

Daily Analysis Runlog For Sequence/QC Batch ID # LB95068

Review By		Review On				
SubDirectory		LB95068		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64173,WP64174,WP64175,WP64176,WP64177,WP64178,WP64179				
ICV Standard		WP64181				
CCV Standard		WP64180				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64182,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/03/18 08:32		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/03/18 08:32		OK
3	10PPBCN	10PPBCN	CAL3	05/03/18 08:32		OK
4	50PPBCN	50PPBCN	CAL4	05/03/18 08:32		OK
5	100PPBCN	100PPBCN	CAL5	05/03/18 08:32		OK
6	250PPBCN	250PPBCN	CAL6	05/03/18 08:32		OK
7	500PPBCN	500PPBCN	CAL7	05/03/18 08:32		OK
8	ICV1	ICV1	ICV	05/03/18 09:25		OK
9	ICB1	ICB1	ICB	05/03/18 09:25		OK
10	CCV1	CCV1	CCV	05/03/18 09:25		OK
11	CCB1	CCB1	CCB	05/03/18 09:25		OK
12	PB108813BL	PB108813BL	MB	05/03/18 09:25		OK
13	J2652-21	COMPOSITE-P4-WC	SAM	05/03/18 09:25		OK
14	J2652-21DUP	COMPOSITE-P4-WC	DUP	05/03/18 09:25		OK
15	J2652-22	COMPOSITE-P5-WC	SAM	05/03/18 09:25		OK
16	J2652-23	AMENDED-COMPOS	SAM	05/03/18 09:25		OK
17	J2665-04	ES-RO-124030	SAM	05/03/18 09:25		OK
18	J2665-08	ES-RT-2655	SAM	05/03/18 09:32		OK
19	CCV2	CCV2	CCV	05/03/18 09:32		OK
20	CCB2	CCB2	CCB	05/03/18 09:33		OK
21	J2667-04	285-147-7212002-RE	SAM	05/03/18 09:33		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95068

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SubDirectory		LB95068		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64173,WP64174,WP64175,WP64176,WP64177,WP64178,WP64179				
ICV Standard		WP64181				
CCV Standard		WP64180				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64182,WP59958,WP60878				
22	J2667-07	155-348-281	SAM	05/03/18 09:33		OK
23	J2667-10	137-132-165	SAM	05/03/18 09:33		OK
24	PB108814BL	PB108814BL	MB	05/03/18 09:33		OK
25	J2667-15	GROUNDWATER	SAM	05/03/18 09:33		OK
26	J2667-15DUP	GROUNDWATERDU	DUP	05/03/18 09:33		OK
27	J2652-24	AMENDED-COMPOS	SAM	05/03/18 09:54		OK
28	J2665-12	ES-RT-1871	SAM	05/03/18 09:54		OK
29	CCV3	CCV3	CCV	05/03/18 09:54		OK
30	CCB3	CCB3	CCB	05/03/18 09:54		OK



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB95068	Date Received:	4/30/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-P4-WC	SDG No.:	LB95068
Lab Sample ID:	J2652-21	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	-0.0086	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2018 12:00:00 AM
Project:	LB95068	Date Received:	4/30/2018 12:00:00 AM
Client Sample ID:	COMPOSITE-P5-WC	SDG No.:	LB95068
Lab Sample ID:	J2652-22	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	-0.0068	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/23/2018 12:00:00 AM
Project:	LB95068	Date Received:	4/30/2018 12:00:00 AM
Client Sample ID:	AMENDED-COMPOSITE-P4-WC	SDG No.:	LB95068
Lab Sample ID:	J2652-23	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	-0.0055	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2018 12:00:00 AM
Project:	LB95068	Date Received:	4/30/2018 12:00:00 AM
Client Sample ID:	AMENDED-COMPOSITE-P5-WC	SDG No.:	LB95068
Lab Sample ID:	J2652-24	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	-0.01	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	ES-RO-124030	SDG No.:	LB95068
Lab Sample ID:	J2665-04	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	-0.0096	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	ES-RT-2655	SDG No.:	LB95068
Lab Sample ID:	J2665-08	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	-0.013	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	ES-RT-1871	SDG No.:	LB95068
Lab Sample ID:	J2665-12	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	-0.0077	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	285-147-7212002-RB26667	SDG No.:	LB95068
Lab Sample ID:	J2667-04	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	-0.0055	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	155-348-281	SDG No.:	LB95068
Lab Sample ID:	J2667-07	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	-0.0044	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	137-132-165	SDG No.:	LB95068
Lab Sample ID:	J2667-10	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	-0.01	U	1	0.025		0.05	mg/Kg	05/02/2018	05/03/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	GROUNDWATER	SDG No.:	LB95068
Lab Sample ID:	J2667-15	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	-0.00062	U	1	0.0025		0.005	mg/L	05/02/2018	05/03/2018	9012B



Report of Analysis

Client:		Date Collected:	5/1/2018 12:00:00 AM
Project:	LB95068	Date Received:	5/1/2018 12:00:00 AM
Client Sample ID:	GROUNDWATER	SDG No.:	LB95068
Lab Sample ID:	J2667-15	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95068

SDG No.: LB95068

Contract: _____

Lab Code: CHEM

Case No.: LB95068

SAS No.: LB95068

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
ICV1	Reactive Cyanide	0.093	0.099	93.9		85 - 115		05/03/2018	09:25	lb95068



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95068

SDG No.: LB95068

Contract: _____ Lab Code: CHEM

Case No.: LB95068

SAS No.: LB95068

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	0.24	0.25	96		90 - 110		05/03/2018	09:25	lb95068
CCV2	Reactive Cyanide	0.25	0.25	100		90 - 110		05/03/2018	09:32	lb95068
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		05/03/2018	09:54	lb95068



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95068

SDG No.: LB95068

Contract:

Lab Code: CHEM

Case No.: LB95068

SAS No.: LB95068

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00037	+/-0.005	U		0.005		05/03/2018	09:25	lb95068



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95068

SDG No.: LB95068

Contract:

Lab Code: CHEM

Case No.: LB95068

SAS No.: LB95068

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00067	+/-0.005	U		0.005		05/03/2018	09:25	lb95068
CCB2	Reactive Cyanide	-0.0013	+/-0.005	U		0.005		05/03/2018	09:33	lb95068
CCB3	Reactive Cyanide	0.0001	+/-0.005	U		0.005		05/03/2018	09:54	lb95068



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95068

SDG No.: LB95068

Contract: Lab Code: CHEM

Case No.: LB95068

SAS No.: LB95068

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB95068

SDG No.: LB95068

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
PB108813BL	Reactive Cyanide	SOLID		Batch Number:		PB108813		Prep Date:	05/02/2018	
		-0.011	<0.05	U		0.05		05/03/2018	09:25	lb95068
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB108814BL	Reactive Cyanide	WATER		Batch Number:		PB108814		Prep Date:	05/02/2018	
		-0.001	<0.005	U		0.005		05/03/2018	09:33	lb95068

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DUPLICATE SAMPLE SUMMARY

Client: LB95068 **Level:** LOW **SDG No.:** LB95068
Contract: **Lab Code:** CHEM **Case No.:** LB95068 **SAS No.:** LB95068
Matrix: Solid **Sample ID:** J2652-21 **Client ID:** COMPOSITE-P4-WC DUP
Percent Solids for Sample: 100 **Duplicate ID** J2652-21DUP **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	-0.005	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB95068 **Level:** LOW **SDG No.:** LB95068
Contract: **Lab Code:** CHEM **Case No.:** LB95068 **SAS No.:** LB95068
Matrix: WATER **Sample ID:** J2667-15 **Client ID:** GROUNDWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J2667-15DUP **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	-0.00085	U			