

Daily Analysis Runlog For Sequence/QC Batch ID # LB92982

Review By		Review On				
SubDirectory		LB92982		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61350,WP61351,WP61352,WP61353,WP61354,WP61355				
ICV Standard		WP61356				
CCV Standard		WP61357				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61433,WP59958,WP58653				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/30/18 07:47		OK
2	S5.0	S5.0	CAL2	01/30/18 07:47		OK
3	S10.0	S10.0	CAL3	01/30/18 07:47		OK
4	S100.0	S100.0	CAL4	01/30/18 07:47		OK
5	S250.0	S250.0	CAL5	01/30/18 07:47		OK
6	S500.0	S500.0	CAL6	01/30/18 07:47		OK
7	ICV	ICV	ICV	01/30/18 08:13		OK
8	ICB	ICB	ICB	01/30/18 08:13		OK
9	CCV001	CCV001	CCV	01/30/18 08:13		OK
10	CCB001	CCB001	CCB	01/30/18 08:13		OK
11	PB106065BL	PBW005	MB	01/30/18 08:13		OK
12	PB106066BL	PBS006	MB	01/30/18 08:13		OK
13	J1323-10	MX2C00	SAM	01/30/18 08:42		OK
14	J1323-11	MX2C00D	DUP	01/30/18 08:42		OK
15	J1323-12	MX2C00S	MS	01/30/18 08:42		OK
16	J1323-19	MX2C03	SAM	01/30/18 08:42		OK
17	J1323-20	MX2C03D	DUP	01/30/18 08:42		OK
18	J1323-21	MX2C03S	MS	01/30/18 08:42		OK
19	CCV002	CCV002	CCV	01/30/18 08:43		OK
20	CCB002	CCB002	CCB	01/30/18 08:43		OK



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92982	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C00	SDG No.:	LB92982
Lab Sample ID:	J1323-10	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	219		1	2.1	5	10	ug/L	01/26/2018	01/30/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92982	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C03	SDG No.:	LB92982
Lab Sample ID:	J1323-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	1.6		1	0.11	0.012	0.5	mg/kg	01/26/2018	01/30/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92982	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	MX2C03	SDG No.:	LB92982
Lab Sample ID:	J1323-19	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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



Hit Summary Sheet
SW-846

SDG No.:

LB92982

Order ID:

LB92982

Client:

LB92982

Project ID:

LB92982

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : J1323-10	MX2C00 MX2C00	WATER	Cyanide	219.000		2.1	5	10	ug/L
Client ID : J1323-19	MX2C03 MX2C03								
		Solid	Cyanide	1.600		0.11	0.25	0.5	mg/kg



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB92982 SDG No.: LB92982
Contract: Lab Code: CHEM Method:
Case No.: LB92982 SAS No.: LB92982

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB106065								
PB106065BL	PBW005	MB	SOLID	01/30/2018		1.00	50.0	100.00
J1323-19	MX2C03	SAM	SOLID	01/30/2018		1.01	50.0	100.00
J1323-20	MX2C03D	DUP	SOLID	01/30/2018		1.02	50.0	100.00
J1323-21	MX2C03S	MS	SOLID	01/30/2018		1.03	50.0	100.00

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SAMPLE PREPARATION SUMMARY

Client:	<u>LB92982</u>	SDG No.:	<u>LB92982</u>
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>
		Method:	<u> </u>
		Case No.:	<u>LB92982</u>
		SAS No.:	<u>LB92982</u>

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB106066								
PB106066BL	PBS006	MB	WATER	01/30/2018		50.0	50.0	
J1323-10	MX2C00	SAM	WATER	01/30/2018		50.0	50.0	
J1323-11	MX2C00D	DUP	WATER	01/30/2018		50.0	50.0	
J1323-12	MX2C00S	MS	WATER	01/30/2018		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92982 Contract: _____
Lab Code: CHEM Case No.: LB92982 MA No.: _____ SDG No.: LB92982
Instrument ID: CN Start Date: 01/30/2018
Analytical Method: _____ Run Batch: LB92982.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.54	0	5	4.9	-2	10	10.1	1

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB92982 Contract: _____
Lab Code: CHEM Case No.: LB92982 MA No.: _____ SDG No.: LB92982
Instrument ID: CN Start Date: 01/30/2018
Analytical Method: _____ Run Batch: LB92982.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	99.7	0	250	249	0	500	500	0



Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92982

SDG No.: LB92982

Contract: _____ **Lab Code:** CHEM

Case No.: LB92982

SAS No.: LB92982

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	97.3	99	98	0	85 - 115	CN	01/30/2018	08:13	LB92982



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92982

SDG No.: LB92982

Contract: _____ Lab Code: CHEM

Case No.: LB92982

SAS No.: LB92982

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	238	250	95	0	85 - 115	CN	01/30/2018	08:13	LB92982
CCV002	Cyanide	244	250	98	0	85 - 115	CN	01/30/2018	08:43	LB92982



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92982 **SDG No.:** LB92982
Contract: **Lab Code:** CHEM **Case No.:** LB92982 **SAS No.:** LB92982

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.32	+/-10.0	U	5.0	10.0	CN	01/30/2018	08:13	LB92982



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92982

SDG No.: LB92982

Contract:

Lab Code: CHEM

Case No.: LB92982

SAS No.: LB92982

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.022	+/-10.0	U	5.0	10.0	CN	01/30/2018	08:13	LB92982
CCB002	Cyanide	1.1	+/-10.0	U	5.0	10.0	CN	01/30/2018	08:43	LB92982



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92982

SDG No.: LB92982

Contract: Lab Code: CHEM

Case No.: LB92982

SAS No.: LB92982

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

Client: LB92982

SDG No.: LB92982

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB106065BL	SOLID		Batch Number:		PB106065		Prep Date:		01/26/2018	
	Cyanide	0.008	<0.5	U	0.013	0.5	CN	01/30/2018	08:13	LB92982
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB106066BL	WATER		Batch Number:		PB106066		Prep Date:		01/26/2018	
	Cyanide	0.017	<10	U	5.0	10	CN	01/30/2018	08:13	LB92982



metals
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MATRIX SPIKE SUMMARY

client: LB92982 level: low sdg no.: LB92982
contract: lab code: CHEM case no.: LB92982 sas no.: LB92982
matrix: WATER sample id: J1323-10 client id: MX2C00S
Percent Solids for Sample: 0 Spiked ID: J1323-12 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	303		219		100	84		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB92982 level: low sdg no.: LB92982
contract: lab code: CHEM case no.: LB92982 sas no.: LB92982
matrix: Solid sample id: J1323-19 client id: MX2C03S
Percent Solids for Sample: 100 Spiked ID: J1323-21 Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.4		1.6		4.9	100		CN



Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB92982 Level: LOW SDG No.: LB92982
Contract: _____ Lab Code: CHEM Case No.: LB92982 SAS No.: LB92982
Matrix: WATER Sample ID: J1323-10 Client ID: MX2C00D
Percent Solids for Sample: 0 Duplicate ID J1323-11 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	219		227		4		CN

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB92982 **Level:** LOW **SDG No.:** LB92982
Contract: **Lab Code:** CHEM **Case No.:** LB92982 **SAS No.:** LB92982
Matrix: Solid **Sample ID:** J1323-19 **Client ID:** MX2C03D
Percent Solids for Sample: 100 **Duplicate ID** J1323-20 **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	1.6		1.5		6		CN