

Daily Analysis Runlog For Sequence/QC Batch ID # LB95754

Review By		Review On				
SubDirectory		LB95754		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64957,WP64958,WP64959,WP64960,WP64961,WP64962,WP64963				
ICV Standard		WP64965				
CCV Standard		WP64964				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64966,WP64695,WP64696				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/01/18 07:38		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/01/18 07:38		OK
3	10PPBCN	10PPBCN	CAL3	06/01/18 07:38		OK
4	50PPBCN	50PPBCN	CAL4	06/01/18 07:38		OK
5	100PPBCN	100PPBCN	CAL5	06/01/18 07:38		OK
6	250PPBCN	250PPBCN	CAL6	06/01/18 07:38		OK
7	500PPBCN	500PPBCN	CAL7	06/01/18 07:38		OK
8	ICV1	ICV1	ICV	06/01/18 08:10		OK
9	ICB1	ICB1	ICB	06/01/18 08:10		OK
10	CCV1	CCV1	CCV	06/01/18 08:10		OK
11	CCB1	CCB1	CCB	06/01/18 08:10		OK
12	PB109814BL	PB109814BL	MB	06/01/18 08:10		OK
13	J2669-12	SU-03-053018	SAM	06/01/18 08:10		OK
14	J2669-12DUP	SU-03-053018DUP	DUP	06/01/18 08:10		OK
15	J2678-06	OK-01-053018	SAM	06/01/18 08:10		OK
16	J3202-04	SP	SAM	06/01/18 08:10		OK
17	J3203-03	TP-2-WC-1	SAM	06/01/18 08:10		OK
18	J3203-06	TP-4-WC-1	SAM	06/01/18 08:10		OK
19	J3217-04	SP-01	SAM	06/01/18 08:17		OK
20	J3217-07	DRUM-1	SAM	06/01/18 08:17		OK
21	J3217-11	SP-MANHOLE-TREN	SAM	06/01/18 08:17		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95754

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SubDirectory		LB95754		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
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ICV Standard		WP64965				
CCV Standard		WP64964				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64966,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/01/18 08:17		OK
23	CCB2	CCB2	CCB	06/01/18 08:17		OK
24	J3217-15	SP-MANHOLE-TREN	SAM	06/01/18 08:17		OK
25	J3218-04	OUTSIDE-WELL-SP	SAM	06/01/18 08:17		OK
26	J3218-08	INSIDE-WELL-SP	SAM	06/01/18 08:17		OK
27	J3219-04	TP-3	SAM	06/01/18 08:17		OK
28	PB109786BL	PB109786BL	MB	06/01/18 08:17		OK
29	J3191-03	BRICKWALL-DRUM	SAM	06/01/18 08:23		OK
30	J3197-04	TP-2-S	SAM	06/01/18 08:23		OK
31	J3197-08	TP-2-D	SAM	06/01/18 08:23		OK
32	J3188-02	ES-CONCRETE	SAM	06/01/18 08:43		OK
33	J3188-02DUP	ES-CONCRETEDUP	DUP	06/01/18 08:43		OK
34	CCV3	CCV3	CCV	06/01/18 08:43		OK
35	CCB3	CCB3	CCB	06/01/18 08:43		OK



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SU-03-053018	SDG No.:	LB95754
Lab Sample ID:	J2669-12	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	-0.005	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	OK-01-053018	SDG No.:	LB95754
Lab Sample ID:	J2678-06	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	ES-CONCRETE	SDG No.:	LB95754
Lab Sample ID:	J3188-02	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	-0.0044	U	1	0.025		0.05	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	BRICKWALL-DRUM	SDG No.:	LB95754
Lab Sample ID:	J3191-03	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	-0.0045	U	1	0.025		0.05	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	TP-2-S	SDG No.:	LB95754
Lab Sample ID:	J3197-04	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	-0.008	U	1	0.025		0.05	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/29/2018 12:00:00 AM
Client Sample ID:	TP-2-D	SDG No.:	LB95754
Lab Sample ID:	J3197-08	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	-0.0011	U	1	0.025		0.05	mg/Kg	05/30/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP	SDG No.:	LB95754
Lab Sample ID:	J3202-04	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0029	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-2-WC-1	SDG No.:	LB95754
Lab Sample ID:	J3203-03	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	-0.0048	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/29/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-4-WC-1	SDG No.:	LB95754
Lab Sample ID:	J3203-06	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	-0.0012	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B

Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-01	SDG No.:	LB95754
Lab Sample ID:	J3217-04	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B

Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	DRUM-1	SDG No.:	LB95754
Lab Sample ID:	J3217-07	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	-0.0021	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-MANHOLE-TRENCH-1	SDG No.:	LB95754
Lab Sample ID:	J3217-11	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	-0.0036	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	SP-MANHOLE-TRENCH-2	SDG No.:	LB95754
Lab Sample ID:	J3217-15	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	-0.00096	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	OUTSIDE-WELL-SP	SDG No.:	LB95754
Lab Sample ID:	J3218-04	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0036	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	INSIDE-WELL-SP	SDG No.:	LB95754
Lab Sample ID:	J3218-08	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.
	Reactive Cyanide	-0.0024	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB95754
Lab Sample ID:	J3219-04	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	-0.0002	U	1	0.025		0.05	mg/Kg	05/31/2018	06/01/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/30/2018 12:00:00 AM
Project:	LB95754	Date Received:	5/30/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB95754
Lab Sample ID:	J3219-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95754

SDG No.: LB95754

Contract: _____ Lab Code: CHEM

Case No.: LB95754

SAS No.: LB95754

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	0.095	0.099	96		85 - 115		06/01/2018	08:10	LB95754



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95754

SDG No.: LB95754

Contract: _____ Lab Code: CHEM

Case No.: LB95754

SAS No.: LB95754

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		06/01/2018	08:10	LB95754
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		06/01/2018	08:17	LB95754
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		06/01/2018	08:43	LB95754



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95754

SDG No.: LB95754

Contract:

Lab Code: CHEM

Case No.: LB95754

SAS No.: LB95754

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00024	+/-0.005	U		0.005		06/01/2018	08:10	LB95754

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00036	+/-0.005	U		0.005		06/01/2018	08:10	LB95754
CCB2	Reactive Cyanide	-0.0001	+/-0.005	U		0.005		06/01/2018	08:17	LB95754
CCB3	Reactive Cyanide	0.00021	+/-0.005	U		0.005		06/01/2018	08:43	LB95754



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95754

SDG No.: LB95754

Contract: Lab Code: CHEM

Case No.: LB95754

SAS No.: LB95754

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: LB95754

SDG No.: LB95754

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
PB109786BL	Reactive Cyanide	SOLID		Batch Number:		PB109786		Prep Date:	05/30/2018	
		-0.0024	<0.05	U		0.05		06/01/2018	08:17	LB95754
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB109814BL	Reactive Cyanide	SOLID		Batch Number:		PB109814		Prep Date:	05/31/2018	
		-0.0052	<0.05	U		0.05		06/01/2018	08:10	LB95754

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DUPLICATE SAMPLE SUMMARY

Client: LB95754 **Level:** LOW **SDG No.:** LB95754
Contract: **Lab Code:** CHEM **Case No.:** LB95754 **SAS No.:** LB95754
Matrix: Solid **Sample ID:** J2669-12 **Client ID:** SU-03-053018DUP
Percent Solids for Sample: 100 **Duplicate ID** J2669-12DUP **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	-0.0034	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB95754 **Level:** LOW **SDG No.:** LB95754
Contract: **Lab Code:** CHEM **Case No.:** LB95754 **SAS No.:** LB95754
Matrix: Solid **Sample ID:** J3188-02 **Client ID:** ES-CONCRETEDUP
Percent Solids for Sample: 100 **Duplicate ID** J3188-02DUP **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	-0.0031	U			