

Daily Analysis Runlog For Sequence/QC Batch ID # LB93291

Review By		Review On				
SubDirectory		LB93291		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61897,WP61898,WP61900,WP61901,WP61902,WP61903				
ICV Standard		WP61905				
CCV Standard		WP61904				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61916,WP59958,WP58653				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	02/14/18 14:31		OK
2	S5.0	S5.0	CAL2	02/14/18 14:31		OK
3	S10.0	S10.0	CAL3	02/14/18 14:31		OK
4	S100.0	S100.0	CAL4	02/14/18 14:31		OK
5	S250.0	S250.0	CAL5	02/14/18 14:31		OK
6	S500.0	S500.0	CAL6	02/14/18 14:31		OK
7	ICV	ICV	ICV	02/14/18 15:11		OK
8	ICB	ICB	ICB	02/14/18 15:11		OK
9	CCV001	CCV001	CCV	02/14/18 15:11		OK
10	CCB001	CCB001	CCB	02/14/18 15:11		OK
11	PB106552BL	PBW005	MB	02/14/18 15:11		OK
12	J1542-01	MC0AA0	SAM	02/14/18 15:11		OK
13	J1542-01DUP	MC0AA0D	DUP	02/14/18 15:11		OK
14	J1542-01MS	MC0AA0S	MS	02/14/18 15:11		OK
15	J1542-02	MC0AA1	SAM	02/14/18 15:11		OK
16	J1542-03	MC0AA2	SAM	02/14/18 15:11		OK
17	J1542-04	MC0AA3	SAM	02/14/18 15:15		OK
18	CCV002	CCV002	CCV	02/14/18 15:15		OK
19	CCB002	CCB002	CCB	02/14/18 15:15		OK



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Report of Analysis

Client:		Date Collected:	2/12/2018 12:00:00 AM
Project:	LB93291	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	MC0AA0	SDG No.:	LB93291
Lab Sample ID:	J1542-01	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	1.4	U	1	2.1	5	10	ug/L	02/14/2018	02/14/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	2/12/2018 12:00:00 AM
Project:	LB93291	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	MC0AA1	SDG No.:	LB93291
Lab Sample ID:	J1542-02	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	0.99	U	1	2.1	5	10	ug/L	02/14/2018	02/14/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	2/12/2018 12:00:00 AM
Project:	LB93291	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	MC0AA2	SDG No.:	LB93291
Lab Sample ID:	J1542-03	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	1.4	U	1	2.1	5	10	ug/L	02/14/2018	02/14/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	2/12/2018 12:00:00 AM
Project:	LB93291	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	MC0AA3	SDG No.:	LB93291
Lab Sample ID:	J1542-04	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	1.1	U	1	2.1	5	10	ug/L	02/14/2018	02/14/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	2/12/2018 12:00:00 AM
Project:	LB93291	Date Received:	2/13/2018 12:00:00 AM
Client Sample ID:	MC0AA3	SDG No.:	LB93291
Lab Sample ID:	J1542-04	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

Metals

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Client: LB93291 **SDG No.:** LB93291
Contract: **Lab Code:** CHEM **Case No.:** LB93291 **SAS No.:** LB93291
Instrument ID: P4 **Preparation Method:**

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
LIQUID					
Method: Cyanide	578.00				

Metals
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SAMPLE PREPARATION SUMMARY

Client: <u>LB93291</u>	SDG No.: <u>LB93291</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB93291</u>	SAS No.: <u>LB93291</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB106552							
PB106552BL	PBW005	MB	WATER	02/14/2018	50.0	50.0	
J1542-01	MC0AA0	SAM	WATER	02/14/2018	50.0	50.0	
J1542-01DUP	MC0AA0D	DUP	WATER	02/14/2018	50.0	50.0	
J1542-01MS	MC0AA0S	MS	WATER	02/14/2018	50.0	50.0	
J1542-02	MC0AA1	SAM	WATER	02/14/2018	50.0	50.0	
J1542-03	MC0AA2	SAM	WATER	02/14/2018	50.0	50.0	
J1542-04	MC0AA3	SAM	WATER	02/14/2018	50.0	50.0	



Start Date: _____ **End Date:** _____

[illegible]



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93291 **SDG No.:** LB93291
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93291 **SAS No.:** LB93291
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV	Cyanide	99.2	99	100	0	85 - 115	CN	02/14/2018	15:11	LB93291



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93291

SDG No.: LB93291

Contract: _____ Lab Code: CHEM

Case No.: LB93291

SAS No.: LB93291

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV001	Cyanide	240	250	96	0	85 - 115	CN	02/14/2018	15:11	LB93291
CCV002	Cyanide	258	250	103	0	85 - 115	CN	02/14/2018	15:15	LB93291



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93291 **SDG No.:** LB93291
Contract: **Lab Code:** CHEM **Case No.:** LB93291 **SAS No.:** LB93291

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.0	+/-10.0	U	5.0	10.0	CN	02/14/2018	15:11	LB93291



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>LB93291</u>	SDG No.:	<u>LB93291</u>				
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB93291</u>	SAS No.:	<u>LB93291</u>

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.66	+/-10.0	U	5.0	10.0	CN	02/14/2018	15:11	LB93291
CCB002	Cyanide	0.42	+/-10.0	U	5.0	10.0	CN	02/14/2018	15:15	LB93291



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93291

SDG No.: LB93291

Contract: Lab Code: CHEM

Case No.: LB93291

SAS No.: LB93291

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
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PREPARATION BLANK SUMMARY

Client: LB93291

SDG No.: LB93291

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB106552BL		WATER		Batch Number:		PB106552		Prep Date:	02/14/2018	
	Cyanide	0.64	<10	U	5.0	10	CN	02/14/2018	15:11	LB93291



metals
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MATRIX SPIKE SUMMARY

client: LB93291 level: low sdg no.: LB93291
contract: lab code: CHEM case no.: LB93291 sas no.: LB93291
matrix: WATER sample id: J1542-01 client id: MC0AA0S
Percent Solids for Sample: 0 Spiked ID: J1542-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	ug/L	75 - 125	99.5		10.0	U	100	100		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB93291 **Level:** LOW **SDG No.:** LB93291
Contract: **Lab Code:** CHEM **Case No.:** LB93291 **SAS No.:** LB93291
Matrix: WATER **Sample ID:** J1542-01 **Client ID:** MC0AA0D
Percent Solids for Sample: 0 **Duplicate ID** J1542-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	10.0	U	1.6	U			CN