

Daily Analysis Runlog For Sequence/QC Batch ID # LB93279

Review By		Review On				
SubDirectory		LB93279		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61907,WP61908,WP61909,WP61910,WP61911,WP61912,WP61913				
ICV Standard		W1542				
CCV Standard		WP61914				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61916,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/14/18 12:08		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/14/18 12:08		OK
3	10PPBCN	10PPBCN	CAL3	02/14/18 12:08		OK
4	50PPBCN	50PPBCN	CAL4	02/14/18 12:08		OK
5	100PPBCN	100PPBCN	CAL5	02/14/18 12:08		OK
6	250PPBCN	250PPBCN	CAL6	02/14/18 12:08		OK
7	500PPBCN	500PPBCN	CAL7	02/14/18 12:08		OK
8	ICV1	ICV1	ICV	02/14/18 12:51		OK
9	ICB1	ICB1	ICB	02/14/18 12:51		OK
10	CCV1	CCV1	CCV	02/14/18 12:51		OK
11	CCB1	CCB1	CCB	02/14/18 12:51		OK
12	PB106538BL	PB106538BL	MB	02/14/18 12:51		OK
13	PB106538BS	PB106538BS	LCS	02/14/18 12:51		OK
14	LOWPB106538	LOWPB106538	SAM	02/14/18 12:51		OK
15	HIGHPB106538	HIGHPB106538	SAM	02/14/18 12:51		OK
16	J1530-45	WC-01	SAM	02/14/18 12:51		OK
17	J1530-45DUP	WC-01DUP	DUP	02/14/18 12:51		OK
18	J1530-45MS	WC-01MS	MS	02/14/18 12:51		OK
19	J1530-45MSD	WC-01MSD	MSD	02/14/18 12:58		OK
20	J1530-46	WC-02	SAM	02/14/18 12:58		OK
21	J1530-47	WC-03	SAM	02/14/18 12:58		OK

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ICV Standard		W1542				
CCV Standard		WP61914				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61916,WP59958,WP60878				
22	CCV2	CCV2	CCV	02/14/18 12:58		OK
23	CCB2	CCB2	CCB	02/14/18 12:58		OK
24	J1530-48	WC-04	SAM	02/14/18 12:58		OK
25	J1541-01	SAMPLE-A-1-3	SAM	02/14/18 12:58		OK
26	J1541-05	SAMPLE-B-1-3	SAM	02/14/18 12:58		OK
27	J1545-01	TEST-PIT-1	SAM	02/14/18 12:58		OK
28	J1545-08	TEST-PIT-2	SAM	02/14/18 12:58		OK
29	J1541-09	SAMPLE-C-1-3	SAM	02/14/18 13:18		OK
30	CCV3	CCV3	CCV	02/14/18 13:18		OK
31	CCB3	CCB3	CCB	02/14/18 13:19		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93279	Date Received:	
Client Sample ID:	HIGHPB106538	SDG No.:	LB93279
Lab Sample ID:	HIGHPB106538	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	0.48		1	0.003		0.005	mg/L		02/14/2018	9012B

Report of Analysis

Client:		Date Collected:	2/9/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/12/2018 12:00:00 AM
Client Sample ID:	WC-01	SDG No.:	LB93279
Lab Sample ID:	J1530-45	Matrix:	Solid
Level (low/med):	low	% Solid:	86.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.084	J	1	0.037		0.28	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/9/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/12/2018 12:00:00 AM
Client Sample ID:	WC-02	SDG No.:	LB93279
Lab Sample ID:	J1530-46	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.063	J	1	0.038		0.29	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/9/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/12/2018 12:00:00 AM
Client Sample ID:	WC-03	SDG No.:	LB93279
Lab Sample ID:	J1530-47	Matrix:	Solid
Level (low/med):	low	% Solid:	85.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.038		0.29	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/9/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/12/2018 12:00:00 AM
Client Sample ID:	WC-04	SDG No.:	LB93279
Lab Sample ID:	J1530-48	Matrix:	Solid
Level (low/med):	low	% Solid:	91.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.055	J	1	0.035		0.26	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	SAMPLE-A-1-3	SDG No.:	LB93279
Lab Sample ID:	J1541-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.036		0.27	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	SAMPLE-B-1-3	SDG No.:	LB93279
Lab Sample ID:	J1541-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.037		0.28	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	SAMPLE-C-1-3	SDG No.:	LB93279
Lab Sample ID:	J1541-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.043	J	1	0.036		0.27	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	TEST-PIT-1	SDG No.:	LB93279
Lab Sample ID:	J1545-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.039		0.3	mg/Kg	02/14/2018	02/14/2018	9012B

Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93279	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	TEST-PIT-2	SDG No.:	LB93279
Lab Sample ID:	J1545-08	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.04		0.3	mg/Kg	02/14/2018	02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93279	Date Received:	
Client Sample ID:	LOWPB106538	SDG No.:	LB93279
Lab Sample ID:	LOWPB106538	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	0.011		1	0.003		0.005	mg/L		02/14/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93279	Date Received:	
Client Sample ID:	LOWPB106538	SDG No.:	LB93279
Lab Sample ID:	LOWPB106538	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: LB93279

SDG No.: LB93279

Contract: _____

Lab Code: CHEM

Case No.: LB93279

SAS No.: LB93279

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	0.092	0.099	92.9		85 - 115		02/14/2018	12:51	lb93279



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93279

SDG No.: LB93279

Contract: _____ Lab Code: CHEM

Case No.: LB93279

SAS No.: LB93279

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	0.24	0.25	96		90 - 110		02/14/2018	12:51	lb93279
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/14/2018	12:58	lb93279
CCV3	Cyanide	0.25	0.25	100		90 - 110		02/14/2018	13:18	lb93279



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93279 **SDG No.:** LB93279
Contract: **Lab Code:** CHEM **Case No.:** LB93279 **SAS No.:** LB93279

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00094	+/-0.005	U		0.005		02/14/2018	12:51	lb93279



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93279

SDG No.: LB93279

Contract:

Lab Code: CHEM

Case No.: LB93279

SAS No.: LB93279

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00096	+/-0.005	U		0.005		02/14/2018	12:51	1b93279
CCB2	Cyanide	0.00079	+/-0.005	U		0.005		02/14/2018	12:58	1b93279
CCB3	Cyanide	0.00028	+/-0.005	U		0.005		02/14/2018	13:19	1b93279



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93279

SDG No.: LB93279

Contract:

Lab Code: CHEM

Case No.: LB93279

SAS No.: LB93279

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: LB93279

SDG No.: LB93279

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
PB106538BL		SOLID		Batch Number:		PB106538		Prep Date:	02/14/2018	
	Cyanide	0.037	<0.25	J		0.25		02/14/2018	12:51	lb93279



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93279 level: low sdg no.: LB93279
contract: lab code: CHEM case no.: LB93279 sas no.: LB93279
matrix: Solid sample id: J1530-45 client id: WC-01MS
Percent Solids for Sample: 86.4 Spiked ID: J1530-45MS Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.084	J	2.2	83		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93279 level: low sdg no.: LB93279
contract: lab code: CHEM case no.: LB93279 sas no.: LB93279
matrix: Solid sample id: J1530-45 client id: WC-01MSD
Percent Solids for Sample: 86.4 Spiked ID: J1530-45MSD Percent Solids for Spike Sample: 86.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.084	J	2.3	79		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93279 **Level:** LOW **SDG No.:** LB93279
Contract: **Lab Code:** CHEM **Case No.:** LB93279 **SAS No.:** LB93279
Matrix: Solid **Sample ID:** J1530-45 **Client ID:** WC-01DUP
Percent Solids for Sample: 86.4 **Duplicate ID** J1530-45DUP **Percent Solids for Spike Sample:** 86.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.084	J	0.063	J	29	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93279 **Level:** LOW **SDG No.:** LB93279
Contract: **Lab Code:** CHEM **Case No.:** LB93279 **SAS No.:** LB93279
Matrix: Solid **Sample ID:** J1530-45MS **Client ID:** WC-01MSD
Percent Solids for Sample: 86.4 **Duplicate ID** J1530-45MSD **Percent Solids for Spike Sample:** 86.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		