

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.093	0.099	93.9	0	85 - 115		04/10/2017	12:29	LB86794



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86794

SDG No.: LB86794

Contract: _____ Lab Code: CHEM

Case No.: LB86794

SAS No.: LB86794

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		04/10/2017	12:29	LB86794
CCV2	Cyanide	0.27	0.25	108	0	90 - 110		04/10/2017	12:33	LB86794



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86794

SDG No.: LB86794

Contract:

Lab Code: CHEM

Case No.: LB86794

SAS No.: LB86794

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00075	+/-0.005	U		0.005		04/10/2017	12:29	LB86794



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86794

SDG No.: LB86794

Contract:

Lab Code: CHEM

Case No.: LB86794

SAS No.: LB86794

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0016	+/-0.005	U		0.005		04/10/2017	12:29	LB86794
CCB2	Cyanide	-0.00066	+/-0.005	U		0.005		04/10/2017	12:33	LB86794



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86794

SDG No.: LB86794

Contract: Lab Code: CHEM

Case No.: LB86794

SAS No.: LB86794

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:	4/5/2017 12:00:00 AM
Project:	LB86794	Date Received:	4/5/2017 12:00:00 AM
Client Sample ID:	CLEARWELL	SDG No.:	LB86794
Lab Sample ID:	I2561-08	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	0.01		1	0.001		0.005	mg/L	04/07/2017	04/10/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	4/6/2017 12:00:00 AM
Project:	LB86794	Date Received:	4/6/2017 12:00:00 AM
Client Sample ID:	EFF-WW	SDG No.:	LB86794
Lab Sample ID:	I2586-01	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	-0.00078	U	1	0.001		0.005	mg/L	04/07/2017	04/10/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB86794	Date Received:	
Client Sample ID:	MIDPB98105	SDG No.:	LB86794
Lab Sample ID:	MIDPB98105	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		04/10/2017	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB86794	Date Received:	
Client Sample ID:	MIDPB98105	SDG No.:	LB86794
Lab Sample ID:	MIDPB98105	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: LB86794

SDG No.: LB86794

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
PB98105BL		WATER		Batch Number:		PB98105		Prep Date:	04/07/2017	
	Cyanide	-0.00074	<0.005	U		0.005		04/10/2017	12:29	LB86794



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB86794 level: low sdg no.: LB86794
contract: lab code: CHEM case no.: LB86794 sas no.: LB86794
matrix: WATER sample id: I2561-08 client id: CLEARWELLMS
Percent Solids for Sample: 0 Spiked ID: I2561-08MS 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	0.042		0.01		0.04	80		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86794 level: low sdg no.: LB86794
contract: lab code: CHEM case no.: LB86794 sas no.: LB86794
matrix: WATER sample id: I2561-08 client id: CLEARWELLMSD
Percent Solids for Sample: 0 Spiked ID: I2561-08MSD 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	0.042		0.01		0.04	80		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB86794 **Level:** LOW **SDG No.:** LB86794
Contract: **Lab Code:** CHEM **Case No.:** LB86794 **SAS No.:** LB86794
Matrix: WATER **Sample ID:** I2561-08 **Client ID:** CLEARWELLDUP
Percent Solids for Sample: 0 **Duplicate ID** I2561-08DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.01		0.0095		5		



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DUPLICATE SAMPLE SUMMARY

Client: LB86794 **Level:** LOW **SDG No.:** LB86794
Contract: **Lab Code:** CHEM **Case No.:** LB86794 **SAS No.:** LB86794
Matrix: WATER **Sample ID:** I2561-08MS **Client ID:** CLEARWELLMSD
Percent Solids for Sample: 0 **Duplicate ID** I2561-08MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.042		0.042		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86794

SDG No.: LB86794

Contract:

Lab Code: CHEM

Case No.: LB86794

SAS No.: LB86794

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98105BS Cyanide	mg/L	0.1	0.097		97	85 - 115	