

Daily Analysis Runlog For Sequence/QC Batch ID # LB94314

Review By

Review On

SubDirectory

LB94314

Test :

Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP63213,WP63214,WP63215,WP63216,WP63217,WP63218
ICV Standard	WP63219
CCV Standard	WP63220
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP63254,WP59958,WP58653

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	S0.0	S0.0	CAL1	04/02/18 15:18		OK
2	S5.0	S5.0	CAL2	04/02/18 15:18		OK
3	S10.0	S10.0	CAL3	04/02/18 15:18		OK
4	S100.0	S100.0	CAL4	04/02/18 15:18		OK
5	S250.0	S250.0	CAL5	04/02/18 15:18		OK
6	S500.0	S500.0	CAL6	04/02/18 15:18		OK
7	ICV	ICV	ICV	04/02/18 15:49		OK
8	ICB	ICB	ICB	04/02/18 15:49		OK
9	CCV001	CCV001	CCV	04/02/18 15:49		OK
10	CCB001	CCB001	CCB	04/02/18 15:49		OK
11	PB107855BL	PBW005	MB	04/02/18 15:49		OK
12	J2083-02	SY-3DD-20180326	SAM	04/02/18 15:49		OK
13	J2116-01	SY-3D-20180327	SAM	04/02/18 15:49		OK
14	J2116-02	SY-3D-20180327S	MS	04/02/18 15:50		OK
15	J2116-03	SY-3D-20180327D	DUP	04/02/18 15:50		OK
16	J2116-04	SY-3-20180327	SAM	04/02/18 15:50		OK
17	J2116-05	SY-2R-20180327	SAM	04/02/18 15:56		OK
18	J2116-06	SY-5-20180327	SAM	04/02/18 15:56		OK
19	J2116-07	SY-2D-20180327	SAM	04/02/18 15:56		OK
20	J2136-01	PK-10D-20180328	SAM	04/02/18 15:56		OK
21	J2136-02	PK-10S-20180328	SAM	04/02/18 15:56		OK



Instrument ID : CN

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

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Review By		Review On				
SubDirectory		Test : Cyanide				
LB94314						
STD. NAME		STD REF.#				
ICAL Standard		WP63213,WP63214,WP63215,WP63216,WP63217,WP63218				
ICV Standard		WP63219				
CCV Standard		WP63220				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP63254,WP59958,WP58653				
22	J2136-03	PK-10I-20180328	SAM	04/02/18 15:56		OK
23	J2083-01	SY-6-20180326	SAM	04/02/18 16:14		OK
24	CCV002	CCV002	CCV	04/02/18 16:14		OK
25	CCB002	CCB002	CCB	04/02/18 16:14		OK



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/27/2018 12:00:00 AM
Client Sample ID:	SY-6-20180326	SDG No.:	LB94314
Lab Sample ID:	J2083-01	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	0.3	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/26/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/27/2018 12:00:00 AM
Client Sample ID:	SY-3DD-20180326	SDG No.:	LB94314
Lab Sample ID:	J2083-02	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	2.7	J	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	SY-3D-20180327	SDG No.:	LB94314
Lab Sample ID:	J2116-01	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	0.45	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	SY-3-20180327	SDG No.:	LB94314
Lab Sample ID:	J2116-04	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	1.3	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	SY-2R-20180327	SDG No.:	LB94314
Lab Sample ID:	J2116-05	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	3.7	J	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	SY-5-20180327	SDG No.:	LB94314
Lab Sample ID:	J2116-06	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	0.39	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/27/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	SY-2D-20180327	SDG No.:	LB94314
Lab Sample ID:	J2116-07	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	1.1	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PK-10D-20180328	SDG No.:	LB94314
Lab Sample ID:	J2136-01	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	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PK-10S-20180328	SDG No.:	LB94314
Lab Sample ID:	J2136-02	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	0.43	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PK-10I-20180328	SDG No.:	LB94314
Lab Sample ID:	J2136-03	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	0.29	U	1	2.1	5	10	ug/L	03/30/2018	04/02/2018	ISM02.4_CN



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Report of Analysis

Client:		Date Collected:	3/28/2018 12:00:00 AM
Project:	LB94314	Date Received:	3/28/2018 12:00:00 AM
Client Sample ID:	PK-10I-20180328	SDG No.:	LB94314
Lab Sample ID:	J2136-03	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



Metals
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SAMPLE PREPARATION SUMMARY

Client: LB94314 **SDG No.:** LB94314
Contract: **Lab Code:** CHEM **Method:**
Case No.: LB94314 **SAS No.:** LB94314

					Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Sample ID	Client ID	Sample Type	Matrix	Prep Date			
Batch Number: PB107855							
PB107855BL	PBW005	MB	WATER	04/02/2018	50.0	50.0	
J2083-02	SY-3DD-20180326	SAM	WATER	04/02/2018	50.0	50.0	
J2116-01	SY-3D-20180327	SAM	WATER	04/02/2018	50.0	50.0	
J2116-02	SY-3D-20180327S	MS	WATER	04/02/2018	50.0	50.0	
J2116-03	SY-3D-20180327D	DUP	WATER	04/02/2018	50.0	50.0	
J2116-04	SY-3-20180327	SAM	WATER	04/02/2018	50.0	50.0	
J2116-05	SY-2R-20180327	SAM	WATER	04/02/2018	50.0	50.0	
J2116-06	SY-5-20180327	SAM	WATER	04/02/2018	50.0	50.0	
J2116-07	SY-2D-20180327	SAM	WATER	04/02/2018	50.0	50.0	
J2136-01	PK-10D-20180328	SAM	WATER	04/02/2018	50.0	50.0	
J2136-02	PK-10S-20180328	SAM	WATER	04/02/2018	50.0	50.0	
J2136-03	PK-10I-20180328	SAM	WATER	04/02/2018	50.0	50.0	
J2083-01	SY-6-20180326	SAM	WATER	04/02/2018	50.0	50.0	

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB94314 Contract: _____
Lab Code: CHEM Case No.: LB94314 MA No.: _____ SDG No.: LB94314
Instrument ID: CN Start Date: 04/02/2018
Analytical Method: _____ Run Batch: LB94314.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	0	0	0	5	4.4	-12	10	9.8	-2

FORM 15-IN
INITIAL CALIBRATION

Lab Name: LB94314 Contract: _____
Lab Code: CHEM Case No.: LB94314 MA No.: _____ SDG No.: LB94314
Instrument ID: CN Start Date: 04/02/2018
Analytical Method: _____ Run Batch: LB94314.mdb
Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Cyanide	100	101	1	250	251	0	500	499	0



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94314

SDG No.: LB94314

Contract: _____ Lab Code: CHEM

Case No.: LB94314

SAS No.: LB94314

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	94.6	99	96	0	85 - 115	CN	04/02/2018	15:49	LB94314

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB94314**SDG No.:** LB94314**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB94314**SAS No.:** LB94314**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	245	250	98	0	85 - 115	CN	04/02/2018	15:49	LB94314
CCV002	Cyanide	258	250	103	0	85 - 115	CN	04/02/2018	16:14	LB94314



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94314 **SDG No.:** LB94314
Contract: **Lab Code:** CHEM **Case No.:** LB94314 **SAS No.:** LB94314

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB	Cyanide	0.12	+/-10.0	U	5.0	10.0	CN	04/02/2018	15:49	LB94314



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94314

SDG No.: LB94314

Contract:

Lab Code: CHEM

Case No.: LB94314

SAS No.: LB94314

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB001	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	04/02/2018	15:49	LB94314
CCB002	Cyanide	2.1	+/-10.0	U	5.0	10.0	CN	04/02/2018	16:14	LB94314



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB94314	SDG No.:	LB94314				
Contract:		Lab Code:	CHEM	Case No.:	LB94314	SAS No.:	LB94314

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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SDG No.: LB94314

Instrument: CN

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	LOD ug/L	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB107855BL		WATER		Batch Number:		PB107855		Prep Date:	03/30/2018	
	Cyanide	2.1	<10	U	5.0	10	CN	04/02/2018	15:49	LB94314



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB94314 level: low sdg no.: LB94314
contract: lab code: CHEM case no.: LB94314 sas no.: LB94314
matrix: WATER sample id: J2116-01 client id: SY-3D-20180327S
Percent Solids for Sample: 0 Spiked ID: J2116-02 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	78.9		10.0	U	100	79		CN

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB94314 **Level:** LOW **SDG No.:** LB94314
Contract: **Lab Code:** CHEM **Case No.:** LB94314 **SAS No.:** LB94314
Matrix: WATER **Sample ID:** J2116-01 **Client ID:** SY-3D-20180327D
Percent Solids for Sample: 0 **Duplicate ID** J2116-03 **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	0.56	U			CN