

Daily Analysis Runlog For Sequence/QC Batch ID # LB93310

Review By		Review On				
SubDirectory		LB93310		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP61948,WP61949,WP91950,WP61951,WP61952,WP61953,WP61954
ICV Standard	W1542
CCV Standard	WP61955
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP61957,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/15/18 09:59		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/15/18 09:59		OK
3	10PPBCN	10PPBCN	CAL3	02/15/18 09:59		OK
4	50PPBCN	50PPBCN	CAL4	02/15/18 09:59		OK
5	100PPBCN	100PPBCN	CAL5	02/15/18 09:59		OK
6	250PPBCN	250PPBCN	CAL6	02/15/18 09:59		OK
7	500PPBCN	500PPBCN	CAL7	02/15/18 09:59		OK
8	ICV1	ICV1	ICV	02/15/18 14:47		OK
9	ICB1	ICB1	ICB	02/15/18 14:47		OK
10	CCV1	CCV1	CCV	02/15/18 15:08		OK
11	CCB1	CCB1	CCB	02/15/18 15:08		OK
12	PB106588BL	PB106588BL	MB	02/15/18 15:08		OK
13	PB106588BS	PB106588BS	LCS	02/15/18 15:08		OK
14	J1536-01	FIELD-BLANK-20180	SAM	02/15/18 15:08		OK
15	J1536-01DUP	FIELD-BLANK-20180	DUP	02/15/18 15:08		OK
16	J1536-01MS	FIELD-BLANK-20180	MS	02/15/18 15:08		OK
17	J1536-01MSD	FIELD-BLANK-20180	MSD	02/15/18 15:08		OK
18	J1536-02	SITE-WATER-20180	SAM	02/15/18 15:08		OK
19	CCV2	CCV2	CCV	02/15/18 15:08		OK
20	CCB2	CCB2	CCB	02/15/18 15:08		OK



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93310	Date Received:	2/9/2018 12:00:00 AM
Client Sample ID:	FIELD-BLANK-20180148	SDG No.:	LB93310
Lab Sample ID:	J1536-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00046	U	1	0.003		0.005	mg/L	02/15/2018	02/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93310	Date Received:	2/9/2018 12:00:00 AM
Client Sample ID:	SITE-WATER-20180149	SDG No.:	LB93310
Lab Sample ID:	J1536-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00074	U	1	0.003		0.005	mg/L	02/15/2018	02/15/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/8/2018 12:00:00 AM
Project:	LB93310	Date Received:	2/9/2018 12:00:00 AM
Client Sample ID:	SITE-WATER-20180149	SDG No.:	LB93310
Lab Sample ID:	J1536-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB93310

SDG No.: LB93310

Contract: _____

Lab Code: CHEM

Case No.: LB93310

SAS No.: LB93310

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	0.1	0.099	101		85 - 115		02/15/2018	14:47	LB93310



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93310

SDG No.: LB93310

Contract: _____ Lab Code: CHEM

Case No.: LB93310

SAS No.: LB93310

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		02/15/2018	15:08	LB93310
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/15/2018	15:08	LB93310



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93310 **SDG No.:** LB93310
Contract: **Lab Code:** CHEM **Case No.:** LB93310 **SAS No.:** LB93310

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		02/15/2018	14:47	LB93310



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93310

SDG No.: LB93310

Contract:

Lab Code: CHEM

Case No.: LB93310

SAS No.: LB93310

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00032	+/-0.005	U		0.005		02/15/2018	15:08	LB93310
CCB2	Cyanide	0.001	+/-0.005	U		0.005		02/15/2018	15:08	LB93310



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93310

SDG No.: LB93310

Contract: Lab Code: CHEM

Case No.: LB93310

SAS No.: LB93310

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: LB93310

SDG No.: LB93310

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
PB106588BL	Cyanide	WATER 0.0013	<0.005	Batch Number: U		PB106588 0.005		Prep Date: 02/15/2018	02/15/2018 15:08	LB93310



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93310 level: low sdg no.: LB93310
contract: lab code: CHEM case no.: LB93310 sas no.: LB93310
matrix: WATER sample id: J1536-01 client id: FIELD-BLANK-20180148MS
Percent Solids for Sample: 0 Spiked ID: J1536-01MS 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		0.003	U	0.04	67.5	*	



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93310 level: low sdg no.: LB93310
contract: lab code: CHEM case no.: LB93310 sas no.: LB93310
matrix: WATER sample id: J1536-01 client id: FIELD-BLANK-20180148MSD
Percent Solids for Sample: 0 Spiked ID: J1536-01MSD 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	0.027		0.003	U	0.04	67.5	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93310 **Level:** LOW **SDG No.:** LB93310
Contract: **Lab Code:** CHEM **Case No.:** LB93310 **SAS No.:** LB93310
Matrix: WATER **Sample ID:** J1536-01 **Client ID:** FIELD-BLANK-20180148DUP
Percent Solids for Sample: 0 **Duplicate ID** J1536-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.00038	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93310 **Level:** LOW **SDG No.:** LB93310
Contract: **Lab Code:** CHEM **Case No.:** LB93310 **SAS No.:** LB93310
Matrix: WATER **Sample ID:** J1536-01MS **Client ID:** FIELD-BLANK-20180148MSD
Percent Solids for Sample: 0 **Duplicate ID** J1536-01MSD **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		0.027		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93310

SDG No.: LB93310

Contract:

Lab Code: CHEM

Case No.: LB93310

SAS No.: LB93310

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106588BS Cyanide	mg/L	0.1	0.098		98	85 - 115	