

Daily Analysis Runlog For Sequence/QC Batch ID # LB90552

Review By

SubDirectory

Review On

Test : Cyanide

LB90552

STD. NAME		STD REF.#				
ICAL Standard		WP58411,WP58410,WP58409,WP58408,WP58407,WP58406				
ICV Standard		WP58412				
CCV Standard		WP58413				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		N/A				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	10/04/17 12:16		OK
2	S5.0	S5.0	CAL2	10/04/17 12:16		OK
3	S10.0	S10.0	CAL3	10/04/17 12:16		OK
4	S100.0	S100.0	CAL4	10/04/17 12:16		OK
5	S250.0	S250.0	CAL5	10/04/17 12:16		OK
6	S500.0	S500.0	CAL6	10/04/17 12:16		OK
7	ICV	ICV	ICV	10/04/17 13:34		OK
8	ICB	ICB	ICB	10/04/17 13:34		OK
9	CCV001	CCV001	CCV	10/04/17 13:34		OK
10	CCB001	CCB001	CCB	10/04/17 13:34		OK
11	PB102751BL	PBS006	MB	10/04/17 13:34		OK
12	I5533-01	B-56(1-2)-092717	SAM	10/04/17 13:34		OK
13	I5533-02	B-56(2-4)-092717	SAM	10/04/17 13:42		OK
14	I5533-03	B-77(0-1)-092817	SAM	10/04/17 13:42		OK
15	I5533-06	B-77(1-3)-092817	SAM	10/04/17 13:42		OK
16	I5533-07	DUP-1	SAM	10/04/17 13:42		OK
17	I5533-08	B-54(7-8)-092817	SAM	10/04/17 13:42		OK
18	I5533-09	B-54(1-2)-092817	SAM	10/04/17 13:42		OK
19	I5533-10	B-53(0-1)-092817	SAM	10/04/17 13:42		OK
20	I5533-15	B-77(0-1)-092817D	DUP	10/04/17 13:42		OK
21	I5533-16	B-77(0-1)-092817S	MS	10/04/17 13:42		OK



Instrument ID : CN

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

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SubDirectory		Test : Cyanide				
LB90552						
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ICAL Standard		WP58411,WP58410,WP58409,WP58408,WP58407,WP58406				
ICV Standard		WP58412				
CCV Standard		WP58413				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		N/A				
22	CCV002	CCV002	CCV	10/04/17 13:42		OK
23	CCB002	CCB002	CCB	10/04/17 13:44		OK



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-56(1-2)-092717	SDG No.:	LB90552
Lab Sample ID:	I5533-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.67		1	0.059	0.013	0.54	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/27/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-56(2-4)-092717	SDG No.:	LB90552
Lab Sample ID:	I5533-02	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	0.11	J	1	0.064	0.015	0.58	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-77(0-1)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.8

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	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-77(1-3)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-06	Matrix:	Solid
Level (low/med):	low	% Solid:	96.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.36	J	1	0.054	0.012	0.49	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	DUP-1	SDG No.:	LB90552
Lab Sample ID:	I5533-07	Matrix:	Solid
Level (low/med):	low	% Solid:	95.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.3	J	1	0.055	0.013	0.5	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-54(7-8)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-08	Matrix:	Solid
Level (low/med):	low	% Solid:	67.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.26	J	1	0.079	0.018	0.72	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-54(1-2)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-09	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	0.085	J	1	0.059	0.013	0.54	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-53(0-1)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-10	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	0.3	J	1	0.055	0.013	0.5	mg/kg	09/29/2017	10/04/2017	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	9/28/2017 12:00:00 AM
Project:	LB90552	Date Received:	9/28/2017 12:00:00 AM
Client Sample ID:	B-53(0-1)-092817	SDG No.:	LB90552
Lab Sample ID:	I5533-10	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.
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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**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB90552**SDG No.:** LB90552**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB90552**SAS No.:** LB90552**Initial Calibration Source:** _____**Continuing Calibration Source:** _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		ug/L								
ICV	Cyanide	94.0	99	95	0	85 - 115	CN	10/04/2017	13:34	LB90552



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90552

SDG No.: LB90552

Contract: _____ Lab Code: CHEM

Case No.: LB90552

SAS No.: LB90552

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	246	250	98	0	85 - 115	CN	10/04/2017	13:34	LB90552
CCV002	Cyanide	237	250	95	0	85 - 115	CN	10/04/2017	13:42	LB90552



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90552 **SDG No.:** LB90552
Contract: **Lab Code:** CHEM **Case No.:** LB90552 **SAS No.:** LB90552

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.072	+/-10.0	U	5.0	10.0	CN	10/04/2017	13:34	LB90552



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90552

SDG No.: LB90552

Contract:

Lab Code: CHEM

Case No.: LB90552

SAS No.: LB90552

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	0.74	+/-10.0	U	5.0	10.0	CN	10/04/2017	13:34	LB90552
CCB002	Cyanide	0.31	+/-10.0	U	5.0	10.0	CN	10/04/2017	13:44	LB90552



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90552

SDG No.: LB90552

Contract: Lab Code: CHEM

Case No.: LB90552

SAS No.: LB90552

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: LB90552

SDG No.: LB90552

Instrument: CN

Sample ID	Analyte	Result (mg/kg)	Acceptance Limit	Conc Qual	LOD mg/kg	CRQL mg/kg	M	Analysis Date	Analysis Time	Run
PB102751BL		SOLID		Batch Number:		PB102751		Prep Date:	09/29/2017	
	Cyanide	0.018	<0.49	U	0.012	0.49	CN	10/04/2017	13:34	LB90552



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB90552 level: low sdg no.: LB90552
contract: lab code: CHEM case no.: LB90552 sas no.: LB90552
matrix: Solid sample id: I5533-03 client id: B-77(0-1)-092817S
Percent Solids for Sample: 96.8 Spiked ID: I5533-16 Percent Solids for Spike Sample: 96.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/kg	75 - 125	4.4		0.13	J	5	85		CN

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90552 **Level:** LOW **SDG No.:** LB90552
Contract: **Lab Code:** CHEM **Case No.:** LB90552 **SAS No.:** LB90552
Matrix: Solid **Sample ID:** I5533-03 **Client ID:** B-77(0-1)-092817D
Percent Solids for Sample: 96.8 **Duplicate ID** I5533-15 **Percent Solids for Spike Sample:** 96.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/kg	20	0.13	J	0.13	J	0		CN



Hit Summary Sheet
SW-846

SDG No.: LB90552

Order ID: LB90552

Client: LB90552

Project ID: LB90552

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : I5533-01	B-56(1-2)-092717 B-56(1-2)-092717	Solid	Cyanide	0.670		0.059	0.27	0.54	mg/kg
Client ID : I5533-02	B-56(2-4)-092717 B-56(2-4)-092717	Solid	Cyanide	0.110	J	0.064	0.29	0.58	mg/kg
Client ID : I5533-03	B-77(0-1)-092817 B-77(0-1)-092817	Solid	Cyanide	0.130	J	0.055	0.25	0.5	mg/kg
Client ID : I5533-06	B-77(1-3)-092817 B-77(1-3)-092817	Solid	Cyanide	0.360	J	0.054	0.245	0.49	mg/kg
Client ID : I5533-07	DUP-1 DUP-1	Solid	Cyanide	0.300	J	0.055	0.25	0.5	mg/kg
Client ID : I5533-08	B-54(7-8)-092817 B-54(7-8)-092817	Solid	Cyanide	0.260	J	0.079	0.36	0.72	mg/kg
Client ID : I5533-09	B-54(1-2)-092817 B-54(1-2)-092817	Solid	Cyanide	0.085	J	0.059	0.27	0.54	mg/kg
Client ID : I5533-10	B-53(0-1)-092817 B-53(0-1)-092817	Solid	Cyanide	0.300	J	0.055	0.25	0.5	mg/kg



Metals
- 10 -

Client: LB90552

SDG No.: LB90552

Contract:

Lab Code: CHEM

Case No.: LB90552

SAS No.: LB90552

Instrument ID: P4

Preparation Method:

Analyte	Wave- length (nm)	MDL	LOD	PQL	Date:
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LIQUID

Method: Cyanide	578.00				
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SOLIDS

Method: Cyanide	578.00				
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Metals
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SAMPLE PREPARATION SUMMARY

Client: LB90552 **SDG No.:** LB90552
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB90552 **SAS No.:** LB90552

						Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date				
Batch Number: PB102751								
PB102751BL	PBS006	MB	SOLID	10/04/2017		1.02	50.0	100.00
I5533-01	B-56(1-2)-092717	SAM	SOLID	10/04/2017		1.04	50.0	89.10
I5533-02	B-56(2-4)-092717	SAM	SOLID	10/04/2017		1.05	50.0	81.70
I5533-03	B-77(0-1)-092817	SAM	SOLID	10/04/2017		1.03	50.0	96.80
I5533-06	B-77(1-3)-092817	SAM	SOLID	10/04/2017		1.05	50.0	96.50
I5533-07	DUP-1	SAM	SOLID	10/04/2017		1.04	50.0	95.30
I5533-08	B-54(7-8)-092817	SAM	SOLID	10/04/2017		1.03	50.0	67.60
I5533-09	B-54(1-2)-092817	SAM	SOLID	10/04/2017		1.04	50.0	89.50
I5533-10	B-53(0-1)-092817	SAM	SOLID	10/04/2017		1.05	50.0	94.60
I5533-15	B-77(0-1)-092817D	DUP	SOLID	10/04/2017		1.05	50.0	96.80
I5533-16	B-77(0-1)-092817S	MS	SOLID	10/04/2017		1.04	50.0	96.80



Start Date: _____ **End Date:** _____

[illegible]