

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.092	0.099	92.9	0	85 - 115		04/24/2017	15:12	LB87029



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87029

SDG No.: LB87029

Contract: _____ Lab Code: CHEM

Case No.: LB87029 SAS No.: LB87029

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		04/24/2017	15:12	LB87029
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		04/24/2017	15:15	LB87029



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87029

SDG No.: LB87029

Contract:

Lab Code: CHEM

Case No.: LB87029

SAS No.: LB87029

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00011	+/-0.005	U		0.005		04/24/2017	15:12	LB87029



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87029

SDG No.: LB87029

Contract:

Lab Code: CHEM

Case No.: LB87029

SAS No.: LB87029

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00014	+/-0.005	U		0.005		04/24/2017	15:12	LB87029
CCB2	Cyanide	-0.00036	+/-0.005	U		0.005		04/24/2017	15:15	LB87029



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87029

SDG No.: LB87029

Contract: Lab Code: CHEM

Case No.: LB87029

SAS No.: LB87029

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:	4/20/2017 12:00:00 AM
Project:	LB87029	Date Received:	4/21/2017 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB87029
Lab Sample ID:	I2802-02	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	0.00034	U	1	0.001		0.005	mg/L	04/24/2017	04/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB87029	Date Received:	
Client Sample ID:	MIDPB98426	SDG No.:	LB87029
Lab Sample ID:	MIDPB98426	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		04/24/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB87029	Date Received:	
Client Sample ID:	MIDPB98426	SDG No.:	LB87029
Lab Sample ID:	MIDPB98426	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: LB87029

SDG No.: LB87029

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
PB98426BL	Cyanide	0.00023	<0.005	U		0.005		04/24/2017	15:12	LB87029



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87029 level: low sdg no.: LB87029
contract: lab code: CHEM case no.: LB87029 sas no.: LB87029
matrix: WATER sample id: I2802-02 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: I2802-02MS 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	0.025		0.001	U	0.04	62.5	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87029 level: low sdg no.: LB87029
contract: lab code: CHEM case no.: LB87029 sas no.: LB87029
matrix: WATER sample id: I2802-02 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: I2802-02MSD 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	0.025		0.001	U	0.04	62.5	*	

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87029 **Level:** LOW **SDG No.:** LB87029
Contract: **Lab Code:** CHEM **Case No.:** LB87029 **SAS No.:** LB87029
Matrix: WATER **Sample ID:** I2802-02 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** I2802-02DUP **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	-0	U			



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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87029 **Level:** LOW **SDG No.:** LB87029
Contract: **Lab Code:** CHEM **Case No.:** LB87029 **SAS No.:** LB87029
Matrix: WATER **Sample ID:** I2802-02MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** I2802-02MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.025		0.025		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87029

SDG No.: LB87029

Contract:

Lab Code: CHEM

Case No.: LB87029

SAS No.: LB87029

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98426BS Cyanide	mg/L	0.1	0.098		98	85 - 115	