



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86866

SDG No.: LB86866

Contract: _____ Lab Code: CHEM

Case No.: LB86866

SAS No.: LB86866

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		04/13/2017	14:00	LB86866
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		04/13/2017	14:06	LB86866
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		04/13/2017	14:06	LB86866



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86866

SDG No.: LB86866

Contract:

Lab Code: CHEM

Case No.: LB86866

SAS No.: LB86866

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00016	+/-0.005	U		0.005		04/13/2017	14:00	LB86866



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86866

SDG No.: LB86866

Contract:

Lab Code: CHEM

Case No.: LB86866

SAS No.: LB86866

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00041	+/-0.005	U		0.005		04/13/2017	14:00	LB86866
CCB2	Reactive Cyanide	0.00017	+/-0.005	U		0.005		04/13/2017	14:06	LB86866
CCB3	Reactive Cyanide	0.00061	+/-0.005	U		0.005		04/13/2017	14:06	LB86866



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86866

SDG No.: LB86866

Contract: Lab Code: CHEM

Case No.: LB86866

SAS No.: LB86866

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:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	AREA-1-COMP	SDG No.:	LB86866
Lab Sample ID:	I2662-09	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	0.00029	U	1	0.025		0.05	mg/Kg	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	AREA-2-COMP	SDG No.:	LB86866
Lab Sample ID:	I2662-10	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	-0.003	U	1	0.025		0.05	mg/Kg	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	AREA-3-COMP	SDG No.:	LB86866
Lab Sample ID:	I2662-11	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	0.00024	U	1	0.025		0.049	mg/Kg	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	AREA-4-COMP	SDG No.:	LB86866
Lab Sample ID:	I2662-12	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	0.00014	U	1	0.025		0.05	mg/Kg	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	ROLL-OFF-R4	SDG No.:	LB86866
Lab Sample ID:	I2670-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0035	U	1	0.025		0.05	mg/Kg	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	DRUMS-(2-7)	SDG No.:	LB86866
Lab Sample ID:	I2671-04	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	-0.0001	U	1	0.0025		0.005	mg/L	04/13/2017	04/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	M-15-M-18	SDG No.:	LB86866
Lab Sample ID:	I2671-07	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	04/13/2017	04/13/2017	9012B



Report of Analysis

Client:		Date Collected:	4/12/2017 12:00:00 AM
Project:	LB86866	Date Received:	4/12/2017 12:00:00 AM
Client Sample ID:	M-15-M-18	SDG No.:	LB86866
Lab Sample ID:	I2671-07	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: LB86866

SDG No.: LB86866

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
PB98236BL	SOLID			Batch Number:	PB98236			Prep Date:	04/13/2017	
	Reactive Cyanide	-0.0001	<0.05	U		0.05		04/13/2017	14:00	LB86866
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB98237BL	WATER			Batch Number:	PB98237			Prep Date:	04/13/2017	
	Reactive Cyanide	-0.00031	<0.005	U		0.005		04/13/2017	14:06	LB86866

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DUPLICATE SAMPLE SUMMARY

Client: LB86866 **Level:** LOW **SDG No.:** LB86866
Contract: **Lab Code:** CHEM **Case No.:** LB86866 **SAS No.:** LB86866
Matrix: Solid **Sample ID:** I2662-09 **Client ID:** AREA-1-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I2662-09DUP **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	0.00083	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB86866 **Level:** LOW **SDG No.:** LB86866
Contract: **Lab Code:** CHEM **Case No.:** LB86866 **SAS No.:** LB86866
Matrix: WATER **Sample ID:** I2671-04 **Client ID:** DRUMS-(2-7)DUP
Percent Solids for Sample: 0 **Duplicate ID** I2671-04DUP **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	U		