

Daily Analysis Runlog For Sequence/QC Batch ID # LB93547

Review By

Review On

SubDirectory

LB93547

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311				
ICV Standard		W1542				
CCV Standard		WP62312				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
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 11:33		OK
9	ICB1	ICB1	ICB	02/27/18 11:33		OK
10	CCV1	CCV1	CCV	02/27/18 11:33		OK
11	CCB1	CCB1	CCB	02/27/18 11:33		OK
12	PB106863BL	PB106863BL	MB	02/27/18 11:33		OK
13	PB106863BS	PB106863BS	LCS	02/27/18 11:33		OK
14	J1400-07	EO-02-022618-A	SAM	02/27/18 11:33		OK
15	J1400-07DUP	EO-02-022618-ADUP	DUP	02/27/18 11:33		OK
16	J1400-07MS	EO-02-022618-AMS	MS	02/27/18 11:33		OK
17	J1400-07MSD	EO-02-022618-AMSD	MSD	02/27/18 11:33		OK
18	J1400-09	EO-02-022618-B	SAM	02/27/18 11:33		OK
19	J1400-11	EO-02-022618-C	SAM	02/27/18 11:40		OK
20	J1697-01	T2-T3	SAM	02/27/18 11:40		OK
21	J1698-01	B1	SAM	02/27/18 11:40		OK

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SubDirectory		LB93547		Test : Cyanide		
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ICAL Standard		WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311				
ICV Standard		W1542				
CCV Standard		WP62312				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62314,WP59958,WP60878				

22	CCV2	CCV2	CCV	02/27/18 11:40		OK
23	CCB2	CCB2	CCB	02/27/18 11:40		OK
24	J1698-05	B2	SAM	02/27/18 11:40		OK
25	J1698-09	B3	SAM	02/27/18 11:40		OK
26	J1698-13	B4	SAM	02/27/18 11:40		OK
27	J1702-01	FK-SF-03-003-A	SAM	02/27/18 11:40		OK
28	J1702-03	FK-SF-03-003-B	SAM	02/27/18 11:40		OK
29	CCV3	CCV3	CCV	02/27/18 11:40		OK
30	CCB3	CCB3	CCB	02/27/18 11:44		OK



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	EO-02-022618-A	SDG No.:	LB93547
Lab Sample ID:	J1400-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.037		0.28	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	EO-02-022618-B	SDG No.:	LB93547
Lab Sample ID:	J1400-09	Matrix:	Solid
Level (low/med):	low	% Solid:	96.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.034		0.26	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	EO-02-022618-C	SDG No.:	LB93547
Lab Sample ID:	J1400-11	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.037		0.28	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	T2-T3	SDG No.:	LB93547
Lab Sample ID:	J1697-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.031		0.24	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B1	SDG No.:	LB93547
Lab Sample ID:	J1698-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.037		0.28	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B2	SDG No.:	LB93547
Lab Sample ID:	J1698-05	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	J	1	0.038		0.29	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B3	SDG No.:	LB93547
Lab Sample ID:	J1698-09	Matrix:	Solid
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.085	J	1	0.04		0.3	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	B4	SDG No.:	LB93547
Lab Sample ID:	J1698-13	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.036		0.27	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	FK-SF-03-003-A	SDG No.:	LB93547
Lab Sample ID:	J1702-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.035		0.27	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:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	FK-SF-03-003-B	SDG No.:	LB93547
Lab Sample ID:	J1702-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.067	J	1	0.035		0.27	mg/Kg	02/27/2018	02/27/2018	9012B



Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93547	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	FK-SF-03-003-B	SDG No.:	LB93547
Lab Sample ID:	J1702-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

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: LB93547

SDG No.: LB93547

Contract: _____

Lab Code: CHEM

Case No.: LB93547

SAS No.: LB93547

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	Cyanide	0.098	0.099	99		85 - 115		02/27/2018	11:33	LB93547



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93547

SDG No.: LB93547

Contract: _____ Lab Code: CHEM

Case No.: LB93547

SAS No.: LB93547

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	Cyanide	0.25	0.25	100		90 - 110		02/27/2018	11:33	LB93547
CCV2	Cyanide	0.25	0.25	100		90 - 110		02/27/2018	11:40	LB93547
CCV3	Cyanide	0.25	0.25	100		90 - 110		02/27/2018	11:40	LB93547



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93547

SDG No.: LB93547

Contract:

Lab Code: CHEM

Case No.: LB93547

SAS No.: LB93547

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00028	+/-0.005	U		0.005		02/27/2018	11:33	LB93547

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00011	+/-0.005	U		0.005		02/27/2018	11:33	LB93547
CCB2	Cyanide	0.00052	+/-0.005	U		0.005		02/27/2018	11:40	LB93547
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		02/27/2018	11:44	LB93547



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93547

SDG No.: LB93547

Contract: Lab Code: CHEM

Case No.: LB93547

SAS No.: LB93547

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB93547

SDG No.: LB93547

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
PB106863BL	Cyanide	SOLID 0.018	<0.24	Batch Number: U		PB106863 0.24		Prep Date: 02/27/2018	02/27/2018 11:33	LB93547



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93547 level: low sdg no.: LB93547
contract: lab code: CHEM case no.: LB93547 sas no.: LB93547
matrix: Solid sample id: J1400-07 client id: EO-02-022618-AMS
Percent Solids for Sample: 87.4 Spiked ID: J1400-07MS Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.054	J	2.3	89		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93547 level: low sdg no.: LB93547
contract: lab code: CHEM case no.: LB93547 sas no.: LB93547
matrix: Solid sample id: J1400-07 client id: EO-02-022618-AMSD
Percent Solids for Sample: 87.4 Spiked ID: J1400-07MSD Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.054	J	2.3	89		

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DUPLICATE SAMPLE SUMMARY

Client: LB93547 **Level:** LOW **SDG No.:** LB93547
Contract: **Lab Code:** CHEM **Case No.:** LB93547 **SAS No.:** LB93547
Matrix: Solid **Sample ID:** J1400-07 **Client ID:** EO-02-022618-ADUP
Percent Solids for Sample: 87.4 **Duplicate ID** J1400-07DUP **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.054	J	0.055	J	2		

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DUPLICATE SAMPLE SUMMARY

Client: LB93547 **Level:** LOW **SDG No.:** LB93547
Contract: **Lab Code:** CHEM **Case No.:** LB93547 **SAS No.:** LB93547
Matrix: Solid **Sample ID:** J1400-07MS **Client ID:** EO-02-022618-AMSD
Percent Solids for Sample: 87.4 **Duplicate ID** J1400-07MSD **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.1		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93547

SDG No.: LB93547

Contract:

Lab Code: CHEM

Case No.: LB93547

SAS No.: LB93547

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106863BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	