

Daily Analysis Runlog For Sequence/QC Batch ID # LB96210

Review By		Review On				
SubDirectory		LB96210		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65503,WP65504,WP65505,WP65506,WP65507,WP65508,WP65509				
ICV Standard		W1542				
CCV Standard		WP65510				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP65512,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/22/18 09:03		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/22/18 09:03		OK
3	10PPBCN	10PPBCN	CAL3	06/22/18 09:03		OK
4	50PPBCN	50PPBCN	CAL4	06/22/18 09:03		OK
5	100PPBCN	100PPBCN	CAL5	06/22/18 09:03		OK
6	250PPBCN	250PPBCN	CAL6	06/22/18 09:03		OK
7	500PPBCN	500PPBCN	CAL7	06/22/18 09:03		OK
8	ICV1	ICV1	ICV	06/22/18 10:24		OK
9	ICB1	ICB1	ICB	06/22/18 10:25		OK
10	CCV1	CCV1	CCV	06/22/18 10:25		OK
11	CCB1	CCB1	CCB	06/22/18 10:25		OK
12	PB110480BL	PB110480BL	MB	06/22/18 10:25		OK
13	PB110480BS	PB110480BS	LCS	06/22/18 10:25		OK
14	J3570-10	20180373-AMENDED	SAM	06/22/18 10:25		OK
15	J3570-10DUP	20180373-AMENDED	DUP	06/22/18 10:25		OK
16	J3570-10MS	20180373-AMENDED	MS	06/22/18 10:25		OK
17	J3570-10MSD	20180373-AMENDED	MSD	06/22/18 10:25		OK
18	J3570-11	20180374-AMENDED	SAM	06/22/18 10:25		OK
19	CCV2	CCV2	CCV	06/22/18 10:45		OK
20	CCB2	CCB2	CCB	06/22/18 10:45		OK



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96210	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180373-AMENDED-COMPOSITE-CS-1A	SDG No.:	LB96210
Lab Sample ID:	J3570-10	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00042	U	1	0.003		0.005	mg/L	06/21/2018	06/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96210	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180374-AMENDED-COMPOSITE-CS-1B	SDG No.:	LB96210
Lab Sample ID:	J3570-11	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00013	U	1	0.003		0.005	mg/L	06/21/2018	06/22/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/7/2018 12:00:00 AM
Project:	LB96210	Date Received:	6/15/2018 12:00:00 AM
Client Sample ID:	20180374-AMENDED-COMPOSITE-CS-1B	SDG No.:	LB96210
Lab Sample ID:	J3570-11	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

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96210

SDG No.: LB96210

Contract: _____

Lab Code: CHEM

Case No.: LB96210

SAS No.: LB96210

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.097	0.099	98		85 - 115		06/22/2018	10:24	lb96210



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB96210

SDG No.: LB96210

Contract: _____ Lab Code: CHEM

Case No.: LB96210

SAS No.: LB96210

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		06/22/2018	10:25	lb96210
CCV2	Cyanide	0.26	0.25	104		90 - 110		06/22/2018	10:45	lb96210



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96210 **SDG No.:** LB96210
Contract: **Lab Code:** CHEM **Case No.:** LB96210 **SAS No.:** LB96210

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0001	+/-0.005	U		0.005		06/22/2018	10:25	lb96210



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96210

SDG No.: LB96210

Contract: _____

Lab Code: CHEM

Case No.: LB96210

SAS No.: LB96210

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00051	+/-0.005	U		0.005		06/22/2018	10:25	1b96210
CCB2	Cyanide	0.00014	+/-0.005	U		0.005		06/22/2018	10:45	1b96210



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB96210

SDG No.: LB96210

Contract: Lab Code: CHEM

Case No.: LB96210

SAS No.: LB96210

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB96210

SDG No.: LB96210

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
PB110480BL	Cyanide	WATER 0.00024	<0.005	Batch Number: U		PB110480 0.005		Prep Date: 06/22/2018	06/21/2018 10:25	lb96210



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MATRIX SPIKE SUMMARY

client: LB96210 level: low sdg no.: LB96210
contract: lab code: CHEM case no.: LB96210 sas no.: LB96210
matrix: WATER sample id: J3570-10 client id: 20180373-AMENDED-COMPOSITE-CS-1AMS
Percent Solids for Sample: 0 Spiked ID: J3570-10MS 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	0.0071		0.003	U	0.04	17.8	*	



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB96210 level: low sdg no.: LB96210
contract: lab code: CHEM case no.: LB96210 sas no.: LB96210
matrix: WATER sample id: J3570-10 client id: 20180373-AMENDED-COMPOSITE-CS-1AMSD
Percent Solids for Sample: 0 Spiked ID: J3570-10MSD 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	0.007		0.003	U	0.04	17.5	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB96210 **Level:** LOW **SDG No.:** LB96210
Contract: **Lab Code:** CHEM **Case No.:** LB96210 **SAS No.:** LB96210
Matrix: WATER **Sample ID:** J3570-10 **Client ID:** 20180373-AMENDED-COMPOSITE-CS-1ADUP
Percent Solids for Sample: 0 **Duplicate ID** J3570-10DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.00025	U			



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DUPLICATE SAMPLE SUMMARY

Client: LB96210 **Level:** LOW **SDG No.:** LB96210
Contract: **Lab Code:** CHEM **Case No.:** LB96210 **SAS No.:** LB96210
Matrix: WATER **Sample ID:** J3570-10MS **Client ID:** 20180373-AMENDED-COMPOSITE-CS-1AMSD
Percent Solids for Sample: 0 **Duplicate ID** J3570-10MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0071		0.007		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB96210

SDG No.: LB96210

Contract:

Lab Code: CHEM

Case No.: LB96210

SAS No.: LB96210

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110480BS Cyanide	mg/L	0.1	0.099		99	85 - 115	