

Daily Analysis Runlog For Sequence/QC Batch ID # LB93608

Review By		Review On				
SubDirectory		LB93608		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62361,WP62362,WP62363,WP62364,WP62365,WP62366,WP62367				
ICV Standard		W1542				
CCV Standard		WP62368				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62370,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/01/18 09:49		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/01/18 09:49		OK
3	10PPBCN	10PPBCN	CAL3	03/01/18 09:49		OK
4	50PPBCN	50PPBCN	CAL4	03/01/18 09:49		OK
5	100PPBCN	100PPBCN	CAL5	03/01/18 09:49		OK
6	250PPBCN	250PPBCN	CAL6	03/01/18 09:49		OK
7	500PPBCN	500PPBCN	CAL7	03/01/18 09:49		OK
8	ICV1	ICV1	ICV	03/01/18 11:44		OK
9	ICB1	ICB1	ICB	03/01/18 11:44		OK
10	CCV1	CCV1	CCV	03/01/18 11:44		OK
11	CCB1	CCB1	CCB	03/01/18 11:44		OK
12	PB106965BL	PB106965BL	MB	03/01/18 11:44		OK
13	PB106965BS	PB106965BS	LCS	03/01/18 11:44		OK
14	LOWPB106965	LOWPB106965	SAM	03/01/18 11:44		OK
15	HIGHPB106965	HIGHPB106965	SAM	03/01/18 11:44		OK
16	J1402-07	PL-01-022818-A	SAM	03/01/18 11:44		OK
17	J1402-07DUP	PL-01-022818-ADUP	DUP	03/01/18 11:44		OK
18	J1402-07MS	PL-01-022818-AMS	MS	03/01/18 11:44		OK
19	J1402-07MSD	PL-01-022818-AMSD	MSD	03/01/18 11:51		OK
20	J1402-09	PL-01-022818-B	SAM	03/01/18 11:51		OK
21	J1402-11	PL-01-022818-C	SAM	03/01/18 11:51		OK

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SubDirectory		LB93608		Test : Cyanide		
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ICV Standard		W1542				
CCV Standard		WP62368				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62370,WP59958,WP60878				
22	CCV2	CCV2	CCV	03/01/18 11:51		OK
23	CCB2	CCB2	CCB	03/01/18 11:51		OK
24	J1402-13	PL-01-022818-D	SAM	03/01/18 11:51		OK
25	J1719-01	TP-2	SAM	03/01/18 11:51		OK
26	J1730-01	ROLLOFF-20408	SAM	03/01/18 11:51		OK
27	CCV3	CCV3	CCV	03/01/18 11:51		OK
28	CCB3	CCB3	CCB	03/01/18 11:51		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93608	Date Received:	
Client Sample ID:	HIGHPB106965	SDG No.:	LB93608
Lab Sample ID:	HIGHPB106965	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.49		1	0.003		0.005	mg/L		03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	PL-01-022818-A	SDG No.:	LB93608
Lab Sample ID:	J1402-07	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.2	J	1	0.039		0.29	mg/Kg	03/01/2018	03/01/2018	9012B

Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	PL-01-022818-B	SDG No.:	LB93608
Lab Sample ID:	J1402-09	Matrix:	Solid
Level (low/med):	low	% Solid:	80.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.041		0.31	mg/Kg	03/01/2018	03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	PL-01-022818-C	SDG No.:	LB93608
Lab Sample ID:	J1402-11	Matrix:	Solid
Level (low/med):	low	% Solid:	68.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.047		0.36	mg/Kg	03/01/2018	03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	PL-01-022818-D	SDG No.:	LB93608
Lab Sample ID:	J1402-13	Matrix:	Solid
Level (low/med):	low	% Solid:	73.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.043		0.32	mg/Kg	03/01/2018	03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/27/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB93608
Lab Sample ID:	J1719-01	Matrix:	Solid
Level (low/med):	low	% Solid:	80.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.049	U	1	0.04		0.3	mg/Kg	03/01/2018	03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2018 12:00:00 AM
Project:	LB93608	Date Received:	2/28/2018 12:00:00 AM
Client Sample ID:	ROLLOFF-20408	SDG No.:	LB93608
Lab Sample ID:	J1730-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.037		0.28	mg/Kg	03/01/2018	03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93608	Date Received:	
Client Sample ID:	LOWPB106965	SDG No.:	LB93608
Lab Sample ID:	LOWPB106965	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0089		1	0.003		0.005	mg/L		03/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93608	Date Received:	
Client Sample ID:	LOWPB106965	SDG No.:	LB93608
Lab Sample ID:	LOWPB106965	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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: LB93608

SDG No.: LB93608

Contract: _____ Lab Code: CHEM

Case No.: LB93608

SAS No.: LB93608

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		03/01/2018	11:44	LB93608
CCV2	Cyanide	0.25	0.25	100		90 - 110		03/01/2018	11:51	LB93608
CCV3	Cyanide	0.25	0.25	100		90 - 110		03/01/2018	11:51	LB93608



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93608

SDG No.: LB93608

Contract:

Lab Code: CHEM

Case No.: LB93608

SAS No.: LB93608

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00071	+/-0.005	U		0.005		03/01/2018	11:44	LB93608

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.001	+/-0.005	U		0.005		03/01/2018	11:44	LB93608
CCB2	Cyanide	-0.0012	+/-0.005	U		0.005		03/01/2018	11:51	LB93608
CCB3	Cyanide	-0.00082	+/-0.005	U		0.005		03/01/2018	11:51	LB93608



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93608

SDG No.: LB93608

Contract: Lab Code: CHEM

Case No.: LB93608

SAS No.: LB93608

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: LB93608

SDG No.: LB93608

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
PB106965BL		SOLID		Batch Number:		PB106965		Prep Date:	03/01/2018	
	Cyanide	-0.044	<0.24	U		0.24		03/01/2018	11:44	LB93608



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93608 level: low sdg no.: LB93608
contract: lab code: CHEM case no.: LB93608 sas no.: LB93608
matrix: Solid sample id: J1402-07 client id: PL-01-022818-AMS
Percent Solids for Sample: 83.4 Spiked ID: J1402-07MS Percent Solids for Spike Sample: 83.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1		0.2	J	2.3	35	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93608 level: low sdg no.: LB93608
contract: lab code: CHEM case no.: LB93608 sas no.: LB93608
matrix: Solid sample id: J1402-07 client id: PL-01-022818-AMSD
Percent Solids for Sample: 83.4 Spiked ID: J1402-07MSD Percent Solids for Spike Sample: 83.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.1		0.2	J	2.4	38	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93608 **Level:** LOW **SDG No.:** LB93608
Contract: **Lab Code:** CHEM **Case No.:** LB93608 **SAS No.:** LB93608
Matrix: Solid **Sample ID:** J1402-07 **Client ID:** PL-01-022818-ADUP
Percent Solids for Sample: 83.4 **Duplicate ID** J1402-07DUP **Percent Solids for Spike Sample:** 83.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.2	J	0.17	J	16		

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DUPLICATE SAMPLE SUMMARY

Client: LB93608 **Level:** LOW **SDG No.:** LB93608
Contract: **Lab Code:** CHEM **Case No.:** LB93608 **SAS No.:** LB93608
Matrix: Solid **Sample ID:** J1402-07MS **Client ID:** PL-01-022818-AMSD
Percent Solids for Sample: 83.4 **Duplicate ID** J1402-07MSD **Percent Solids for Spike Sample:** 83.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1		1.1		10		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93608

SDG No.: LB93608

Contract:

Lab Code: CHEM

Case No.: LB93608

SAS No.: LB93608

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106965BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	