



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86291

SDG No.: LB86291

Contract: _____

Lab Code: CHEM

Case No.: LB86291

SAS No.: LB86291

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
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		03/10/2017	13:11	LB86291



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86291

SDG No.: LB86291

Contract: _____ Lab Code: CHEM

Case No.: LB86291

SAS No.: LB86291

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	0.24	0.25	96	0	90 - 110		03/10/2017	13:11	LB86291
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		03/10/2017	13:18	LB86291
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		03/10/2017	13:43	LB86291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86291 **SDG No.:** LB86291
Contract: **Lab Code:** CHEM **Case No.:** LB86291 **SAS No.:** LB86291

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0019	+/-0.005	U		0.005		03/10/2017	13:11	LB86291



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86291

SDG No.: LB86291

Contract:

Lab Code: CHEM

Case No.: LB86291

SAS No.: LB86291

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0016	+/-0.005	U		0.005		03/10/2017	13:11	LB86291
CCB2	Cyanide	0.0018	+/-0.005	U		0.005		03/10/2017	13:18	LB86291
CCB3	Cyanide	-0.00064	+/-0.005	U		0.005		03/10/2017	13:43	LB86291



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86291

SDG No.: LB86291

Contract: Lab Code: CHEM

Case No.: LB86291

SAS No.: LB86291

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:	LB86291	Date Received:	
Client Sample ID:	HIGHPB97505	SDG No.:	LB86291
Lab Sample ID:	HIGHPB97505	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	0.5		1	0.003		0.005	mg/L		03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2017 12:00:00 AM
Project:	LB86291	Date Received:	2/27/2017 12:00:00 AM
Client Sample ID:	HY-SB428	SDG No.:	LB86291
Lab Sample ID:	I2010-04	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	-0.0072	U	1	0.033		0.25	mg/Kg	03/10/2017	03/10/2017	9012B

Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	RU-BUBBLE-01	SDG No.:	LB86291
Lab Sample ID:	I2188-02	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0049	U	1	0.037		0.28	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	TP-9-COMP-0-12FT	SDG No.:	LB86291
Lab Sample ID:	I2195-01	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	-0.031	U	1	0.037		0.28	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	TP-7-TP-6-COMP-0-12FT	SDG No.:	LB86291
Lab Sample ID:	I2195-06	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.099	U	1	0.035		0.27	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/8/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/8/2017 12:00:00 AM
Client Sample ID:	TP-5-TP-4-COMP-0-12FT	SDG No.:	LB86291
Lab Sample ID:	I2195-11	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	-0.0096	U	1	0.034		0.26	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/9/2017 12:00:00 AM
Client Sample ID:	TP-3-COMP-0-12FT	SDG No.:	LB86291
Lab Sample ID:	I2211-01	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	-0.0059	U	1	0.036		0.27	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/9/2017 12:00:00 AM
Project:	LB86291	Date Received:	3/9/2017 12:00:00 AM
Client Sample ID:	TP-2-TP-1-COMP-0-12FT	SDG No.:	LB86291
Lab Sample ID:	I2211-06	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0034	U	1	0.035		0.27	mg/Kg	03/10/2017	03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86291	Date Received:	
Client Sample ID:	LOWPB97505	SDG No.:	LB86291
Lab Sample ID:	LOWPB97505	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	0.0097		1	0.003		0.005	mg/L		03/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB86291	Date Received:	
Client Sample ID:	LOWPB97505	SDG No.:	LB86291
Lab Sample ID:	LOWPB97505	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: LB86291

SDG No.: LB86291

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
PB97505BL		SOLID		Batch Number:		PB97505		Prep Date:	03/10/2017	
	Cyanide	0.066	<0.25	J		0.25		03/10/2017	13:11	LB86291



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- 5a -
MATRIX SPIKE SUMMARY

client: LB86291 level: low sdg no.: LB86291
contract: lab code: CHEM case no.: LB86291 sas no.: LB86291
matrix: Solid sample id: I2010-04 client id: HY-SB428MS
Percent Solids for Sample: 95.8 Spiked ID: I2010-04MS Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.033	U	2	90		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86291 level: low sdg no.: LB86291
contract: lab code: CHEM case no.: LB86291 sas no.: LB86291
matrix: Solid sample id: I2010-04 client id: HY-SB428MSD
Percent Solids for Sample: 95.8 Spiked ID: I2010-04MSD Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.033	U	2	90		

