



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86150 **SDG No.:** LB86150
Contract: **Lab Code:** CHEM **Case No.:** LB86150 **SAS No.:** LB86150

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00013	+/-0.005	U		0.005		03/03/2017	15:05	LB86150

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00044	+/-0.005	U		0.005		03/03/2017	15:05	LB86150
CCB2	Cyanide	-0.00014	+/-0.005	U		0.005		03/03/2017	15:09	LB86150
CCB3	Cyanide	-0.00028	+/-0.005	U		0.005		03/03/2017	15:25	LB86150



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Client: LB86150

SDG No.: LB86150

Contract: Lab Code: CHEM

Case No.: LB86150

SAS No.: LB86150

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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PREPARATION BLANK SUMMARY

Client: LB86150

SDG No.: LB86150

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
PB97322BL		WATER		Batch Number:		PB97322		Prep Date:	03/03/2017	
	Cyanide	-0.00062	<0.005	U		0.005		03/03/2017	15:05	LB86150



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86150	Date Received:	3/1/2017 12:00:00 AM
Client Sample ID:	WASTE-WATER-TREATMENT	SDG No.:	LB86150
Lab Sample ID:	I2050-01	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	0.0052		1	0.001		0.005	mg/L	03/03/2017	03/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB86150	Date Received:	
Client Sample ID:	MIDPB97322	SDG No.:	LB86150
Lab Sample ID:	MIDPB97322	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	0.25		1	0.001		0.005	mg/L		03/03/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB86150	Date Received:	
Client Sample ID:	MIDPB97322	SDG No.:	LB86150
Lab Sample ID:	MIDPB97322	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.094	0.099	94.9	0	85 - 115		03/03/2017	15:05	LB86150



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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86150

SDG No.: LB86150

Contract: _____ Lab Code: CHEM

Case No.: LB86150

SAS No.: LB86150

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		03/03/2017	15:05	LB86150
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		03/03/2017	15:09	LB86150
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		03/03/2017	15:25	LB86150



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86150

SDG No.: LB86150

Contract:

Lab Code: CHEM

Case No.: LB86150

SAS No.: LB86150

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97322BS Cyanide	mg/L	0.1	0.098		98	85 - 115	



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MATRIX SPIKE SUMMARY

client: LB86150 level: low sdg no.: LB86150
contract: lab code: CHEM case no.: LB86150 sas no.: LB86150
matrix: WATER sample id: I2050-01 client id: WASTE-WATER-TREATMENTMS
Percent Solids for Sample: 0 Spiked ID: I2050-01MS 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	0.027		0.0052		0.04	55	*	



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB86150 level: low sdg no.: LB86150
contract: lab code: CHEM case no.: LB86150 sas no.: LB86150
matrix: WATER sample id: I2050-01 client id: WASTE-WATER-TREATMENTMSD
Percent Solids for Sample: 0 Spiked ID: I2050-01MSD 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	0.028		0.0052		0.04	57	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB86150 **Level:** LOW **SDG No.:** LB86150
Contract: _____ **Lab Code:** CHEM **Case No.:** LB86150 **SAS No.:** LB86150
Matrix: WATER **Sample ID:** I2050-01 **Client ID:** WASTE-WATER-TREATMENTDUP
Percent Solids for Sample: 0 **Duplicate ID** I2050-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0052		0.0049	J	6		

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DUPLICATE SAMPLE SUMMARY

Client: LB86150 **Level:** LOW **SDG No.:** LB86150
Contract: **Lab Code:** CHEM **Case No.:** LB86150 **SAS No.:** LB86150
Matrix: WATER **Sample ID:** I2050-01MS **Client ID:** WASTE-WATER-TREATMENTMSD
Percent Solids for Sample: 0 **Duplicate ID** I2050-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.027		0.028		4		