





## GENCHEM

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86991

SDG No.: LB86991

Contract: \_\_\_\_\_ Lab Code: CHEM

Case No.: LB86991

SAS No.: LB86991

Initial Calibration Source: \_\_\_\_\_

Continuing Calibration Source: \_\_\_\_\_

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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	14:58	LB86991
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		04/20/2017	15:05	LB86991
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		04/20/2017	15:21	LB86991

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**GENCHEM**

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86991

SDG No.: LB86991

**Contract:**

Lab Code: CHEM

**Case No.:** LB86991

**SAS No.:** LB86991

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00074	+/-0.005	U		0.005		04/20/2017	14:58	LB86991



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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

**Client:** LB86991

SDG No.: LB86991

**Contract:**

**Lab Code:** CHEM

**Case No.:** LB86991

**SAS No.:** LB86991

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00049	+/-0.005	U		0.005		04/20/2017	14:58	LB86991
CCB2	Reactive Cyanide	-0.00014	+/-0.005	U		0.005		04/20/2017	15:05	LB86991
CCB3	Reactive Cyanide	-0.00058	+/-0.005	U		0.005		04/20/2017	15:21	LB86991



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB86991

SDG No.:

LB86991

Contract:

Lab Code:

CHEM

Case No.:

LB86991

SAS No.:

LB86991

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:	4/18/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	SB-1(0-2)20170418	SDG No.:	LB86991
Lab Sample ID:	I2744-13	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	-0.013	U	1	0.025		0.05	mg/Kg	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	SB-3(0-2)20170418	SDG No.:	LB86991
Lab Sample ID:	I2744-14	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	-0.012	U	1	0.025		0.05	mg/Kg	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/18/2017 12:00:00 AM
Client Sample ID:	SB-5(0-2)20170418	SDG No.:	LB86991
Lab Sample ID:	I2744-15	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	-0.017	U	1	0.025		0.05	mg/Kg	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/18/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	SB-6(0-2)20170418	SDG No.:	LB86991
Lab Sample ID:	I2744-20	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	-0.0095	U	1	0.025		0.05	mg/Kg	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	SB-4(0-2)20170419	SDG No.:	LB86991
Lab Sample ID:	I2744-21	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	-0.014	U	1	0.025		0.049	mg/Kg	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	MH-41	SDG No.:	LB86991
Lab Sample ID:	I2755-03	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	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	3652	SDG No.:	LB86991
Lab Sample ID:	I2755-07	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	-0.00056	U	1	0.0025		0.005	mg/L	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	CLEAN-HARBORS-DRUMS(1-9)	SDG No.:	LB86991
Lab Sample ID:	I2758-02	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	-0.00031	U	1	0.0025		0.005	mg/L	04/20/2017	04/20/2017	9012B



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## Report of Analysis

Client:		Date Collected:	4/19/2017 12:00:00 AM
Project:	LB86991	Date Received:	4/19/2017 12:00:00 AM
Client Sample ID:	CLEAN-HARBORS-DRUMS(1-9)	SDG No.:	LB86991
Lab Sample ID:	I2758-02	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:** LB86991

**SDG No.:** LB86991

**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
PB98372BL	WATER			Batch Number:	PB98372			Prep Date:	04/20/2017	
	Reactive Cyanide	-0.00083	<0.005	U		0.005		04/20/2017	15:05	LB86991
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB98373BL	SOLID			Batch Number:	PB98373			Prep Date:	04/20/2017	
	Reactive Cyanide	-0.016	<0.05	U		0.05		04/20/2017	14:58	LB86991

# GENCHEM

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB86991      **Level:** LOW      **SDG No.:** LB86991  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86991      **SAS No.:** LB86991  
**Matrix:** Solid      **Sample ID:** I2744-13      **Client ID:** SB-1(0-2)20170418DUP  
**Percent Solids for Sample:** 100      **Duplicate ID** I2744-13DUP      **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	-0.011	U			

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## DUPLICATE SAMPLE SUMMARY

**Client:** LB86991      **Level:** LOW      **SDG No.:** LB86991  
**Contract:**                           **Lab Code:** CHEM      **Case No.:** LB86991      **SAS No.:** LB86991  
**Matrix:** WATER      **Sample ID:** I2755-03      **Client ID:** MH-41DUP  
**Percent Solids for Sample:** 0      **Duplicate ID** I2755-03DUP      **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	-0.00056	U			