

Daily Analysis Runlog For Sequence/QC Batch ID # LB86162

Review By		Review On				
SubDirectory		LB86162		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP53338,WP53337,WP53336,WP653335,WP53334,WP53333				
ICV Standard		WP53339				
CCV Standard		WP53340				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP53341,WP50159,WP51626				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	03/06/17 09:38		OK
2	S5.0	S5.0	CAL2	03/06/17 09:38		OK
3	S10.0	S10.0	CAL3	03/06/17 09:38		OK
4	S100.0	S100.0	CAL4	03/06/17 09:38		OK
5	S250.0	S250.0	CAL5	03/06/17 09:38		OK
6	S500.0	S500.0	CAL6	03/06/17 09:38		OK
7	ICV	ICV	ICV	03/06/17 10:04		OK
8	ICB	ICB	ICB	03/06/17 10:04		OK
9	CCV001	CCV001	CCV	03/06/17 10:04		OK
10	CCB001	CCB001	CCB	03/06/17 10:04		OK
11	PB97331BL	PBS006	MB	03/06/17 10:04		OK
12	I2032-01	MBC874	SAM	03/06/17 10:04		OK
13	I2032-02	MBC874D	DUP	03/06/17 10:04		OK
14	I2032-03	MBC874S	MS	03/06/17 10:04		OK
15	I2032-04	MBC875	SAM	03/06/17 10:04		OK
16	I2032-05	MBC876	SAM	03/06/17 10:04		OK
17	I2032-06	MBC877	SAM	03/06/17 10:04		OK
18	CCV002	CCV002	CCV	03/06/17 10:08		OK
19	CCB002	CCB002	CCB	03/06/17 10:08		OK

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86162**SDG No.:** LB86162**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86162**SAS No.:** LB86162**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	92.4	99	93	0	85 - 115	CN	03/06/2017	10:04	LB86162

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86162**SDG No.:** LB86162**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86162**SAS No.:** LB86162**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	03/06/2017	10:04	LB86162
CCV002	Cyanide	254	250	102	0	85 - 115	CN	03/06/2017	10:08	LB86162



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86162 **SDG No.:** LB86162
Contract: **Lab Code:** CHEM **Case No.:** LB86162 **SAS No.:** LB86162

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.83	+/-10.0	U	5.0	10.0	CN	03/06/2017	10:04	LB86162



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86162

SDG No.: LB86162

Contract:

Lab Code: CHEM

Case No.: LB86162

SAS No.: LB86162

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.94	+/-10.0	U	5.0	10.0	CN	03/06/2017	10:04	LB86162
CCB002	Cyanide	0.61	+/-10.0	U	5.0	10.0	CN	03/06/2017	10:08	LB86162



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86162

SDG No.: LB86162

Contract: Lab Code: CHEM

Case No.: LB86162

SAS No.: LB86162

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:	2/28/2017 12:00:00 AM
Project:	LB86162	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	MBC874	SDG No.:	LB86162
Lab Sample ID:	I2032-01	Matrix:	Solid
Level (low/med):	low	% Solid:	62.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.084	0.019	0.77	mg/kg	03/03/2017	03/06/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86162	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	MBC875	SDG No.:	LB86162
Lab Sample ID:	I2032-04	Matrix:	Solid
Level (low/med):	low	% Solid:	62.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.097	J	1	0.083	0.019	0.76	mg/kg	03/03/2017	03/06/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86162	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	MBC876	SDG No.:	LB86162
Lab Sample ID:	I2032-05	Matrix:	Solid
Level (low/med):	low	% Solid:	63.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.082	0.019	0.75	mg/kg	03/03/2017	03/06/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86162	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	MBC877	SDG No.:	LB86162
Lab Sample ID:	I2032-06	Matrix:	Solid
Level (low/med):	low	% Solid:	60.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.055	U	1	0.086	0.02	0.79	mg/kg	03/03/2017	03/06/2017	ISM02.2_CN



Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86162	Date Received:	2/28/2017 12:00:00 AM
Client Sample ID:	MBC877	SDG No.:	LB86162
Lab Sample ID:	I2032-06	Matrix:	Solid
Level (low/med):	low	% Solid:	60.6

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



SDG No.: LB86162

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB97331BL		SOLID		Batch Number:		PB97331		Prep Date:	03/03/2017	
	Cyanide	0.036	<0.5	U	0.013	0.5	CN	03/06/2017	10:04	LB86162



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86162 level: low sdg no.: LB86162
contract: lab code: CHEM case no.: LB86162 sas no.: LB86162
matrix: Solid sample id: I2032-01 client id: MBC874S
Percent Solids for Sample: 62.2 Spiked ID: I2032-03 Percent Solids for Spike Sample: 62.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.3		0.16	J	8	77		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86162 **Level:** LOW **SDG No.:** LB86162
Contract: **Lab Code:** CHEM **Case No.:** LB86162 **SAS No.:** LB86162
Matrix: Solid **Sample ID:** I2032-01 **Client ID:** MBC874D
Percent Solids for Sample: 62.2 **Duplicate ID** I2032-02 **Percent Solids for Spike Sample:** 62.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.16	J	0.18	J	12		CN

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB86162</u>	SDG No.: <u>LB86162</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86162</u>	SAS No.: <u>LB86162</u>

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB97331								
PB97331BL	PBS006	MB	SOLID	03/06/2017		1.00	50.0	100.00
I2032-01	MBC874	SAM	SOLID	03/06/2017		1.05	50.0	62.20
I2032-02	MBC874D	DUP	SOLID	03/06/2017		1.05	50.0	62.20
I2032-03	MBC874S	MS	SOLID	03/06/2017		1.01	50.0	62.20
I2032-04	MBC875	SAM	SOLID	03/06/2017		1.05	50.0	62.80
I2032-05	MBC876	SAM	SOLID	03/06/2017		1.05	50.0	63.80
I2032-06	MBC877	SAM	SOLID	03/06/2017		1.05	50.0	60.60