

Daily Analysis Runlog For Sequence/QC Batch ID # LB95339

Review By

Review On

SubDirectory

LB95339

Test :

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP64442,WP64443,WP64444,WP64445,WP64446,WP64447,WP64448				
ICV Standard		WP64450				
CCV Standard		WP64449				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64452,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/14/18 11:08		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/14/18 11:08		OK
3	10PPBCN	10PPBCN	CAL3	05/14/18 11:08		OK
4	50PPBCN	50PPBCN	CAL4	05/14/18 11:08		OK
5	100PPBCN	100PPBCN	CAL5	05/14/18 11:08		OK
6	250PPBCN	250PPBCN	CAL6	05/14/18 11:08		OK
7	500PPBCN	500PPBCN	CAL7	05/14/18 11:08		OK
8	ICV1	ICV1	ICV	05/14/18 13:23		OK
9	ICB1	ICB1	ICB	05/14/18 13:23		OK
10	CCV1	CCV1	CCV	05/14/18 13:23		OK
11	CCB1	CCB1	CCB	05/14/18 13:23		OK
12	J2670-04	TR-05-051118	SAM	05/14/18 13:23		OK
13	J2670-04DUP	TR-05-051118DUP	DUP	05/14/18 13:23		OK
14	J2671-12	AU-02-051118-A	SAM	05/14/18 13:23		OK
15	J2671-14	AU-02-051118-B	SAM	05/14/18 13:23		OK
16	J2674-04	HD-01-051118	SAM	05/14/18 13:23		OK
17	J2679-08	EO-05-051118-A	SAM	05/14/18 13:23		OK
18	J2679-10	EO-05-051118-B	SAM	05/14/18 13:30		OK
19	J2880-03	PLANTER-AREA-2-F	SAM	05/14/18 13:30		OK
20	PB109234BL	PB109234BL	MB	05/14/18 14:01		OK
21	CCV2	CCV2	CCV	05/14/18 14:01		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95339

Review By		Review On				
SubDirectory		LB95339		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64442,WP64443,WP64444,WP64445,WP64446,WP64447,WP64448				
ICV Standard		WP64450				
CCV Standard		WP64449				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64452,WP59958,WP60878				
22	CCB2	CCB2	CCB	05/14/18 14:01		OK
23	J2679-12	EO-05-051118-C	SAM	05/14/18 14:01		OK
24	J2880-06	PLANTER-AREA-3-F	SAM	05/14/18 14:01		OK
25	J2883-02	DRUM-1-5	SAM	05/14/18 14:01		OK
26	J2888-04	RRT-N1	SAM	05/14/18 14:01		OK
27	J2888-08	RRT-N2	SAM	05/14/18 14:07		OK
28	J2888-12	RRT-S1	SAM	05/14/18 14:07		OK
29	J2888-16	RRT-S2	SAM	05/14/18 14:07		OK
30	J2888-20	26KV-N1	SAM	05/14/18 14:07		OK
31	J2888-24	26KV-N2	SAM	05/14/18 14:07		OK
32	J2888-28	26KV-S1	SAM	05/14/18 14:07		OK
33	CCV3	CCV3	CCV	05/14/18 14:07		OK
34	CCB3	CCB3	CCB	05/14/18 14:07		OK
35	J2888-32	26KV-S2	SAM	05/14/18 14:23		OK
36	CCV4	CCV4	CCV	05/14/18 14:23		OK
37	CCB4	CCB4	CCB	05/14/18 14:23		OK



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	TR-05-051118	SDG No.:	LB95339
Lab Sample ID:	J2670-04	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	0.0083	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	AU-02-051118-A	SDG No.:	LB95339
Lab Sample ID:	J2671-12	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	0.0022	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	AU-02-051118-B	SDG No.:	LB95339
Lab Sample ID:	J2671-14	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	0.007	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	HD-01-051118	SDG No.:	LB95339
Lab Sample ID:	J2674-04	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	0.0063	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-A	SDG No.:	LB95339
Lab Sample ID:	J2679-08	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	0.0045	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-B	SDG No.:	LB95339
Lab Sample ID:	J2679-10	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	0.0065	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EO-05-051118-C	SDG No.:	LB95339
Lab Sample ID:	J2679-12	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	0.01	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	PLANTER-AREA-2-PRECHAR	SDG No.:	LB95339
Lab Sample ID:	J2880-03	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	0.011	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/10/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	PLANTER-AREA-3-PRECHAR	SDG No.:	LB95339
Lab Sample ID:	J2880-06	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	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	DRUM-1-5	SDG No.:	LB95339
Lab Sample ID:	J2883-02	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	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	RRT-N1	SDG No.:	LB95339
Lab Sample ID:	J2888-04	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	0.011	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	RRT-N2	SDG No.:	LB95339
Lab Sample ID:	J2888-08	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	0.014	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	RRT-S1	SDG No.:	LB95339
Lab Sample ID:	J2888-12	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	0.011	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	RRT-S2	SDG No.:	LB95339
Lab Sample ID:	J2888-16	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	0.0098	U	1	0.025		0.05	mg/Kg	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	26KV-N1	SDG No.:	LB95339
Lab Sample ID:	J2888-20	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	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	26KV-N2	SDG No.:	LB95339
Lab Sample ID:	J2888-24	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	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	26KV-S1	SDG No.:	LB95339
Lab Sample ID:	J2888-28	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	05/14/2018	05/14/2018	9012B

Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	26KV-S2	SDG No.:	LB95339
Lab Sample ID:	J2888-32	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	05/14/2018	05/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95339	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	26KV-S2	SDG No.:	LB95339
Lab Sample ID:	J2888-32	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: LB95339

SDG No.: LB95339

Contract: _____

Lab Code: CHEM

Case No.: LB95339

SAS No.: LB95339

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		05/14/2018	13:23	LB95339



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95339

SDG No.: LB95339

Contract: _____ Lab Code: CHEM

Case No.: LB95339

SAS No.: LB95339

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		05/14/2018	13:23	LB95339
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/14/2018	14:01	LB95339
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		05/14/2018	14:07	LB95339
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		05/14/2018	14:23	LB95339



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95339

SDG No.: LB95339

Contract:

Lab Code: CHEM

Case No.: LB95339

SAS No.: LB95339

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00096	+/-0.005	U		0.005		05/14/2018	13:23	LB95339

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00093	+/-0.005	U		0.005		05/14/2018	13:23	LB95339
CCB2	Reactive Cyanide	0.00086	+/-0.005	U		0.005		05/14/2018	14:01	LB95339
CCB3	Reactive Cyanide	0.0013	+/-0.005	U		0.005		05/14/2018	14:07	LB95339
CCB4	Reactive Cyanide	0.0013	+/-0.005	U		0.005		05/14/2018	14:23	LB95339



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95339

SDG No.: LB95339

Contract: Lab Code: CHEM

Case No.: LB95339

SAS No.: LB95339

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: LB95339

SDG No.: LB95339

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
PB109234BL	Reactive Cyanide	SOLID 0.011	<0.05	Batch Number: U		PB109234 0.05		Prep Date: 05/14/2018	05/14/2018 14:01	LB95339

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95339 **Level:** LOW **SDG No.:** LB95339
Contract: **Lab Code:** CHEM **Case No.:** LB95339 **SAS No.:** LB95339
Matrix: Solid **Sample ID:** J2670-04 **Client ID:** TR-05-051118DUP
Percent Solids for Sample: 100 **Duplicate ID** J2670-04DUP **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	0.01	U			