

Daily Analysis Runlog For Sequence/QC Batch ID # LB92869

Review By

Review On

SubDirectory

LB92869

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP61297,WP61298,WP91299,WP61300,WP61301,WP61302,WP61303
ICV Standard	WP61305
CCV Standard	WP61304
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP61306,WP59958,WP60878

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/25/18 11:13		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/25/18 11:13		OK
3	10PPBCN	10PPBCN	CAL3	01/25/18 11:13		OK
4	50PPBCN	50PPBCN	CAL4	01/25/18 11:13		OK
5	100PPBCN	100PPBCN	CAL5	01/25/18 11:13		OK
6	250PPBCN	250PPBCN	CAL6	01/25/18 11:13		OK
7	500PPBCN	500PPBCN	CAL7	01/25/18 11:13		OK
8	ICV1	ICV1	ICV	01/25/18 11:47		OK
9	ICB1	ICB1	ICB	01/25/18 11:47		OK
10	CCV1	CCV1	CCV	01/25/18 11:47		OK
11	CCB1	CCB1	CCB	01/25/18 11:47		OK
12	PB105991BL	PB105991BL	MB	01/25/18 11:47		OK
13	J1020-02	PL-01-012418-A	SAM	01/25/18 11:47		OK
14	J1020-02DUP	PL-01-012418-ADUP	DUP	01/25/18 11:47		OK
15	J1020-04	PL-01-012418-B	SAM	01/25/18 11:55		OK
16	J1020-06	PL-01-012418-C	SAM	01/25/18 11:55		OK
17	J1020-08	PL-01-012418-D	SAM	01/25/18 11:55		OK
18	J1020-10	PL-02-012418-A	SAM	01/25/18 11:55		OK
19	J1020-12	PL-02-012418-B	SAM	01/25/18 11:55		OK
20	J1020-16	PL-02-012418-D	SAM	01/25/18 11:55		OK
21	CCV2	CCV2	CCV	01/25/18 11:55		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB92869

Review By		Review On				
SubDirectory		LB92869		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP61297,WP61298,WP91299,WP61300,WP61301,WP61302,WP61303				
ICV Standard		WP61305				
CCV Standard		WP61304				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP61306,WP59958,WP60878				
22	CCB2	CCB2	CCB	01/25/18 11:55		OK
23	J1300-05	TP-1-5	SAM	01/25/18 11:55		OK
24	J1306-04	WC1	SAM	01/25/18 11:55		OK
25	J1306-08	WC2	SAM	01/25/18 12:02		OK
26	J1306-12	WC3	SAM	01/25/18 12:02		OK
27	J1306-16	WC4	SAM	01/25/18 12:02		OK
28	J1306-20	WC5	SAM	01/25/18 12:02		OK
29	J1307-08	MANHOLE-202	SAM	01/25/18 12:02		OK
30	PB105992BL	PB105992BL	MB	01/25/18 12:02		OK
31	J1300-07	MANHOLE	SAM	01/25/18 12:02		OK
32	J1300-07DUP	MANHOLEDUP	DUP	01/25/18 12:02		OK
33	CCV3	CCV3	CCV	01/25/18 12:02		OK
34	CCB3	CCB3	CCB	01/25/18 12:02		OK
35	J1020-14	PL-02-012418-C	SAM	01/25/18 12:18		OK
36	CCV3	CCV3	CCV	01/25/18 12:18		OK
37	CCB3	CCB3	CCB	01/25/18 12:18		OK



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-01-012418-A	SDG No.:	LB92869
Lab Sample ID:	J1020-02	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	-0.0026	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-01-012418-B	SDG No.:	LB92869
Lab Sample ID:	J1020-04	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	-0.0035	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-01-012418-C	SDG No.:	LB92869
Lab Sample ID:	J1020-06	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	-0.0025	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-01-012418-D	SDG No.:	LB92869
Lab Sample ID:	J1020-08	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	-0.0034	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-02-012418-A	SDG No.:	LB92869
Lab Sample ID:	J1020-10	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	-0.005	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-02-012418-B	SDG No.:	LB92869
Lab Sample ID:	J1020-12	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	-0.0025	U	1	0.025		0.049	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-02-012418-C	SDG No.:	LB92869
Lab Sample ID:	J1020-14	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	-0.0048	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	PL-02-012418-D	SDG No.:	LB92869
Lab Sample ID:	J1020-16	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	-0.0039	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	TP-1-5	SDG No.:	LB92869
Lab Sample ID:	J1300-05	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	-0.003	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE	SDG No.:	LB92869
Lab Sample ID:	J1300-07	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00083	U	1	0.0025		0.005	mg/L	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC1	SDG No.:	LB92869
Lab Sample ID:	J1306-04	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.
	Reactive Cyanide	-0.0028	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC2	SDG No.:	LB92869
Lab Sample ID:	J1306-08	Matrix:	Solid
Level (low/med):	low	% Solid:	77.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.005	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC3	SDG No.:	LB92869
Lab Sample ID:	J1306-12	Matrix:	Solid
Level (low/med):	low	% Solid:	84.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0083	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC4	SDG No.:	LB92869
Lab Sample ID:	J1306-16	Matrix:	Solid
Level (low/med):	low	% Solid:	82.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0076	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	WC5	SDG No.:	LB92869
Lab Sample ID:	J1306-20	Matrix:	Solid
Level (low/med):	low	% Solid:	85

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0022	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE-202	SDG No.:	LB92869
Lab Sample ID:	J1307-08	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	0.0013	U	1	0.025		0.05	mg/Kg	01/25/2018	01/25/2018	9012B



Report of Analysis

Client:		Date Collected:	1/24/2018 12:00:00 AM
Project:	LB92869	Date Received:	1/24/2018 12:00:00 AM
Client Sample ID:	MANHOLE-202	SDG No.:	LB92869
Lab Sample ID:	J1307-08	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: LB92869

SDG No.: LB92869

Contract: _____ Lab Code: CHEM

Case No.: LB92869

SAS No.: LB92869

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Reactive Cyanide	0.25	0.25	100		90 - 110		01/25/2018	11:47	LB92869
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		01/25/2018	11:55	LB92869
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		01/25/2018	12:02	LB92869



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92869

SDG No.: LB92869

Contract:

Lab Code: CHEM

Case No.: LB92869

SAS No.: LB92869

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0	+/-0.005	U		0.005		01/25/2018	11:47	LB92869
CCB2	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		01/25/2018	11:55	LB92869
CCB3	Reactive Cyanide	-0	+/-0.005	U		0.005		01/25/2018	12:02	LB92869



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92869

SDG No.: LB92869

Contract: Lab Code: CHEM

Case No.: LB92869

SAS No.: LB92869

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: LB92869

SDG No.: LB92869

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
PB105991BL	Reactive Cyanide	SOLID		Batch Number:		PB105991		Prep Date:	01/25/2018	
		-0.0037	<0.05	U		0.05		01/25/2018	11:47	LB92869
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB105992BL	Reactive Cyanide	WATER		Batch Number:		PB105992		Prep Date:	01/25/2018	
		0	<0.005	U		0.005		01/25/2018	12:02	LB92869

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92869 **Level:** LOW **SDG No.:** LB92869
Contract: **Lab Code:** CHEM **Case No.:** LB92869 **SAS No.:** LB92869
Matrix: Solid **Sample ID:** J1020-02 **Client ID:** PL-01-012418-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J1020-02DUP **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	-0.0047	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92869 **Level:** LOW **SDG No.:** LB92869
Contract: **Lab Code:** CHEM **Case No.:** LB92869 **SAS No.:** LB92869
Matrix: WATER **Sample ID:** J1300-07 **Client ID:** MANHOLEDUP
Percent Solids for Sample: 0 **Duplicate ID** J1300-07DUP **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	-0.00017	U			