

Daily Analysis Runlog For Sequence/QC Batch ID # LB92911

Review By		Review On				
SubDirectory		LB92911		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61322,WP61323,WP61324,WP61325,WP61326,WP61327,WP61328				
ICV Standard		W1541				
CCV Standard		WP61329				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61331,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/26/18 10:00		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/26/18 10:00		OK
3	10PPBCN	10PPBCN	CAL3	01/26/18 10:00		OK
4	50PPBCN	50PPBCN	CAL4	01/26/18 10:00		OK
5	100PPBCN	100PPBCN	CAL5	01/26/18 10:00		OK
6	250PPBCN	250PPBCN	CAL6	01/26/18 10:00		OK
7	500PPBCN	500PPBCN	CAL7	01/26/18 10:00		OK
8	ICV1	ICV1	ICV	01/26/18 12:52		OK
9	ICB1	ICB1	ICB	01/26/18 12:52		OK
10	CCV1	CCV1	CCV	01/26/18 12:53		OK
11	CCB1	CCB1	CCB	01/26/18 12:53		OK
12	PB106013BL	PB106013BL	MB	01/26/18 12:53		OK
13	PB106013BS	PB106013BS	LCS	01/26/18 12:53		OK
14	J1161-02	LOQ-SOIL-02-QT1-2	LOQ	01/26/18 12:53		OK
15	J1300-02MS	TP-1-5MS	MS	01/26/18 13:00		OK
16	J1300-02MSD	TP-1-5MSD	MSD	01/26/18 13:00		OK
17	J1306-01	WC1	SAM	01/26/18 13:00		OK
18	J1306-05	WC2	SAM	01/26/18 13:00		OK
19	CCV2	CCV2	CCV	01/26/18 13:00		OK
20	CCB2	CCB2	CCB	01/26/18 13:00		OK
21	J1306-09	WC3	SAM	01/26/18 13:00		OK

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Review By		Review On				
SubDirectory		LB92911		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61322,WP61323,WP61324,WP61325,WP61326,WP61327,WP61328				
ICV Standard		W1541				
CCV Standard		WP61329				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61331,WP59958,WP60878				
22	J1306-13	WC4	SAM	01/26/18 13:00		OK
23	J1306-17	WC5	SAM	01/26/18 13:08		OK
24	J1307-01	MANHOLE-201	SAM	01/26/18 13:08		OK
25	PB105998BL	PB105998BL	MB	01/26/18 13:08		OK
26	PB105998BS	PB105998BS	LCS	01/26/18 13:08		OK
27	J1161-07	LOD-MDL-WATER-0	SAM	01/26/18 13:08		OK
28	J1161-08	LOQ-WATER-02-QT	LOQ	01/26/18 13:08		OK
29	CCV3	CCV3	CCV	01/26/18 13:08		OK
30	CCB3	CCB3	CCB	01/26/18 13:08		OK
31	J1300-06DUP	MANHOLEDUP	DUP	01/26/18 13:13		OK
32	J1300-06MS	MANHOLEMS	MS	01/26/18 13:13		OK
33	J1300-06MSD	MANHOLEMSD	MSD	01/26/18 13:13		OK
34	PB106043BL	PB106043BL	MB	01/26/18 13:13		OK
35	PB106043BS	PB106043BS	LCS	01/26/18 13:13		OK
36	J1009-01	AU-05-012518-A	SAM	01/26/18 13:13		OK
37	J1009-01DUP	AU-05-012518-ADUP	DUP	01/26/18 13:20		OK
38	J1009-01MS	AU-05-012518-AMS	MS	01/26/18 13:20		OK
39	J1009-01MSD	AU-05-012518-AMSD	MSD	01/26/18 13:20		OK
40	CCV4	CCV4	CCV	01/26/18 13:20		OK
41	CCB4	CCB4	CCB	01/26/18 13:20		OK
42	J1009-03	AU-05-012518-B	SAM	01/26/18 13:20		OK
43	J1009-05	AU-05-012518-C	SAM	01/26/18 13:21		OK

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Review By		Review On				
SubDirectory		LB92911		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61322,WP61323,WP61324,WP61325,WP61326,WP61327,WP61328				
ICV Standard		W1541				
CCV Standard		WP61329				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61331,WP59958,WP60878				
44	J1009-07	AU-05-012518-D	SAM	01/26/18 13:21		OK
45	J1009-11	AU-06-012518-B	SAM	01/26/18 13:21		OK
46	J1009-13	AU-06-012518-C	SAM	01/26/18 13:21		OK
47	J1010-08	BU-01-012518	SAM	01/26/18 13:21		OK
48	J1009-09	AU-06-012518-A	SAM	01/26/18 13:27		OK
49	J1307-05	MANHOLE-202	SAM	01/26/18 13:50		OK
50	J1161-09	MDL-WATER-03-QT	SAM	01/26/18 13:50		OK
51	J1300-06	MANHOLE	SAM	01/26/18 13:50		OK
52	CCV5	CCV5	CCV	01/26/18 13:50		OK
53	CCB5	CCB5	CCB	01/26/18 13:50		OK
54	J1018-10	OR-03-012518	SAM	01/26/18 14:08		OK
55	J1023-05	TR-05-012518	SAM	01/26/18 14:08		OK
56	J1161-03	MDL-SOIL-03-QT1-2	SAM	01/26/18 14:32		OK
57	J1300-02	TP-1-5	SAM	01/26/18 14:32		OK
58	J1300-02DUP	TP-1-5DUP	DUP	01/26/18 14:32		OK
59	J1161-01	LOD-MDL-SOIL-01-C	SAM	01/26/18 14:32		OK
60	CCV6	CCV6	CCV	01/26/18 14:32		OK
61	CCB6	CCB6	CCB	01/26/18 14:32		OK



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-05-012518-A	SDG No.:	LB92911
Lab Sample ID:	J1009-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.037	J	1	0.035		0.27	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-05-012518-B	SDG No.:	LB92911
Lab Sample ID:	J1009-03	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	0.017	U	1	0.039		0.29	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-05-012518-C	SDG No.:	LB92911
Lab Sample ID:	J1009-05	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	0.034	U	1	0.035		0.26	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-05-012518-D	SDG No.:	LB92911
Lab Sample ID:	J1009-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.017	U	1	0.035		0.27	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-06-012518-A	SDG No.:	LB92911
Lab Sample ID:	J1009-09	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	0.033	U	1	0.036		0.27	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-06-012518-B	SDG No.:	LB92911
Lab Sample ID:	J1009-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.015	U	1	0.037		0.28	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	AU-06-012518-C	SDG No.:	LB92911
Lab Sample ID:	J1009-13	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	0.011	U	1	0.037		0.28	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	BU-01-012518	SDG No.:	LB92911
Lab Sample ID:	J1010-08	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	-0.019	U	1	0.036		0.27	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	OR-03-012518	SDG No.:	LB92911
Lab Sample ID:	J1018-10	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0079	U	1	0.037		0.28	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/25/2018 12:00:00 AM
Client Sample ID:	TR-05-012518	SDG No.:	LB92911
Lab Sample ID:	J1023-05	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0026	U	1	0.034		0.26	mg/Kg	01/26/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-SOIL-01-QT1-2018	SDG No.:	LB92911
Lab Sample ID:	J1161-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.024	U	1	0.032		0.24	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-SOIL-03-QT1-2018	SDG No.:	LB92911
Lab Sample ID:	J1161-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.022	U	1	0.033		0.25	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-01-QT1-2018	SDG No.:	LB92911
Lab Sample ID:	J1161-07	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	-0.00017	U	1	0.003		0.005	mg/L	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-03-QT1-2018	SDG No.:	LB92911
Lab Sample ID:	J1161-09	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	-0.00027	U	1	0.003		0.005	mg/L	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	TP-1-5	SDG No.:	LB92911
Lab Sample ID:	J1300-02	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0032	U	1	0.036		0.27	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE	SDG No.:	LB92911
Lab Sample ID:	J1300-06	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	-0.00051	U	1	0.003		0.005	mg/L	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC1	SDG No.:	LB92911
Lab Sample ID:	J1306-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.014	U	1	0.034		0.26	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC2	SDG No.:	LB92911
Lab Sample ID:	J1306-05	Matrix:	Solid
Level (low/med):	low	% Solid:	77.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.042		0.32	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC3	SDG No.:	LB92911
Lab Sample ID:	J1306-09	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.012	U	1	0.036		0.27	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC4	SDG No.:	LB92911
Lab Sample ID:	J1306-13	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	0.032	U	1	0.038		0.28	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC5	SDG No.:	LB92911
Lab Sample ID:	J1306-17	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	0.04	J	1	0.037		0.28	mg/Kg	01/25/2018	01/26/2018	9012B

Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE-201	SDG No.:	LB92911
Lab Sample ID:	J1307-01	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	0.58		1	0.038		0.29	mg/Kg	01/25/2018	01/26/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE-202	SDG No.:	LB92911
Lab Sample ID:	J1307-05	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	0.026	U	1	0.04		0.3	mg/Kg	01/25/2018	01/26/2018	9012B



Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92911	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE-202	SDG No.:	LB92911
Lab Sample ID:	J1307-05	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.
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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: LB92911

SDG No.: LB92911

Contract: _____

Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.096	0.099	97		85 - 115		01/26/2018	12:52	LB92911



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92911

SDG No.: LB92911

Contract: _____ Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100		90 - 110		01/26/2018	12:53	LB92911
CCV2	Cyanide	0.25	0.25	100		90 - 110		01/26/2018	13:00	LB92911
CCV3	Cyanide	0.25	0.25	100		90 - 110		01/26/2018	13:08	LB92911
CCV4	Cyanide	0.25	0.25	100		90 - 110		01/26/2018	13:20	LB92911
CCV5	Cyanide	0.26	0.25	104		90 - 110		01/26/2018	13:50	LB92911
CCV6	Cyanide	0.26	0.25	104		90 - 110		01/26/2018	14:32	LB92911



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92911 **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00064	+/-0.005	U		0.005		01/26/2018	12:52	LB92911

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00051	+/-0.005	U		0.005		01/26/2018	12:53	LB92911
CCB2	Cyanide	-0.00052	+/-0.005	U		0.005		01/26/2018	13:00	LB92911
CCB3	Cyanide	-0.00034	+/-0.005	U		0.005		01/26/2018	13:08	LB92911
CCB4	Cyanide	-0.00051	+/-0.005	U		0.005		01/26/2018	13:20	LB92911
CCB5	Cyanide	-0.00047	+/-0.005	U		0.005		01/26/2018	13:50	LB92911
CCB6	Cyanide	-0.00028	+/-0.005	U		0.005		01/26/2018	14:32	LB92911



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92911

SDG No.: LB92911

Contract: Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

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: LB92911

SDG No.: LB92911

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
PB105998BL		WATER		Batch Number:		PB105998		Prep Date:	01/25/2018	
	Cyanide	-0.00081	<0.005	U		0.005		01/26/2018	13:08	LB92911
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106013BL		SOLID		Batch Number:		PB106013		Prep Date:	01/25/2018	
	Cyanide	-0.04	<0.24	U		0.24		01/26/2018	12:53	LB92911
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB106043BL		SOLID		Batch Number:		PB106043		Prep Date:	01/26/2018	
	Cyanide	-0.035	<0.25	U		0.25		01/26/2018	13:13	LB92911



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: Solid sample id: J1009-01 client id: AU-05-012518-AMS
Percent Solids for Sample: 92.2 Spiked ID: J1009-01MS Percent Solids for Spike Sample: 92.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	J	2.1	89		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: Solid sample id: J1009-01 client id: AU-05-012518-AMSD
Percent Solids for Sample: 92.2 Spiked ID: J1009-01MSD Percent Solids for Spike Sample: 92.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.037	J	2.1	89		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: Solid sample id: J1300-02 client id: TP-1-5MS
Percent Solids for Sample: 87.4 Spiked ID: J1300-02MS Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.036	U	2.2	77.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: Solid sample id: J1300-02 client id: TP-1-5MSD
Percent Solids for Sample: 87.4 Spiked ID: J1300-02MSD Percent Solids for Spike Sample: 87.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.8		0.036	U	2.2	81.8		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: WATER sample id: J1300-06 client id: MANHOLEMS
Percent Solids for Sample: 0 Spiked ID: J1300-06MS 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	0.034		0.003	U	0.04	85		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92911 level: low sdg no.: LB92911
contract: lab code: CHEM case no.: LB92911 sas no.: LB92911
matrix: WATER sample id: J1300-06 client id: MANHOLEMSD
Percent Solids for Sample: 0 Spiked ID: J1300-06MSD 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	0.034		0.003	U	0.04	85		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: Solid **Sample ID:** J1009-01 **Client ID:** AU-05-012518-ADUP
Percent Solids for Sample: 92.2 **Duplicate ID** J1009-01DUP **Percent Solids for Spike Sample:** 92.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	J	0.017	U	200.0	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: Solid **Sample ID:** J1009-01MS **Client ID:** AU-05-012518-AMSD
Percent Solids for Sample: 92.2 **Duplicate ID** J1009-01MSD **Percent Solids for Spike Sample:** 92.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: Solid **Sample ID:** J1300-02 **Client ID:** TP-1-5DUP
Percent Solids for Sample: 87.4 **Duplicate ID** J1300-02DUP **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.036	U	-0.038	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: Solid **Sample ID:** J1300-02MS **Client ID:** TP-1-5MSD
Percent Solids for Sample: 87.4 **Duplicate ID** J1300-02MSD **Percent Solids for Spike Sample:** 87.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.8		6		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: WATER **Sample ID:** J1300-06 **Client ID:** MANHOLEDUP
Percent Solids for Sample: 0 **Duplicate ID** J1300-06DUP **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	-0.0006	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92911 **Level:** LOW **SDG No.:** LB92911
Contract: **Lab Code:** CHEM **Case No.:** LB92911 **SAS No.:** LB92911
Matrix: WATER **Sample ID:** J1300-06MS **Client ID:** MANHOLEMSD
Percent Solids for Sample: 0 **Duplicate ID** J1300-06MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.034		0.034		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92911 SDG No.: LB92911
Contract: Lab Code: CHEM Case No.: LB92911 SAS No.: LB92911

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J1161-02 Cyanide	mg/Kg	0.49	0.3		61.2	50 - 150	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92911

SDG No.: LB92911

Contract:

Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J1161-08 Cyanide	mg/L	0.01	0.0064		64	50 - 150	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92911

SDG No.: LB92911

Contract:

Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105998BS Cyanide	mg/L	0.1	0.098		98	85 - 115	



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92911

SDG No.: LB92911

Contract:

Lab Code: CHEM

Case No.: LB92911

SAS No.: LB92911

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106013BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	

