



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86342 **SDG No.:** LB86342
Contract: **Lab Code:** CHEM **Case No.:** LB86342 **SAS No.:** LB86342

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.001	+/-0.005	U		0.005		03/13/2017	14:09	LB86342



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86342

SDG No.: LB86342

Contract:

Lab Code: CHEM

Case No.: LB86342

SAS No.: LB86342

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00083	+/-0.005	U		0.005		03/13/2017	14:09	LB86342
CCB2	Cyanide	-0.00057	+/-0.005	U		0.005		03/13/2017	14:12	LB86342



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86342

SDG No.: LB86342

Contract: Lab Code: CHEM

Case No.: LB86342

SAS No.: LB86342

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:	3/7/2017 12:00:00 AM
Project:	LB86342	Date Received:	3/7/2017 12:00:00 AM
Client Sample ID:	EFF-WW	SDG No.:	LB86342
Lab Sample ID:	I2159-02	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	-0.00051	U	1	0.001		0.005	mg/L	03/08/2017	03/13/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB86342	Date Received:	
Client Sample ID:	MIDPB97432	SDG No.:	LB86342
Lab Sample ID:	MIDPB97432	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		03/13/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB86342	Date Received:	
Client Sample ID:	MIDPB97432	SDG No.:	LB86342
Lab Sample ID:	MIDPB97432	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



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86342

SDG No.: LB86342

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
PB97432BL		WATER		Batch Number:		PB97432		Prep Date:	03/08/2017	
	Cyanide	-0.0012	<0.005	U		0.005		03/13/2017	14:09	LB86342



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86342

SDG No.: LB86342

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
PB97432BL		WATER		Batch Number:		PB97432		Prep Date:	03/08/2017	
	Cyanide	-0.0012	<0.005	U		0.005		03/13/2017	14:09	LB86342



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86342 level: low sdg no.: LB86342
contract: lab code: CHEM case no.: LB86342 sas no.: LB86342
matrix: WATER sample id: I2159-02 client id: EFF-WWMS
Percent Solids for Sample: 0 Spiked ID: I2159-02MS 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	0.033		0.001	U	0.04	82.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86342 level: low sdg no.: LB86342
contract: lab code: CHEM case no.: LB86342 sas no.: LB86342
matrix: WATER sample id: I2159-02 client id: EFF-WWMSD
Percent Solids for Sample: 0 Spiked ID: I2159-02MSD 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	0.031		0.001	U	0.04	77.5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86342 **Level:** LOW **SDG No.:** LB86342
Contract: **Lab Code:** CHEM **Case No.:** LB86342 **SAS No.:** LB86342
Matrix: WATER **Sample ID:** I2159-02 **Client ID:** EFF-WWDUP
Percent Solids for Sample: 0 **Duplicate ID** I2159-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	-2.89e-005	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86342 **Level:** LOW **SDG No.:** LB86342
Contract: **Lab Code:** CHEM **Case No.:** LB86342 **SAS No.:** LB86342
Matrix: WATER **Sample ID:** I2159-02MS **Client ID:** EFF-WWMSD
Percent Solids for Sample: 0 **Duplicate ID** I2159-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.033		0.031		6		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86342

SDG No.: LB86342

Contract:

Lab Code: CHEM

Case No.: LB86342

SAS No.: LB86342

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97432BS Cyanide	mg/L	0.1	0.098		98	85 - 115	