

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		03/02/2017	11:23	LB86127

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86127**SDG No.:** LB86127**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86127**SAS No.:** LB86127**Initial Calibration Source:** _____**Continuing Calibration Source:** _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100	0	90 - 110		03/02/2017	11:23	LB86127
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		03/02/2017	11:31	LB86127
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		03/02/2017	12:03	LB86127
CCV4	Cyanide	0.26	0.25	104	0	90 - 110		03/02/2017	12:26	LB86127



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86127

SDG No.: LB86127

Contract:

Lab Code: CHEM

Case No.: LB86127

SAS No.: LB86127

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00041	+/-0.005	U		0.005		03/02/2017	11:23	LB86127



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86127

SDG No.: LB86127

Contract:

Lab Code: CHEM

Case No.: LB86127

SAS No.: LB86127

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00024	+/-0.005	U		0.005		03/02/2017	11:23	LB86127
CCB2	Cyanide	-0.00016	+/-0.005	U		0.005		03/02/2017	11:31	LB86127
CCB3	Cyanide	-0.00012	+/-0.005	U		0.005		03/02/2017	12:03	LB86127
CCB4	Cyanide	0.0000254	+/-0.005	U		0.005		03/02/2017	12:26	LB86127



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86127

SDG No.: LB86127

Contract: Lab Code: CHEM

Case No.: LB86127

SAS No.: LB86127

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	
Project:	LB86127	Date Received:	
Client Sample ID:	HIGHPB97266	SDG No.:	LB86127
Lab Sample ID:	HIGHPB97266	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		03/02/2017	9012B

Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-GF-03-002-A	SDG No.:	LB86127
Lab Sample ID:	I2033-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.00066	U	1	0.035		0.27	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-GF-03-002-B	SDG No.:	LB86127
Lab Sample ID:	I2033-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.025	U	1	0.033		0.25	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-BPM-01-DD9-DD10-DD11-DD12	SDG No.:	LB86127
Lab Sample ID:	I2034-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0093	U	1	0.034		0.26	mg/Kg	03/01/2017	03/02/2017	9012B

Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-BPM-01-EE9-EE10-EE11-EE12	SDG No.:	LB86127
Lab Sample ID:	I2035-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.02	U	1	0.033		0.25	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-GF-03-001-A	SDG No.:	LB86127
Lab Sample ID:	I2036-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.024	U	1	0.034		0.26	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-GF-03-001-B	SDG No.:	LB86127
Lab Sample ID:	I2036-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.02	U	1	0.034		0.26	mg/Kg	03/01/2017	03/02/2017	9012B

Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-GF-03-001-C	SDG No.:	LB86127
Lab Sample ID:	I2036-05	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.033	U	1	0.033		0.25	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86127	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	FK-BPM-01-BB5-BB6-BB7-BB8	SDG No.:	LB86127
Lab Sample ID:	I2037-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0051	U	1	0.033		0.25	mg/Kg	03/01/2017	03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86127	Date Received:	
Client Sample ID:	LOWPB97266	SDG No.:	LB86127
Lab Sample ID:	LOWPB97266	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	0.01		1	0.003		0.005	mg/L		03/02/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86127	Date Received:	
Client Sample ID:	LOWPB97266	SDG No.:	LB86127
Lab Sample ID:	LOWPB97266	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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86127

SDG No.: LB86127

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
PB97266BL		SOLID		Batch Number:		PB97266		Prep Date:	03/01/2017	
	Cyanide	-0.0057	<0.25	U		0.25		03/02/2017	11:23	LB86127



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86127 level: low sdg no.: LB86127
contract: lab code: CHEM case no.: LB86127 sas no.: LB86127
matrix: Solid sample id: I2033-01 client id: FK-GF-03-002-AMS
Percent Solids for Sample: 94 Spiked ID: I2033-01MS Percent Solids for Spike Sample: 94

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.3		0.035	U	2.1	61.9	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86127 level: low sdg no.: LB86127
contract: lab code: CHEM case no.: LB86127 sas no.: LB86127
matrix: Solid sample id: I2033-01 client id: FK-GF-03-002-AMSD
Percent Solids for Sample: 94 Spiked ID: I2033-01MSD Percent Solids for Spike Sample: 94

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.2		0.035	U	2	60	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86127 **Level:** LOW **SDG No.:** LB86127
Contract: **Lab Code:** CHEM **Case No.:** LB86127 **SAS No.:** LB86127
Matrix: Solid **Sample ID:** I2033-01 **Client ID:** FK-GF-03-002-ADUP
Percent Solids for Sample: 94 **Duplicate ID** I2033-01DUP **Percent Solids for Spike Sample:** 94

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.026	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86127 Level: LOW SDG No.: LB86127
Contract: _____ Lab Code: CHEM Case No.: LB86127 SAS No.: LB86127
Matrix: Solid Sample ID: I2033-01MS Client ID: FK-GF-03-002-AMSD
Percent Solids for Sample: 94 Duplicate ID I2033-01MSD Percent Solids for Spike Sample: 94

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.3		1.2		8		

