

Daily Analysis Runlog For Sequence/QC Batch ID # LB96150

Review By		Review On				
SubDirectory		LB96150		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65448,WP65449,WP65450,WP65451,WP65452,WP65453,WP65454				
ICV Standard		WP65456				
CCV Standard		WP65455				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP65457,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/20/18 08:14		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/20/18 08:14		OK
3	10PPBCN	10PPBCN	CAL3	06/20/18 08:14		OK
4	50PPBCN	50PPBCN	CAL4	06/20/18 08:14		OK
5	100PPBCN	100PPBCN	CAL5	06/20/18 08:14		OK
6	250PPBCN	250PPBCN	CAL6	06/20/18 08:14		OK
7	500PPBCN	500PPBCN	CAL7	06/20/18 08:14		OK
8	ICV1	ICV1	ICV	06/20/18 11:39		OK
9	ICB1	ICB1	ICB	06/20/18 11:39		OK
10	CCV1	CCV1	CCV	06/20/18 11:39		OK
11	CCB1	CCB1	CCB	06/20/18 11:39		OK
12	PB110416BL	PB110416BL	MB	06/20/18 11:39		OK
13	J3245-10	CL-02-061918-A	SAM	06/20/18 11:39		OK
14	J3245-10DUP	CL-02-061918-ADUP	DUP	06/20/18 11:39		OK
15	J3245-12	CL-02-061918-B	SAM	06/20/18 11:39		OK
16	J3245-14	CL-02-061918-C	SAM	06/20/18 11:39		OK
17	J3245-16	CL-02-061918-D	SAM	06/20/18 11:39		OK
18	J3247-06	OR-01-061918	SAM	06/20/18 11:39		OK
19	J3603-02	26KV-TP-1	SAM	06/20/18 11:47		OK
20	J3603-04	26KV-TP-2	SAM	06/20/18 11:47		OK
21	J3603-06	26KV-TP-3	SAM	06/20/18 11:47		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB96150

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SubDirectory		LB96150		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65448,WP65449,WP65450,WP65451,WP65452,WP65453,WP65454				
ICV Standard		WP65456				
CCV Standard		WP65455				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP65457,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/20/18 11:47		OK
23	CCB2	CCB2	CCB	06/20/18 11:47		OK
24	J3603-08	26KV-TP-4	SAM	06/20/18 11:47		OK
25	J3603-10	26KV-TP-5	SAM	06/20/18 11:47		OK
26	J3603-12	26KV-CSM	SAM	06/20/18 11:47		OK
27	J3603-16	26KV-TP-9	SAM	06/20/18 11:47		OK
28	J3603-18	26KV-TP-8	SAM	06/20/18 11:47		OK
29	J3603-20	26KV-TP-7	SAM	06/20/18 11:51		OK
30	J3603-22	26KV-TP-6	SAM	06/20/18 11:51		OK
31	J3603-24	26KV-TP-11	SAM	06/20/18 11:51		OK
32	J3603-14	26KV-TP-10	SAM	06/20/18 12:12		OK
33	CCV3	CCV3	CCV	06/20/18 12:12		OK
34	CCB3	CCB3	CCB	06/20/18 12:12		OK



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-A	SDG No.:	LB96150
Lab Sample ID:	J3245-10	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	0.0011	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-B	SDG No.:	LB96150
Lab Sample ID:	J3245-12	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	0.0049	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-C	SDG No.:	LB96150
Lab Sample ID:	J3245-14	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	0.0041	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	CL-02-061918-D	SDG No.:	LB96150
Lab Sample ID:	J3245-16	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	0.0011	U	1	0.025		0.049	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	OR-01-061918	SDG No.:	LB96150
Lab Sample ID:	J3247-06	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	0.0023	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-1	SDG No.:	LB96150
Lab Sample ID:	J3603-02	Matrix:	Solid
Level (low/med):	low	% Solid:	67.8

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	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-2	SDG No.:	LB96150
Lab Sample ID:	J3603-04	Matrix:	Solid
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0013	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-3	SDG No.:	LB96150
Lab Sample ID:	J3603-06	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0051	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-4	SDG No.:	LB96150
Lab Sample ID:	J3603-08	Matrix:	Solid
Level (low/med):	low	% Solid:	80.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0074	U	1	0.025		0.049	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-5	SDG No.:	LB96150
Lab Sample ID:	J3603-10	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00068	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-CSM	SDG No.:	LB96150
Lab Sample ID:	J3603-12	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.002	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-10	SDG No.:	LB96150
Lab Sample ID:	J3603-14	Matrix:	Solid
Level (low/med):	low	% Solid:	81.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0026	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-9	SDG No.:	LB96150
Lab Sample ID:	J3603-16	Matrix:	Solid
Level (low/med):	low	% Solid:	70.3

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	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-8	SDG No.:	LB96150
Lab Sample ID:	J3603-18	Matrix:	Solid
Level (low/med):	low	% Solid:	76.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00022	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-7	SDG No.:	LB96150
Lab Sample ID:	J3603-20	Matrix:	Solid
Level (low/med):	low	% Solid:	71.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0039	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-6	SDG No.:	LB96150
Lab Sample ID:	J3603-22	Matrix:	Solid
Level (low/med):	low	% Solid:	72.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0076	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-11	SDG No.:	LB96150
Lab Sample ID:	J3603-24	Matrix:	Solid
Level (low/med):	low	% Solid:	73.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0036	U	1	0.025		0.05	mg/Kg	06/20/2018	06/20/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/19/2018 12:00:00 AM
Project:	LB96150	Date Received:	6/19/2018 12:00:00 AM
Client Sample ID:	26KV-TP-11	SDG No.:	LB96150
Lab Sample ID:	J3603-24	Matrix:	Solid
Level (low/med):	low	% Solid:	73.4

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: LB96150

SDG No.: LB96150

Contract: _____

Lab Code: CHEM

Case No.: LB96150

SAS No.: LB96150

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		06/20/2018	11:39	LB96150



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96150

SDG No.: LB96150

Contract: _____ Lab Code: CHEM

Case No.: LB96150

SAS No.: LB96150

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		06/20/2018	11:39	LB96150
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		06/20/2018	11:47	LB96150
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		06/20/2018	12:12	LB96150



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96150

SDG No.: LB96150

Contract:

Lab Code: CHEM

Case No.: LB96150

SAS No.: LB96150

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00066	+/-0.005	U		0.005		06/20/2018	11:39	LB96150



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96150

SDG No.: LB96150

Contract:

Lab Code: CHEM

Case No.: LB96150

SAS No.: LB96150

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00073	+/-0.005	U		0.005		06/20/2018	11:39	LB96150
CCB2	Reactive Cyanide	0.00059	+/-0.005	U		0.005		06/20/2018	11:47	LB96150
CCB3	Reactive Cyanide	-0.00012	+/-0.005	U		0.005		06/20/2018	12:12	LB96150



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96150

SDG No.: LB96150

Contract: Lab Code: CHEM

Case No.: LB96150

SAS No.: LB96150

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: LB96150

SDG No.: LB96150

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
PB110416BL	Reactive Cyanide	SOLID -0.0016	<0.05	Batch Number: U		PB110416 0.05		Prep Date: 06/20/2018	06/20/2018 11:39	LB96150

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB96150 **Level:** LOW **SDG No.:** LB96150
Contract: **Lab Code:** CHEM **Case No.:** LB96150 **SAS No.:** LB96150
Matrix: Solid **Sample ID:** J3245-10 **Client ID:** CL-02-061918-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J3245-10DUP **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	0.0025	U			