

Daily Analysis Runlog For Sequence/QC Batch ID # LB86255

Review By		Review On				
SubDirectory		LB86255		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 09:56		OK
8	ICB	ICB	ICB	03/08/17 09:56		OK
9	CCV001	CCV001	CCV	03/08/17 09:56		OK
10	CCB001	CCB001	CCB	03/08/17 09:56		OK
11	PB97401BL	PBS006	MB	03/08/17 09:56		OK
12	I2060-01	MC0AC2	SAM	03/08/17 09:56		OK
13	I2060-02	MC0AC3	SAM	03/08/17 09:56		OK
14	I2060-03	MC0AC4	SAM	03/08/17 10:03		OK
15	I2060-04	MC0AC5	SAM	03/08/17 10:03		OK
16	I2060-05	MC0AC6	SAM	03/08/17 10:03		OK
17	I2060-06	MC0AC7	SAM	03/08/17 10:03		OK
18	I2060-07	MC0AC8	SAM	03/08/17 10:03		OK
19	I2060-08	MC0AC9	SAM	03/08/17 10:03		OK
20	I2060-09	MC0AC9D	DUP	03/08/17 10:04		OK
21	I2060-10	MC0AC9S	MS	03/08/17 10:04		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB86255

Review By			Review On			
SubDirectory		LB86255		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				
22	I2060-11	MC0AD0	SAM	03/08/17 10:04		OK
23	I2060-12	MC0AD4	SAM	03/08/17 10:04		OK
24	I2060-13	MC0AD5	SAM	03/08/17 10:04		OK
25	I2060-14	MC0AD6	SAM	03/08/17 10:11		OK
26	I2060-15	MC0AD7	SAM	03/08/17 10:11		OK
27	I2060-16	MC0AF7	SAM	03/08/17 10:11		OK
28	I2060-17	MC0AK3	SAM	03/08/17 10:11		OK
29	I2060-18	MC0AK4	SAM	03/08/17 10:11		OK
30	I2060-19	MC0AK5	SAM	03/08/17 10:11		OK
31	I2060-20	MC0AK6	SAM	03/08/17 10:11		OK
32	I2060-21	MC0AK7	SAM	03/08/17 10:11		OK
33	I2060-22	MC0AK8	SAM	03/08/17 10:11		OK
34	PB97402BL	PBS006	MB	03/08/17 10:11		OK
35	I2068-01	MC0AC2	SAM	03/08/17 10:11		OK
36	I2068-02	MC0AG4	SAM	03/08/17 10:19		OK
37	I2068-03	MC0AG5	SAM	03/08/17 10:19		OK
38	I2068-04	MC0AG5D	DUP	03/08/17 10:19		OK
39	I2068-05	MC0AG5S	MS	03/08/17 10:19		OK
40	I2068-06	MC0AG7	SAM	03/08/17 10:19		OK
41	I2068-08	MC0AH0	SAM	03/08/17 10:19		OK
42	I2068-09	MC0AH1	SAM	03/08/17 10:19		OK
43	I2068-10	MC0AH3	SAM	03/08/17 10:19		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB86255

Review By			Review On			
SubDirectory		LB86255		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				
44	I2068-11	MC0AH5	SAM	03/08/17 10:19		OK
45	I2068-12	MC0AH7	SAM	03/08/17 10:19		OK
46	I2068-13	MC0AH9	SAM	03/08/17 10:26		OK
47	I2068-14	MC0AJ0	SAM	03/08/17 10:26		OK
48	I2068-15	MC0AA0	SAM	03/08/17 10:26		OK
49	I2068-16	MC0AJ1	SAM	03/08/17 10:26		OK
50	I2068-17	MC0AJ2	SAM	03/08/17 10:26		OK
51	I2068-18	MC0AJ3	SAM	03/08/17 10:26		OK
52	I2068-19	MC0AJ4	SAM	03/08/17 10:26		OK
53	I2068-20	MC0AJ5	SAM	03/08/17 10:26		OK
54	I2068-21	MC0AJ6	SAM	03/08/17 10:26		OK
55	I2068-22	MC0AJ7	SAM	03/08/17 10:26		OK
56	CCV002	CCV002	CCV	03/08/17 10:26		OK
57	CCB002	CCB002	CCB	03/08/17 10:32		OK
58	I2068-07	MC0AG9	SAM	03/08/17 10:57		OK
59	I2060-08A	MC0AC9A	PS	03/08/17 10:57		OK
60	I2068-03A	MC0AG5A	PS	03/08/17 10:57		OK
61	CCV003	CCV003	CCV	03/08/17 10:57		OK
62	CCB003	CCB003	CCB	03/08/17 10:57		OK

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86255**SDG No.:** LB86255**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86255 **SAS No.:** LB86255**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	94.8	99	96	0	85 - 115	CN	03/08/2017	09:56	LB86255

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB86255**SDG No.:** LB86255**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB86255**SAS No.:** LB86255**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	243	250	97	0	85 - 115	CN	03/08/2017	09:56	LB86255
CCV002	Cyanide	242	250	97	0	85 - 115	CN	03/08/2017	10:26	LB86255
CCV003	Cyanide	248	250	99	0	85 - 115	CN	03/08/2017	10:57	LB86255



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86255

SDG No.: LB86255

Contract:

Lab Code: CHEM

Case No.: LB86255

SAS No.: LB86255

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	09:56	LB86255



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86255

SDG No.: LB86255

Contract:

Lab Code: CHEM

Case No.: LB86255

SAS No.: LB86255

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	09:56	LB86255
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	03/08/2017	10:32	LB86255
CCB003	Cyanide	2.7	+/-10.0	J	5.0	10.0	CN	03/08/2017	10:57	LB86255



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86255

SDG No.: LB86255

Contract: Lab Code: CHEM

Case No.: LB86255

SAS No.: LB86255

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:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC2	SDG No.:	LB86255
Lab Sample ID:	I2060-01	Matrix:	Solid
Level (low/med):	low	% Solid:	36

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.15	0.033	1.3	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC3	SDG No.:	LB86255
Lab Sample ID:	I2060-02	Matrix:	Solid
Level (low/med):	low	% Solid:	41.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3	J	1	0.13	0.029	1.1	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC4	SDG No.:	LB86255
Lab Sample ID:	I2060-03	Matrix:	Solid
Level (low/med):	low	% Solid:	56.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.094	0.021	0.86	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC5	SDG No.:	LB86255
Lab Sample ID:	I2060-04	Matrix:	Solid
Level (low/med):	low	% Solid:	75.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.068	0.015	0.62	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC6	SDG No.:	LB86255
Lab Sample ID:	I2060-05	Matrix:	Solid
Level (low/med):	low	% Solid:	78.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.068	0.016	0.62	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC7	SDG No.:	LB86255
Lab Sample ID:	I2060-06	Matrix:	Solid
Level (low/med):	low	% Solid:	73.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.069	0.016	0.63	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC8	SDG No.:	LB86255
Lab Sample ID:	I2060-07	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	U	1	0.087	0.02	0.79	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC9	SDG No.:	LB86255
Lab Sample ID:	I2060-08	Matrix:	Solid
Level (low/med):	low	% Solid:	54.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.1	0.023	0.91	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AD0	SDG No.:	LB86255
Lab Sample ID:	I2060-11	Matrix:	Solid
Level (low/med):	low	% Solid:	62

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.088	0.02	0.8	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AD4	SDG No.:	LB86255
Lab Sample ID:	I2060-12	Matrix:	Solid
Level (low/med):	low	% Solid:	74

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.072	0.016	0.66	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AD5	SDG No.:	LB86255
Lab Sample ID:	I2060-13	Matrix:	Solid
Level (low/med):	low	% Solid:	61.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.085	0.019	0.77	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/28/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AD6	SDG No.:	LB86255
Lab Sample ID:	I2060-14	Matrix:	Solid
Level (low/med):	low	% Solid:	43.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.13	0.029	1.2	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AD7	SDG No.:	LB86255
Lab Sample ID:	I2060-15	Matrix:	Solid
Level (low/med):	low	% Solid:	39.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.13	0.03	1.2	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AF7	SDG No.:	LB86255
Lab Sample ID:	I2060-16	Matrix:	Solid
Level (low/med):	low	% Solid:	76.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.071	0.016	0.65	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/3/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK3	SDG No.:	LB86255
Lab Sample ID:	I2060-17	Matrix:	Solid
Level (low/med):	low	% Solid:	73.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.069	0.016	0.63	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/3/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK4	SDG No.:	LB86255
Lab Sample ID:	I2060-18	Matrix:	Solid
Level (low/med):	low	% Solid:	63.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.082	0.019	0.75	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK5	SDG No.:	LB86255
Lab Sample ID:	I2060-19	Matrix:	Solid
Level (low/med):	low	% Solid:	68.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.078	0.018	0.71	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK6	SDG No.:	LB86255
Lab Sample ID:	I2060-20	Matrix:	Solid
Level (low/med):	low	% Solid:	66.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.058	U	1	0.078	0.018	0.71	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/3/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK7	SDG No.:	LB86255
Lab Sample ID:	I2060-21	Matrix:	Solid
Level (low/med):	low	% Solid:	56.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.57	J	1	0.095	0.022	0.87	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN

Report of Analysis

Client:		Date Collected:	3/3/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AK8	SDG No.:	LB86255
Lab Sample ID:	I2060-22	Matrix:	Solid
Level (low/med):	low	% Solid:	66.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.08	0.018	0.73	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AC2	SDG No.:	LB86255
Lab Sample ID:	I2068-01	Matrix:	Solid
Level (low/med):	low	% Solid:	57.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.33	J	1	0.095	0.022	0.86	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AG4	SDG No.:	LB86255
Lab Sample ID:	I2068-02	Matrix:	Solid
Level (low/med):	low	% Solid:	30.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	28.9		1	0.17	0.038	1.5	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AG5	SDG No.:	LB86255
Lab Sample ID:	I2068-03	Matrix:	Solid
Level (low/med):	low	% Solid:	48.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.11	0.025	0.99	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AG7	SDG No.:	LB86255
Lab Sample ID:	I2068-06	Matrix:	Solid
Level (low/med):	low	% Solid:	64

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.08	0.018	0.72	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AG9	SDG No.:	LB86255
Lab Sample ID:	I2068-07	Matrix:	Solid
Level (low/med):	low	% Solid:	56.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.091	0.021	0.83	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH0	SDG No.:	LB86255
Lab Sample ID:	I2068-08	Matrix:	Solid
Level (low/med):	low	% Solid:	56.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.09	0.02	0.82	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH1	SDG No.:	LB86255
Lab Sample ID:	I2068-09	Matrix:	Solid
Level (low/med):	low	% Solid:	61.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.085	0.019	0.77	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH3	SDG No.:	LB86255
Lab Sample ID:	I2068-10	Matrix:	Solid
Level (low/med):	low	% Solid:	39.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.14	0.031	1.3	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH5	SDG No.:	LB86255
Lab Sample ID:	I2068-11	Matrix:	Solid
Level (low/med):	low	% Solid:	41.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.12	0.028	1.1	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH7	SDG No.:	LB86255
Lab Sample ID:	I2068-12	Matrix:	Solid
Level (low/med):	low	% Solid:	51.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.1	0.023	0.94	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AH9	SDG No.:	LB86255
Lab Sample ID:	I2068-13	Matrix:	Solid
Level (low/med):	low	% Solid:	68.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.005	U	1	0.075	0.017	0.68	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	2/27/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/2/2017 12:00:00 AM
Client Sample ID:	MC0AJ0	SDG No.:	LB86255
Lab Sample ID:	I2068-14	Matrix:	Solid
Level (low/med):	low	% Solid:	73.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.069	0.016	0.63	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:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AA0	SDG No.:	LB86255
Lab Sample ID:	I2068-15	Matrix:	Solid
Level (low/med):	low	% Solid:	80

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.064	0.015	0.58	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ1	SDG No.:	LB86255
Lab Sample ID:	I2068-16	Matrix:	Solid
Level (low/med):	low	% Solid:	67

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.075	0.017	0.69	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:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ2	SDG No.:	LB86255
Lab Sample ID:	I2068-17	Matrix:	Solid
Level (low/med):	low	% Solid:	70.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.073	0.017	0.66	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ3	SDG No.:	LB86255
Lab Sample ID:	I2068-18	Matrix:	Solid
Level (low/med):	low	% Solid:	69.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.076	0.017	0.69	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ4	SDG No.:	LB86255
Lab Sample ID:	I2068-19	Matrix:	Solid
Level (low/med):	low	% Solid:	65.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.2	J	1	0.08	0.018	0.73	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ5	SDG No.:	LB86255
Lab Sample ID:	I2068-20	Matrix:	Solid
Level (low/med):	low	% Solid:	71.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.025	U	1	0.074	0.017	0.68	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ6	SDG No.:	LB86255
Lab Sample ID:	I2068-21	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.061	0.014	0.56	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ7	SDG No.:	LB86255
Lab Sample ID:	I2068-22	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.065	0.015	0.59	mg/kg	03/07/2017	03/08/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	3/2/2017 12:00:00 AM
Project:	LB86255	Date Received:	3/4/2017 12:00:00 AM
Client Sample ID:	MC0AJ7	SDG No.:	LB86255
Lab Sample ID:	I2068-22	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

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: LB86255

SDG No.: LB86255

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB97401BL	SOLID		Batch Number:		PB97401		Prep Date:		03/07/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	03/08/2017	09:56	LB86255
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB97402BL	SOLID		Batch Number:		PB97402		Prep Date:		03/07/2017	
	Cyanide	0.037	<0.5	U	0.013	0.5	CN	03/08/2017	10:11	LB86255



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86255 level: low sdg no.: LB86255
contract: lab code: CHEM case no.: LB86255 sas no.: LB86255
matrix: Solid sample id: I2060-08 client id: MC0AC9S
Percent Solids for Sample: 54.3 Spiked ID: I2060-10 Percent Solids for Spike Sample: 54.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.4		0.91	U	8.6	74	*	CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB86255 level: low sdg no.: LB86255
contract: lab code: CHEM case no.: LB86255 sas no.: LB86255
matrix: Solid sample id: I2068-03 client id: MC0AG5S
Percent Solids for Sample: 48.9 Spiked ID: I2068-05 Percent Solids for Spike Sample: 48.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	6.8		0.99	U	9.6	71	*	CN



Sample ID: I2060-08 **Spiked ID:** I2060-08A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.7		0.91	U	1.8	94		CN



Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: LB86255

SDG No.: LB86255

Contract:

Lab Code: CHEM

Case No.: LB86255

SAS No.: LB86255

Matrix: Solid

Level: LOW

Client ID: MC0AG5A

Sample ID: I2068-03

Spiked ID: I2068-03A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.7		0.99	U	2.0	85		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB86255 **Level:** LOW **SDG No.:** LB86255
Contract: **Lab Code:** CHEM **Case No.:** LB86255 **SAS No.:** LB86255
Matrix: Solid **Sample ID:** I2060-08 **Client ID:** MC0AC9D
Percent Solids for Sample: 54.3 **Duplicate ID** I2060-09 **Percent Solids for Spike Sample:** 54.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.91	U		0	U		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB86255 **Level:** LOW **SDG No.:** LB86255
Contract: **Lab Code:** CHEM **Case No.:** LB86255 **SAS No.:** LB86255
Matrix: Solid **Sample ID:** I2068-03 **Client ID:** MC0AG5D
Percent Solids for Sample: 48.9 **Duplicate ID** I2068-04 **Percent Solids for Spike Sample:** 48.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.99	U		0	U		CN

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB86255</u>	SDG No.: <u>LB86255</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB86255</u>	SAS No.: <u>LB86255</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB97401							
PB97401BL	PBS006	MB	SOLID	03/08/2017	1.00	50.0	100.00
I2060-01	MC0AC2	SAM	SOLID	03/08/2017	1.04	50.0	36.00
I2060-02	MC0AC3	SAM	SOLID	03/08/2017	1.05	50.0	41.60
I2060-03	MC0AC4	SAM	SOLID	03/08/2017	1.03	50.0	56.80
I2060-04	MC0AC5	SAM	SOLID	03/08/2017	1.07	50.0	75.50
I2060-05	MC0AC6	SAM	SOLID	03/08/2017	1.03	50.0	78.10
I2060-06	MC0AC7	SAM	SOLID	03/08/2017	1.08	50.0	73.60
I2060-07	MC0AC8	SAM	SOLID	03/08/2017	1.02	50.0	62.20
I2060-08	MC0AC9	SAM	SOLID	03/08/2017	1.01	50.0	54.30
I2060-09	MC0AC9D	DUP	SOLID	03/08/2017	1.08	50.0	54.30
I2060-10	MC0AC9S	MS	SOLID	03/08/2017	1.07	50.0	54.30
I2060-11	MC0AD0	SAM	SOLID	03/08/2017	1.01	50.0	62.00
I2060-12	MC0AD4	SAM	SOLID	03/08/2017	1.03	50.0	74.00
I2060-13	MC0AD5	SAM	SOLID	03/08/2017	1.06	50.0	61.30
I2060-14	MC0AD6	SAM	SOLID	03/08/2017	1.00	50.0	43.50
I2060-15	MC0AD7	SAM	SOLID	03/08/2017	1.06	50.0	39.30
I2060-16	MC0AF7	SAM	SOLID	03/08/2017	1.01	50.0	76.50
I2060-17	MC0AK3	SAM	SOLID	03/08/2017	1.08	50.0	73.60
I2060-18	MC0AK4	SAM	SOLID	03/08/2017	1.05	50.0	63.70
I2060-19	MC0AK5	SAM	SOLID	03/08/2017	1.02	50.0	68.90
I2060-20	MC0AK6	SAM	SOLID	03/08/2017	1.06	50.0	66.70
I2060-21	MC0AK7	SAM	SOLID	03/08/2017	1.02	50.0	56.70
I2060-22	MC0AK8	SAM	SOLID	03/08/2017	1.03	50.0	66.80



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB86255 SDG No.: LB86255
Contract: Lab Code: CHEM Method:
Case No.: LB86255 SAS No.: LB86255

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB97402							
PB97402BL	PBS006	MB	SOLID	03/08/2017	1.00	50.0	100.00
I2068-01	MC0AC2	SAM	SOLID	03/08/2017	1.01	50.0	57.30
I2068-02	MC0AG4	SAM	SOLID	03/08/2017	1.06	50.0	30.70
I2068-03	MC0AG5	SAM	SOLID	03/08/2017	1.03	50.0	48.90
I2068-04	MC0AG5D	DUP	SOLID	03/08/2017	1.04	50.0	48.90
I2068-05	MC0AG5S	MS	SOLID	03/08/2017	1.06	50.0	48.90
I2068-06	MC0AG7	SAM	SOLID	03/08/2017	1.08	50.0	64.00
I2068-08	MC0AH0	SAM	SOLID	03/08/2017	1.08	50.0	56.50
I2068-09	MC0AH1	SAM	SOLID	03/08/2017	1.06	50.0	61.20
I2068-10	MC0AH3	SAM	SOLID	03/08/2017	1.02	50.0	39.20
I2068-11	MC0AH5	SAM	SOLID	03/08/2017	1.06	50.0	41.70
I2068-12	MC0AH7	SAM	SOLID	03/08/2017	1.04	50.0	51.30
I2068-13	MC0AH9	SAM	SOLID	03/08/2017	1.07	50.0	68.80
I2068-14	MC0AJ0	SAM	SOLID	03/08/2017	1.08	50.0	73.70
I2068-15	MC0AA0	SAM	SOLID	03/08/2017	1.07	50.0	80.00
I2068-16	MC0AJ1	SAM	SOLID	03/08/2017	1.09	50.0	67.00
I2068-17	MC0AJ2	SAM	SOLID	03/08/2017	1.07	50.0	70.70
I2068-18	MC0AJ3	SAM	SOLID	03/08/2017	1.05	50.0	69.20
I2068-19	MC0AJ4	SAM	SOLID	03/08/2017	1.04	50.0	65.80
I2068-20	MC0AJ5	SAM	SOLID	03/08/2017	1.03	50.0	71.80
I2068-21	MC0AJ6	SAM	SOLID	03/08/2017	1.05	50.0	85.30
I2068-22	MC0AJ7	SAM	SOLID	03/08/2017	1.08	50.0	77.90
I2068-07	MC0AG9	SAM	SOLID	03/08/2017	1.07	50.0	56.60