

Daily Analysis Runlog For Sequence/QC Batch ID # LB94485

Review By		Review On				
SubDirectory		LB94485		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP63518,WP63519,WP63520,WP63521,WP63522,WP63523,WP63524				
ICV Standard		WP63526				
CCV Standard		WP63525				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63528,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	04/09/18 13:44		OK
2	5.0PPBCN	5.0PPBCN	CAL2	04/09/18 13:44		OK
3	10PPBCN	10PPBCN	CAL3	04/09/18 13:44		OK
4	50PPBCN	50PPBCN	CAL4	04/09/18 13:44		OK
5	100PPBCN	100PPBCN	CAL5	04/09/18 13:44		OK
6	250PPBCN	250PPBCN	CAL6	04/09/18 13:44		OK
7	500PPBCN	500PPBCN	CAL7	04/09/18 13:44		OK
8	ICV1	ICV1	ICV	04/09/18 14:18		OK
9	ICB1	ICB1	ICB	04/09/18 14:18		OK
10	CCV1	CCV1	CCV	04/09/18 14:18		OK
11	CCB1	CCB1	CCB	04/09/18 14:18		OK
12	PB108081BL	PB108081BL	MB	04/09/18 14:18		OK
13	J2155-02	NB-01-040618-A	SAM	04/09/18 14:18		OK
14	J2155-02DUP	NB-01-040618-ADUP	DUP	04/09/18 14:18		OK
15	J2155-04	NB-01-040618-B	SAM	04/09/18 14:18		OK
16	J2155-06	NB-01-040618-C	SAM	04/09/18 14:18		OK
17	J2157-02	CL-01-040618-A	SAM	04/09/18 14:18		OK
18	J2157-04	CL-01-040618-B	SAM	04/09/18 14:18		OK
19	J2157-06	CL-01-040618-C	SAM	04/09/18 14:25		OK
20	J2157-08	CL-01-040618-D	SAM	04/09/18 14:25		OK
21	J2157-10	CL-01-040618-E	SAM	04/09/18 14:25		OK

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SubDirectory		LB94485		Test : Reactive Cyanide		
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ICV Standard		WP63526				
CCV Standard		WP63525				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63528,WP59958,WP60878				
22	CCV2	CCV2	CCV	04/09/18 14:25		OK
23	CCB2	CCB2	CCB	04/09/18 14:25		OK
24	J2158-02	OK-03-040618	SAM	04/09/18 14:25		OK
25	J2270-02	SOUTHLAWN-PREC	SAM	04/09/18 14:25		OK
26	J2270-04	SOUTHLAWN-PREC	SAM	04/09/18 14:25		OK
27	J2270-06	SOUTHLAWN-PREC	SAM	04/09/18 14:25		OK
28	J2278-03	DRUM-2-3-6-8-9-11-	SAM	04/09/18 14:26		OK
29	J2280-02	S1	SAM	04/09/18 14:26		OK
30	J2280-04	S2	SAM	04/09/18 14:30		OK
31	J2283-02	SOIL-CUTTINGS	SAM	04/09/18 14:30		OK
32	CCV3	CCV3	CCV	04/09/18 14:30		OK
33	CCB3	CCB3	CCB	04/09/18 14:30		OK



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	NB-01-040618-A	SDG No.:	LB94485
Lab Sample ID:	J2155-02	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	-0.013	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	NB-01-040618-B	SDG No.:	LB94485
Lab Sample ID:	J2155-04	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	-0.014	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	NB-01-040618-C	SDG No.:	LB94485
Lab Sample ID:	J2155-06	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	-0.011	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	CL-01-040618-A	SDG No.:	LB94485
Lab Sample ID:	J2157-02	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	-0.0061	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B

Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	CL-01-040618-B	SDG No.:	LB94485
Lab Sample ID:	J2157-04	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	-0.012	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	CL-01-040618-C	SDG No.:	LB94485
Lab Sample ID:	J2157-06	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	-0.0096	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	CL-01-040618-D	SDG No.:	LB94485
Lab Sample ID:	J2157-08	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	-0.013	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	CL-01-040618-E	SDG No.:	LB94485
Lab Sample ID:	J2157-10	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	-0.0084	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	OK-03-040618	SDG No.:	LB94485
Lab Sample ID:	J2158-02	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	-0.012	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	SOUTHLAWN-PRECHAR-AREA-1	SDG No.:	LB94485
Lab Sample ID:	J2270-02	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	-0.0044	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	SOUTHLAWN-PRECHAR-AREA-2	SDG No.:	LB94485
Lab Sample ID:	J2270-04	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	-0.015	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/5/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	SOUTHLAWN-PRECHAR-AREA-3	SDG No.:	LB94485
Lab Sample ID:	J2270-06	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	-0.0065	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	DRUM-2-3-6-8-9-11-13	SDG No.:	LB94485
Lab Sample ID:	J2278-03	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	-0.0074	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	S1	SDG No.:	LB94485
Lab Sample ID:	J2280-02	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.
	Reactive Cyanide	-0.015	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B

Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	S2	SDG No.:	LB94485
Lab Sample ID:	J2280-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

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	04/09/2018	04/09/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	SOIL-CUTTINGS	SDG No.:	LB94485
Lab Sample ID:	J2283-02	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	-0.01	U	1	0.025		0.05	mg/Kg	04/09/2018	04/09/2018	9012B



Report of Analysis

Client:		Date Collected:	4/6/2018 12:00:00 AM
Project:	LB94485	Date Received:	4/6/2018 12:00:00 AM
Client Sample ID:	SOIL-CUTTINGS	SDG No.:	LB94485
Lab Sample ID:	J2283-02	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: LB94485

SDG No.: LB94485

Contract: _____

Lab Code: CHEM

Case No.: LB94485

SAS No.: LB94485

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	0.099	0.099	100		85 - 115		04/09/2018	14:18	LB94485



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94485

SDG No.: LB94485

Contract: _____ Lab Code: CHEM

Case No.: LB94485

SAS No.: LB94485

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	0.25	0.25	100		90 - 110		04/09/2018	14:18	LB94485
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		04/09/2018	14:25	LB94485
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		04/09/2018	14:30	LB94485



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94485

SDG No.: LB94485

Contract:

Lab Code: CHEM

Case No.: LB94485

SAS No.: LB94485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00095	+/-0.005	U		0.005		04/09/2018	14:18	LB94485

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00097	+/-0.005	U		0.005		04/09/2018	14:18	LB94485
CCB2	Reactive Cyanide	-0.0011	+/-0.005	U		0.005		04/09/2018	14:25	LB94485
CCB3	Reactive Cyanide	-0.0016	+/-0.005	U		0.005		04/09/2018	14:30	LB94485



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94485

SDG No.: LB94485

Contract: Lab Code: CHEM

Case No.: LB94485

SAS No.: LB94485

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: LB94485

SDG No.: LB94485

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
PB108081BL	Reactive Cyanide	SOLID -0.011	<0.05	Batch Number: U		PB108081 0.05		Prep Date: 04/09/2018	04/09/2018 14:18	LB94485

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB94485 **Level:** LOW **SDG No.:** LB94485
Contract: **Lab Code:** CHEM **Case No.:** LB94485 **SAS No.:** LB94485
Matrix: Solid **Sample ID:** J2155-02 **Client ID:** NB-01-040618-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J2155-02DUP **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	-0.014	U			