

Daily Analysis Runlog For Sequence/QC Batch ID # LB89787

Review By		Review On				
SubDirectory		LB89787		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57578,WP57579,WP57580,WP57581,WP57582,WP57583,WP57584,WP57585				
ICV Standard		WP57588				
CCV Standard		WP57587				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57586,wp55355,wp55836				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/30/17 08:42		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/30/17 08:42		OK
3	10PPBCN	10PPBCN	CAL3	08/30/17 08:42		OK
4	50PPBCN	50PPBCN	CAL4	08/30/17 08:42		OK
5	100PPBCN	100PPBCN	CAL5	08/30/17 08:42		OK
6	250PPBCN	250PPBCN	CAL6	08/30/17 08:42		OK
7	500PPBCN	500PPBCN	CAL7	08/30/17 08:42		OK
8	ICV1	ICV1	ICV	08/30/17 09:27		OK
9	ICB1	ICB1	ICB	08/30/17 09:27		OK
10	CCV1	CCV1	CCV	08/30/17 09:27		OK
11	CCB1	CCB1	CCB	08/30/17 09:27		OK
12	PB101858BL	PB101858BL	MB	08/30/17 09:27		OK
13	PB101858BS	PB101858BS	LCS	08/30/17 09:27		OK
14	LOWPB101858	LOWPB101858	SAM	08/30/17 09:27		OK
15	I4983-01	MH-6	SAM	08/30/17 09:27		OK
16	I4983-01DUP	MH-6DUP	DUP	08/30/17 09:27		OK
17	I5001-08	EB-2017-08-26	SAM	08/30/17 09:35		OK
18	CCV2	CCV2	CCV	08/30/17 09:35		OK
19	CCB2	CCB2	CCB	08/30/17 09:35		OK
20	I5001-10	MW-106	SAM	08/30/17 09:35		OK
21	PB101909BL	PB101909BL	MB	08/30/17 09:35		OK

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SubDirectory		LB89787		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57578,WP57579,WP57580,WP57581,WP57582,WP57583,WP57584,WP57585				
ICV Standard		WP57588				
CCV Standard		WP57587				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57586,wp55355,wp55836				
22	PB101909BS	PB101909BS	LCS	08/30/17 09:35		OK
23	I4997-01	TEC-B1-COMP	SAM	08/30/17 09:35		OK
24	I4997-01DUP	TEC-B1-COMPDUP	DUP	08/30/17 09:35		OK
25	I4997-01MS	TEC-B1-COMPMS	MS	08/30/17 09:35		OK
26	I4997-01MSD	TEC-B1-COMPMSD	MSD	08/30/17 09:42		OK
27	I5007-01	TR-05-082817	SAM	08/30/17 09:42		OK
28	I5008-01	NB-08-082817-A	SAM	08/30/17 09:42		OK
29	I5008-04	NB-08-082817-B	SAM	08/30/17 09:42		OK
30	CCV3	CCV3	CCV	08/30/17 09:42		OK
31	CCB3	CCB3	CCB	08/30/17 09:42		OK
32	PB101931BL	PB101931BL	MB	08/30/17 09:42		OK
33	PB101931BS	PB101931BS	LCS	08/30/17 09:42		OK
34	I5019-01	STAGE2-TEST-PIT-A	SAM	08/30/17 09:42		OK
35	I5019-01DUP	STAGE2-TEST-PIT-A	DUP	08/30/17 09:42		OK
36	I5019-01MS	STAGE2-TEST-PIT-A	MS	08/30/17 09:42		OK
37	I5019-01MSD	STAGE2-TEST-PIT-A	MSD	08/30/17 09:50		OK
38	I5023-01	PL-01-082917-A	SAM	08/30/17 09:50		OK
39	I5023-04	PL-01-082917-B	SAM	08/30/17 09:50		OK
40	I5023-07	PL-01-082917-C	SAM	08/30/17 09:50		OK
41	I5023-10	PL-01-082917-D	SAM	08/30/17 09:50		OK
42	CCV4	CCV4	CCV	08/30/17 09:50		OK
43	CCB4	CCB4	CCB	08/30/17 09:50		OK

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Review By		Review On				
SubDirectory		LB89787		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57578,WP57579,WP57580,WP57581,WP57582,WP57583,WP57584,WP57585				
ICV Standard		WP57588				
CCV Standard		WP57587				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		wp57586,wp55355,wp55836				
44	I5024-01	CL-01-082917-A	SAM	08/30/17 09:50		OK
45	I5024-04	CL-01-082917-B	SAM	08/30/17 09:50		OK
46	I5024-07	CL-01-082917-C	SAM	08/30/17 09:50		OK
47	I5024-10	CL-01-082917-D	SAM	08/30/17 09:50		OK
48	I5024-13	CL-01-082917-E	SAM	08/30/17 09:56		OK
49	I5027-01	SU-02-082917	SAM	08/30/17 09:56		OK
50	HIGHPB101858	HIGHPB101858	SAM	08/30/17 10:01		OK
51	I4983-01MS	MH-6MS	MS	08/30/17 10:01		OK
52	I4983-01MSD	MH-6MSD	MSD	08/30/17 10:01		OK
53	CCV5	CCV5	CCV	08/30/17 10:01		OK
54	CCB5	CCB5	CCB	08/30/17 10:01		OK
55	I5001-05	MW-106	SAM	08/30/17 10:23		OK
56	CCV6	CCV6	CCV	08/30/17 10:23		OK
57	CCB6	CCB6	CCB	08/30/17 10:23		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB89787	Date Received:	
Client Sample ID:	HIGHPB101858	SDG No.:	LB89787
Lab Sample ID:	HIGHPB101858	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	0.5		1	0.003		0.005	mg/L		08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/24/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB89787
Lab Sample ID:	I4983-01	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	0.0016	U	1	0.003		0.005	mg/L	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/25/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/25/2017 12:00:00 AM
Client Sample ID:	TEC-B1-COMP	SDG No.:	LB89787
Lab Sample ID:	I4997-01	Matrix:	Solid
Level (low/med):	low	% Solid:	81.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0042	U	1	0.039		0.3	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/26/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/26/2017 12:00:00 AM
Client Sample ID:	MW-106	SDG No.:	LB89787
Lab Sample ID:	I5001-05	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	0.38		1	0.003		0.005	mg/L	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/26/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/26/2017 12:00:00 AM
Client Sample ID:	EB-2017-08-26	SDG No.:	LB89787
Lab Sample ID:	I5001-08	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	0.00035	U	1	0.003		0.005	mg/L	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/26/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/26/2017 12:00:00 AM
Client Sample ID:	MW-106	SDG No.:	LB89787
Lab Sample ID:	I5001-10	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	0.38		1	0.003		0.005	mg/L	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/28/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/28/2017 12:00:00 AM
Client Sample ID:	TR-05-082817	SDG No.:	LB89787
Lab Sample ID:	I5007-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.034		0.25	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/28/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/28/2017 12:00:00 AM
Client Sample ID:	NB-08-082817-A	SDG No.:	LB89787
Lab Sample ID:	I5008-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.038	J	1	0.034		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/28/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/28/2017 12:00:00 AM
Client Sample ID:	NB-08-082817-B	SDG No.:	LB89787
Lab Sample ID:	I5008-04	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0046	U	1	0.033		0.25	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	STAGE2-TEST-PIT-A-B-C	SDG No.:	LB89787
Lab Sample ID:	I5019-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.035		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	PL-01-082917-A	SDG No.:	LB89787
Lab Sample ID:	I5023-01	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	0.05	J	1	0.035		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	PL-01-082917-B	SDG No.:	LB89787
Lab Sample ID:	I5023-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0048	U	1	0.035		0.27	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	PL-01-082917-C	SDG No.:	LB89787
Lab Sample ID:	I5023-07	Matrix:	Solid
Level (low/med):	low	% Solid:	93.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.019	U	1	0.034		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	PL-01-082917-D	SDG No.:	LB89787
Lab Sample ID:	I5023-10	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.034		0.25	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	CL-01-082917-A	SDG No.:	LB89787
Lab Sample ID:	I5024-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.036		0.27	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	CL-01-082917-B	SDG No.:	LB89787
Lab Sample ID:	I5024-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.025	U	1	0.035		0.27	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	CL-01-082917-C	SDG No.:	LB89787
Lab Sample ID:	I5024-07	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	0.05	J	1	0.035		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	CL-01-082917-D	SDG No.:	LB89787
Lab Sample ID:	I5024-10	Matrix:	Solid
Level (low/med):	low	% Solid:	90.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0077	U	1	0.035		0.26	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	CL-01-082917-E	SDG No.:	LB89787
Lab Sample ID:	I5024-13	Matrix:	Solid
Level (low/med):	low	% Solid:	97.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.075	J	1	0.032		0.25	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/29/2017 12:00:00 AM
Project:	LB89787	Date Received:	8/29/2017 12:00:00 AM
Client Sample ID:	SU-02-082917	SDG No.:	LB89787
Lab Sample ID:	I5027-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0061	U	1	0.035		0.27	mg/Kg	08/29/2017	08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89787	Date Received:	
Client Sample ID:	LOWPB101858	SDG No.:	LB89787
Lab Sample ID:	LOWPB101858	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	0.0094		1	0.003		0.005	mg/L		08/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB89787	Date Received:	
Client Sample ID:	LOWPB101858	SDG No.:	LB89787
Lab Sample ID:	LOWPB101858	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: LB89787

SDG No.: LB89787

Contract: _____ Lab Code: CHEM

Case No.: LB89787

SAS No.: LB89787

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	0.097	0.099	98	0	85 - 115		08/30/2017	09:27	LB89787

GENCHEM**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB89787**SDG No.:** LB89787**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB89787**SAS No.:** LB89787**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	0.25	0.25	100	0	90 - 110		08/30/2017	09:27	LB89787
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		08/30/2017	09:35	LB89787
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		08/30/2017	09:42	LB89787
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		08/30/2017	09:50	LB89787
CCV5	Cyanide	0.26	0.25	104	0	90 - 110		08/30/2017	10:01	LB89787
CCV6	Cyanide	0.26	0.25	104	0	90 - 110		08/30/2017	10:23	LB89787



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89787 **SDG No.:** LB89787
Contract: **Lab Code:** CHEM **Case No.:** LB89787 **SAS No.:** LB89787

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0001	+/-0.005	U		0.005		08/30/2017	09:27	LB89787

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0003	+/-0.005	U		0.005		08/30/2017	09:27	LB89787
CCB2	Cyanide	0	+/-0.005	U		0.005		08/30/2017	09:35	LB89787
CCB3	Cyanide	-0.00017	+/-0.005	U		0.005		08/30/2017	09:42	LB89787
CCB4	Cyanide	0.00042	+/-0.005	U		0.005		08/30/2017	09:50	LB89787
CCB5	Cyanide	0.00081	+/-0.005	U		0.005		08/30/2017	10:01	LB89787
CCB6	Cyanide	-0.0001	+/-0.005	U		0.005		08/30/2017	10:23	LB89787



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89787

SDG No.: LB89787

Contract: Lab Code: CHEM

Case No.: LB89787

SAS No.: LB89787

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: LB89787

SDG No.: LB89787

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB101858BL	Cyanide	WATER		Batch Number:		PB101858		Prep Date:	08/29/2017	
		-0.0006	<0.005	U		0.005		08/30/2017	09:27	LB89787
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB101909BL	Cyanide	SOLID		Batch Number:		PB101909		Prep Date:	08/29/2017	
		-0.018	<0.25	U		0.25		08/30/2017	09:35	LB89787
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB101931BL	Cyanide	SOLID		Batch Number:		PB101931		Prep Date:	08/29/2017	
		-0.024	<0.25	U		0.25		08/30/2017	09:42	LB89787



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: WATER sample id: I4983-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: I4983-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.04		0.003	U	0.04	100		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: WATER sample id: I4983-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: I4983-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.04		0.003	U	0.04	100		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: Solid sample id: I4997-01 client id: TEC-B1-COMPMS
Percent Solids for Sample: 81.7 Spiked ID: I4997-01MS Percent Solids for Spike Sample: 81.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.3		0.039	U	2.4	95.8		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: Solid sample id: I4997-01 client id: TEC-B1-COMPMSD
Percent Solids for Sample: 81.7 Spiked ID: I4997-01MSD Percent Solids for Spike Sample: 81.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.039	U	2.4	91.7		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: Solid sample id: I5019-01 client id: STAGE2-TEST-PIT-A-B-CMS
Percent Solids for Sample: 92.3 Spiked ID: I5019-01MS Percent Solids for Spike Sample: 92.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.054	J	2.1	93		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB89787 level: low sdg no.: LB89787
contract: lab code: CHEM case no.: LB89787 sas no.: LB89787
matrix: Solid sample id: I5019-01 client id: STAGE2-TEST-PIT-A-B-CMSD
Percent Solids for Sample: 92.3 Spiked ID: I5019-01MSD Percent Solids for Spike Sample: 92.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.054	J	2.1	83		



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 Level: LOW SDG No.: LB89787
Contract: Lab Code: CHEM Case No.: LB89787 SAS No.: LB89787
Matrix: WATER Sample ID: I4983-01 Client ID: MH-6DUP
Percent Solids for Sample: 0 Duplicate ID I4983-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.00088	U			



GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 Level: LOW SDG No.: LB89787
Contract: Lab Code: CHEM Case No.: LB89787 SAS No.: LB89787
Matrix: WATER Sample ID: I4983-01MS Client ID: MH-6MSD
Percent Solids for Sample: 0 Duplicate ID I4983-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.04		0.04		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 **Level:** LOW **SDG No.:** LB89787
Contract: **Lab Code:** CHEM **Case No.:** LB89787 **SAS No.:** LB89787
Matrix: Solid **Sample ID:** I4997-01 **Client ID:** TEC-B1-COMPDUP
Percent Solids for Sample: 81.7 **Duplicate ID** I4997-01DUP **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.039	U	0.00091	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 **Level:** LOW **SDG No.:** LB89787
Contract: **Lab Code:** CHEM **Case No.:** LB89787 **SAS No.:** LB89787
Matrix: Solid **Sample ID:** I4997-01MS **Client ID:** TEC-B1-COMPMSD
Percent Solids for Sample: 81.7 **Duplicate ID** I4997-01MSD **Percent Solids for Spike Sample:** 81.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.3		2.2		4		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 **Level:** LOW **SDG No.:** LB89787
Contract: **Lab Code:** CHEM **Case No.:** LB89787 **SAS No.:** LB89787
Matrix: Solid **Sample ID:** I5019-01 **Client ID:** STAGE2-TEST-PIT-A-B-CDUP
Percent Solids for Sample: 92.3 **Duplicate ID** I5019-01DUP **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.054	J	0.051	J	6		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89787 **Level:** LOW **SDG No.:** LB89787
Contract: **Lab Code:** CHEM **Case No.:** LB89787 **SAS No.:** LB89787
Matrix: Solid **Sample ID:** I5019-01MS **Client ID:** STAGE2-TEST-PIT-A-B-CMSD
Percent Solids for Sample: 92.3 **Duplicate ID** I5019-01MSD **Percent Solids for Spike Sample:** 92.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		1.8		11		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89787

SDG No.: LB89787

Contract:

Lab Code: CHEM

Case No.: LB89787

SAS No.: LB89787

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101858BS Cyanide	mg/L	0.1	0.099		99	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89787

SDG No.: LB89787

Contract:

Lab Code: CHEM

Case No.: LB89787

SAS No.: LB89787

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101909BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB89787

SDG No.: LB89787

Contract:

Lab Code: CHEM

Case No.: LB89787

SAS No.: LB89787

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB101931BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	