

Daily Analysis Runlog For Sequence/QC Batch ID # LB85547

Review By

SubDirectory

Review On

Test : Cyanide

LB85547

STD. NAME		STD REF.#				
ICAL Standard		WP52473,WP52472,WP52471,WP52470,WP52469,WP52468				
ICV Standard		WP52474				
CCV Standard		WP52475				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52492,WP50159,WP51626,WP51216				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	01/27/17 10:43		OK
2	S5.0	S5.0	CAL2	01/27/17 10:43		OK
3	S10.0	S10.0	CAL3	01/27/17 10:43		OK
4	S100.0	S100.0	CAL4	01/27/17 10:43		OK
5	S250.0	S250.0	CAL5	01/27/17 10:43		OK
6	S500.0	S500.0	CAL6	01/27/17 10:43		OK
7	ICV	ICV	ICV	01/27/17 12:13		OK
8	ICB	ICB	ICB	01/27/17 12:13		OK
9	CCV001	CCV001	CCV	01/27/17 12:13		OK
10	CCB001	CCB001	CCB	01/27/17 12:13		OK
11	PB96350BL	PBS006	MB	01/27/17 12:13		OK
12	I1459-01	MBDNQ1	SAM	01/27/17 12:13		OK
13	I1459-02	MBDP83	SAM	01/27/17 12:13		OK
14	I1459-03	MBDP83D	DUP	01/27/17 12:13		OK
15	I1459-04	MBDP83S	MS	01/27/17 12:20		OK
16	I1459-05	MBDP84	SAM	01/27/17 12:20		OK
17	I1459-06	MBDP85	SAM	01/27/17 12:20		OK
18	I1459-07	MBDP86	SAM	01/27/17 12:20		OK
19	I1459-08	MBDP87	SAM	01/27/17 12:20		OK
20	I1459-09	MBDP88	SAM	01/27/17 12:20		OK
21	I1459-10	MBDP89	SAM	01/27/17 12:20		OK

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Review By			Review On			
SubDirectory		LB85547		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52473,WP52472,WP52471,WP52470,WP52469,WP52468				
ICV Standard		WP52474				
CCV Standard		WP52475				
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard		WP52492,WP50159,WP51626,WP51216				
22	I1459-11	MBDP90	SAM	01/27/17 12:20		OK
23	I1459-12	MBDP91	SAM	01/27/17 12:20		OK
24	I1459-13	MBDP92	SAM	01/27/17 12:20		OK
25	I1459-14	MBDP93	SAM	01/27/17 12:21		OK
26	I1459-15	MBDP94	SAM	01/27/17 12:28		OK
27	I1459-16	MBDP95	SAM	01/27/17 12:28		OK
28	I1459-17	MBDP96	SAM	01/27/17 12:28		OK
29	I1459-18	MBDP97	SAM	01/27/17 12:28		OK
30	I1459-19	MBDP98	SAM	01/27/17 12:28		OK
31	I1459-20	MBDP99	SAM	01/27/17 12:28		OK
32	PB96363BL	PBS006	MB	01/27/17 12:28		OK
33	I1463-01	MBDMX5	SAM	01/27/17 12:28		OK
34	I1463-02	MBDMX5D	DUP	01/27/17 12:28		OK
35	I1463-03	MBDMX5S	MS	01/27/17 12:28	Recovery fail	OK
36	I1463-04	MBDMX6	SAM	01/27/17 12:28		OK
37	I1463-05	MBDMX7	SAM	01/27/17 12:35		OK
38	I1463-06	MBDMX8	SAM	01/27/17 12:35		OK
39	I1463-07	MBDMX9	SAM	01/27/17 12:35		OK
40	I1463-08	MBDMY0	SAM	01/27/17 12:36		OK
41	I1463-09	MBDMY1	SAM	01/27/17 12:36		OK
42	I1463-10	MBDMY2	SAM	01/27/17 12:36		OK
43	I1463-11	MBDMY3	SAM	01/27/17 12:36		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB85547

Review By		Review On				
SubDirectory		LB85547		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP52473,WP52472,WP52471,WP52470,WP52469,WP52468 WP52474 WP52475 WP52492,WP50159,WP51626,WP51216				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard						
44	I1463-12	MBDMY4	SAM	01/27/17 12:36		OK
45	I1463-13	MBDMY5	SAM	01/27/17 12:36		OK
46	I1463-14	MBDMY6	SAM	01/27/17 12:36		OK
47	I1463-15	MBDMY7	SAM	01/27/17 12:36		OK
48	I1463-16	MBDMY8	SAM	01/27/17 12:42		OK
49	I1463-17	MBDMY9	SAM	01/27/17 12:42		OK
50	I1463-18	MBDMZ0	SAM	01/27/17 12:42		OK
51	CCV002	CCV002	CCV	01/27/17 12:42		OK
52	CCB002	CCB002	CCB	01/27/17 12:42		OK
53	I1463-01A	MBDMX5A	PS	01/27/17 13:12		OK
54	CCV003	CCV003	CCV	01/27/17 13:12		OK
55	CCB003	CCB003	CCB	01/27/17 13:12		OK



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDNQ1	SDG No.:	LB85547
Lab Sample ID:	I1459-01	Matrix:	Solid
Level (low/med):	low	% Solid:	75.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.073	J	1	0.072	0.016	0.65	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP83	SDG No.:	LB85547
Lab Sample ID:	I1459-02	Matrix:	Solid
Level (low/med):	low	% Solid:	74.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	U	1	0.072	0.016	0.65	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP84	SDG No.:	LB85547
Lab Sample ID:	I1459-05	Matrix:	Solid
Level (low/med):	low	% Solid:	73.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.073	0.017	0.67	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP85	SDG No.:	LB85547
Lab Sample ID:	I1459-06	Matrix:	Solid
Level (low/med):	low	% Solid:	71.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.067	U	1	0.076	0.017	0.69	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP86	SDG No.:	LB85547
Lab Sample ID:	I1459-07	Matrix:	Solid
Level (low/med):	low	% Solid:	75.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.071	0.016	0.65	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP87	SDG No.:	LB85547
Lab Sample ID:	I1459-08	Matrix:	Solid
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.069	0.016	0.63	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP88	SDG No.:	LB85547
Lab Sample ID:	I1459-09	Matrix:	Solid
Level (low/med):	low	% Solid:	82.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.073	J	1	0.064	0.015	0.58	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP89	SDG No.:	LB85547
Lab Sample ID:	I1459-10	Matrix:	Solid
Level (low/med):	low	% Solid:	87.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.072	J	1	0.061	0.014	0.56	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP90	SDG No.:	LB85547
Lab Sample ID:	I1459-11	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	0.062	U	1	0.063	0.014	0.57	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP91	SDG No.:	LB85547
Lab Sample ID:	I1459-12	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	0.056	U	1	0.069	0.016	0.63	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP92	SDG No.:	LB85547
Lab Sample ID:	I1459-13	Matrix:	Solid
Level (low/med):	low	% Solid:	79.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	U	1	0.068	0.015	0.61	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP93	SDG No.:	LB85547
Lab Sample ID:	I1459-14	Matrix:	Solid
Level (low/med):	low	% Solid:	76.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.055	U	1	0.07	0.016	0.64	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP94	SDG No.:	LB85547
Lab Sample ID:	I1459-15	Matrix:	Solid
Level (low/med):	low	% Solid:	88

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.061	0.014	0.55	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP95	SDG No.:	LB85547
Lab Sample ID:	I1459-16	Matrix:	Solid
Level (low/med):	low	% Solid:	77.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.07	0.016	0.64	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP96	SDG No.:	LB85547
Lab Sample ID:	I1459-17	Matrix:	Solid
Level (low/med):	low	% Solid:	72.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	U	1	0.073	0.017	0.67	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP97	SDG No.:	LB85547
Lab Sample ID:	I1459-18	Matrix:	Solid
Level (low/med):	low	% Solid:	76.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	U	1	0.07	0.016	0.64	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP98	SDG No.:	LB85547
Lab Sample ID:	I1459-19	Matrix:	Solid
Level (low/med):	low	% Solid:	75.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	U	1	0.071	0.016	0.65	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDP99	SDG No.:	LB85547
Lab Sample ID:	I1459-20	Matrix:	Solid
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.068	0.015	0.62	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMX5	SDG No.:	LB85547
Lab Sample ID:	I1463-01	Matrix:	Solid
Level (low/med):	low	% Solid:	75.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	U	1	0.071	0.016	0.64	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMX6	SDG No.:	LB85547
Lab Sample ID:	I1463-04	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	0.32	J	1	0.069	0.016	0.63	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMX7	SDG No.:	LB85547
Lab Sample ID:	I1463-05	Matrix:	Solid
Level (low/med):	low	% Solid:	84.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	U	1	0.063	0.014	0.57	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMX8	SDG No.:	LB85547
Lab Sample ID:	I1463-06	Matrix:	Solid
Level (low/med):	low	% Solid:	78

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.052	U	1	0.068	0.016	0.62	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMX9	SDG No.:	LB85547
Lab Sample ID:	I1463-07	Matrix:	Solid
Level (low/med):	low	% Solid:	73.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.073	0.017	0.66	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY0	SDG No.:	LB85547
Lab Sample ID:	I1463-08	Matrix:	Solid
Level (low/med):	low	% Solid:	89.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.046	U	1	0.059	0.013	0.54	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY1	SDG No.:	LB85547
Lab Sample ID:	I1463-09	Matrix:	Solid
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.068	0.015	0.62	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY2	SDG No.:	LB85547
Lab Sample ID:	I1463-10	Matrix:	Solid
Level (low/med):	low	% Solid:	73

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.074	0.017	0.67	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY3	SDG No.:	LB85547
Lab Sample ID:	I1463-11	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	0.16	J	1	0.063	0.014	0.57	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY4	SDG No.:	LB85547
Lab Sample ID:	I1463-12	Matrix:	Solid
Level (low/med):	low	% Solid:	83.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	U	1	0.064	0.014	0.58	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY5	SDG No.:	LB85547
Lab Sample ID:	I1463-13	Matrix:	Solid
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.039	U	1	0.064	0.015	0.58	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY6	SDG No.:	LB85547
Lab Sample ID:	I1463-14	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	0.055	U	1	0.061	0.014	0.55	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY7	SDG No.:	LB85547
Lab Sample ID:	I1463-15	Matrix:	Solid
Level (low/med):	low	% Solid:	72.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.075	0.017	0.68	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY8	SDG No.:	LB85547
Lab Sample ID:	I1463-16	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	U	1	0.068	0.016	0.62	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/24/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMY9	SDG No.:	LB85547
Lab Sample ID:	I1463-17	Matrix:	Solid
Level (low/med):	low	% Solid:	83.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.06	U	1	0.063	0.014	0.58	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



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Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMZ0	SDG No.:	LB85547
Lab Sample ID:	I1463-18	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	0.11	J	1	0.066	0.015	0.6	mg/kg	01/26/2017	01/27/2017	ISM02.2_CN



Report of Analysis

Client:		Date Collected:	1/23/2017 12:00:00 AM
Project:	LB85547	Date Received:	1/25/2017 12:00:00 AM
Client Sample ID:	MBDMZ0	SDG No.:	LB85547
Lab Sample ID:	I1463-18	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.
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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.: LB85547

Order ID: LB85547

Client: LB85547

Project ID: LB85547

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I1459-01	MBDNQ1 MBDNQ1	Solid	Cyanide	0.073	J	0.072	0.325	0.65	mg/kg
Client ID : I1459-05	MBDP84 MBDP84	Solid	Cyanide	0.100	J	0.073	0.335	0.67	mg/kg
Client ID : I1459-07	MBDP86 MBDP86	Solid	Cyanide	0.100	J	0.071	0.325	0.65	mg/kg
Client ID : I1459-08	MBDP87 MBDP87	Solid	Cyanide	0.110	J	0.069	0.315	0.63	mg/kg
Client ID : I1459-09	MBDP88 MBDP88	Solid	Cyanide	0.073	J	0.064	0.29	0.58	mg/kg
Client ID : I1459-10	MBDP89 MBDP89	Solid	Cyanide	0.072	J	0.061	0.28	0.56	mg/kg
Client ID : I1459-20	MBDP99 MBDP99	Solid	Cyanide	0.130	J	0.068	0.31	0.62	mg/kg
Client ID : I1463-04	MBDMX6 MBDMX6	Solid	Cyanide	0.320	J	0.069	0.315	0.63	mg/kg
Client ID : I1463-07	MBDMX9 MBDMX9	Solid	Cyanide	0.082	J	0.073	0.33	0.66	mg/kg
Client ID : I1463-09	MBDMY1 MBDMY1	Solid	Cyanide	0.069	J	0.068	0.31	0.62	mg/kg
Client ID : I1463-11	MBDMY3 MBDMY3	Solid	Cyanide	0.160	J	0.063	0.285	0.57	mg/kg
Client ID : I1463-15	MBDMY7 MBDMY7	Solid	Cyanide	0.130	J	0.075	0.34	0.68	mg/kg
Client ID : I1463-18	MBDMZ0 MBDMZ0	Solid	Cyanide	0.110	J	0.066	0.3	0.6	mg/kg

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85547 Contract: _____
Lab Code: CHEM Case No.: LB85547 MA No.: _____ SDG No.: LB85547
Instrument ID: CN Start Date: 01/27/2017
Analytical Method: _____ Run Batch: LB85547.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.55	0	5	5.4	8	10	9.4	-6

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB85547 Contract: _____
Lab Code: CHEM Case No.: LB85547 MA No.: _____ SDG No.: LB85547
Instrument ID: CN Start Date: 01/27/2017
Analytical Method: _____ Run Batch: LB85547.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	97.2	-3	250	254	2	500	499	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85547

SDG No.: LB85547

Contract: _____ Lab Code: CHEM

Case No.: LB85547

SAS No.: LB85547

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	92.2	99	93	0	85 - 115	CN	01/27/2017	12:13	LB85547



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85547

SDG No.: LB85547

Contract: _____ Lab Code: CHEM

Case No.: LB85547

SAS No.: LB85547

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	233	250	93	0	85 - 115	CN	01/27/2017	12:13	LB85547
CCV002	Cyanide	247	250	99	0	85 - 115	CN	01/27/2017	12:42	LB85547
CCV003	Cyanide	245	250	98	0	85 - 115	CN	01/27/2017	13:12	LB85547



Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB85547

SDG No.: LB85547

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96350BL	SOLID		Batch Number:		PB96350		Prep Date:		01/26/2017	
	Cyanide	0.036	<0.5	U	0.013	0.5	CN	01/27/2017	12:13	LB85547
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB96363BL	SOLID		Batch Number:		PB96363		Prep Date:		01/26/2017	
	Cyanide	0.036	<0.5	U	0.013	0.5	CN	01/27/2017	12:28	LB85547



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85547 **SDG No.:** LB85547
Contract: **Lab Code:** CHEM **Case No.:** LB85547 **SAS No.:** LB85547

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.76	+/-10.0	U	5.0	10.0	CN	01/27/2017	12:13	LB85547



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85547

SDG No.: LB85547

Contract:

Lab Code: CHEM

Case No.: LB85547

SAS No.: LB85547

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.0	+/-10.0	U	5.0	10.0	CN	01/27/2017	12:13	LB85547
CCB002	Cyanide	1.1	+/-10.0	U	5.0	10.0	CN	01/27/2017	12:42	LB85547
CCB003	Cyanide	0.65	+/-10.0	U	5.0	10.0	CN	01/27/2017	13:12	LB85547



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85547

SDG No.: LB85547

Contract: Lab Code: CHEM

Case No.: LB85547

SAS No.: LB85547

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85547 level: low sdg no.: LB85547
contract: lab code: CHEM case no.: LB85547 sas no.: LB85547
matrix: Solid sample id: I1459-02 client id: MBDP83S
Percent Solids for Sample: 74.6 Spiked ID: I1459-04 Percent Solids for Spike Sample: 74.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.6		0.65	U	6.4	88		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85547 level: low sdg no.: LB85547
contract: lab code: CHEM case no.: LB85547 sas no.: LB85547
matrix: Solid sample id: I1463-01 client id: MBDMX5S
Percent Solids for Sample: 75.4 Spiked ID: I1463-03 Percent Solids for Spike Sample: 75.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.7		0.64	U	6.4	73	*	CN



Sample ID: I1463-01 **Spiked ID:** I1463-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.4		0.64	U	1.3	108		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85547 **Level:** LOW **SDG No.:** LB85547
Contract: **Lab Code:** CHEM **Case No.:** LB85547 **SAS No.:** LB85547
Matrix: Solid **Sample ID:** I1459-02 **Client ID:** MBDP83D
Percent Solids for Sample: 74.6 **Duplicate ID** I1459-03 **Percent Solids for Spike Sample:** 74.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.65	U	0.05	U			CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB85547 **Level:** LOW **SDG No.:** LB85547
Contract: **Lab Code:** CHEM **Case No.:** LB85547 **SAS No.:** LB85547
Matrix: Solid **Sample ID:** I1463-01 **Client ID:** MBDMX5D
Percent Solids for Sample: 75.4 **Duplicate ID** I1463-02 **Percent Solids for Spike Sample:** 75.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.64	U	0.082	J	200.0		CN



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB85547 **SDG No.:** LB85547
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB85547 **SAS No.:** LB85547

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB96350							
PB96350BL	PBS006	MB	SOLID	01/27/2017	1.00	50.0	100.00
I1459-01	MBDNQ1	SAM	SOLID	01/27/2017	1.02	50.0	75.30
I1459-02	MBDP83	SAM	SOLID	01/27/2017	1.03	50.0	74.60
I1459-03	MBDP83D	DUP	SOLID	01/27/2017	1.03	50.0	74.60
I1459-04	MBDP83S	MS	SOLID	01/27/2017	1.04	50.0	74.60
I1459-05	MBDP84	SAM	SOLID	01/27/2017	1.02	50.0	73.50
I1459-06	MBDP85	SAM	SOLID	01/27/2017	1.01	50.0	71.90
I1459-07	MBDP86	SAM	SOLID	01/27/2017	1.03	50.0	75.20
I1459-08	MBDP87	SAM	SOLID	01/27/2017	1.02	50.0	78.00
I1459-09	MBDP88	SAM	SOLID	01/27/2017	1.04	50.0	82.50
I1459-10	MBDP89	SAM	SOLID	01/27/2017	1.03	50.0	87.10
I1459-11	MBDP90	SAM	SOLID	01/27/2017	1.02	50.0	85.30
I1459-12	MBDP91	SAM	SOLID	01/27/2017	1.04	50.0	76.50
I1459-13	MBDP92	SAM	SOLID	01/27/2017	1.03	50.0	79.10
I1459-14	MBDP93	SAM	SOLID	01/27/2017	1.02	50.0	76.80
I1459-15	MBDP94	SAM	SOLID	01/27/2017	1.03	50.0	88.00
I1459-16	MBDP95	SAM	SOLID	01/27/2017	1.02	50.0	77.10
I1459-17	MBDP96	SAM	SOLID	01/27/2017	1.04	50.0	72.20
I1459-18	MBDP97	SAM	SOLID	01/27/2017	1.03	50.0	76.30
I1459-19	MBDP98	SAM	SOLID	01/27/2017	1.02	50.0	75.90
I1459-20	MBDP99	SAM	SOLID	01/27/2017	1.04	50.0	77.60

**Metals
- 13 -**

SAMPLE PREPARATION SUMMARY

Client: <u>LB85547</u>	SDG No.: <u>LB85547</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB85547</u>	SAS No.: <u>LB85547</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB96363							
PB96363BL	PBS006	MB	SOLID	01/27/2017	1.00	50.0	100.00
I1463-01	MBDMX5	SAM	SOLID	01/27/2017	1.03	50.0	75.40
I1463-02	MBDMX5D	DUP	SOLID	01/27/2017	1.04	50.0	75.40
I1463-03	MBDMX5S	MS	SOLID	01/27/2017	1.03	50.0	75.40
I1463-04	MBDMX6	SAM	SOLID	01/27/2017	1.02	50.0	78.10
I1463-05	MBDMX7	SAM	SOLID	01/27/2017	1.04	50.0	84.50
I1463-06	MBDMX8	SAM	SOLID	01/27/2017	1.03	50.0	78.00
I1463-07	MBDMX9	SAM	SOLID	01/27/2017	1.02	50.0	73.80
I1463-08	MBDMY0	SAM	SOLID	01/27/2017	1.04	50.0	89.40
I1463-09	MBDMY1	SAM	SOLID	01/27/2017	1.03	50.0	78.90
I1463-10	MBDMY2	SAM	SOLID	01/27/2017	1.02	50.0	73.00
I1463-11	MBDMY3	SAM	SOLID	01/27/2017	1.01	50.0	86.80
I1463-12	MBDMY4	SAM	SOLID	01/27/2017	1.03	50.0	83.80
I1463-13	MBDMY5	SAM	SOLID	01/27/2017	1.04	50.0	82.80
I1463-14	MBDMY6	SAM	SOLID	01/27/2017	1.03	50.0	88.10
I1463-15	MBDMY7	SAM	SOLID	01/27/2017	1.02	50.0	72.20
I1463-16	MBDMY8	SAM	SOLID	01/27/2017	1.05	50.0	76.60
I1463-17	MBDMY9	SAM	SOLID	01/27/2017	1.04	50.0	83.40
I1463-18	MBDMZ0	SAM	SOLID	01/27/2017	1.03	50.0	80.90