



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86617

SDG No.: LB86617

Contract: _____

Lab Code: CHEM

Case No.: LB86617

SAS No.: LB86617

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	0.095	0.099	96	0	85 - 115		03/29/2017	15:02	LB86617



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86617

SDG No.: LB86617

Contract: _____ Lab Code: CHEM

Case No.: LB86617

SAS No.: LB86617

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		03/29/2017	15:02	LB86617
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		03/29/2017	15:06	LB86617



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86617

SDG No.: LB86617

Contract:

Lab Code: CHEM

Case No.: LB86617

SAS No.: LB86617

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0037	+/-0.005	J		0.005		03/29/2017	15:02	LB86617



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86617

SDG No.: LB86617

Contract: _____

Lab Code: CHEM

Case No.: LB86617

SAS No.: LB86617

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.002	+/-0.005	U		0.005		03/29/2017	15:02	LB86617
CCB2	Reactive Cyanide	0.0021	+/-0.005	U		0.005		03/29/2017	15:06	LB86617



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86617

SDG No.: LB86617

Contract: Lab Code: CHEM

Case No.: LB86617

SAS No.: LB86617

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:	3/24/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	HHD-GW1	SDG No.:	LB86617
Lab Sample ID:	I2421-02	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	-0.00042	U	1	0.0025		0.005	mg/L	03/28/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/24/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	HHD-GW2	SDG No.:	LB86617
Lab Sample ID:	I2421-04	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	-0.00023	U	1	0.0025		0.005	mg/L	03/28/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	HHD-S1	SDG No.:	LB86617
Lab Sample ID:	I2422-02	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	-0.004	U	1	0.025		0.05	mg/Kg	03/29/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/27/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	HSP-01	SDG No.:	LB86617
Lab Sample ID:	I2435-02	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	-0.0075	U	1	0.025		0.05	mg/Kg	03/29/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	ROLL-OFF-15-50	SDG No.:	LB86617
Lab Sample ID:	I2440-03	Matrix:	Solid
Level (low/med):	low	% Solid:	81.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.005	U	1	0.025		0.049	mg/Kg	03/29/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	ROLL-OFF-20-41	SDG No.:	LB86617
Lab Sample ID:	I2440-06	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00091	U	1	0.025		0.05	mg/Kg	03/29/2017	03/29/2017	9012B



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Report of Analysis

Client:		Date Collected:	3/28/2017 12:00:00 AM
Project:	LB86617	Date Received:	3/28/2017 12:00:00 AM
Client Sample ID:	ROLL-OFF-20-41	SDG No.:	LB86617
Lab Sample ID:	I2440-06	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

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: LB86617

SDG No.: LB86617

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
PB97878BL	WATER			Batch Number:	PB97878			Prep Date:	03/28/2017	
	Reactive Cyanide	0.002	<0.005	U		0.005		03/29/2017	15:02	LB86617
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB97879BL	SOLID			Batch Number:	PB97879			Prep Date:	03/29/2017	
	Reactive Cyanide	0.016	<0.05	U		0.05		03/29/2017	15:02	LB86617

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DUPLICATE SAMPLE SUMMARY

Client: LB86617 **Level:** LOW **SDG No.:** LB86617
Contract: **Lab Code:** CHEM **Case No.:** LB86617 **SAS No.:** LB86617
Matrix: WATER **Sample ID:** I2421-02 **Client ID:** HHD-GW1DUP
Percent Solids for Sample: 0 **Duplicate ID** I2421-02DUP **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	-0.00026	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86617 **Level:** LOW **SDG No.:** LB86617
Contract: **Lab Code:** CHEM **Case No.:** LB86617 **SAS No.:** LB86617
Matrix: Solid **Sample ID:** I2422-02 **Client ID:** HHD-S1DUP
Percent Solids for Sample: 100 **Duplicate ID** I2422-02DUP **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	-0.0064	U			