

Daily Analysis Runlog For Sequence/QC Batch ID # LB87914

Review By		Review On				
SubDirectory		LB87914		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55447,WP55448,WP55449,WP55450,WP55451,WP55452,WP55453,WP55454				
ICV Standard		W1541				
CCV Standard		WP55456				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55455,WP51626,WP55355				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/07/17 09:25		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/07/17 09:25		OK
3	10PPBCN	10PPBCN	CAL3	06/07/17 09:25		OK
4	50PPBCN	50PPBCN	CAL4	06/07/17 09:25		OK
5	100PPBCN	100PPBCN	CAL5	06/07/17 09:25		OK
6	250PPBCN	250PPBCN	CAL6	06/07/17 09:25		OK
7	500PPBCN	500PPBCN	CAL7	06/07/17 09:25		OK
8	ICV1	ICV1	ICV	06/07/17 10:29		OK
9	ICB1	ICB1	ICB	06/07/17 10:29		OK
10	CCV1	CCV1	CCV	06/07/17 10:29		OK
11	CCB1	CCB1	CCB	06/07/17 10:29		OK
12	PB99527BL	PB99527BL	MB	06/07/17 10:29		OK
13	PB99527BS	PB99527BS	LCS	06/07/17 10:29		OK
14	LOWPB99527	LOWPB99527	SAM	06/07/17 10:29		OK
15	HIGHPB99527	HIGHPB99527	SAM	06/07/17 10:29		OK
16	I3478-01	146-COMP	SAM	06/07/17 10:29		OK
17	I3478-01DUP	146-COMPDUP	DUP	06/07/17 10:29		OK
18	I3478-01MS	146-COMPMS	MS	06/07/17 10:29		OK
19	I3478-01MSD	146-COMPMSD	MSD	06/07/17 10:36		OK
20	I3478-05	337-COMP	SAM	06/07/17 10:36		OK
21	I3478-09	343-COMP	SAM	06/07/17 10:36		OK

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SubDirectory		LB87914		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55447,WP55448,WP55449,WP55450,WP55451,WP55452,WP55453,WP55454				
ICV Standard		W1541				
CCV Standard		WP55456				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55455,WP51626,WP55355				
22	CCV2	CCV2	CCV	06/07/17 10:36		OK
23	CCB2	CCB2	CCB	06/07/17 10:36		OK
24	I3478-13	155-COMP	SAM	06/07/17 10:36		OK
25	I3478-17	159-COMP	SAM	06/07/17 10:36		OK
26	I3481-01	SU-04-060517	SAM	06/07/17 10:36		OK
27	I3482-01	CL-01-060517-A	SAM	06/07/17 10:36		OK
28	I3482-04	CL-01-060517-B	SAM	06/07/17 10:36		OK
29	I3482-07	CL-01-060517-C	SAM	06/07/17 10:37		OK
30	I3482-10	CL-01-060517-D	SAM	06/07/17 10:44		OK
31	I3482-13	CL-01-060517-E	SAM	06/07/17 10:44		OK
32	PB99536BL	PB99536BL	MB	06/07/17 10:44		OK
33	PB99536BS	PB99536BS	LCS	06/07/17 10:44		OK
34	CCV3	CCV3	CCV	06/07/17 10:44		OK
35	CCB3	CCB3	CCB	06/07/17 10:44		OK
36	I3469-01	SB-2(0-2)20170603	SAM	06/07/17 10:44		OK
37	I3469-01DUP	SB-2(0-2)20170603D	DUP	06/07/17 10:44		OK
38	I3469-01MS	SB-2(0-2)20170603M	MS	06/07/17 10:44		OK
39	I3469-01MSD	SB-2(0-2)20170603M	MSD	06/07/17 10:44		OK
40	I3469-02	SB-2(8-10)20170603	SAM	06/07/17 10:44		OK
41	I3469-03	SB-1(0-2)20170603	SAM	06/07/17 10:52		OK
42	I3469-04	SB-1(8-10)20170603	SAM	06/07/17 10:52		OK
43	I3469-10	SB-6(0-2)20170603	SAM	06/07/17 10:52		OK

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Review By		Review On				
SubDirectory		LB87914		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55447,WP55448,WP55449,WP55450,WP55451,WP55452,WP55453,WP55454				
ICV Standard		W1541				
CCV Standard		WP55456				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP54521				
Chk Standard		WP55455,WP51626,WP55355				
44	I3469-11	SB-6(8-10)20170603	SAM	06/07/17 10:52		OK
45	I3469-12	SB-3(0-2)20170603	SAM	06/07/17 10:52		OK
46	CCV4	CCV4	CCV	06/07/17 10:52		OK
47	CCB4	CCB4	CCB	06/07/17 10:52		OK
48	I3469-13	SB-3(7-9)20170603	SAM	06/07/17 10:52		OK
49	I3486-01	HD-RO-20397-06051	SAM	06/07/17 10:52		OK
50	PB99537BL	PB99537BL	MB	06/07/17 10:52		OK
51	PB99537BS	PB99537BS	LCS	06/07/17 10:52		OK
52	I3479-01	SB-9(0-2)20170603	SAM	06/07/17 10:59		OK
53	I3479-01DUP	SB-9(0-2)20170603D	DUP	06/07/17 10:59		OK
54	I3479-01MS	SB-9(0-2)20170603M	MS	06/07/17 10:59		OK
55	I3479-01MSD	SB-9(0-2)20170603M	MSD	06/07/17 10:59		OK
56	I3479-02	SB-9(8-10)20170603	SAM	06/07/17 10:59		OK
57	I3479-03	SB-8(0-2)20170603	SAM	06/07/17 10:59		OK
58	CCV5	CCV5	CCV	06/07/17 10:59		OK
59	CCB5	CCB5	CCB	06/07/17 10:59		OK
60	I3479-04	SB-7(0-2)20170603	SAM	06/07/17 10:59		OK
61	I3479-05	SB-7(10-12)2017060	SAM	06/07/17 10:59		OK
62	I3479-09	SB-8(7-9)20170604	SAM	06/07/17 10:59		OK
63	I3479-11	SB-5(0-2)20170604	SAM	06/07/17 11:06		OK
64	I3479-12	SB-5(8-10)20170604	SAM	06/07/17 11:06		OK
65	I3479-13	SB-4(0-2)20170604	SAM	06/07/17 11:06		OK

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SubDirectory		LB87914		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55447,WP55448,WP55449,WP55450,WP55451,WP55452,WP55453,WP55454 W1541 WP55456 N/A N/A WP54521 WP55455,WP51626,WP55355				
ICV Standard						
CCV Standard						
ICSA Standard						
CRI Standard						
LCS Standard						
Chk Standard						
66	I3479-14	SB-4(7-9)20170604	SAM	06/07/17 11:06		OK
67	CCV6	CCV6	CCV	06/07/17 11:06		OK
68	CCB6	CCB6	CCB	06/07/17 11:06		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB87914	Date Received:	
Client Sample ID:	HIGHPB99527	SDG No.:	LB87914
Lab Sample ID:	HIGHPB99527	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	0.49		1	0.003		0.005	mg/L		06/07/2017	9012B

Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-2(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-01	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	0.051	J	1	0.036		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-2(8-10)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-02	Matrix:	Solid
Level (low/med):	low	% Solid:	80.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.039		0.3	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-1(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-03	Matrix:	Solid
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.033	U	1	0.037		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-1(8-10)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-04	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0033	U	1	0.036		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-6(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-10	Matrix:	Solid
Level (low/med):	low	% Solid:	76.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.083	J	1	0.042		0.32	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-6(8-10)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-11	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	0.084	J	1	0.038		0.29	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-3(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-12	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	0.092	J	1	0.036		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-3(7-9)20170603	SDG No.:	LB87914
Lab Sample ID:	I3469-13	Matrix:	Solid
Level (low/med):	low	% Solid:	39.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.08		0.61	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	146-COMP	SDG No.:	LB87914
Lab Sample ID:	I3478-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.035		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	337-COMP	SDG No.:	LB87914
Lab Sample ID:	I3478-05	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.034	U	1	0.036		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	343-COMP	SDG No.:	LB87914
Lab Sample ID:	I3478-09	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.034		0.26	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	155-COMP	SDG No.:	LB87914
Lab Sample ID:	I3478-13	Matrix:	Solid
Level (low/med):	low	% Solid:	93.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.042	J	1	0.034		0.26	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	159-COMP	SDG No.:	LB87914
Lab Sample ID:	I3478-17	Matrix:	Solid
Level (low/med):	low	% Solid:	94.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.034		0.25	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-9(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3479-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.036		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-9(8-10)20170603	SDG No.:	LB87914
Lab Sample ID:	I3479-02	Matrix:	Solid
Level (low/med):	low	% Solid:	43.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.22	J	1	0.073		0.56	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-8(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3479-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.049	J	1	0.033		0.25	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-7(0-2)20170603	SDG No.:	LB87914
Lab Sample ID:	I3479-04	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	0.089	J	1	0.036		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/3/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-7(10-12)20170603	SDG No.:	LB87914
Lab Sample ID:	I3479-05	Matrix:	Solid
Level (low/med):	low	% Solid:	81.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.067	J	1	0.038		0.29	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/4/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-8(7-9)20170604	SDG No.:	LB87914
Lab Sample ID:	I3479-09	Matrix:	Solid
Level (low/med):	low	% Solid:	61.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.083	J	1	0.052		0.39	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/4/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-5(0-2)20170604	SDG No.:	LB87914
Lab Sample ID:	I3479-11	Matrix:	Solid
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	U	1	0.041		0.31	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/4/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-5(8-10)20170604	SDG No.:	LB87914
Lab Sample ID:	I3479-12	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	U	1	0.036		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/4/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-4(0-2)20170604	SDG No.:	LB87914
Lab Sample ID:	I3479-13	Matrix:	Solid
Level (low/med):	low	% Solid:	86.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.037		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/4/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SB-4(7-9)20170604	SDG No.:	LB87914
Lab Sample ID:	I3479-14	Matrix:	Solid
Level (low/med):	low	% Solid:	80.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.04		0.3	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	SU-04-060517	SDG No.:	LB87914
Lab Sample ID:	I3481-01	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	0.057	J	1	0.038		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	CL-01-060517-A	SDG No.:	LB87914
Lab Sample ID:	I3482-01	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	0.026	U	1	0.036		0.27	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	CL-01-060517-B	SDG No.:	LB87914
Lab Sample ID:	I3482-04	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.048	J	1	0.035		0.26	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	CL-01-060517-C	SDG No.:	LB87914
Lab Sample ID:	I3482-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.04	J	1	0.035		0.26	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	CL-01-060517-D	SDG No.:	LB87914
Lab Sample ID:	I3482-10	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.036	J	1	0.034		0.26	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	CL-01-060517-E	SDG No.:	LB87914
Lab Sample ID:	I3482-13	Matrix:	Solid
Level (low/med):	low	% Solid:	94.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.053	J	1	0.033		0.25	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2017 12:00:00 AM
Project:	LB87914	Date Received:	6/5/2017 12:00:00 AM
Client Sample ID:	HD-RO-20397-060517	SDG No.:	LB87914
Lab Sample ID:	I3486-01	Matrix:	Solid
Level (low/med):	low	% Solid:	84.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.056	J	1	0.037		0.28	mg/Kg	06/06/2017	06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87914	Date Received:	
Client Sample ID:	LOWPB99527	SDG No.:	LB87914
Lab Sample ID:	LOWPB99527	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	0.011		1	0.003		0.005	mg/L		06/07/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87914	Date Received:	
Client Sample ID:	LOWPB99527	SDG No.:	LB87914
Lab Sample ID:	LOWPB99527	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87914

SDG No.: LB87914

Contract: _____ Lab Code: CHEM

Case No.: LB87914

SAS No.: LB87914

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.092	0.099	92.9	0	85 - 115		06/07/2017	10:29	LB87914

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87914**SDG No.:** LB87914**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87914**SAS No.:** LB87914**Initial Calibration Source:** _____**Continuing Calibration Source:** _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	10:29	LB87914
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	10:36	LB87914
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	10:44	LB87914
CCV4	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	10:52	LB87914
CCV5	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	10:59	LB87914
CCV6	Cyanide	0.24	0.25	96	0	90 - 110		06/07/2017	11:06	LB87914



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87914 **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00079	+/-0.005	U		0.005		06/07/2017	10:29	LB87914



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87914

SDG No.: LB87914

Contract:

Lab Code: CHEM

Case No.: LB87914

SAS No.: LB87914

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0013	+/-0.005	U		0.005		06/07/2017	10:29	LB87914
CCB2	Cyanide	0.0017	+/-0.005	U		0.005		06/07/2017	10:36	LB87914
CCB3	Cyanide	0.0015	+/-0.005	U		0.005		06/07/2017	10:44	LB87914
CCB4	Cyanide	0.0011	+/-0.005	U		0.005		06/07/2017	10:52	LB87914
CCB5	Cyanide	0.00097	+/-0.005	U		0.005		06/07/2017	10:59	LB87914
CCB6	Cyanide	0.00098	+/-0.005	U		0.005		06/07/2017	11:06	LB87914



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB87914

SDG No.:

LB87914

Contract:

Lab Code:

CHEM

Case No.:

LB87914

SAS No.:

LB87914

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB87914

SDG No.: LB87914

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB99527BL	Cyanide	SOLID		Batch Number:		PB99527		Prep Date:	06/06/2017	
		0.047	<0.25	J		0.25		06/07/2017	10:29	LB87914
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB99536BL	Cyanide	SOLID		Batch Number:		PB99536		Prep Date:	06/06/2017	
		0.046	<0.25	J		0.25		06/07/2017	10:44	LB87914
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB99537BL	Cyanide	SOLID		Batch Number:		PB99537		Prep Date:	06/06/2017	
		0.042	<0.25	J		0.25		06/07/2017	10:52	LB87914



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3469-01 client id: SB-2(0-2)20170603MS
Percent Solids for Sample: 89.4 Spiked ID: I3469-01MS Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.051	J	2.2	93		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3469-01 client id: SB-2(0-2)20170603MSD
Percent Solids for Sample: 89.4 Spiked ID: I3469-01MSD Percent Solids for Spike Sample: 89.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.051	J	2.2	89		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3478-01 client id: 146-COMPMS
Percent Solids for Sample: 91.1 Spiked ID: I3478-01MS Percent Solids for Spike Sample: 91.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.061	J	2.2	84		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3478-01 client id: 146-COMPMSD
Percent Solids for Sample: 91.1 Spiked ID: I3478-01MSD Percent Solids for Spike Sample: 91.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.061	J	2.1	83		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3479-01 client id: SB-9(0-2)20170603MS
Percent Solids for Sample: 88.9 Spiked ID: I3479-01MS Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.049	J	2.2	102		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB87914 level: low sdg no.: LB87914
contract: lab code: CHEM case no.: LB87914 sas no.: LB87914
matrix: Solid sample id: I3479-01 client id: SB-9(0-2)20170603MSD
Percent Solids for Sample: 88.9 Spiked ID: I3479-01MSD Percent Solids for Spike Sample: 88.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.049	J	2.2	102		

GENCHEM**- 6 -****DUPLICATE SAMPLE SUMMARY**

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3469-01 **Client ID:** SB-2(0-2)20170603DUP
Percent Solids for Sample: 89.4 **Duplicate ID** I3469-01DUP **Percent Solids for Spike Sample:** 89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.051	J	0.037	J	32	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3469-01MS **Client ID:** SB-2(0-2)20170603MSD
Percent Solids for Sample: 89.4 **Duplicate ID** I3469-01MSD **Percent Solids for Spike Sample:** 89.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1			2	5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3478-01 **Client ID:** 146-COMPDUP
Percent Solids for Sample: 91.1 **Duplicate ID** I3478-01DUP **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.061	J	0.054	J	12		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3478-01MS **Client ID:** 146-COMPMSD
Percent Solids for Sample: 91.1 **Duplicate ID** I3478-01MSD **Percent Solids for Spike Sample:** 91.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.8		5		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3479-01 **Client ID:** SB-9(0-2)20170603DUP
Percent Solids for Sample: 88.9 **Duplicate ID** I3479-01DUP **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.049	J	0.033	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87914 **Level:** LOW **SDG No.:** LB87914
Contract: **Lab Code:** CHEM **Case No.:** LB87914 **SAS No.:** LB87914
Matrix: Solid **Sample ID:** I3479-01MS **Client ID:** SB-9(0-2)20170603MSD
Percent Solids for Sample: 88.9 **Duplicate ID** I3479-01MSD **Percent Solids for Spike Sample:** 88.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.3		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87914

SDG No.: LB87914

Contract:

Lab Code: CHEM

Case No.: LB87914

SAS No.: LB87914

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99527BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87914 SDG No.: LB87914
Contract: Lab Code: CHEM Case No.: LB87914 SAS No.: LB87914

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99536BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87914

SDG No.: LB87914

Contract:

Lab Code: CHEM

Case No.: LB87914

SAS No.: LB87914

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99537BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	