

Daily Analysis Runlog For Sequence/QC Batch ID # LB94844

Review By

Review On

SubDirectory

LB94844

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		WP63924				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63925,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/24/18 08:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/24/18 08:36		OK
3	10PPBCN	10PPBCN	CAL3	04/24/18 08:36		OK
4	50PPBCN	50PPBCN	CAL4	04/24/18 08:36		OK
5	100PPBCN	100PPBCN	CAL5	04/24/18 08:36		OK
6	250PPBCN	250PPBCN	CAL6	04/24/18 08:36		OK
7	500PPBCN	500PPBCN	CAL7	04/24/18 08:36		OK
8	ICV1	ICV1	ICV	04/24/18 12:20		OK
9	ICB1	ICB1	ICB	04/24/18 12:20		OK
10	CCV1	CCV1	CCV	04/24/18 12:20		OK
11	CCB1	CCB1	CCB	04/24/18 12:20		OK
12	PB108534BL	PB108534BL	MB	04/24/18 12:20		OK
13	J2151-08	AU-05-042318-A	SAM	04/24/18 12:20		OK
14	J2151-08DUP	AU-05-042318-ADUP	DUP	04/24/18 12:20		OK
15	J2151-10	AU-05-042318-B	SAM	04/24/18 12:20		OK
16	J2151-12	AU-05-042318-C	SAM	04/24/18 12:20		OK
17	J2151-14	AU-05-042318-D	SAM	04/24/18 12:21		OK
18	J2504-03	KS-RO-238	SAM	04/24/18 12:21		OK
19	J2506-01	CB-TCLP-64-0418	SAM	04/24/18 12:28		OK
20	J2506-02	CB-TCLP-VAR-0418	SAM	04/24/18 12:28		OK
21	J2508-04	TP-1	SAM	04/24/18 12:28		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB94844

Review By		Review On				
SubDirectory		LB94844		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63916,WP63917,WP63918,WP63919,WP63920,WP63921,WP63922				
ICV Standard		WP63924				
CCV Standard		WP63923				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63925,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/24/18 12:53		OK
23	CCB2	CCB2	CCB	04/24/18 12:53		OK
24	J2508-08	TP-2	SAM	04/24/18 12:53		OK
25	J2508-12	TP-3	SAM	04/24/18 12:53		OK
26	J2508-16	TP-4	SAM	04/24/18 12:53		OK
27	J2508-20	TP-5	SAM	04/24/18 12:53		OK
28	J2508-24	TP-6	SAM	04/24/18 12:53		OK
29	J2509-03	WS-DRUM	SAM	04/24/18 12:53		OK
30	J2512-05	TP-1-2-WC1	SAM	04/24/18 12:53		OK
31	PB108535BL	PB108535BL	MB	04/24/18 12:53		OK
32	J2510-03	FADW4710L	SAM	04/24/18 12:53		OK
33	J2510-03DUP	FADW4710LDUP	DUP	04/24/18 12:57		OK
34	CCV3	CCV3	CCV	04/24/18 12:57		OK
35	CCB3	CCB3	CCB	04/24/18 12:57		OK



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	AU-05-042318-A	SDG No.:	LB94844
Lab Sample ID:	J2151-08	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	-0.0088	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	AU-05-042318-B	SDG No.:	LB94844
Lab Sample ID:	J2151-10	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	-0.0058	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	AU-05-042318-C	SDG No.:	LB94844
Lab Sample ID:	J2151-12	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	-0.0053	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	AU-05-042318-D	SDG No.:	LB94844
Lab Sample ID:	J2151-14	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	-0.0064	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	KS-RO-238	SDG No.:	LB94844
Lab Sample ID:	J2504-03	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	-0.0077	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	CB-TCLP-64-0418	SDG No.:	LB94844
Lab Sample ID:	J2506-01	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.
	Reactive Cyanide	-0.011	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	CB-TCLP-VAR-0418	SDG No.:	LB94844
Lab Sample ID:	J2506-02	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0056	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB94844
Lab Sample ID:	J2508-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0056	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB94844
Lab Sample ID:	J2508-08	Matrix:	Solid
Level (low/med):	low	% Solid:	86.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0025	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB94844
Lab Sample ID:	J2508-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0029	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-4	SDG No.:	LB94844
Lab Sample ID:	J2508-16	Matrix:	Solid
Level (low/med):	low	% Solid:	86.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0043	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-5	SDG No.:	LB94844
Lab Sample ID:	J2508-20	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

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	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	TP-6	SDG No.:	LB94844
Lab Sample ID:	J2508-24	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0057	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	WS-DRUM	SDG No.:	LB94844
Lab Sample ID:	J2509-03	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	-0.0038	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/23/2018 12:00:00 AM
Client Sample ID:	FADW4710L	SDG No.:	LB94844
Lab Sample ID:	J2510-03	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	-0.00062	U	1	0.0025		0.005	mg/L	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	TP-1-2-WC1	SDG No.:	LB94844
Lab Sample ID:	J2512-05	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.007	U	1	0.025		0.05	mg/Kg	04/24/2018	04/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/20/2018 12:00:00 AM
Project:	LB94844	Date Received:	4/20/2018 12:00:00 AM
Client Sample ID:	TP-1-2-WC1	SDG No.:	LB94844
Lab Sample ID:	J2512-05	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

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: LB94844

SDG No.: LB94844

Contract: _____ Lab Code: CHEM

Case No.: LB94844

SAS No.: LB94844

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	0.098	0.099	99		85 - 115		04/24/2018	12:20	LB94844



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94844

SDG No.: LB94844

Contract: _____ Lab Code: CHEM

Case No.: LB94844

SAS No.: LB94844

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		04/24/2018	12:20	LB94844
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		04/24/2018	12:53	LB94844
CCV3	Reactive Cyanide	0.24	0.25	96		90 - 110		04/24/2018	12:57	LB94844



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94844

SDG No.: LB94844

Contract:

Lab Code: CHEM

Case No.: LB94844

SAS No.: LB94844

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00047	+/-0.005	U		0.005		04/24/2018	12:20	LB94844



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94844

SDG No.: LB94844

Contract:

Lab Code: CHEM

Case No.: LB94844

SAS No.: LB94844

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00032	+/-0.005	U		0.005		04/24/2018	12:20	LB94844
CCB2	Reactive Cyanide	-0.00063	+/-0.005	U		0.005		04/24/2018	12:53	LB94844
CCB3	Reactive Cyanide	-0.00039	+/-0.005	U		0.005		04/24/2018	12:57	LB94844



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94844

SDG No.: LB94844

Contract: Lab Code: CHEM

Case No.: LB94844

SAS No.: LB94844

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: LB94844

SDG No.: LB94844

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
PB108534BL	Reactive Cyanide	SOLID		Batch Number:		PB108534		Prep Date:	04/24/2018	
		-0.0084	<0.05	U		0.05		04/24/2018	12:20	LB94844
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108535BL	Reactive Cyanide	WATER		Batch Number:		PB108535		Prep Date:	04/24/2018	
		-0.00052	<0.005	U		0.005		04/24/2018	12:53	LB94844

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94844 **Level:** LOW **SDG No.:** LB94844
Contract: **Lab Code:** CHEM **Case No.:** LB94844 **SAS No.:** LB94844
Matrix: Solid **Sample ID:** J2151-08 **Client ID:** AU-05-042318-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2151-08DUP **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	-0.0045	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94844 **Level:** LOW **SDG No.:** LB94844
Contract: **Lab Code:** CHEM **Case No.:** LB94844 **SAS No.:** LB94844
Matrix: WATER **Sample ID:** J2510-03 **Client ID:** FADW4710LDUP
Percent Solids for Sample: 0 **Duplicate ID** J2510-03DUP **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	-0.0001	U			