

Daily Analysis Runlog For Sequence/QC Batch ID # LB89565

Review By

Review On

SubDirectory

LB89565

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP57294,WP57293,WP57292,WP57291,WP57290,WP57289				
ICV Standard		WP57295				
CCV Standard		WP57296				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57329,WP55836,WP53945				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	08/17/17 10:56		OK
2	S5.0	S5.0	CAL2	08/17/17 10:56		OK
3	S10.0	S10.0	CAL3	08/17/17 10:56		OK
4	S100.0	S100.0	CAL4	08/17/17 10:56		OK
5	S250.0	S250.0	CAL5	08/17/17 10:56		OK
6	S500.0	S500.0	CAL6	08/17/17 10:56		OK
7	ICV	ICV	ICV	08/17/17 11:57		OK
8	ICB	ICB	ICB	08/17/17 11:57		OK
9	CCV001	CCV001	CCV	08/17/17 11:57		OK
10	CCB001	CCB001	CCB	08/17/17 11:57		OK
11	PB101588BL	PBW005	MB	08/17/17 11:57		OK
12	I4722-01	ME7GE2	SAM	08/17/17 11:57		OK
13	I4722-02	ME7GE3	SAM	08/17/17 12:04		OK
14	I4722-03	ME7GE2D	DUP	08/17/17 12:04		OK
15	I4722-04	ME7GE2S	MS	08/17/17 12:05		OK
16	PB101587BL	PBS006	MB	08/17/17 12:05		OK
17	I4718-01	ME7GD3	SAM	08/17/17 12:05		OK
18	I4718-02	ME7GD3D	DUP	08/17/17 12:05		OK
19	I4718-03	ME7GD3S	MS	08/17/17 12:05		OK
20	PB101576BL	PBS006	MB	08/17/17 12:05		OK
21	I4716-01	ME7GB1	SAM	08/17/17 12:12		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89565

Review By		Review On				
SubDirectory		LB89565		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57294,WP57293,WP57292,WP57291,WP57290,WP57289				
ICV Standard		WP57295				
CCV Standard		WP57296				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57329,WP55836,WP53945				
22	I4716-02	ME7GB2	SAM	08/17/17 12:12		OK
23	I4716-03	ME7GB3	SAM	08/17/17 12:12		OK
24	I4716-04	ME7GB4	SAM	08/17/17 12:12		OK
25	I4716-05	ME7GB4D	DUP	08/17/17 12:12		OK
26	I4716-06	ME7GB4S	MS	08/17/17 12:12		OK
27	I4716-07	ME7GB7	SAM	08/17/17 12:12		OK
28	I4716-08	ME7GB8	SAM	08/17/17 12:12		OK
29	I4716-09	ME7GB9	SAM	08/17/17 12:12		OK
30	I4716-10	ME7GC0	SAM	08/17/17 12:20		OK
31	I4716-12	ME7GC2	SAM	08/17/17 12:20		OK
32	I4716-13	ME7GC3	SAM	08/17/17 12:20		OK
33	I4716-14	ME7GC4	SAM	08/17/17 12:20		OK
34	I4716-15	ME7GC5	SAM	08/17/17 12:20		OK
35	I4716-16	ME7GC6	SAM	08/17/17 12:20		OK
36	I4716-17	ME7GC7	SAM	08/17/17 12:20		OK
37	I4716-18	ME7GC8	SAM	08/17/17 12:20		OK
38	I4716-19	ME7GC9	SAM	08/17/17 12:20		OK
39	I4716-20	ME7GD0	SAM	08/17/17 12:20		OK
40	I4716-21	ME7GD1	SAM	08/17/17 12:25		OK
41	I4716-22	ME7GD2	SAM	08/17/17 12:25		OK
42	I4716-11	ME7GC1	SAM	08/17/17 12:37		OK
43	CCV002	CCV002	CCV	08/17/17 12:51		OK



Instrument ID : CN

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB89565

Review By		Review On				
SubDirectory		LB89565		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57294,WP57293,WP57292,WP57291,WP57290,WP57289				
ICV Standard		WP57295				
CCV Standard		WP57296				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57329,WP55836,WP53945				
44	CCB002	CCB002	CCB	08/17/17 12:51		OK



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB1	SDG No.:	LB89565
Lab Sample ID:	I4716-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.055	0.013	0.5	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB2	SDG No.:	LB89565
Lab Sample ID:	I4716-02	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	0.09	J	1	0.055	0.013	0.5	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB3	SDG No.:	LB89565
Lab Sample ID:	I4716-03	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.057	0.013	0.52	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB4	SDG No.:	LB89565
Lab Sample ID:	I4716-04	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.086	J	1	0.057	0.013	0.52	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB7	SDG No.:	LB89565
Lab Sample ID:	I4716-07	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.023	U	1	0.058	0.013	0.53	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB8	SDG No.:	LB89565
Lab Sample ID:	I4716-08	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	0.18	J	1	0.066	0.015	0.6	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GB9	SDG No.:	LB89565
Lab Sample ID:	I4716-09	Matrix:	Solid
Level (low/med):	low	% Solid:	95

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.056	0.013	0.51	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC0	SDG No.:	LB89565
Lab Sample ID:	I4716-10	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	0.13	J	1	0.056	0.013	0.51	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC1	SDG No.:	LB89565
Lab Sample ID:	I4716-11	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	0.012	U	1	0.062	0.014	0.56	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC2	SDG No.:	LB89565
Lab Sample ID:	I4716-12	Matrix:	Solid
Level (low/med):	low	% Solid:	85.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.063	0.014	0.57	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC3	SDG No.:	LB89565
Lab Sample ID:	I4716-13	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.03	U	1	0.064	0.014	0.58	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC4	SDG No.:	LB89565
Lab Sample ID:	I4716-14	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	0.011	U	1	0.057	0.013	0.52	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC5	SDG No.:	LB89565
Lab Sample ID:	I4716-15	Matrix:	Solid
Level (low/med):	low	% Solid:	87.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.06	0.014	0.55	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC6	SDG No.:	LB89565
Lab Sample ID:	I4716-16	Matrix:	Solid
Level (low/med):	low	% Solid:	84

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.081	J	1	0.064	0.014	0.58	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC7	SDG No.:	LB89565
Lab Sample ID:	I4716-17	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	0.03	U	1	0.059	0.013	0.54	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC8	SDG No.:	LB89565
Lab Sample ID:	I4716-18	Matrix:	Solid
Level (low/med):	low	% Solid:	93.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.28	J	1	0.057	0.013	0.52	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GC9	SDG No.:	LB89565
Lab Sample ID:	I4716-19	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.013	U	1	0.062	0.014	0.56	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GD0	SDG No.:	LB89565
Lab Sample ID:	I4716-20	Matrix:	Solid
Level (low/med):	low	% Solid:	70

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.005	U	1	0.076	0.017	0.69	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GD1	SDG No.:	LB89565
Lab Sample ID:	I4716-21	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	0.037	U	1	0.058	0.013	0.52	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GD2	SDG No.:	LB89565
Lab Sample ID:	I4716-22	Matrix:	Solid
Level (low/med):	low	% Solid:	79

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.067	0.015	0.61	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GD3	SDG No.:	LB89565
Lab Sample ID:	I4718-01	Matrix:	Solid
Level (low/med):	low	% Solid:	72.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.092	J	1	0.073	0.017	0.67	mg/kg	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GE2	SDG No.:	LB89565
Lab Sample ID:	I4722-01	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	0.72	U	1	1.5	5	10	ug/L	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GE3	SDG No.:	LB89565
Lab Sample ID:	I4722-02	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	0.65	U	1	1.5	5	10	ug/L	08/16/2017	08/17/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	8/8/2017 12:00:00 AM
Project:	LB89565	Date Received:	8/10/2017 12:00:00 AM
Client Sample ID:	ME7GE3	SDG No.:	LB89565
Lab Sample ID:	I4722-02	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



Hit Summary Sheet
SW-846

SDG No.: LB89565

Order ID: LB89565

Client: LB89565

Project ID: LB89565

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I4716-01	ME7GB1 ME7GB1	Solid	Cyanide	0.130	J	0.055	0.25	0.5	mg/kg
Client ID : I4716-02	ME7GB2 ME7GB2	Solid	Cyanide	0.090	J	0.055	0.25	0.5	mg/kg
Client ID : I4716-03	ME7GB3 ME7GB3	Solid	Cyanide	0.080	J	0.057	0.26	0.52	mg/kg
Client ID : I4716-04	ME7GB4 ME7GB4	Solid	Cyanide	0.086	J	0.057	0.26	0.52	mg/kg
Client ID : I4716-08	ME7GB8 ME7GB8	Solid	Cyanide	0.180	J	0.066	0.3	0.6	mg/kg
Client ID : I4716-10	ME7GC0 ME7GC0	Solid	Cyanide	0.130	J	0.056	0.255	0.51	mg/kg
Client ID : I4716-15	ME7GC5 ME7GC5	Solid	Cyanide	0.100	J	0.06	0.275	0.55	mg/kg
Client ID : I4716-16	ME7GC6 ME7GC6	Solid	Cyanide	0.081	J	0.064	0.29	0.58	mg/kg
Client ID : I4716-18	ME7GC8 ME7GC8	Solid	Cyanide	0.280	J	0.057	0.26	0.52	mg/kg
Client ID : I4718-01	ME7GD3 ME7GD3	Solid	Cyanide	0.092	J	0.073	0.335	0.67	mg/kg



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB89565 SDG No.: LB89565
Contract: _____ Lab Code: CHEM Method: _____
Case No.: LB89565 SAS No.: LB89565

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB101576							
PB101576BL	PBS006	MB	SOLID	08/17/2017	1.02	50.0	100.00
I4716-01	ME7GB1	SAM	SOLID	08/17/2017	1.04	50.0	95.40
I4716-02	ME7GB2	SAM	SOLID	08/17/2017	1.05	50.0	94.70
I4716-03	ME7GB3	SAM	SOLID	08/17/2017	1.04	50.0	92.40
I4716-04	ME7GB4	SAM	SOLID	08/17/2017	1.03	50.0	93.30
I4716-05	ME7GB4D	DUP	SOLID	08/17/2017	1.03	50.0	93.30
I4716-06	ME7GB4S	MS	SOLID	08/17/2017	1.05	50.0	93.30
I4716-07	ME7GB7	SAM	SOLID	08/17/2017	1.04	50.0	90.60
I4716-08	ME7GB8	SAM	SOLID	08/17/2017	1.06	50.0	78.80
I4716-09	ME7GB9	SAM	SOLID	08/17/2017	1.03	50.0	95.00
I4716-10	ME7GC0	SAM	SOLID	08/17/2017	1.04	50.0	94.20
I4716-12	ME7GC2	SAM	SOLID	08/17/2017	1.03	50.0	85.30
I4716-13	ME7GC3	SAM	SOLID	08/17/2017	1.04	50.0	83.10
I4716-14	ME7GC4	SAM	SOLID	08/17/2017	1.02	50.0	93.90
I4716-15	ME7GC5	SAM	SOLID	08/17/2017	1.04	50.0	87.70
I4716-16	ME7GC6	SAM	SOLID	08/17/2017	1.03	50.0	84.00
I4716-17	ME7GC7	SAM	SOLID	08/17/2017	1.05	50.0	88.40
I4716-18	ME7GC8	SAM	SOLID	08/17/2017	1.03	50.0	93.20
I4716-19	ME7GC9	SAM	SOLID	08/17/2017	1.02	50.0	86.90
I4716-20	ME7GD0	SAM	SOLID	08/17/2017	1.04	50.0	70.00
I4716-21	ME7GD1	SAM	SOLID	08/17/2017	1.03	50.0	92.60
I4716-22	ME7GD2	SAM	SOLID	08/17/2017	1.04	50.0	79.00
I4716-11	ME7GC1	SAM	SOLID	08/17/2017	1.02	50.0	87.00

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB89565</u>	SDG No.: <u>LB89565</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB89565</u>	SAS No.: <u>LB89565</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB101587							
PB101587BL	PBS006	MB	SOLID	08/17/2017	1.02	50.0	100.00
I4718-01	ME7GD3	SAM	SOLID	08/17/2017	1.03	50.0	72.90
I4718-02	ME7GD3D	DUP	SOLID	08/17/2017	1.04	50.0	72.90
I4718-03	ME7GD3S	MS	SOLID	08/17/2017	1.05	50.0	72.90

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: <u>LB89565</u>	SDG No.: <u>LB89565</u>	
Contract: _____	Lab Code: <u>CHEM</u>	Method: _____
	Case No.: <u>LB89565</u>	SAS No.: <u>LB89565</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB101588							
PB101588BL	PBW005	MB	WATER	08/17/2017	50.0	50.0	
I4722-01	ME7GE2	SAM	WATER	08/17/2017	50.0	50.0	
I4722-02	ME7GE3	SAM	WATER	08/17/2017	50.0	50.0	
I4722-03	ME7GE2D	DUP	WATER	08/17/2017	50.0	50.0	
I4722-04	ME7GE2S	MS	WATER	08/17/2017	50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89565 Contract: _____
Lab Code: CHEM Case No.: LB89565 MA No.: _____ SDG No.: LB89565
Instrument ID: CN Start Date: 08/17/2017
Analytical Method: _____ Run Batch: LB89565.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0.062	0	5	4.4	-12	10	9.6	-4

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB89565 Contract: _____
Lab Code: CHEM Case No.: LB89565 MA No.: _____ SDG No.: LB89565
Instrument ID: CN Start Date: 08/17/2017
Analytical Method: _____ Run Batch: LB89565.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	98.1	-2	250	255	2	500	498	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89565

SDG No.: LB89565

Contract: _____ **Lab Code:** CHEM

Case No.: LB89565

SAS No.: LB89565

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV	Cyanide	93.5	99	94	0	85 - 115	CN	08/17/2017	11:57	LB89565



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB89565

SDG No.: LB89565

Contract: _____ Lab Code: CHEM

Case No.: LB89565

SAS No.: LB89565

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV001	Cyanide	239	250	96	0	85 - 115	CN	08/17/2017	11:57	LB89565
CCV002	Cyanide	260	250	104	0	85 - 115	CN	08/17/2017	12:51	LB89565



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89565 **SDG No.:** LB89565
Contract: **Lab Code:** CHEM **Case No.:** LB89565 **SAS No.:** LB89565

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	08/17/2017	11:57	LB89565



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89565

SDG No.: LB89565

Contract:

Lab Code: CHEM

Case No.: LB89565

SAS No.: LB89565

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	08/17/2017	11:57	LB89565
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	08/17/2017	12:51	LB89565



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89565

SDG No.: LB89565

Contract:

Lab Code: CHEM

Case No.: LB89565

SAS No.: LB89565

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

Client: LB89565

SDG No.: LB89565

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB101576BL		SOLID		Batch Number:	PB101576			Prep Date:	08/16/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	08/17/2017	12:05	LB89565
Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB101587BL		SOLID		Batch Number:	PB101587			Prep Date:	08/16/2017	
	Cyanide	0.054	<0.49	U	0.012	0.49	CN	08/17/2017	12:05	LB89565
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB101588BL		WATER		Batch Number:	PB101588			Prep Date:	08/16/2017	
	Cyanide	0.084	<10	U	5.0	10	CN	08/17/2017	11:57	LB89565



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89565 level: low sdg no.: LB89565
contract: lab code: CHEM case no.: LB89565 sas no.: LB89565
matrix: Solid sample id: I4716-04 client id: ME7GB4S
Percent Solids for Sample: 93.3 Spiked ID: I4716-06 Percent Solids for Spike Sample: 93.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.6		0.086	J	5.1	89		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89565 level: low sdg no.: LB89565
contract: lab code: CHEM case no.: LB89565 sas no.: LB89565
matrix: Solid sample id: I4718-01 client id: ME7GD3S
Percent Solids for Sample: 72.9 Spiked ID: I4718-03 Percent Solids for Spike Sample: 72.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	5.0		0.092	J	6.5	76		CN



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB89565 level: low sdg no.: LB89565
contract: lab code: CHEM case no.: LB89565 sas no.: LB89565
matrix: WATER sample id: I4722-01 client id: ME7GE2S
Percent Solids for Sample: 0 Spiked ID: I4722-04 Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	ug/L	75 - 125	80.1		10.0	U	100	80		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89565 **Level:** LOW **SDG No.:** LB89565
Contract: **Lab Code:** CHEM **Case No.:** LB89565 **SAS No.:** LB89565
Matrix: Solid **Sample ID:** I4716-04 **Client ID:** ME7GB4D
Percent Solids for Sample: 93.3 **Duplicate ID** I4716-05 **Percent Solids for Spike Sample:** 93.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.086	J	0.083	J	4		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89565 **Level:** LOW **SDG No.:** LB89565
Contract: **Lab Code:** CHEM **Case No.:** LB89565 **SAS No.:** LB89565
Matrix: Solid **Sample ID:** I4718-01 **Client ID:** ME7GD3D
Percent Solids for Sample: 72.9 **Duplicate ID** I4718-02 **Percent Solids for Spike Sample:** 72.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.092	J	0.076	J	19		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB89565 **Level:** LOW **SDG No.:** LB89565
Contract: **Lab Code:** CHEM **Case No.:** LB89565 **SAS No.:** LB89565
Matrix: WATER **Sample ID:** I4722-01 **Client ID:** ME7GE2D
Percent Solids for Sample: 0 **Duplicate ID** I4722-03 **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	ug/L	20	10.0	U	0.41	U			CN