

Daily Analysis Runlog For Sequence/QC Batch ID # LB85396

Review By		Review On				
SubDirectory		LB85396		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52210,WP52209,WP52208,WP52207,WP52206,WP52205				
ICV Standard		WP52211				
CCV Standard		WP52212				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52258,WP51626,WP50159,WP51099				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/18/17 09:30		OK
2	S5.0	S5.0	CAL2	01/18/17 09:30		OK
3	S10.0	S10.0	CAL3	01/18/17 09:30		OK
4	S100.0	S100.0	CAL4	01/18/17 09:30		OK
5	S250.0	S250.0	CAL5	01/18/17 09:30		OK
6	S500.0	S500.0	CAL6	01/18/17 09:30		OK
7	ICV	ICV	ICV	01/18/17 11:28		OK
8	ICB	ICB	ICB	01/18/17 11:28		OK
9	CCV001	CCV001	CCV	01/18/17 11:28		OK
10	CCB001	CCB001	CCB	01/18/17 11:28		OK
11	PB96067BL	PBS006	MB	01/18/17 11:28		OK
12	I1133-01	ME5BL5	SAM	01/18/17 11:28		OK
13	I1133-02	ME5BL6	SAM	01/18/17 11:28		OK
14	I1133-03	ME5BL7	SAM	01/18/17 11:28		OK
15	I1133-04	ME5BL8	SAM	01/18/17 11:28		OK
16	I1133-05	ME5BL9	SAM	01/18/17 11:28		OK
17	I1133-06	ME5BM0	SAM	01/18/17 11:28		OK
18	I1133-07	ME5BM1	SAM	01/18/17 11:35		OK
19	I1133-08	ME5BM2	SAM	01/18/17 11:35		OK
20	I1133-09	ME5BM3	SAM	01/18/17 11:35		OK
21	I1133-10	ME5BM4	SAM	01/18/17 11:35		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB85396

Review By			Review On			
SubDirectory		LB85396		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52210,WP52209,WP52208,WP52207,WP52206,WP52205 WP52211 WP52212 WP52258,WP51626,WP50159,WP51099				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard						
22	I1133-11	ME5BM5	SAM	01/18/17 11:35		OK
23	I1133-12	ME5BM6	SAM	01/18/17 11:35		OK
24	I1133-13	ME5BM7	SAM	01/18/17 11:35		OK
25	I1133-14	ME5BM8	SAM	01/18/17 11:35		OK
26	I1133-15	ME5BM9	SAM	01/18/17 11:35		OK
27	I1133-16	ME5BN0	SAM	01/18/17 11:35		OK
28	I1133-17	ME5BN1	SAM	01/18/17 11:35		OK
29	I1133-18	ME5BN2	SAM	01/18/17 11:41		OK
30	I1133-19	ME5BN3	SAM	01/18/17 11:41		OK
31	I1133-20	ME5BN4	SAM	01/18/17 11:41		OK
32	I1133-21	ME5BN4D	DUP	01/18/17 11:42		OK
33	I1133-22	ME5BN4S	MS	01/18/17 11:42		OK
34	CCV002	CCV002	CCV	01/18/17 11:42		OK
35	CCB002	CCB002	CCB	01/18/17 11:42		OK



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Report of Analysis

Client:		Date Collected:	12/14/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BL5	SDG No.:	LB85396
Lab Sample ID:	I1133-01	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.059	J	1	0.053	0.012	0.48	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/12/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BL6	SDG No.:	LB85396
Lab Sample ID:	I1133-02	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.053	0.012	0.48	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/12/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BL7	SDG No.:	LB85396
Lab Sample ID:	I1133-03	Matrix:	Solid
Level (low/med):	low	% Solid:	99.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/12/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BL8	SDG No.:	LB85396
Lab Sample ID:	I1133-04	Matrix:	Solid
Level (low/med):	low	% Solid:	99.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.064	J	1	0.055	0.013	0.51	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/14/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BL9	SDG No.:	LB85396
Lab Sample ID:	I1133-05	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/14/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM0	SDG No.:	LB85396
Lab Sample ID:	I1133-06	Matrix:	Solid
Level (low/med):	low	% Solid:	99.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.055	0.013	0.5	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM1	SDG No.:	LB85396
Lab Sample ID:	I1133-07	Matrix:	Solid
Level (low/med):	low	% Solid:	99

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.086	J	1	0.053	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM2	SDG No.:	LB85396
Lab Sample ID:	I1133-08	Matrix:	Solid
Level (low/med):	low	% Solid:	99.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM3	SDG No.:	LB85396
Lab Sample ID:	I1133-09	Matrix:	Solid
Level (low/med):	low	% Solid:	99.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.055	0.012	0.5	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM4	SDG No.:	LB85396
Lab Sample ID:	I1133-10	Matrix:	Solid
Level (low/med):	low	% Solid:	99.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.2	J	1	0.053	0.012	0.48	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM5	SDG No.:	LB85396
Lab Sample ID:	I1133-11	Matrix:	Solid
Level (low/med):	low	% Solid:	98.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.055	0.013	0.5	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/13/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/11/2017 12:00:00 AM
Client Sample ID:	ME5BM6	SDG No.:	LB85396
Lab Sample ID:	I1133-12	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	U	1	0.056	0.013	0.51	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/14/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BM7	SDG No.:	LB85396
Lab Sample ID:	I1133-13	Matrix:	Solid
Level (low/med):	low	% Solid:	99.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/14/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BM8	SDG No.:	LB85396
Lab Sample ID:	I1133-14	Matrix:	Solid
Level (low/med):	low	% Solid:	97.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.057	0.013	0.52	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BM9	SDG No.:	LB85396
Lab Sample ID:	I1133-15	Matrix:	Solid
Level (low/med):	low	% Solid:	98.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.089	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN0	SDG No.:	LB85396
Lab Sample ID:	I1133-16	Matrix:	Solid
Level (low/med):	low	% Solid:	99.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.053	0.012	0.48	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN1	SDG No.:	LB85396
Lab Sample ID:	I1133-17	Matrix:	Solid
Level (low/med):	low	% Solid:	99.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.27	J	1	0.053	0.012	0.48	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN2	SDG No.:	LB85396
Lab Sample ID:	I1133-18	Matrix:	Solid
Level (low/med):	low	% Solid:	99.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN3	SDG No.:	LB85396
Lab Sample ID:	I1133-19	Matrix:	Solid
Level (low/med):	low	% Solid:	99.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.55		1	0.055	0.012	0.5	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN4	SDG No.:	LB85396
Lab Sample ID:	I1133-20	Matrix:	Solid
Level (low/med):	low	% Solid:	99.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.054	0.012	0.49	mg/kg	01/17/2017	01/18/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	12/15/2016 12:00:00 AM
Project:	LB85396	Date Received:	1/14/2017 12:00:00 AM
Client Sample ID:	ME5BN4	SDG No.:	LB85396
Lab Sample ID:	I1133-20	Matrix:	Solid
Level (low/med):	low	% Solid:	99.8

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.: LB85396

Order ID: LB85396

Client: LB85396

Project ID: LB85396

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I1133-01	ME5BL5 ME5BL5	Solid	Cyanide	0.059	J	0.053	0.24	0.48	mg/kg
Client ID : I1133-02	ME5BL6 ME5BL6	Solid	Cyanide	0.120	J	0.053	0.24	0.48	mg/kg
Client ID : I1133-03	ME5BL7 ME5BL7	Solid	Cyanide	0.110	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-04	ME5BL8 ME5BL8	Solid	Cyanide	0.064	J	0.055	0.255	0.51	mg/kg
Client ID : I1133-05	ME5BL9 ME5BL9	Solid	Cyanide	0.080	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-06	ME5BM0 ME5BM0	Solid	Cyanide	0.140	J	0.055	0.25	0.5	mg/kg
Client ID : I1133-07	ME5BM1 ME5BM1	Solid	Cyanide	0.086	J	0.053	0.245	0.49	mg/kg
Client ID : I1133-08	ME5BM2 ME5BM2	Solid	Cyanide	0.140	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-09	ME5BM3 ME5BM3	Solid	Cyanide	0.190	J	0.055	0.25	0.5	mg/kg
Client ID : I1133-10	ME5BM4 ME5BM4	Solid	Cyanide	0.200	J	0.053	0.24	0.48	mg/kg
Client ID : I1133-11	ME5BM5 ME5BM5	Solid	Cyanide	0.180	J	0.055	0.25	0.5	mg/kg
Client ID : I1133-13	ME5BM7 ME5BM7	Solid	Cyanide	0.095	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-14	ME5BM8 ME5BM8	Solid	Cyanide	0.160	J	0.057	0.26	0.52	mg/kg
Client ID : I1133-15	ME5BM9 ME5BM9	Solid	Cyanide	0.089	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-16	ME5BN0 ME5BN0	Solid	Cyanide	0.120	J	0.053	0.24	0.48	mg/kg



Hit Summary Sheet
SW-846

SDG No.:

LB85396

Order ID:

LB85396

Client:

LB85396

Project ID:

LB85396

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I1133-17	ME5BN1 ME5BN1	Solid	Cyanide	0.270	J	0.053	0.24	0.48	mg/kg
Client ID : I1133-18	ME5BN2 ME5BN2	Solid	Cyanide	0.065	J	0.054	0.245	0.49	mg/kg
Client ID : I1133-19	ME5BN3 ME5BN3	Solid	Cyanide	0.550		0.055	0.25	0.5	mg/kg
Client ID : I1133-20	ME5BN4 ME5BN4	Solid	Cyanide	0.190	J	0.054	0.245	0.49	mg/kg

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB85396</u>	SDG No.: <u>LB85396</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB85396</u>	SAS No.: <u>LB85396</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB96067							
PB96067BL	PBS006	MB	SOLID	01/18/2017	1.02	50.0	100.00
I1133-01	ME5BL5	SAM	SOLID	01/18/2017	1.04	50.0	99.50
I1133-02	ME5BL6	SAM	SOLID	01/18/2017	1.04	50.0	99.50
I1133-03	ME5BL7	SAM	SOLID	01/18/2017	1.02	50.0	99.30
I1133-04	ME5BL8	SAM	SOLID	01/18/2017	1.00	50.0	99.10
I1133-05	ME5BL9	SAM	SOLID	01/18/2017	1.02	50.0	99.50
I1133-06	ME5BM0	SAM	SOLID	01/18/2017	1.00	50.0	99.20
I1133-07	ME5BM1	SAM	SOLID	01/18/2017	1.04	50.0	99.00
I1133-08	ME5BM2	SAM	SOLID	01/18/2017	1.02	50.0	99.40
I1133-09	ME5BM3	SAM	SOLID	01/18/2017	1.01	50.0	99.10
I1133-10	ME5BM4	SAM	SOLID	01/18/2017	1.05	50.0	99.50
I1133-11	ME5BM5	SAM	SOLID	01/18/2017	1.01	50.0	98.50
I1133-12	ME5BM6	SAM	SOLID	01/18/2017	1.03	50.0	95.40
I1133-13	ME5BM7	SAM	SOLID	01/18/2017	1.02	50.0	99.20
I1133-14	ME5BM8	SAM	SOLID	01/18/2017	1.00	50.0	97.10
I1133-15	ME5BM9	SAM	SOLID	01/18/2017	1.03	50.0	98.90
I1133-16	ME5BN0	SAM	SOLID	01/18/2017	1.05	50.0	99.20
I1133-17	ME5BN1	SAM	SOLID	01/18/2017	1.04	50.0	99.30
I1133-18	ME5BN2	SAM	SOLID	01/18/2017	1.02	50.0	99.80
I1133-19	ME5BN3	SAM	SOLID	01/18/2017	1.01	50.0	99.90
I1133-20	ME5BN4	SAM	SOLID	01/18/2017	1.02	50.0	99.80
I1133-21	ME5BN4D	DUP	SOLID	01/18/2017	1.01	50.0	99.80
I1133-22	ME5BN4S	MS	SOLID	01/18/2017	1.03	50.0	99.80

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85396 Contract: _____
Lab Code: CHEM Case No.: LB85396 MA No.: _____ SDG No.: LB85396
Instrument ID: CN Start Date: 01/18/2017
Analytical Method: _____ Run Batch: LB85396.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.76	0	5	5.6	12	10	10.3	3

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85396 Contract: _____
Lab Code: CHEM Case No.: LB85396 MA No.: _____ SDG No.: LB85396
Instrument ID: CN Start Date: 01/18/2017
Analytical Method: _____ Run Batch: LB85396.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	100	0	250	246	-2	500	502	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85396

SDG No.: LB85396

Contract: _____

Lab Code: CHEM

Case No.: LB85396

SAS No.: LB85396

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	93.4	99	94	0	85 - 115	CN	01/18/2017	11:28	LB85396



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85396

SDG No.: LB85396

Contract: _____ Lab Code: CHEM

Case No.: LB85396

SAS No.: LB85396

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	235	250	94	0	85 - 115	CN	01/18/2017	11:28	LB85396
CCV002	Cyanide	246	250	98	0	85 - 115	CN	01/18/2017	11:42	LB85396



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85396 **SDG No.:** LB85396
Contract: **Lab Code:** CHEM **Case No.:** LB85396 **SAS No.:** LB85396

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.99	+/-10.0	U	5.0	10.0	CN	01/18/2017	11:28	LB85396



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85396

SDG No.: LB85396

Contract:

Lab Code: CHEM

Case No.: LB85396

SAS No.: LB85396

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.2	+/-10.0	U	5.0	10.0	CN	01/18/2017	11:28	LB85396
CCB002	Cyanide	1.0	+/-10.0	U	5.0	10.0	CN	01/18/2017	11:42	LB85396



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB85396

SDG No.:

LB85396

Contract:

Lab Code:

CHEM

Case No.:

LB85396

SAS No.:

LB85396

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: LB85396

SDG No.: LB85396

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96067BL		SOLID		Batch Number:		PB96067		Prep Date:	01/17/2017	
	Cyanide	0.04	<0.49	U	0.012	0.49	CN	01/18/2017	11:28	LB85396



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85396 level: low sdg no.: LB85396
contract: lab code: CHEM case no.: LB85396 sas no.: LB85396
matrix: Solid sample id: I1133-20 client id: ME5BN4S
Percent Solids for Sample: 99.8 Spiked ID: I1133-22 Percent Solids for Spike Sample: 99.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.2		0.19	J	4.9	82		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85396 **Level:** LOW **SDG No.:** LB85396
Contract: **Lab Code:** CHEM **Case No.:** LB85396 **SAS No.:** LB85396
Matrix: Solid **Sample ID:** I1133-20 **Client ID:** ME5BN4D
Percent Solids for Sample: 99.8 **Duplicate ID** I1133-21 **Percent Solids for Spike Sample:** 99.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.19	J	0.18	J	5		CN