



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86817

SDG No.: LB86817

Contract: _____ Lab Code: CHEM

Case No.: LB86817

SAS No.: LB86817

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		04/11/2017	11:47	LB86817



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SAS No.: LB86817

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		04/11/2017	11:47	LB86817
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		04/11/2017	11:54	LB86817
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		04/11/2017	12:19	LB86817



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86817

SDG No.: LB86817

Contract:

Lab Code: CHEM

Case No.: LB86817

SAS No.: LB86817

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00011	+/-0.005	U		0.005		04/11/2017	11:47	LB86817

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00035	+/-0.005	U		0.005		04/11/2017	11:47	LB86817
CCB2	Reactive Cyanide	0.00023	+/-0.005	U		0.005		04/11/2017	11:54	LB86817
CCB3	Reactive Cyanide	-0.00037	+/-0.005	U		0.005		04/11/2017	12:19	LB86817



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86817

SDG No.: LB86817

Contract: _____

Lab Code: CHEM

Case No.: LB86817

SAS No.: LB86817

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:	4/7/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	GRID-1	SDG No.:	LB86817
Lab Sample ID:	I2595-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0083	U	1	0.025		0.05	mg/Kg	04/10/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	GRID-4	SDG No.:	LB86817
Lab Sample ID:	I2595-06	Matrix:	Solid
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0085	U	1	0.025		0.05	mg/Kg	04/10/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/7/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/7/2017 12:00:00 AM
Client Sample ID:	A2394	SDG No.:	LB86817
Lab Sample ID:	I2595-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00063	U	1	0.0025		0.005	mg/L	04/10/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	SUMP	SDG No.:	LB86817
Lab Sample ID:	I2619-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0001	U	1	0.0025		0.005	mg/L	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	D001-D002-D003	SDG No.:	LB86817
Lab Sample ID:	I2620-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0067	U	1	0.025		0.05	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	D004-D005-D006	SDG No.:	LB86817
Lab Sample ID:	I2620-10	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

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	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	SOUTH-MAHWAH	SDG No.:	LB86817
Lab Sample ID:	I2620-15	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.
	Reactive Cyanide	-0.0018	U	1	0.025		0.049	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	SOIL-CUTTINGS	SDG No.:	LB86817
Lab Sample ID:	I2621-01	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0082	U	1	0.025		0.049	mg/Kg	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	GROUND-WATER	SDG No.:	LB86817
Lab Sample ID:	I2621-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0012	U	1	0.0025		0.005	mg/L	04/11/2017	04/11/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/10/2017 12:00:00 AM
Project:	LB86817	Date Received:	4/10/2017 12:00:00 AM
Client Sample ID:	GROUND-WATER	SDG No.:	LB86817
Lab Sample ID:	I2621-02	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



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PREPARATION BLANK SUMMARY

Client: LB86817

SDG No.: LB86817

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98166BL	WATER		<0.005	Batch Number:		PB98166		Prep Date:		04/10/2017
	Reactive Cyanide	-0.0005		U		0.005		04/11/2017	11:47	LB86817
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB98167BL	SOLID		<0.05	Batch Number:		PB98167		Prep Date:		04/10/2017
	Reactive Cyanide	-0.0058		U		0.05		04/11/2017	11:47	LB86817
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98194BL	SOLID		<0.05	Batch Number:		PB98194		Prep Date:		04/11/2017
	Reactive Cyanide	0.0067		U		0.05		04/11/2017	11:54	LB86817
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98195BL	WATER		<0.005	Batch Number:		PB98195		Prep Date:		04/11/2017
	Reactive Cyanide	-0.00083		U		0.005		04/11/2017	12:19	LB86817

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DUPLICATE SAMPLE SUMMARY

Client: LB86817 **Level:** LOW **SDG No.:** LB86817
Contract: **Lab Code:** CHEM **Case No.:** LB86817 **SAS No.:** LB86817
Matrix: Solid **Sample ID:** I2595-03 **Client ID:** GRID-1DUP
Percent Solids for Sample: 83.8 **Duplicate ID** I2595-03DUP **Percent Solids for Spike Sample:** 83.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0065	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86817 **Level:** LOW **SDG No.:** LB86817
Contract: **Lab Code:** CHEM **Case No.:** LB86817 **SAS No.:** LB86817
Matrix: WATER **Sample ID:** I2595-08 **Client ID:** A2394DUP
Percent Solids for Sample: 0 **Duplicate ID** I2595-08DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.00095	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86817 **Level:** LOW **SDG No.:** LB86817
Contract: **Lab Code:** CHEM **Case No.:** LB86817 **SAS No.:** LB86817
Matrix: WATER **Sample ID:** I2619-02 **Client ID:** SUMPDUP
Percent Solids for Sample: 0 **Duplicate ID** I2619-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.00089	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86817 **Level:** LOW **SDG No.:** LB86817
Contract: **Lab Code:** CHEM **Case No.:** LB86817 **SAS No.:** LB86817
Matrix: Solid **Sample ID:** I2620-05 **Client ID:** D001-D002-D003DUP
Percent Solids for Sample: 92.1 **Duplicate ID** I2620-05DUP **Percent Solids for Spike Sample:** 92.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.0081	U			