



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87459

SDG No.: LB87459

Contract: _____ Lab Code: CHEM

Case No.: LB87459

SAS No.: LB87459

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		05/15/2017	16:38	LB87459
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		05/15/2017	16:38	LB87459



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87459

SDG No.: LB87459

Contract:

Lab Code: CHEM

Case No.: LB87459

SAS No.: LB87459

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0	+/-0.005	U		0.005		05/15/2017	16:18	LB87459



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87459

SDG No.: LB87459

Contract:

Lab Code: CHEM

Case No.: LB87459

SAS No.: LB87459

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00014	+/-0.005	U		0.005		05/15/2017	16:38	LB87459
CCB2	Cyanide	-0.00044	+/-0.005	U		0.005		05/15/2017	16:41	LB87459



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87459

SDG No.: LB87459

Contract: Lab Code: CHEM

Case No.: LB87459

SAS No.: LB87459

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:	5/15/2017 12:00:00 AM
Project:	LB87459	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	S-WC-2	SDG No.:	LB87459
Lab Sample ID:	I3160-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.024	U	1	0.038		0.29	mg/Kg	05/15/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87459	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	S-WC-3	SDG No.:	LB87459
Lab Sample ID:	I3160-02	Matrix:	Solid
Level (low/med):	low	% Solid:	80.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.024	U	1	0.039		0.3	mg/Kg	05/15/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87459	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	S-WC-4	SDG No.:	LB87459
Lab Sample ID:	I3160-03	Matrix:	Solid
Level (low/med):	low	% Solid:	80.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.039		0.29	mg/Kg	05/15/2017	05/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/15/2017 12:00:00 AM
Project:	LB87459	Date Received:	5/15/2017 12:00:00 AM
Client Sample ID:	S-WC-4	SDG No.:	LB87459
Lab Sample ID:	I3160-03	Matrix:	Solid
Level (low/med):	low	% Solid:	80.1

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



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PREPARATION BLANK SUMMARY

Client: LB87459

SDG No.: LB87459

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
PB98957BL		SOLID		Batch Number:		PB98957		Prep Date:	05/15/2017	
	Cyanide	-0.023	<0.24	U		0.24		05/15/2017	16:38	LB87459



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MATRIX SPIKE SUMMARY

client: LB87459 level: low sdg no.: LB87459
contract: lab code: CHEM case no.: LB87459 sas no.: LB87459
matrix: Solid sample id: I3160-01 client id: S-WC-2MS
Percent Solids for Sample: 82.6 Spiked ID: I3160-01MS Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.038	U	2.3	78.3		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB87459 level: low sdg no.: LB87459
contract: lab code: CHEM case no.: LB87459 sas no.: LB87459
matrix: Solid sample id: I3160-01 client id: S-WC-2MSD
Percent Solids for Sample: 82.6 Spiked ID: I3160-01MSD Percent Solids for Spike Sample: 82.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.038	U	2.4	75		

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DUPLICATE SAMPLE SUMMARY

Client: LB87459 **Level:** LOW **SDG No.:** LB87459
Contract: **Lab Code:** CHEM **Case No.:** LB87459 **SAS No.:** LB87459
Matrix: Solid **Sample ID:** I3160-01 **Client ID:** S-WC-2DUP
Percent Solids for Sample: 82.6 **Duplicate ID** I3160-01DUP **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.038	U	-0.024	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87459 **Level:** LOW **SDG No.:** LB87459
Contract: **Lab Code:** CHEM **Case No.:** LB87459 **SAS No.:** LB87459
Matrix: Solid **Sample ID:** I3160-01MS **Client ID:** S-WC-2MSD
Percent Solids for Sample: 82.6 **Duplicate ID** I3160-01MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.8		1.8		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87459 SDG No.: LB87459
Contract: Lab Code: CHEM Case No.: LB87459 SAS No.: LB87459

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98957BS Cyanide	mg/Kg	4.8	4.7		97.9	85 - 115	
