

Daily Analysis Runlog For Sequence/QC Batch ID # LB87178

Review By		Review On				
SubDirectory		LB87178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54565,WP54564,WP54563,WP54562,WP54561,WP54560				
ICV Standard		WP54566				
CCV Standard		WP54567				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54544,WP51626,WP53945,WP53098				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/01/17 15:00		OK
2	S5.0	S5.0	CAL2	05/01/17 15:00		OK
3	S10.0	S10.0	CAL3	05/01/17 15:00		OK
4	S100.0	S100.0	CAL4	05/01/17 15:00		OK
5	S250.0	S250.0	CAL5	05/01/17 15:00		OK
6	S500.0	S500.0	CAL6	05/01/17 15:00		OK
7	ICV	ICV	ICV	05/01/17 16:19		OK
8	ICB	ICB	ICB	05/01/17 16:19		OK
9	CCV001	CCV001	CCV	05/01/17 16:19		OK
10	CCB001	CCB001	CCB	05/01/17 16:19		OK
11	PB98565BL	PBS006	MB	05/01/17 16:19		OK
12	I2866-02	MF4E03	SAM	05/01/17 16:19		OK
13	I2866-03	MF4E04	SAM	05/01/17 16:19		OK
14	I2866-04	MF4E05	SAM	05/01/17 16:19		OK
15	I2866-05	MF4E06	SAM	05/01/17 16:19		OK
16	I2866-06	MF4E07	SAM	05/01/17 16:27		OK
17	I2866-07	MF4D91	SAM	05/01/17 16:27		OK
18	I2866-08	MF4D91D	DUP	05/01/17 16:27		OK
19	I2866-09	MF4D91S	MS	05/01/17 16:27		OK
20	I2866-10	MF4D92	SAM	05/01/17 16:27		OK
21	I2866-11	MF4D93	SAM	05/01/17 16:27		OK

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STD. NAME		STD REF.#				
ICAL Standard		WP54565,WP54564,WP54563,WP54562,WP54561,WP54560				
ICV Standard		WP54566				
CCV Standard		WP54567				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54544,WP51626,WP53945,WP53098				
22	I2866-12	MF4D94	SAM	05/01/17 16:27		OK
23	I2866-13	MF4D95	SAM	05/01/17 16:27		OK
24	I2866-14	MF4D96	SAM	05/01/17 16:27		OK
25	I2866-15	MF4D97	SAM	05/01/17 16:27		OK
26	I2866-16	MF4D98	SAM	05/01/17 16:34		OK
27	I2866-17	MF4D99	SAM	05/01/17 16:34		OK
28	I2866-18	MF4E00	SAM	05/01/17 16:34		OK
29	I2866-19	MF4E01	SAM	05/01/17 16:34		OK
30	I2866-20	MF4E02	SAM	05/01/17 16:34		OK
31	PB98566BL	PBW005	MB	05/01/17 16:34		OK
32	I2866-01	MF4A10	SAM	05/01/17 16:34		OK
33	PB98575BL	PBS006	MB	05/01/17 16:34		OK
34	I2876-01	MF4C16	SAM	05/01/17 16:34		OK
35	I2876-02	MF4C16D	DUP	05/01/17 16:34		OK
36	I2876-03	MF4C16S	MS	05/01/17 16:35		OK
37	I2876-04	MF4C17	SAM	05/01/17 16:42		OK
38	I2876-05	MF4C18	SAM	05/01/17 16:42		OK
39	I2876-06	MF4C19	SAM	05/01/17 16:42		OK
40	I2876-07	MF4C20	SAM	05/01/17 16:42		OK
41	I2876-08	MF4C21	SAM	05/01/17 16:42		OK
42	I2876-09	MF4C22	SAM	05/01/17 16:42		OK
43	I2876-10	MF4C23	SAM	05/01/17 16:42		OK

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Review By		Review On				
SubDirectory		LB87178		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54565,WP54564,WP54563,WP54562,WP54561,WP54560				
ICV Standard		WP54566				
CCV Standard		WP54567				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54544,WP51626,WP53945,WP53098				
44	I2876-11	MF4C24	SAM	05/01/17 16:42		OK
45	I2876-12	MF4C25	SAM	05/01/17 16:42		OK
46	I2876-13	MF4C10	SAM	05/01/17 16:42		OK
47	I2876-14	MF4C11	SAM	05/01/17 16:42		OK
48	I2876-15	MF4C12	SAM	05/01/17 16:49		OK
49	I2876-16	MF4C13	SAM	05/01/17 16:49		OK
50	I2876-17	MF4C14	SAM	05/01/17 16:50		OK
51	I2876-18	MF4E27	SAM	05/01/17 16:50		OK
52	I2876-19	MF4E28	SAM	05/01/17 16:50		OK
53	I2876-20	MF4E29	SAM	05/01/17 16:50		OK
54	I2876-21	MF4E30	SAM	05/01/17 16:50		OK
55	I2876-22	MF4E31	SAM	05/01/17 16:50		OK
56	CCV002	CCV002	CCV	05/01/17 16:50		OK
57	CCB002	CCB002	CCB	05/01/17 16:50		OK
58	I2866-07A	MF4D91A	PS	05/01/17 17:05		OK
59	CCV003	CCV003	CCV	05/01/17 17:08		OK
60	CCB003	CCB003	CCB	05/01/17 17:08		OK



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4A10	SDG No.:	LB87178
Lab Sample ID:	I2866-01	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	0	U	1	1.5	5	10	ug/L	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E03	SDG No.:	LB87178
Lab Sample ID:	I2866-02	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E04	SDG No.:	LB87178
Lab Sample ID:	I2866-03	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E05	SDG No.:	LB87178
Lab Sample ID:	I2866-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.54	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E06	SDG No.:	LB87178
Lab Sample ID:	I2866-05	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.54	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E07	SDG No.:	LB87178
Lab Sample ID:	I2866-06	Matrix:	Solid
Level (low/med):	low	% Solid:	81.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.065	0.015	0.59	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D91	SDG No.:	LB87178
Lab Sample ID:	I2866-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D92	SDG No.:	LB87178
Lab Sample ID:	I2866-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.063	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D93	SDG No.:	LB87178
Lab Sample ID:	I2866-11	Matrix:	Solid
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D94	SDG No.:	LB87178
Lab Sample ID:	I2866-12	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D95	SDG No.:	LB87178
Lab Sample ID:	I2866-13	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D96	SDG No.:	LB87178
Lab Sample ID:	I2866-14	Matrix:	Solid
Level (low/med):	low	% Solid:	85.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D97	SDG No.:	LB87178
Lab Sample ID:	I2866-15	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D98	SDG No.:	LB87178
Lab Sample ID:	I2866-16	Matrix:	Solid
Level (low/med):	low	% Solid:	88.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.014	0.54	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4D99	SDG No.:	LB87178
Lab Sample ID:	I2866-17	Matrix:	Solid
Level (low/med):	low	% Solid:	90.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.059	0.013	0.53	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E00	SDG No.:	LB87178
Lab Sample ID:	I2866-18	Matrix:	Solid
Level (low/med):	low	% Solid:	88.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E01	SDG No.:	LB87178
Lab Sample ID:	I2866-19	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.058	0.013	0.53	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/25/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/26/2017 12:00:00 AM
Client Sample ID:	MF4E02	SDG No.:	LB87178
Lab Sample ID:	I2866-20	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	0.024	U	1	0.065	0.015	0.59	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C16	SDG No.:	LB87178
Lab Sample ID:	I2876-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.54	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C17	SDG No.:	LB87178
Lab Sample ID:	I2876-04	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C18	SDG No.:	LB87178
Lab Sample ID:	I2876-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C19	SDG No.:	LB87178
Lab Sample ID:	I2876-06	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C20	SDG No.:	LB87178
Lab Sample ID:	I2876-07	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C21	SDG No.:	LB87178
Lab Sample ID:	I2876-08	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C22	SDG No.:	LB87178
Lab Sample ID:	I2876-09	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	U	1	0.069	0.016	0.62	mg/kg	05/01/2017	05/01/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C23	SDG No.:	LB87178
Lab Sample ID:	I2876-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C24	SDG No.:	LB87178
Lab Sample ID:	I2876-11	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/27/2017 12:00:00 AM
Client Sample ID:	MF4C25	SDG No.:	LB87178
Lab Sample ID:	I2876-12	Matrix:	Solid
Level (low/med):	low	% Solid:	82.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.064	0.014	0.58	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4C10	SDG No.:	LB87178
Lab Sample ID:	I2876-13	Matrix:	Solid
Level (low/med):	low	% Solid:	82

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	0.59	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4C11	SDG No.:	LB87178
Lab Sample ID:	I2876-14	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4C12	SDG No.:	LB87178
Lab Sample ID:	I2876-15	Matrix:	Solid
Level (low/med):	low	% Solid:	85.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4C13	SDG No.:	LB87178
Lab Sample ID:	I2876-16	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4C14	SDG No.:	LB87178
Lab Sample ID:	I2876-17	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E27	SDG No.:	LB87178
Lab Sample ID:	I2876-18	Matrix:	Solid
Level (low/med):	low	% Solid:	79.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.067	0.015	0.61	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E28	SDG No.:	LB87178
Lab Sample ID:	I2876-19	Matrix:	Solid
Level (low/med):	low	% Solid:	81

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.065	0.015	0.59	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E29	SDG No.:	LB87178
Lab Sample ID:	I2876-20	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E30	SDG No.:	LB87178
Lab Sample ID:	I2876-21	Matrix:	Solid
Level (low/med):	low	% Solid:	80.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.065	0.015	0.59	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E31	SDG No.:	LB87178
Lab Sample ID:	I2876-22	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	05/01/2017	05/01/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87178	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E31	SDG No.:	LB87178
Lab Sample ID:	I2876-22	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

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.:

LB87178

Order ID:

LB87178

Client:

LB87178

Project ID:

LB87178

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	MF4D92								
I2866-10	MF4D92	Solid	Cyanide	0.170	J	0.063	0.285	0.57	mg/kg

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB87178</u>	SDG No.: <u>LB87178</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB87178</u>	SAS No.: <u>LB87178</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98565							
PB98565BL	PBS006	MB	SOLID	05/01/2017	1.02	50.0	100.00
I2866-02	MF4E03	SAM	SOLID	05/01/2017	1.06	50.0	85.70
I2866-03	MF4E04	SAM	SOLID	05/01/2017	1.04	50.0	85.50
I2866-04	MF4E05	SAM	SOLID	05/01/2017	1.06	50.0	87.20
I2866-05	MF4E06	SAM	SOLID	05/01/2017	1.04	50.0	89.50
I2866-06	MF4E07	SAM	SOLID	05/01/2017	1.05	50.0	81.20
I2866-07	MF4D91	SAM	SOLID	05/01/2017	1.05	50.0	86.30
I2866-08	MF4D91D	DUP	SOLID	05/01/2017	1.07	50.0	86.30
I2866-09	MF4D91S	MS	SOLID	05/01/2017	1.06	50.0	86.30
I2866-10	MF4D92	SAM	SOLID	05/01/2017	1.04	50.0	84.00
I2866-11	MF4D93	SAM	SOLID	05/01/2017	1.05	50.0	85.00
I2866-12	MF4D94	SAM	SOLID	05/01/2017	1.06	50.0	88.80
I2866-13	MF4D95	SAM	SOLID	05/01/2017	1.07	50.0	87.90
I2866-14	MF4D96	SAM	SOLID	05/01/2017	1.05	50.0	85.40
I2866-15	MF4D97	SAM	SOLID	05/01/2017	1.06	50.0	85.70
I2866-16	MF4D98	SAM	SOLID	05/01/2017	1.05	50.0	88.10
I2866-17	MF4D99	SAM	SOLID	05/01/2017	1.04	50.0	90.30
I2866-18	MF4E00	SAM	SOLID	05/01/2017	1.03	50.0	88.30
I2866-19	MF4E01	SAM	SOLID	05/01/2017	1.02	50.0	92.60
I2866-20	MF4E02	SAM	SOLID	05/01/2017	1.06	50.0	80.00



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB87178

SDG No.: LB87178

Contract:

Lab Code: CHEM

Method:

Case No.: LB87178

SAS No.: LB87178

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB98566								
PB98566BL	PBW005	MB	WATER	05/01/2017		50.0	50.0	
I2866-01	MF4A10	SAM	WATER	05/01/2017		50.0	50.0	

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB87178</u>	SDG No.: <u>LB87178</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB87178</u>	SAS No.: <u>LB87178</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB98575							
PB98575BL	PBS006	MB	SOLID	05/01/2017	1.00	50.0	100.00
I2876-01	MF4C16	SAM	SOLID	05/01/2017	1.05	50.0	87.70
I2876-02	MF4C16D	DUP	SOLID	05/01/2017	1.05	50.0	87.70
I2876-03	MF4C16S	MS	SOLID	05/01/2017	1.04	50.0	87.70
I2876-04	MF4C17	SAM	SOLID	05/01/2017	1.06	50.0	84.40
I2876-05	MF4C18	SAM	SOLID	05/01/2017	1.05	50.0	84.70
I2876-06	MF4C19	SAM	SOLID	05/01/2017	1.04	50.0	84.00
I2876-07	MF4C20	SAM	SOLID	05/01/2017	1.06	50.0	84.70
I2876-08	MF4C21	SAM	SOLID	05/01/2017	1.04	50.0	83.70
I2876-09	MF4C22	SAM	SOLID	05/01/2017	1.03	50.0	77.90
I2876-10	MF4C23	SAM	SOLID	05/01/2017	1.04	50.0	84.20
I2876-11	MF4C24	SAM	SOLID	05/01/2017	1.06	50.0	85.60
I2876-12	MF4C25	SAM	SOLID	05/01/2017	1.05	50.0	82.30
I2876-13	MF4C10	SAM	SOLID	05/01/2017	1.04	50.0	82.00
I2876-14	MF4C11	SAM	SOLID	05/01/2017	1.04	50.0	86.80
I2876-15	MF4C12	SAM	SOLID	05/01/2017	1.05	50.0	85.70
I2876-16	MF4C13	SAM	SOLID	05/01/2017	1.06	50.0	86.60
I2876-17	MF4C14	SAM	SOLID	05/01/2017	1.04	50.0	84.80
I2876-18	MF4E27	SAM	SOLID	05/01/2017	1.03	50.0	79.70
I2876-19	MF4E28	SAM	SOLID	05/01/2017	1.05	50.0	81.00
I2876-20	MF4E29	SAM	SOLID	05/01/2017	1.06	50.0	82.10
I2876-21	MF4E30	SAM	SOLID	05/01/2017	1.04	50.0	80.90
I2876-22	MF4E31	SAM	SOLID	05/01/2017	1.06	50.0	85.80

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87178 Contract: _____
Lab Code: CHEM Case No.: LB87178 MA No.: _____ SDG No.: LB87178
Instrument ID: CN Start Date: 05/01/2017
Analytical Method: _____ Run Batch: LB87178.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.7	-6	10	9.0	-10

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87178 Contract: _____
Lab Code: CHEM Case No.: LB87178 MA No.: _____ SDG No.: LB87178
Instrument ID: CN Start Date: 05/01/2017
Analytical Method: _____ Run Batch: LB87178.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	102	2	250	251	0	500	499	0

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87178**SDG No.:** LB87178**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87178**SAS No.:** LB87178**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	96.0	99	97	0	85 - 115	CN	05/01/2017	16:19	LB87178

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87178**SDG No.:** LB87178**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87178**SAS No.:** LB87178**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	240	250	96	0	85 - 115	CN	05/01/2017	16:19	LB87178
CCV002	Cyanide	243	250	97	0	85 - 115	CN	05/01/2017	16:50	LB87178
CCV003	Cyanide	253	250	101	0	85 - 115	CN	05/01/2017	17:08	LB87178



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87178 **SDG No.:** LB87178
Contract: **Lab Code:** CHEM **Case No.:** LB87178 **SAS No.:** LB87178

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	05/01/2017	16:19	LB87178



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87178

SDG No.: LB87178

Contract:

Lab Code: CHEM

Case No.: LB87178

SAS No.: LB87178

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	05/01/2017	16:19	LB87178
CCB002	Cyanide	0.045	+/-10.0	U	5.0	10.0	CN	05/01/2017	16:50	LB87178
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/01/2017	17:08	LB87178



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB87178

SDG No.:

LB87178

Contract:

Lab Code:

CHEM

Case No.:

LB87178

SAS No.:

LB87178

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: LB87178

SDG No.: LB87178

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98565BL	SOLID		Batch Number:		PB98565		Prep Date:		05/01/2017	
	Cyanide	0.054	<0.49	J	0.012	0.49	CN	05/01/2017	16:19	LB87178
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98566BL	WATER		Batch Number:		PB98566		Prep Date:		05/01/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	05/01/2017	16:34	LB87178
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98575BL	SOLID		Batch Number:		PB98575		Prep Date:		05/01/2017	
	Cyanide	0.055	<0.5	U	0.013	0.5	CN	05/01/2017	16:34	LB87178



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87178 level: low sdg no.: LB87178
contract: lab code: CHEM case no.: LB87178 sas no.: LB87178
matrix: Solid sample id: I2866-07 client id: MF4D91S
Percent Solids for Sample: 86.3 Spiked ID: I2866-09 Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	3.5		0.55	U	5.5	64	*	CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87178 level: low sdg no.: LB87178
contract: lab code: CHEM case no.: LB87178 sas no.: LB87178
matrix: Solid sample id: I2876-01 client id: MF4C16S
Percent Solids for Sample: 87.7 Spiked ID: I2876-03 Percent Solids for Spike Sample: 87.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.5		0.54	U	5.5	82		CN



Sample ID: I2866-07 **Spiked ID:** I2866-07A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.1		0.55	U	1.1	100		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87178 **Level:** LOW **SDG No.:** LB87178
Contract: **Lab Code:** CHEM **Case No.:** LB87178 **SAS No.:** LB87178
Matrix: Solid **Sample ID:** I2866-07 **Client ID:** MF4D91D
Percent Solids for Sample: 86.3 **Duplicate ID** I2866-08 **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.55	U		0	U		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87178 **Level:** LOW **SDG No.:** LB87178
Contract: **Lab Code:** CHEM **Case No.:** LB87178 **SAS No.:** LB87178
Matrix: Solid **Sample ID:** I2876-01 **Client ID:** MF4C16D
Percent Solids for Sample: 87.7 **Duplicate ID** I2876-02 **Percent Solids for Spike Sample:** 87.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.54	U		0	U		CN