

Daily Analysis Runlog For Sequence/QC Batch ID # LB89989

Review By		Review On				
SubDirectory		LB89989		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57824,WP57821,WP57819,WP57818,WP57817,WP57816				
ICV Standard		WP57825				
CCV Standard		WP57826				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57849,WP55836,WP53945				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	09/11/17 09:08		OK
2	S5.0	S5.0	CAL2	09/11/17 09:08		OK
3	S10.0	S10.0	CAL3	09/11/17 09:08		OK
4	S100.0	S100.0	CAL4	09/11/17 09:08		OK
5	S250.0	S250.0	CAL5	09/11/17 09:08		OK
6	S500.0	S500.0	CAL6	09/11/17 09:08		OK
7	ICV	ICV	ICV	09/11/17 09:43		OK
8	ICB	ICB	ICB	09/11/17 09:43		OK
9	CCV001	CCV001	CCV	09/11/17 09:43		OK
10	CCB001	CCB001	CCB	09/11/17 09:43		OK
11	PB102138BL	PBS006	MB	09/11/17 09:43		OK
12	I5150-23	MX2B06D	DUP	09/11/17 09:43		OK
13	I5150-22	MX2B06	SAM	09/11/17 09:43		OK
14	I5150-24	MX2B06S	MS	09/11/17 09:43		OK
15	PB102139BL	PBW005	MB	09/11/17 09:43		OK
16	I5150-11	MX2B02D	DUP	09/11/17 09:43		OK
17	I5150-10	MX2B02	SAM	09/11/17 09:43		OK
18	I5150-12	MX2B02S	MS	09/11/17 09:49		OK
19	CCV002	CCV002	CCV	09/11/17 09:49		OK
20	CCB002	CCB002	CCB	09/11/17 09:49		OK



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89989	Date Received:	9/7/2017 12:00:00 AM
Client Sample ID:	MX2B02	SDG No.:	LB89989
Lab Sample ID:	I5150-10	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	143		1	1.5	5	10	ug/L	09/08/2017	09/11/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89989	Date Received:	9/7/2017 12:00:00 AM
Client Sample ID:	MX2B06	SDG No.:	LB89989
Lab Sample ID:	I5150-22	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	5.2		1	0.053	0.012	0.49	mg/kg	09/08/2017	09/11/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/6/2017 12:00:00 AM
Project:	LB89989	Date Received:	9/7/2017 12:00:00 AM
Client Sample ID:	MX2B06	SDG No.:	LB89989
Lab Sample ID:	I5150-22	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



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89989

SDG No.: LB89989

Contract: **Lab Code:** CHEM

Case No.: LB89989 **SAS No.:** LB89989

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		ug/L								
ICV	Cyanide	98.4	99	99	0	85 - 115	CN	09/11/2017	09:43	LB89989



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89989 **SDG No.:** LB89989
Contract: **Lab Code:** CHEM **Case No.:** LB89989 **SAS No.:** LB89989
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	247	250	99	0	85 - 115	CN	09/11/2017	09:43	LB89989
CCV002	Cyanide	252	250	101	0	85 - 115	CN	09/11/2017	09:49	LB89989



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89989 **SDG No.:** LB89989
Contract: **Lab Code:** CHEM **Case No.:** LB89989 **SAS No.:** LB89989

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	09/11/2017	09:43	LB89989



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89989

SDG No.: LB89989

Contract:

Lab Code: CHEM

Case No.: LB89989

SAS No.: LB89989

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	09/11/2017	09:43	LB89989
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	09/11/2017	09:49	LB89989



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB89989

SDG No.:

LB89989

Contract:

Lab Code:

CHEM

Case No.:

LB89989

SAS No.:

LB89989

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: LB89989

SDG No.: LB89989

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB102138BL	SOLID		Batch Number:		PB102138		Prep Date:		09/08/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	09/11/2017	09:43	LB89989
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB102139BL	WATER		Batch Number:		PB102139		Prep Date:		09/08/2017	
	Cyanide	0.3	<10	U	5.0	10	CN	09/11/2017	09:43	LB89989



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89989 level: low sdg no.: LB89989
contract: lab code: CHEM case no.: LB89989 sas no.: LB89989
matrix: WATER sample id: I5150-10 client id: MX2B02S
Percent Solids for Sample: 0 Spiked ID: I5150-12 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	231		143		100	88		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89989 level: low sdg no.: LB89989
contract: lab code: CHEM case no.: LB89989 sas no.: LB89989
matrix: Solid sample id: I5150-22 client id: MX2B06S
Percent Solids for Sample: 100 Spiked ID: I5150-24 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	9.1		5.2		4.8	81		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB89989 **Level:** LOW **SDG No.:** LB89989
Contract: **Lab Code:** CHEM **Case No.:** LB89989 **SAS No.:** LB89989
Matrix: WATER **Sample ID:** I5150-10 **Client ID:** MX2B02D
Percent Solids for Sample: 0 **Duplicate ID** I5150-11 **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	143		129		10		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB89989 **Level:** LOW **SDG No.:** LB89989
Contract: **Lab Code:** CHEM **Case No.:** LB89989 **SAS No.:** LB89989
Matrix: Solid **Sample ID:** I5150-22 **Client ID:** MX2B06D
Percent Solids for Sample: 100 **Duplicate ID** I5150-23 **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	5.2		4.6		12		CN

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89989 Contract: _____
Lab Code: CHEM Case No.: LB89989 MA No.: _____ SDG No.: LB89989
Instrument ID: CN Start Date: 09/11/2017
Analytical Method: _____ Run Batch: LB89989.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	3.6	-28	10	8.6	-14

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89989 Contract: _____
Lab Code: CHEM Case No.: LB89989 MA No.: _____ SDG No.: LB89989
Instrument ID: CN Start Date: 09/11/2017
Analytical Method: _____ Run Batch: LB89989.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	103	3	250	253	1	500	498	0