

Daily Analysis Runlog For Sequence/QC Batch ID # LB93566

Review By		Review On				
SubDirectory		LB93566		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311				
ICV Standard		WP62313				
CCV Standard		WP62312				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62314,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/27/18 09:09		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/27/18 09:09		OK
3	10PPBCN	10PPBCN	CAL3	02/27/18 09:09		OK
4	50PPBCN	50PPBCN	CAL4	02/27/18 09:09		OK
5	100PPBCN	100PPBCN	CAL5	02/27/18 09:09		OK
6	250PPBCN	250PPBCN	CAL6	02/27/18 09:09		OK
7	500PPBCN	500PPBCN	CAL7	02/27/18 09:09		OK
8	ICV1	ICV1	ICV	02/27/18 15:28		OK
9	ICB1	ICB1	ICB	02/27/18 15:28		OK
10	CCV1	CCV1	CCV	02/27/18 15:28		OK
11	CCB1	CCB1	CCB	02/27/18 15:28		OK
12	PB106893BL	PB106893BL	MB	02/27/18 15:28		OK
13	J1699-04	B1	SAM	02/27/18 15:28		OK
14	J1699-04DUP	B1DUP	DUP	02/27/18 15:28		OK
15	J1699-08	B8	SAM	02/27/18 15:29		OK
16	J1699-12	B7	SAM	02/27/18 15:29		OK
17	J1699-16	B5	SAM	02/27/18 15:29		OK
18	J1699-20	B3	SAM	02/27/18 15:29		OK
19	J1699-24	B2	SAM	02/27/18 15:36		OK
20	J1699-28	B4	SAM	02/27/18 15:36		OK
21	J1699-32	B6	SAM	02/27/18 15:36		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93566

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STD. NAME		STD REF.#				
ICAL Standard		WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311				
ICV Standard		WP62313				
CCV Standard		WP62312				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP62314,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/27/18 15:36		OK
23	CCB2	CCB2	CCB	02/27/18 15:36		OK
24	J1699-36	B9	SAM	02/27/18 15:36		OK
25	J1699-40	B11	SAM	02/27/18 15:36		OK
26	J1699-48	B14	SAM	02/27/18 15:36		OK
27	J1699-52	B16	SAM	02/27/18 15:36		OK
28	J1699-56	B23	SAM	02/27/18 15:36		OK
29	J1699-60	B26	SAM	02/27/18 15:44		OK
30	J1699-64	B21	SAM	02/27/18 15:44		OK
31	J1699-68	B19	SAM	02/27/18 15:44		OK
32	J1699-72	B20	SAM	02/27/18 15:44		OK
33	CCV3	CCV3	CCV	02/27/18 15:44		OK
34	CCB3	CCB3	CCB	02/27/18 15:44		OK
35	J1699-76	B27	SAM	02/27/18 15:44		OK
36	J1699-80	B24	SAM	02/27/18 15:44		OK
37	J1699-84	B22	SAM	02/27/18 15:44		OK
38	J1699-44	B10	SAM	02/27/18 16:04		OK
39	CCV4	CCV4	CCV	02/27/18 16:04		OK
40	CCB4	CCB4	CCB	02/27/18 16:04		OK

Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B1	SDG No.:	LB93566
Lab Sample ID:	J1699-04	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	-0.00034	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B8	SDG No.:	LB93566
Lab Sample ID:	J1699-08	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	0.00031	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B7	SDG No.:	LB93566
Lab Sample ID:	J1699-12	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	0.00062	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B5	SDG No.:	LB93566
Lab Sample ID:	J1699-16	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	0.00094	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B3	SDG No.:	LB93566
Lab Sample ID:	J1699-20	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	0.001	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B2	SDG No.:	LB93566
Lab Sample ID:	J1699-24	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	0.0021	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B4	SDG No.:	LB93566
Lab Sample ID:	J1699-28	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	0.003	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B6	SDG No.:	LB93566
Lab Sample ID:	J1699-32	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	0.0037	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B9	SDG No.:	LB93566
Lab Sample ID:	J1699-36	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	0.001	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B11	SDG No.:	LB93566
Lab Sample ID:	J1699-40	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	0.0027	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B10	SDG No.:	LB93566
Lab Sample ID:	J1699-44	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	0.0036	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B14	SDG No.:	LB93566
Lab Sample ID:	J1699-48	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	0.0017	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B16	SDG No.:	LB93566
Lab Sample ID:	J1699-52	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	0.0034	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B23	SDG No.:	LB93566
Lab Sample ID:	J1699-56	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	0.0018	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B26	SDG No.:	LB93566
Lab Sample ID:	J1699-60	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	-0.00017	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B21	SDG No.:	LB93566
Lab Sample ID:	J1699-64	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	0.0012	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B19	SDG No.:	LB93566
Lab Sample ID:	J1699-68	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	0.00026	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B20	SDG No.:	LB93566
Lab Sample ID:	J1699-72	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	0.0015	U	1	0.025		0.049	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B27	SDG No.:	LB93566
Lab Sample ID:	J1699-76	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	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B24	SDG No.:	LB93566
Lab Sample ID:	J1699-80	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	0.00075	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B22	SDG No.:	LB93566
Lab Sample ID:	J1699-84	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	0.0024	U	1	0.025		0.05	mg/Kg	02/27/2018	02/27/2018	9012B



Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93566	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B22	SDG No.:	LB93566
Lab Sample ID:	J1699-84	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: LB93566

SDG No.: LB93566

Contract: _____ Lab Code: CHEM

Case No.: LB93566

SAS No.: LB93566

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		02/27/2018	15:28	LB93566
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		02/27/2018	15:36	LB93566
CCV3	Reactive Cyanide	0.24	0.25	96		90 - 110		02/27/2018	15:44	LB93566
CCV4	Reactive Cyanide	0.26	0.25	104		90 - 110		02/27/2018	16:04	LB93566



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93566

SDG No.: LB93566

Contract:

Lab Code: CHEM

Case No.: LB93566

SAS No.: LB93566

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0001	+/-0.005	U		0.005		02/27/2018	15:28	LB93566

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00012	+/-0.005	U		0.005		02/27/2018	15:28	LB93566
CCB2	Reactive Cyanide	0.00046	+/-0.005	U		0.005		02/27/2018	15:36	LB93566
CCB3	Reactive Cyanide	0.00031	+/-0.005	U		0.005		02/27/2018	15:44	LB93566
CCB4	Reactive Cyanide	0.00048	+/-0.005	U		0.005		02/27/2018	16:04	LB93566



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93566

SDG No.: LB93566

Contract: Lab Code: CHEM

Case No.: LB93566

SAS No.: LB93566

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: LB93566

SDG No.: LB93566

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
PB106893BL	Reactive Cyanide	SOLID 0.0013	<0.05	Batch Number: U		PB106893 0.05		Prep Date: 02/27/2018	02/27/2018 15:28	LB93566

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93566 **Level:** LOW **SDG No.:** LB93566
Contract: **Lab Code:** CHEM **Case No.:** LB93566 **SAS No.:** LB93566
Matrix: Solid **Sample ID:** J1699-04 **Client ID:** B1DUP
Percent Solids for Sample: 100 **Duplicate ID** J1699-04DUP **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	-0.00045	U			