB94912
Lab Sample ID:	J2161-08	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	-0.015	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	OR-01-042518-B	SDG No.:	LB94912
Lab Sample ID:	J2161-10	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.005	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/18/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB94912
Lab Sample ID:	J2455-44	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	-0.006	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/18/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/18/2018 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB94912
Lab Sample ID:	J2455-45	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	-0.0066	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/18/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB94912
Lab Sample ID:	J2455-46	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	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/18/2018 12:00:00 AM
Client Sample ID:	TP-4	SDG No.:	LB94912
Lab Sample ID:	J2455-47	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	-0.00017	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB94912
Lab Sample ID:	J2549-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.013	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	SP-B	SDG No.:	LB94912
Lab Sample ID:	J2549-08	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.
	Reactive Cyanide	-0.0067	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	SP-C	SDG No.:	LB94912
Lab Sample ID:	J2549-12	Matrix:	Solid
Level (low/med):	low	% Solid:	90.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.015	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	SP-D	SDG No.:	LB94912
Lab Sample ID:	J2549-16	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0065	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	LS-UB-27176	SDG No.:	LB94912
Lab Sample ID:	J2564-02	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	-0.0094	U	1	0.025		0.05	mg/Kg	04/26/2018	04/26/2018	9012B

Report of Analysis

Client:		Date Collected:	4/25/2018 12:00:00 AM
Project:	LB94912	Date Received:	4/25/2018 12:00:00 AM
Client Sample ID:	LS-UB-27176	SDG No.:	LB94912
Lab Sample ID:	J2564-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB94912

SDG No.: LB94912

Contract: **Lab Code:** CHEM

Case No.: LB94912

SAS No.: LB94912

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	0.096	0.099	97		85 - 115		04/26/2018	12:15	LB94912



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94912

SDG No.: LB94912

Contract: _____ Lab Code: CHEM

Case No.: LB94912

SAS No.: LB94912

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		04/26/2018	12:15	LB94912
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		04/26/2018	12:23	LB94912
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		04/26/2018	12:54	LB94912



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94912

SDG No.: LB94912

Contract:

Lab Code: CHEM

Case No.: LB94912

SAS No.: LB94912

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00038	+/-0.005	U		0.005		04/26/2018	12:15	LB94912



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94912

SDG No.: LB94912

Contract:

Lab Code: CHEM

Case No.: LB94912

SAS No.: LB94912

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00031	+/-0.005	U		0.005		04/26/2018	12:15	LB94912
CCB2	Reactive Cyanide	-0.00066	+/-0.005	U		0.005		04/26/2018	12:23	LB94912
CCB3	Reactive Cyanide	-0.00071	+/-0.005	U		0.005		04/26/2018	12:54	LB94912



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94912

SDG No.: LB94912

Contract: Lab Code: CHEM

Case No.: LB94912

SAS No.: LB94912

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: LB94912

SDG No.: LB94912

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
PB108625BL	Reactive Cyanide	SOLID -0.0087	<0.05	Batch Number: U		PB108625 0.05		Prep Date: 04/26/2018	04/26/2018 12:15	LB94912

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94912 **Level:** LOW **SDG No.:** LB94912
Contract: **Lab Code:** CHEM **Case No.:** LB94912 **SAS No.:** LB94912
Matrix: Solid **Sample ID:** J2154-02 **Client ID:** JC-01-042518DUP
Percent Solids for Sample: 100 **Duplicate ID** J2154-02DUP **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	-0.013	U			