



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86538

SDG No.: LB86538

Contract: _____

Lab Code: CHEM

Case No.: LB86538

SAS No.: LB86538

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	Cyanide	0.093	0.099	93.9	0	85 - 115		03/24/2017	13:15	LB86538



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86538

SDG No.: LB86538

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SAS No.: LB86538

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	Cyanide	0.24	0.25	96	0	90 - 110		03/24/2017	13:15	LB86538
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		03/24/2017	13:39	LB86538



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86538

SDG No.: LB86538

Contract:

Lab Code: CHEM

Case No.: LB86538

SAS No.: LB86538

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00054	+/-0.005	U		0.005		03/24/2017	13:15	LB86538

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00049	+/-0.005	U		0.005		03/24/2017	13:15	LB86538
CCB2	Cyanide	-0.0001	+/-0.005	U		0.005		03/24/2017	13:39	LB86538



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86538

SDG No.: LB86538

Contract: Lab Code: CHEM

Case No.: LB86538

SAS No.: LB86538

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:	3/20/2017 12:00:00 AM
Project:	LB86538	Date Received:	3/21/2017 12:00:00 AM
Client Sample ID:	EFFLUENT-DAY1-1CN	SDG No.:	LB86538
Lab Sample ID:	I2273-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0011	J	1	0.001		0.005	mg/L	03/23/2017	03/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB86538	Date Received:	
Client Sample ID:	MIDPB97772	SDG No.:	LB86538
Lab Sample ID:	MIDPB97772	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.24		1	0.001		0.005	mg/L		03/24/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB86538	Date Received:	
Client Sample ID:	MIDPB97772	SDG No.:	LB86538
Lab Sample ID:	MIDPB97772	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: LB86538

SDG No.: LB86538

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
PB97772BL	Cyanide	0.00079	<0.005	U						
		WATER		Batch Number:		PB97772		Prep Date:	03/23/2017	
						0.005		03/24/2017	13:15	LB86538



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MATRIX SPIKE SUMMARY

client: LB86538 level: low sdg no.: LB86538
contract: lab code: CHEM case no.: LB86538 sas no.: LB86538
matrix: WATER sample id: I2273-02 client id: EFFLUENT-DAY1-1CNMS
Percent Solids for Sample: 0 Spiked ID: I2273-02MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.034		0.0011	J	0.04	82		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86538 level: low sdg no.: LB86538
contract: lab code: CHEM case no.: LB86538 sas no.: LB86538
matrix: WATER sample id: I2273-02 client id: EFFLUENT-DAY1-1CNMSD
Percent Solids for Sample: 0 Spiked ID: I2273-02MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.034		0.0011	J	0.04	82		

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DUPLICATE SAMPLE SUMMARY

Client: LB86538 **Level:** LOW **SDG No.:** LB86538
Contract: **Lab Code:** CHEM **Case No.:** LB86538 **SAS No.:** LB86538
Matrix: WATER **Sample ID:** I2273-02 **Client ID:** EFFLUENT-DAY1-1CNDUP
Percent Solids for Sample: 0 **Duplicate ID** I2273-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0011	J	0.00076	U	200.0	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB86538 **Level:** LOW **SDG No.:** LB86538
Contract: **Lab Code:** CHEM **Case No.:** LB86538 **SAS No.:** LB86538
Matrix: WATER **Sample ID:** I2273-02MS **Client ID:** EFFLUENT-DAY1-1CNMSD
Percent Solids for Sample: 0 **Duplicate ID** I2273-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.034		0.034		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86538

SDG No.: LB86538

Contract:

Lab Code: CHEM

Case No.: LB86538

SAS No.: LB86538

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97772BS Cyanide	mg/L	0.1	0.098		98	85 - 115	