

Daily Analysis Runlog For Sequence/QC Batch ID # LB91613

Review By		Review On				
SubDirectory		LB91613		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59639,WP59640,WP59641,WP59642,WP59643,WP59644,WP59645				
ICV Standard		WP59648				
CCV Standard		WP59646				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59647				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/15/17 12:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/15/17 12:13		OK
3	10PPBCN	10PPBCN	CAL3	11/15/17 12:13		OK
4	50PPBCN	50PPBCN	CAL4	11/15/17 12:13		OK
5	100PPBCN	100PPBCN	CAL5	11/15/17 12:13		OK
6	250PPBCN	250PPBCN	CAL6	11/15/17 12:13		OK
7	500PPBCN	500PPBCN	CAL7	11/15/17 12:13		OK
8	ICV1	ICV1	ICV	11/15/17 14:10		OK
9	ICB1	ICB1	ICB	11/15/17 14:10		OK
10	CCV1	CCV1	CCV	11/15/17 14:10		OK
11	CCB1	CCB1	CCB	11/15/17 14:10		OK
12	I6289-06	SU-01-111417	SAM	11/15/17 14:10		OK
13	I6289-06DUP	SU-01-111417DUP	DUP	11/15/17 14:10		OK
14	I6476-02	72-11934-290	SAM	11/15/17 14:17		OK
15	I6476-04	SP-1-RIGHT	SAM	11/15/17 14:17		OK
16	I6476-06	SP-1-LEFT	SAM	11/15/17 14:17		OK
17	I6478-02	SP-1-A	SAM	11/15/17 14:17		OK
18	I6478-06	SP-1-C	SAM	11/15/17 14:17		OK
19	I6478-08	SP-1-D	SAM	11/15/17 14:17		OK
20	CCV2	CCV2	CCV	11/15/17 14:17		OK
21	CCB2	CCB2	CCB	11/15/17 14:17		OK

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ICV Standard		WP59648				
CCV Standard		WP59646				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59647				
22	I6479-02	T-20	SAM	11/15/17 14:17		OK
23	I6479-04	POT-HEAD	SAM	11/15/17 14:17		OK
24	I6481-03	SCMUA-SLUDGE-C	SAM	11/15/17 14:22		OK
25	PB104289BL	PB104289BL	MB	11/15/17 14:22		OK
26	I6477-02	TOTE-1-2	SAM	11/15/17 14:22		OK
27	I6477-02DUP	TOTE-1-2DUP	DUP	11/15/17 14:22		OK
28	PB104288BL	PB104288BL	MB	11/15/17 14:42		OK
29	I6478-04	SP-1-B	SAM	11/15/17 14:42		OK
30	CCV3	CCV3	CCV	11/15/17 14:42		OK
31	CCB3	CCB3	CCB	11/15/17 14:42		OK



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SU-01-111417	SDG No.:	LB91613
Lab Sample ID:	I6289-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0073	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	72-11934-290	SDG No.:	LB91613
Lab Sample ID:	I6476-02	Matrix:	Solid
Level (low/med):	low	% Solid:	77.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0064	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-RIGHT	SDG No.:	LB91613
Lab Sample ID:	I6476-04	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.
	Reactive Cyanide	-0.0065	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-LEFT	SDG No.:	LB91613
Lab Sample ID:	I6476-06	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.
	Reactive Cyanide	-0.0067	U	1	0.025		0.049	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	TOTE-1-2	SDG No.:	LB91613
Lab Sample ID:	I6477-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00081	U	1	0.0025		0.005	mg/L	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-A	SDG No.:	LB91613
Lab Sample ID:	I6478-02	Matrix:	Solid
Level (low/med):	low	% Solid:	88.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0052	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B

Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-B	SDG No.:	LB91613
Lab Sample ID:	I6478-04	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.
	Reactive Cyanide	-0.0054	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-C	SDG No.:	LB91613
Lab Sample ID:	I6478-06	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0061	U	1	0.025		0.049	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SP-1-D	SDG No.:	LB91613
Lab Sample ID:	I6478-08	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0052	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	T-20	SDG No.:	LB91613
Lab Sample ID:	I6479-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0045	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	POT-HEAD	SDG No.:	LB91613
Lab Sample ID:	I6479-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0074	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SCMUA-SLUDGE-CAKE	SDG No.:	LB91613
Lab Sample ID:	I6481-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00083	U	1	0.025		0.05	mg/Kg	11/15/2017	11/15/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/14/2017 12:00:00 AM
Project:	LB91613	Date Received:	11/14/2017 12:00:00 AM
Client Sample ID:	SCMUA-SLUDGE-CAKE	SDG No.:	LB91613
Lab Sample ID:	I6481-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB91613

SDG No.: LB91613

Contract: _____ Lab Code: CHEM

Case No.: LB91613

SAS No.: LB91613

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Reactive Cyanide	0.098	0.099	99	0	85 - 115		11/15/2017	14:10	LB91613



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91613

SDG No.: LB91613

Contract: _____ Lab Code: CHEM

Case No.: LB91613

SAS No.: LB91613

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Reactive Cyanide	0.24	0.25	96	0	90 - 110		11/15/2017	14:10	LB91613
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/15/2017	14:17	LB91613
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/15/2017	14:42	LB91613



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91613

SDG No.: LB91613

Contract:

Lab Code: CHEM

Case No.: LB91613

SAS No.: LB91613

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00052	+/-0.005	U		0.005		11/15/2017	14:10	LB91613

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00017	+/-0.005	U		0.005		11/15/2017	14:10	LB91613
CCB2	Reactive Cyanide	-0.00035	+/-0.005	U		0.005		11/15/2017	14:17	LB91613
CCB3	Reactive Cyanide	-0.00063	+/-0.005	U		0.005		11/15/2017	14:42	LB91613



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91613

SDG No.: LB91613

Contract: Lab Code: CHEM

Case No.: LB91613

SAS No.: LB91613

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: LB91613

SDG No.: LB91613

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104288BL	Reactive Cyanide	SOLID		Batch Number:		PB104288		Prep Date:	11/15/2017	
		-0.0069	<0.05	U		0.05		11/15/2017	14:42	LB91613
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104289BL	Reactive Cyanide	WATER		Batch Number:		PB104289		Prep Date:	11/15/2017	
		-0.0007	<0.005	U		0.005		11/15/2017	14:22	LB91613

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91613 **Level:** LOW **SDG No.:** LB91613
Contract: **Lab Code:** CHEM **Case No.:** LB91613 **SAS No.:** LB91613
Matrix: Solid **Sample ID:** I6289-06 **Client ID:** SU-01-111417DUP
Percent Solids for Sample: 100 **Duplicate ID** I6289-06DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	-0.008	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91613 **Level:** LOW **SDG No.:** LB91613
Contract: **Lab Code:** CHEM **Case No.:** LB91613 **SAS No.:** LB91613
Matrix: WATER **Sample ID:** I6477-02 **Client ID:** TOTE-1-2DUP
Percent Solids for Sample: 0 **Duplicate ID** I6477-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	0.0016	U			