

Daily Analysis Runlog For Sequence/QC Batch ID # LB91597

Review By

Review On

SubDirectory

LB91597

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP59601,WP59602,WP59603,WP59604,WP59605,WP59606,WP59607				
ICV Standard		W1541				
CCV Standard		WP59608				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59609				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/14/17 09:06		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/14/17 09:06		OK
3	10PPBCN	10PPBCN	CAL3	11/14/17 09:06		OK
4	50PPBCN	50PPBCN	CAL4	11/14/17 09:06		OK
5	100PPBCN	100PPBCN	CAL5	11/14/17 09:06		OK
6	250PPBCN	250PPBCN	CAL6	11/14/17 09:06		OK
7	500PPBCN	500PPBCN	CAL7	11/14/17 09:06		OK
8	ICV1	ICV1	ICV	11/14/17 16:41		OK
9	ICB1	ICB1	ICB	11/14/17 16:41		OK
10	CCV1	CCV1	CCV	11/14/17 16:41		OK
11	CCB1	CCB1	CCB	11/14/17 16:41		OK
12	PB104272BL	PB104272BL	MB	11/14/17 16:41		OK
13	PB104272BS	PB104272BS	LCS	11/14/17 16:41		OK
14	LOWPB104272	LOWPB104272	SAM	11/14/17 16:41		OK
15	HIGHPB104272	HIGHPB104272	SAM	11/14/17 16:48		OK
16	I6466-01	CHAP-5-E(0-1)	SAM	11/14/17 16:48		OK
17	I6466-01DUP	CHAP-5-E(0-1)DUP	DUP	11/14/17 16:48		OK
18	I6466-01MS	CHAP-5-E(0-1)MS	MS	11/14/17 16:48		OK
19	I6466-01MSD	CHAP-5-E(0-1)MSD	MSD	11/14/17 16:48		OK
20	I6466-02	CHAP-5-E(4-5)	SAM	11/14/17 16:48		OK
21	I6466-03	CHAP-5-E(7-8)	SAM	11/14/17 16:48		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91597

Review By		Review On				
SubDirectory		LB91597		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59601,WP59602,WP59603,WP59604,WP59605,WP59606,WP59607				
ICV Standard		W1541				
CCV Standard		WP59608				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59609				
22	CCV2	CCV2	CCV	11/14/17 16:48		OK
23	CCB2	CCB2	CCB	11/14/17 16:48		OK
24	I6466-04	CHAP-4-E(0-1)	SAM	11/14/17 16:48		OK
25	I6466-05	CHAP-4-E(3-4)	SAM	11/14/17 16:48		OK
26	I6466-06	CHAP-4-E(7-8)	SAM	11/14/17 16:56		OK
27	I6466-07	CHAP-2-E(0-1)	SAM	11/14/17 16:56		OK
28	I6466-08	CHAP-2-E(4-5)	SAM	11/14/17 16:56		OK
29	I6466-09	CHAP-2-E(6-7)	SAM	11/14/17 16:56		OK
30	PB104256BL	PB104256BL	MB	11/14/17 16:56		OK
31	PB104256BS	PB104256BS	LCS	11/14/17 16:56		OK
32	I6302-01	HR-04-111317-A	SAM	11/14/17 16:56		OK
33	I6302-01DUP	HR-04-111317-ADUP	DUP	11/14/17 16:56		OK
34	CCV3	CCV3	CCV	11/14/17 16:56		OK
35	CCB3	CCB3	CCB	11/14/17 16:56		OK
36	I6302-01MS	HR-04-111317-AMS	MS	11/14/17 16:56		OK
37	I6302-01MSD	HR-04-111317-AMSD	MSD	11/14/17 17:03		OK
38	I6302-03	HR-04-111317-B	SAM	11/14/17 17:03		OK
39	I6302-05	HR-04-111317-C	SAM	11/14/17 17:03		OK
40	I6305-03	PL-01-111317-A	SAM	11/14/17 17:03		OK
41	I6305-05	PL-01-111317-B	SAM	11/14/17 17:03		OK
42	I6305-07	PL-01-111317-C	SAM	11/14/17 17:03		OK
43	I6305-09	PL-01-111317-D	SAM	11/14/17 17:03		OK

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB91597

Review By		Review On				
SubDirectory		LB91597		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59601,WP59602,WP59603,WP59604,WP59605,WP59606,WP59607				
ICV Standard		W1541				
CCV Standard		WP59608				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP59609				
44	I6311-03	TR-05-111017	SAM	11/14/17 17:03		OK
45	I6462-01	FK-EF-01-004-ABCD	SAM	11/14/17 17:03		OK
46	CCV4	CCV4	CCV	11/14/17 17:04		OK
47	CCB4	CCB4	CCB	11/14/17 17:04		OK
48	PB104273BL	PB104273BL	MB	11/14/17 17:11		OK
49	PB104273BS	PB104273BS	LCS	11/14/17 17:11		OK
50	I6469-01	SV30666L	SAM	11/14/17 17:11		OK
51	I6469-01DUP	SV30666LDUP	DUP	11/14/17 17:11		OK
52	I6469-01MS	SV30666LMS	MS	11/14/17 17:11		OK
53	I6469-01MSD	SV30666LMSD	MSD	11/14/17 17:11		OK
54	CCV5	CCV5	CCV	11/14/17 17:11		OK
55	CCB5	CCB5	CCB	11/14/17 17:11		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91597	Date Received:	
Client Sample ID:	HIGHPB104272	SDG No.:	LB91597
Lab Sample ID:	HIGHPB104272	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	0.48		1	0.003		0.005	mg/L		11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-A	SDG No.:	LB91597
Lab Sample ID:	I6302-01	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	-0.0023	U	1	0.035		0.26	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-B	SDG No.:	LB91597
Lab Sample ID:	I6302-03	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	-0.01	U	1	0.036		0.27	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-C	SDG No.:	LB91597
Lab Sample ID:	I6302-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.038	U	1	0.034		0.26	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-A	SDG No.:	LB91597
Lab Sample ID:	I6305-03	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	-0.03	U	1	0.038		0.28	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-B	SDG No.:	LB91597
Lab Sample ID:	I6305-05	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	-0.013	U	1	0.038		0.29	mg/Kg	11/14/2017	11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-C	SDG No.:	LB91597
Lab Sample ID:	I6305-07	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	-0.017	U	1	0.037		0.28	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-D	SDG No.:	LB91597
Lab Sample ID:	I6305-09	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	-0.0078	U	1	0.037		0.28	mg/Kg	11/14/2017	11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TR-05-111017	SDG No.:	LB91597
Lab Sample ID:	I6311-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.04	U	1	0.036		0.27	mg/Kg	11/14/2017	11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	FK-EF-01-004-ABCD	SDG No.:	LB91597
Lab Sample ID:	I6462-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.02	U	1	0.035		0.26	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-5-E(0-1)	SDG No.:	LB91597
Lab Sample ID:	I6466-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.036		0.28	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-5-E(4-5)	SDG No.:	LB91597
Lab Sample ID:	I6466-02	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.059	U	1	0.035		0.26	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-5-E(7-8)	SDG No.:	LB91597
Lab Sample ID:	I6466-03	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	-0.033	U	1	0.036		0.27	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-4-E(0-1)	SDG No.:	LB91597
Lab Sample ID:	I6466-04	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	0.038	J	1	0.035		0.26	mg/Kg	11/14/2017	11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-4-E(3-4)	SDG No.:	LB91597
Lab Sample ID:	I6466-05	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	0.031	U	1	0.036		0.27	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-4-E(7-8)	SDG No.:	LB91597
Lab Sample ID:	I6466-06	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	-0.047	U	1	0.036		0.27	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-2-E(0-1)	SDG No.:	LB91597
Lab Sample ID:	I6466-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.019	U	1	0.037		0.28	mg/Kg	11/14/2017	11/14/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-2-E(4-5)	SDG No.:	LB91597
Lab Sample ID:	I6466-08	Matrix:	Solid
Level (low/med):	low	% Solid:	87.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.011	U	1	0.036		0.28	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	CHAP-2-E(6-7)	SDG No.:	LB91597
Lab Sample ID:	I6466-09	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	-0.0053	U	1	0.037		0.28	mg/Kg	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91597	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	SV30666L	SDG No.:	LB91597
Lab Sample ID:	I6469-01	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	0.15		1	0.003		0.005	mg/L	11/14/2017	11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91597	Date Received:	
Client Sample ID:	LOWPB104272	SDG No.:	LB91597
Lab Sample ID:	LOWPB104272	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	0.0088		1	0.003		0.005	mg/L		11/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB91597	Date Received:	
Client Sample ID:	LOWPB104272	SDG No.:	LB91597
Lab Sample ID:	LOWPB104272	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB91597

SDG No.: LB91597

Contract: _____ Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

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	0.098	0.099	99	0	85 - 115		11/14/2017	16:41	LB91597



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91597

SDG No.: LB91597

Contract: _____ Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

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		11/14/2017	16:41	LB91597
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		11/14/2017	16:48	LB91597
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		11/14/2017	16:56	LB91597
CCV4	Cyanide	0.25	0.25	100	0	90 - 110		11/14/2017	17:04	LB91597
CCV5	Cyanide	0.25	0.25	100	0	90 - 110		11/14/2017	17:11	LB91597



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91597 **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.001	+/-0.005	U		0.005		11/14/2017	16:41	LB91597



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91597

SDG No.: LB91597

Contract:

Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00093	+/-0.005	U		0.005		11/14/2017	16:41	LB91597
CCB2	Cyanide	-0.00082	+/-0.005	U		0.005		11/14/2017	16:48	LB91597
CCB3	Cyanide	-0.00071	+/-0.005	U		0.005		11/14/2017	16:56	LB91597
CCB4	Cyanide	-0.00069	+/-0.005	U		0.005		11/14/2017	17:04	LB91597
CCB5	Cyanide	-0.00064	+/-0.005	U		0.005		11/14/2017	17:11	LB91597



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91597

SDG No.: LB91597

Contract: Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB91597

SDG No.: LB91597

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
PB104256BL	Cyanide	SOLID		Batch Number:		PB104256		Prep Date:	11/14/2017	
		-0.048	<0.24	U		0.24		11/14/2017	16:56	LB91597
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104272BL	Cyanide	SOLID		Batch Number:		PB104272		Prep Date:	11/14/2017	
		-0.051	<0.25	U		0.25		11/14/2017	16:41	LB91597
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104273BL	Cyanide	WATER		Batch Number:		PB104273		Prep Date:	11/14/2017	
		-0.00076	<0.005	U		0.005		11/14/2017	17:11	LB91597

GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91597 level: low sdg no.: LB91597
contract: lab code: CHEM case no.: LB91597 sas no.: LB91597
matrix: Solid sample id: I6302-01 client id: HR-04-111317-AMS
Percent Solids for Sample: 92 Spiked ID: I6302-01MS Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.035	U	2.1	81		



Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.035	U	2.1	81		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91597 level: low sdg no.: LB91597
contract: lab code: CHEM case no.: LB91597 sas no.: LB91597
matrix: Solid sample id: I6466-01 client id: CHAP-5-E(0-1)MS
Percent Solids for Sample: 87.8 Spiked ID: I6466-01MS Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.88		0.036	U	2.2	40	*	

GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91597 level: low sdg no.: LB91597
contract: lab code: CHEM case no.: LB91597 sas no.: LB91597
matrix: Solid sample id: I6466-01 client id: CHAP-5-E(0-1)MSD
Percent Solids for Sample: 87.8 Spiked ID: I6466-01MSD Percent Solids for Spike Sample: 87.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.85		0.036	U	2.2	38.6	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91597 level: low sdg no.: LB91597
contract: lab code: CHEM case no.: LB91597 sas no.: LB91597
matrix: WATER sample id: I6469-01 client id: SV30666LMS
Percent Solids for Sample: 0 Spiked ID: I6469-01MS 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	0.18		0.15		0.04	75		



Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.18		0.15		0.04	75		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 **Level:** LOW **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597
Matrix: Solid **Sample ID:** I6302-01 **Client ID:** HR-04-111317-ADUP
Percent Solids for Sample: 92 **Duplicate ID** I6302-01DUP **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.0051	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 Level: LOW SDG No.: LB91597
Contract: _____ Lab Code: CHEM Case No.: LB91597 SAS No.: LB91597
Matrix: Solid Sample ID: I6302-01MS Client ID: HR-04-111317-AMSD
Percent Solids for Sample: 92 Duplicate ID I6302-01MSD Percent Solids for Spike Sample: 92

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 **Level:** LOW **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597
Matrix: Solid **Sample ID:** I6466-01 **Client ID:** CHAP-5-E(0-1)DUP
Percent Solids for Sample: 87.8 **Duplicate ID** I6466-01DUP **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.032	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 **Level:** LOW **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597
Matrix: Solid **Sample ID:** I6466-01MS **Client ID:** CHAP-5-E(0-1)MSD
Percent Solids for Sample: 87.8 **Duplicate ID** I6466-01MSD **Percent Solids for Spike Sample:** 87.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.88		0.85		3		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 **Level:** LOW **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597
Matrix: WATER **Sample ID:** I6469-01 **Client ID:** SV30666LDUP
Percent Solids for Sample: 0 **Duplicate ID** I6469-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.15		0.15		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91597 **Level:** LOW **SDG No.:** LB91597
Contract: **Lab Code:** CHEM **Case No.:** LB91597 **SAS No.:** LB91597
Matrix: WATER **Sample ID:** I6469-01MS **Client ID:** SV30666LMSD
Percent Solids for Sample: 0 **Duplicate ID** I6469-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.18		0.18		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91597

SDG No.: LB91597

Contract:

Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104256BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91597

SDG No.: LB91597

Contract:

Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104272BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91597

SDG No.: LB91597

Contract:

Lab Code: CHEM

Case No.: LB91597

SAS No.: LB91597

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104273BS Cyanide	mg/L	0.1	0.099		99	85 - 115	