

Daily Analysis Runlog For Sequence/QC Batch ID # LB86256

Review By		Review On				
SubDirectory		LB86256		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP53375,WP53374,WP53373,WP53372,WP53371,WP53370				
ICV Standard		WP53376				
CCV Standard		WP53377				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP53380,WP50159,WP51276				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	03/08/17 09:06		OK
2	S5.0	S5.0	CAL2	03/08/17 09:06		OK
3	S10.0	S10.0	CAL3	03/08/17 09:06		OK
4	S100.0	S100.0	CAL4	03/08/17 09:06		OK
5	S250.0	S250.0	CAL5	03/08/17 09:06		OK
6	S500.0	S500.0	CAL6	03/08/17 09:06		OK
7	ICV	ICV	ICV	03/08/17 12:40		OK
8	ICB	ICB	ICB	03/08/17 12:40		OK
9	CCV001	CCV001	CCV	03/08/17 12:40		OK
10	CCB001	CCB001	CCB	03/08/17 12:40		OK
11	PB97403BL	PBW005	MB	03/08/17 12:40		OK
12	I2084-10	MX2880	SAM	03/08/17 12:40		OK
13	I2084-11	MX2880D	DUP	03/08/17 12:40		OK
14	I2084-12	MX2880S	MS	03/08/17 12:40		OK
15	PB97405BL	PBS006	MB	03/08/17 12:45		OK
16	I2084-22	MX2884	SAM	03/08/17 12:45		OK
17	I2084-23	MX2884D	DUP	03/08/17 12:45		OK
18	I2084-24	MX2884S	MS	03/08/17 12:45		OK
19	CCV002	CCV002	CCV	03/08/17 12:45		OK
20	CCB002	CCB002	CCB	03/08/17 12:45		OK

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86256**SDG No.:** LB86256**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86256**SAS No.:** LB86256**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	95.2	99	96	0	85 - 115	CN	03/08/2017	12:40	LB86256



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86256

SDG No.: LB86256

Contract: _____ Lab Code: CHEM

Case No.: LB86256

SAS No.: LB86256

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	241	250	96	0	85 - 115	CN	03/08/2017	12:40	LB86256
CCV002	Cyanide	250	250	100	0	85 - 115	CN	03/08/2017	12:45	LB86256



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86256 **SDG No.:** LB86256
Contract: **Lab Code:** CHEM **Case No.:** LB86256 **SAS No.:** LB86256

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	03/08/2017	12:40	LB86256



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86256

SDG No.: LB86256

Contract:

Lab Code: CHEM

Case No.: LB86256

SAS No.: LB86256

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	03/08/2017	12:40	LB86256
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	03/08/2017	12:45	LB86256



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86256

SDG No.: LB86256

Contract: Lab Code: CHEM

Case No.: LB86256

SAS No.: LB86256

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86256	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MX2880	SDG No.:	LB86256
Lab Sample ID:	I2084-10	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	77.4		1	1.5	5	10	ug/L	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86256	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MX2884	SDG No.:	LB86256
Lab Sample ID:	I2084-22	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	3.5		1	0.053	0.012	0.49	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/1/2017 12:00:00 AM
Project:	LB86256	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MX2884	SDG No.:	LB86256
Lab Sample ID:	I2084-22	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
- 3b -
PREPARATION BLANK SUMMARY

Client: LB86256

SDG No.: LB86256

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB97403BL	WATER		Batch Number:		PB97403		Prep Date:		03/07/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	03/08/2017	12:40	LB86256
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB97405BL	SOLID		Batch Number:		PB97405		Prep Date:		03/07/2017	
	Cyanide	0.055	<0.5	J	0.013	0.5	CN	03/08/2017	12:45	LB86256



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86256 level: low sdg no.: LB86256
contract: lab code: CHEM case no.: LB86256 sas no.: LB86256
matrix: WATER sample id: I2084-10 client id: MX2880S
Percent Solids for Sample: 0 Spiked ID: I2084-12 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	166		77.4		100	89		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86256 level: low sdg no.: LB86256
contract: lab code: CHEM case no.: LB86256 sas no.: LB86256
matrix: Solid sample id: I2084-22 client id: MX2884S
Percent Solids for Sample: 100 Spiked ID: I2084-24 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	7.9		3.5		4.8	92		CN



Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86256 Level: LOW SDG No.: LB86256
Contract: Lab Code: CHEM Case No.: LB86256 SAS No.: LB86256
Matrix: WATER Sample ID: I2084-10 Client ID: MX2880D
Percent Solids for Sample: 0 Duplicate ID I2084-11 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	77.4		76.3		1		CN

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

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86256 **Level:** LOW **SDG No.:** LB86256
Contract: **Lab Code:** CHEM **Case No.:** LB86256 **SAS No.:** LB86256
Matrix: Solid **Sample ID:** I2084-22 **Client ID:** MX2884D
Percent Solids for Sample: 100 **Duplicate ID** I2084-23 **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	3.5		3.6		3		CN

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client:	LB86256	SDG No.:	LB86256
Contract:		Lab Code:	CHEM
		Method:	
		Case No.:	LB86256
		SAS No.:	LB86256

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB97403								
PB97403BL	PBW005	MB	WATER	03/08/2017		50.0	50.0	
I2084-10	MX2880	SAM	WATER	03/08/2017		50.0	50.0	
I2084-11	MX2880D	DUP	WATER	03/08/2017		50.0	50.0	
I2084-12	MX2880S	MS	WATER	03/08/2017		50.0	50.0	

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB86256</u>	SDG No.: <u>LB86256</u>	
Contract: <u> </u>	Lab Code: <u>CHEM</u>	Method: <u> </u>
	Case No.: <u>LB86256</u>	SAS No.: <u>LB86256</u>

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB97405								
PB97405BL	PBS006	MB	SOLID	03/08/2017		1.00	50.0	100.00
I2084-22	MX2884	SAM	SOLID	03/08/2017		1.03	50.0	100.00
I2084-23	MX2884D	DUP	SOLID	03/08/2017		1.02	50.0	100.00
I2084-24	MX2884S	MS	SOLID	03/08/2017		1.05	50.0	100.00