

Daily Analysis Runlog For Sequence/QC Batch ID # LB87269

Review By

Review On

SubDirectory

LB87269

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP54675,WP54674,WP54673,WP54672,WP54671,WP54670				
ICV Standard		WP54676				
CCV Standard		WP54677				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54691,WP51626,WP53945,WP53908				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	05/05/17 10:20		OK
2	S5.0	S5.0	CAL2	05/05/17 10:20		OK
3	S10.0	S10.0	CAL3	05/05/17 10:20		OK
4	S100.0	S100.0	CAL4	05/05/17 10:20		OK
5	S250.0	S250.0	CAL5	05/05/17 10:20		OK
6	S500.0	S500.0	CAL6	05/05/17 10:20		OK
7	ICV	ICV	ICV	05/05/17 11:09		OK
8	ICB	ICB	ICB	05/05/17 11:09		OK
9	CCV001	CCV001	CCV	05/05/17 11:09		OK
10	CCB001	CCB001	CCB	05/05/17 11:09		OK
11	PB98707BL	PBS006	MB	05/05/17 11:09		OK
12	I2911-02	MF4E60	SAM	05/05/17 11:09		OK
13	I2911-03	MF4E61	SAM	05/05/17 11:09		OK
14	I2911-04	MF4E62	SAM	05/05/17 11:09		OK
15	I2911-05	MF4E63	SAM	05/05/17 11:09		OK
16	I2911-06	MF4E64	SAM	05/05/17 11:09		OK
17	I2911-07	MF4E32	SAM	05/05/17 11:16		OK
18	I2911-08	MF4E33	SAM	05/05/17 11:16		OK
19	I2911-09	MF4E34	SAM	05/05/17 11:16		OK
20	I2911-10	MF4E35	SAM	05/05/17 11:16		OK
21	I2911-11	MF4E36	SAM	05/05/17 11:16		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB87269

Review By			Review On			
SubDirectory		LB87269		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54675,WP54674,WP54673,WP54672,WP54671,WP54670				
ICV Standard		WP54676				
CCV Standard		WP54677				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54691,WP51626,WP53945,WP53908				
22	I2911-12	MF4E36D	DUP	05/05/17 11:16		OK
23	I2911-13	MF4E36S	MS	05/05/17 11:16		OK
24	I2911-14	MF4E37	SAM	05/05/17 11:16		OK
25	I2911-15	MF4E38	SAM	05/05/17 11:16		OK
26	I2911-16	MF4E39	SAM	05/05/17 11:16		OK
27	I2911-17	MF4E40	SAM	05/05/17 11:23		OK
28	I2911-18	MF4E41	SAM	05/05/17 11:23		OK
29	I2911-19	MF4E42	SAM	05/05/17 11:23		OK
30	I2911-20	MF4E54	SAM	05/05/17 11:23		OK
31	I2911-21	MF4E55	SAM	05/05/17 11:23		OK
32	PB98708BL	PBW005	MB	05/05/17 11:23		OK
33	I2910-01	MF4A11	SAM	05/05/17 11:23		OK
34	I2911-01	MF4A12	SAM	05/05/17 11:23		OK
35	CCV002	CCV002	CCV	05/05/17 11:23		OK
36	CCB002	CCB002	CCB	05/05/17 11:23		OK
37	I2911-11A	MF4E36A	PS	05/05/17 11:49	Not required	Not Ok
38	CCV003	CCV003	CCV	05/05/17 11:49		OK
39	CCB003	CCB003	CCB	05/05/17 11:49		OK



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Report of Analysis

Client:		Date Collected:	4/26/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4A11	SDG No.:	LB87269
Lab Sample ID:	I2910-01	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	U	1	1.5	5	10	ug/L	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4A12	SDG No.:	LB87269
Lab Sample ID:	I2911-01	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	U	1	1.5	5	10	ug/L	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E60	SDG No.:	LB87269
Lab Sample ID:	I2911-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.06	0.014	0.55	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E61	SDG No.:	LB87269
Lab Sample ID:	I2911-03	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	U	1	0.063	0.014	0.57	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E62	SDG No.:	LB87269
Lab Sample ID:	I2911-04	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	U	1	0.058	0.013	0.53	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E63	SDG No.:	LB87269
Lab Sample ID:	I2911-05	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	U	1	0.062	0.014	0.56	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E64	SDG No.:	LB87269
Lab Sample ID:	I2911-06	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.57	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E32	SDG No.:	LB87269
Lab Sample ID:	I2911-07	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

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	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E33	SDG No.:	LB87269
Lab Sample ID:	I2911-08	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.55	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E34	SDG No.:	LB87269
Lab Sample ID:	I2911-09	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	U	1	0.063	0.014	0.58	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E35	SDG No.:	LB87269
Lab Sample ID:	I2911-10	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	U	1	0.061	0.014	0.56	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E36	SDG No.:	LB87269
Lab Sample ID:	I2911-11	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	U	1	0.063	0.014	0.57	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E37	SDG No.:	LB87269
Lab Sample ID:	I2911-14	Matrix:	Solid
Level (low/med):	low	% Solid:	84.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.061	0.014	0.56	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E38	SDG No.:	LB87269
Lab Sample ID:	I2911-15	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.062	0.014	0.56	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E39	SDG No.:	LB87269
Lab Sample ID:	I2911-16	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

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	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E40	SDG No.:	LB87269
Lab Sample ID:	I2911-17	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	U	1	0.06	0.014	0.55	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E41	SDG No.:	LB87269
Lab Sample ID:	I2911-18	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	U	1	0.061	0.014	0.55	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E42	SDG No.:	LB87269
Lab Sample ID:	I2911-19	Matrix:	Solid
Level (low/med):	low	% Solid:	80

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.065	0.015	0.59	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E54	SDG No.:	LB87269
Lab Sample ID:	I2911-20	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.057	0.013	0.52	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E55	SDG No.:	LB87269
Lab Sample ID:	I2911-21	Matrix:	Solid
Level (low/med):	low	% Solid:	80.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0	U	1	0.066	0.015	0.61	mg/kg	05/04/2017	05/05/2017	ISM02.4_CN



Report of Analysis

Client:		Date Collected:	4/27/2017 12:00:00 AM
Project:	LB87269	Date Received:	4/28/2017 12:00:00 AM
Client Sample ID:	MF4E55	SDG No.:	LB87269
Lab Sample ID:	I2911-21	Matrix:	Solid
Level (low/med):	low	% Solid:	80.3

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



Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB87269 **SDG No.:** LB87269
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB87269 **SAS No.:** LB87269

					Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB98707							
PB98707BL	PBS006	MB	SOLID	05/05/2017	1.00	50.0	100.00
I2911-02	MF4E60	SAM	SOLID	05/05/2017	1.03	50.0	88.70
I2911-03	MF4E61	SAM	SOLID	05/05/2017	1.02	50.0	85.70
I2911-04	MF4E62	SAM	SOLID	05/05/2017	1.04	50.0	90.70
I2911-05	MF4E63	SAM	SOLID	05/05/2017	1.06	50.0	84.30
I2911-06	MF4E64	SAM	SOLID	05/05/2017	1.05	50.0	83.90
I2911-07	MF4E32	SAM	SOLID	05/05/2017	1.04	50.0	84.40
I2911-08	MF4E33	SAM	SOLID	05/05/2017	1.03	50.0	87.60
I2911-09	MF4E34	SAM	SOLID	05/05/2017	1.05	50.0	82.50
I2911-10	MF4E35	SAM	SOLID	05/05/2017	1.06	50.0	84.50
I2911-11	MF4E36	SAM	SOLID	05/05/2017	1.04	50.0	84.30
I2911-12	MF4E36D	DUP	SOLID	05/05/2017	1.04	50.0	84.30
I2911-13	MF4E36S	MS	SOLID	05/05/2017	1.05	50.0	84.30
I2911-14	MF4E37	SAM	SOLID	05/05/2017	1.06	50.0	84.70
I2911-15	MF4E38	SAM	SOLID	05/05/2017	1.04	50.0	85.50
I2911-16	MF4E39	SAM	SOLID	05/05/2017	1.05	50.0	83.70
I2911-17	MF4E40	SAM	SOLID	05/05/2017	1.06	50.0	86.20
I2911-18	MF4E41	SAM	SOLID	05/05/2017	1.04	50.0	86.90
I2911-19	MF4E42	SAM	SOLID	05/05/2017	1.06	50.0	80.00
I2911-20	MF4E54	SAM	SOLID	05/05/2017	1.07	50.0	90.00
I2911-21	MF4E55	SAM	SOLID	05/05/2017	1.03	50.0	80.30

Metals
- 13 -

SAMPLE PREPARATION SUMMARY

Client: LB87269

SDG No.: LB87269

Contract:

Lab Code: CHEM

Method:

Case No.: LB87269

SAS No.: LB87269

						Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB98708								
PB98708BL	PBW005	MB	WATER	05/05/2017		50.0	50.0	
I2910-01	MF4A11	SAM	WATER	05/05/2017		50.0	50.0	
I2911-01	MF4A12	SAM	WATER	05/05/2017		50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87269 Contract: _____
Lab Code: CHEM Case No.: LB87269 MA No.: _____ SDG No.: LB87269
Instrument ID: CN Start Date: 05/05/2017
Analytical Method: _____ Run Batch: LB87269.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	6.2	24	10	8.9	-11

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB87269 Contract: _____
Lab Code: CHEM Case No.: LB87269 MA No.: _____ SDG No.: LB87269
Instrument ID: CN Start Date: 05/05/2017
Analytical Method: _____ Run Batch: LB87269.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	250	0	500	500	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87269

SDG No.: LB87269

Contract: _____

Lab Code: CHEM

Case No.: LB87269

SAS No.: LB87269

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	93.8	99	95	0	85 - 115	CN	05/05/2017	11:09	LB87269

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB87269**SDG No.:** LB87269**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB87269**SAS No.:** LB87269**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	237	250	95	0	85 - 115	CN	05/05/2017	11:09	LB87269
CCV002	Cyanide	241	250	96	0	85 - 115	CN	05/05/2017	11:23	LB87269
CCV003	Cyanide	253	250	101	0	85 - 115	CN	05/05/2017	11:49	LB87269



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87269 **SDG No.:** LB87269
Contract: **Lab Code:** CHEM **Case No.:** LB87269 **SAS No.:** LB87269

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	05/05/2017	11:09	LB87269



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87269

SDG No.: LB87269

Contract:

Lab Code: CHEM

Case No.: LB87269

SAS No.: LB87269

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	05/05/2017	11:09	LB87269
CCB002	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/05/2017	11:23	LB87269
CCB003	Cyanide	1.5	+/-10.0	U	5.0	10.0	CN	05/05/2017	11:49	LB87269



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87269

SDG No.: LB87269

Contract: Lab Code: CHEM

Case No.: LB87269

SAS No.: LB87269

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: LB87269

SDG No.: LB87269

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB98707BL	SOLID		Batch Number:		PB98707		Prep Date:		05/04/2017	
	Cyanide	0.055	<0.5	J	0.013	0.5	CN	05/05/2017	11:09	LB87269
Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB98708BL	WATER		Batch Number:		PB98708		Prep Date:		05/04/2017	
	Cyanide	1.5	<10	U	5.0	10	CN	05/05/2017	11:23	LB87269



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB87269 level: low sdg no.: LB87269
contract: lab code: CHEM case no.: LB87269 sas no.: LB87269
matrix: Solid sample id: I2911-11 client id: MF4E36S
Percent Solids for Sample: 84.3 Spiked ID: I2911-13 Percent Solids for Spike Sample: 84.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.2		0.57	U	5.6	75		CN



Sample ID: I2911-11 **Spiked ID:** I2911-11A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	1.4		0.57	U	1.1	127		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB87269 **Level:** LOW **SDG No.:** LB87269
Contract: **Lab Code:** CHEM **Case No.:** LB87269 **SAS No.:** LB87269
Matrix: Solid **Sample ID:** I2911-11 **Client ID:** MF4E36D
Percent Solids for Sample: 84.3 **Duplicate ID** I2911-12 **Percent Solids for Spike Sample:** 84.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.57	U		0	U		CN