



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86987

SDG No.: LB86987

Contract: _____ Lab Code: CHEM

Case No.: LB86987

SAS No.: LB86987

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	Reactive Cyanide	0.093	0.099	93.9	0	85 - 115		04/20/2017	11:47	LB86987



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Client: LB86987

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SAS No.: LB86987

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	Reactive Cyanide	0.24	0.25	96	0	90 - 110		04/20/2017	11:47	LB86987
CCV2	Reactive Cyanide	0.26	0.25	104	0	90 - 110		04/20/2017	11:51	LB86987



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86987 **SDG No.:** LB86987
Contract: **Lab Code:** CHEM **Case No.:** LB86987 **SAS No.:** LB86987

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00044	+/-0.005	U		0.005		04/20/2017	11:47	LB86987



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86987

SDG No.: LB86987

Contract: _____

Lab Code: CHEM

Case No.: LB86987

SAS No.: LB86987

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0012	+/-0.005	U		0.005		04/20/2017	11:47	LB86987
CCB2	Reactive Cyanide	-0.00033	+/-0.005	U		0.005		04/20/2017	11:51	LB86987



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86987

SDG No.: LB86987

Contract: Lab Code: CHEM

Case No.: LB86987

SAS No.: LB86987

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:	4/13/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	WC-B48-B49-001	SDG No.:	LB86987
Lab Sample ID:	I2718-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0016	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/13/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/14/2017 12:00:00 AM
Client Sample ID:	WC-B60-B61-001	SDG No.:	LB86987
Lab Sample ID:	I2718-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.002	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B

Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	15-40-COMP	SDG No.:	LB86987
Lab Sample ID:	I2751-03	Matrix:	Solid
Level (low/med):	low	% Solid:	81.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0048	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	RT-1494-COMP	SDG No.:	LB86987
Lab Sample ID:	I2751-06	Matrix:	Solid
Level (low/med):	low	% Solid:	75.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00084	U	1	0.025		0.049	mg/Kg	04/19/2017	04/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	VNJ-209-COMP	SDG No.:	LB86987
Lab Sample ID:	I2751-09	Matrix:	Solid
Level (low/med):	low	% Solid:	76.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0019	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	15-50-COMP	SDG No.:	LB86987
Lab Sample ID:	I2752-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.015	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	VNJ-215-COMP	SDG No.:	LB86987
Lab Sample ID:	I2752-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0094	U	1	0.025		0.05	mg/Kg	04/19/2017	04/20/2017	9012B



Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86987	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	VNJ-215-COMP	SDG No.:	LB86987
Lab Sample ID:	I2752-06	Matrix:	Solid
Level (low/med):	low	% Solid:	87

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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- 3b -
PREPARATION BLANK SUMMARY

Client: LB86987

SDG No.: LB86987

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
PB98314BL		SOLID		Batch Number:		PB98314		Prep Date:	04/19/2017	
	Reactive Cyanide	0.0042	<0.05	U		0.05		04/20/2017	11:47	LB86987

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DUPLICATE SAMPLE SUMMARY

Client: LB86987 **Level:** LOW **SDG No.:** LB86987
Contract: **Lab Code:** CHEM **Case No.:** LB86987 **SAS No.:** LB86987
Matrix: Solid **Sample ID:** I2718-02 **Client ID:** WC-B48-B49-001DUP
Percent Solids for Sample: 100 **Duplicate ID** I2718-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.004	U			