

Daily Analysis Runlog For Sequence/QC Batch ID # LB93135

Review By		Review On				
SubDirectory		LB93135		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61647,WP61648,WP61649,WP61650,WP61651,WP61652,WP61653				
ICV Standard		WP61655				
CCV Standard		WP61654				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61657,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/07/18 10:16		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/07/18 10:16		OK
3	10PPBCN	10PPBCN	CAL3	02/07/18 10:16		OK
4	50PPBCN	50PPBCN	CAL4	02/07/18 10:16		OK
5	100PPBCN	100PPBCN	CAL5	02/07/18 10:16		OK
6	250PPBCN	250PPBCN	CAL6	02/07/18 10:16		OK
7	500PPBCN	500PPBCN	CAL7	02/07/18 10:16		OK
8	ICV1	ICV1	ICV	02/07/18 12:01		OK
9	ICB1	ICB1	ICB	02/07/18 12:01		OK
10	CCV1	CCV1	CCV	02/07/18 12:01		OK
11	CCB1	CCB1	CCB	02/07/18 12:01		OK
12	PB106360BL	PB106360BL	MB	02/07/18 12:01		OK
13	J1400-02	EO-01-020618-A	SAM	02/07/18 12:01		OK
14	J1400-02DUP	EO-01-020618-ADUP	DUP	02/07/18 12:01		OK
15	J1400-04	EO-01-020618-B	SAM	02/07/18 12:09		OK
16	J1400-06	EO-01-020618-C	SAM	02/07/18 12:09		OK
17	J1403-02	SU-04-020618	SAM	02/07/18 12:09		OK
18	J1465-03	RT-3451	SAM	02/07/18 12:09		OK
19	J1473-04	B1	SAM	02/07/18 12:09		OK
20	J1473-08	B2	SAM	02/07/18 12:09		OK
21	J1473-12	B3	SAM	02/07/18 12:09		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93135

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SubDirectory		LB93135		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61647,WP61648,WP61649,WP61650,WP61651,WP61652,WP61653				
ICV Standard		WP61655				
CCV Standard		WP61654				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61657,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/07/18 12:09		OK
23	CCB2	CCB2	CCB	02/07/18 12:09		OK
24	J1473-16	B4	SAM	02/07/18 12:09		OK
25	J1473-20	B5	SAM	02/07/18 12:09		OK
26	J1473-24	B6	SAM	02/07/18 12:16		OK
27	J1473-28	B7	SAM	02/07/18 12:16		OK
28	J1473-32	B8	SAM	02/07/18 12:16		OK
29	J1473-36	B9	SAM	02/07/18 12:16		OK
30	J1473-40	B10	SAM	02/07/18 12:16		OK
31	J1473-44	B11	SAM	02/07/18 12:16		OK
32	PB106361BL	PB106361BL	MB	02/07/18 12:16		OK
33	J1466-02	FRAC-TANK	SAM	02/07/18 12:16		OK
34	CCV3	CCV3	CCV	02/07/18 12:16		OK
35	CCB3	CCB3	CCB	02/07/18 12:16		OK
36	J1466-02DUP	FRAC-TANKDUP	DUP	02/07/18 12:16		OK
37	CCV4	CCV4	CCV	02/07/18 12:39		OK
38	CCB4	CCB4	CCB	02/07/18 12:39		OK

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	EO-01-020618-A	SDG No.:	LB93135
Lab Sample ID:	J1400-02	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	0.0029	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	EO-01-020618-B	SDG No.:	LB93135
Lab Sample ID:	J1400-04	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	0.003	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	EO-01-020618-C	SDG No.:	LB93135
Lab Sample ID:	J1400-06	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	0.0036	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	SU-04-020618	SDG No.:	LB93135
Lab Sample ID:	J1403-02	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	0.0036	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	RT-3451	SDG No.:	LB93135
Lab Sample ID:	J1465-03	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	0.0045	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	FRAC-TANK	SDG No.:	LB93135
Lab Sample ID:	J1466-02	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	0.00061	U	1	0.0025		0.005	mg/L	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B1	SDG No.:	LB93135
Lab Sample ID:	J1473-04	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	0.0095	U	1	0.025		0.049	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B2	SDG No.:	LB93135
Lab Sample ID:	J1473-08	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	0.0046	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B3	SDG No.:	LB93135
Lab Sample ID:	J1473-12	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	0.0054	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B4	SDG No.:	LB93135
Lab Sample ID:	J1473-16	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	0.0039	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B5	SDG No.:	LB93135
Lab Sample ID:	J1473-20	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	0.0049	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B6	SDG No.:	LB93135
Lab Sample ID:	J1473-24	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	0.0033	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B7	SDG No.:	LB93135
Lab Sample ID:	J1473-28	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	0.0031	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B8	SDG No.:	LB93135
Lab Sample ID:	J1473-32	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	0.006	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B9	SDG No.:	LB93135
Lab Sample ID:	J1473-36	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	0.0042	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B10	SDG No.:	LB93135
Lab Sample ID:	J1473-40	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	0.0051	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B11	SDG No.:	LB93135
Lab Sample ID:	J1473-44	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	0.0046	U	1	0.025		0.05	mg/Kg	02/07/2018	02/07/2018	9012B

Report of Analysis

Client:		Date Collected:	2/6/2018 12:00:00 AM
Project:	LB93135	Date Received:	2/6/2018 12:00:00 AM
Client Sample ID:	B11	SDG No.:	LB93135
Lab Sample ID:	J1473-44	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB93135

SDG No.: LB93135

Contract: _____ Lab Code: CHEM

Case No.: LB93135

SAS No.: LB93135

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	0.095	0.099	96		85 - 115		02/07/2018	12:01	lb93135



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93135

SDG No.: LB93135

Contract: _____ Lab Code: CHEM

Case No.: LB93135

SAS No.: LB93135

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		02/07/2018	12:01	lb93135
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		02/07/2018	12:09	lb93135
CCV3	Reactive Cyanide	0.24	0.25	96		90 - 110		02/07/2018	12:16	lb93135
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		02/07/2018	12:39	lb93135



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93135

SDG No.: LB93135

Contract:

Lab Code: CHEM

Case No.: LB93135

SAS No.: LB93135

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00037	+/-0.005	U		0.005		02/07/2018	12:01	1b93135



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93135

SDG No.: LB93135

Contract:

Lab Code: CHEM

Case No.: LB93135

SAS No.: LB93135

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00065	+/-0.005	U		0.005		02/07/2018	12:01	lb93135
CCB2	Reactive Cyanide	0.00056	+/-0.005	U		0.005		02/07/2018	12:09	lb93135
CCB3	Reactive Cyanide	0.00078	+/-0.005	U		0.005		02/07/2018	12:16	lb93135
CCB4	Reactive Cyanide	0.00063	+/-0.005	U		0.005		02/07/2018	12:39	lb93135



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93135

SDG No.: LB93135

Contract: Lab Code: CHEM

Case No.: LB93135

SAS No.: LB93135

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: LB93135

SDG No.: LB93135

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
PB106360BL	Reactive Cyanide	SOLID		Batch Number:		PB106360		Prep Date:	02/07/2018	
		0.0056	<0.05	U		0.05		02/07/2018	12:01	lb93135
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106361BL	Reactive Cyanide	WATER		Batch Number:		PB106361		Prep Date:	02/07/2018	
		0.00046	<0.005	U		0.005		02/07/2018	12:16	lb93135

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93135 Level: LOW SDG No.: LB93135
Contract: _____ Lab Code: CHEM Case No.: LB93135 SAS No.: LB93135
Matrix: Solid Sample ID: J1400-02 Client ID: EO-01-020618-ADUP
Percent Solids for Sample: 100 Duplicate ID J1400-02DUP 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	0.0049	U			



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93135 Level: LOW SDG No.: LB93135
Contract: Lab Code: CHEM Case No.: LB93135 SAS No.: LB93135
Matrix: WATER Sample ID: J1466-02 Client ID: FRAC-TANKDUP
Percent Solids for Sample: 0 Duplicate ID J1466-02DUP 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	0.00025	U			