

Daily Analysis Runlog For Sequence/QC Batch ID # LB95590

Review By

Review On

SubDirectory

LB95590

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP64754,WP64755,WP64756,WP64757,WP64758,WP64759,WP64760
ICV Standard	WP64762
CCV Standard	WP64761
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP64763,WP64695,WP64696

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/24/18 08:05		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/24/18 08:05		OK
3	10PPBCN	10PPBCN	CAL3	05/24/18 08:05		OK
4	50PPBCN	50PPBCN	CAL4	05/24/18 08:05		OK
5	100PPBCN	100PPBCN	CAL5	05/24/18 08:05		OK
6	250PPBCN	250PPBCN	CAL6	05/24/18 08:05		OK
7	500PPBCN	500PPBCN	CAL7	05/24/18 08:05		OK
8	ICV1	ICV1	ICV	05/24/18 11:50		OK
9	ICB1	ICB1	ICB	05/24/18 11:50		OK
10	CCV1	CCV1	CCV	05/24/18 11:50		OK
11	CCB1	CCB1	CCB	05/24/18 11:50		OK
12	PB109628BL	PB109628BL	MB	05/24/18 11:50		OK
13	J2670-06	TR-04-052318	SAM	05/24/18 11:50		OK
14	J2670-06DUP	TR-04-052318DUP	DUP	05/24/18 11:50		OK
15	J2672-08	BU-02-052318	SAM	05/24/18 11:50		OK
16	J2678-04	OR-03-052318	SAM	05/24/18 11:50		OK
17	J3084-04	RO-4-1-A	SAM	05/24/18 11:50		OK
18	J3084-08	RO-4-1-B	SAM	05/24/18 11:50		OK
19	J3084-12	RO-4-1-C	SAM	05/24/18 11:57		OK
20	J3086-02	72-12013	SAM	05/24/18 11:57		OK
21	J3094-03	HS-RO-7212003	SAM	05/24/18 11:57		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95590

Review By		Review On				
SubDirectory		LB95590		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64754,WP64755,WP64756,WP64757,WP64758,WP64759,WP64760				
ICV Standard		WP64762				
CCV Standard		WP64761				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64763,WP64695,WP64696				
22	CCV2	CCV2	CCV	05/24/18 11:57		OK
23	CCB2	CCB2	CCB	05/24/18 11:57		OK
24	J3095-02	TP-3-WC-4	SAM	05/24/18 11:57		OK
25	J3099-03	200028	SAM	05/24/18 11:57		OK
26	J3099-06	200027	SAM	05/24/18 11:57		OK
27	J3104-02	SP-A	SAM	05/24/18 11:58		OK
28	J3104-04	SP-B	SAM	05/24/18 11:58		OK
29	PB109629BL	PB109629BL	MB	05/24/18 11:58		OK
30	J3094-05	HS-BASELINE-WATE	SAM	05/24/18 12:02		OK
31	J3094-05DUP	HS-BASELINE-WATE	DUP	05/24/18 12:02		OK
32	CCV3	CCV3	CCV	05/24/18 12:02		OK
33	CCB3	CCB3	CCB	05/24/18 12:02		OK



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	TR-04-052318	SDG No.:	LB95590
Lab Sample ID:	J2670-06	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	0.0056	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	BU-02-052318	SDG No.:	LB95590
Lab Sample ID:	J2672-08	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	0.0029	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	OR-03-052318	SDG No.:	LB95590
Lab Sample ID:	J2678-04	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	0.012	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	RO-4-1-A	SDG No.:	LB95590
Lab Sample ID:	J3084-04	Matrix:	Solid
Level (low/med):	low	% Solid:	43.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0053	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	RO-4-1-B	SDG No.:	LB95590
Lab Sample ID:	J3084-08	Matrix:	Solid
Level (low/med):	low	% Solid:	74

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.016	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	RO-4-1-C	SDG No.:	LB95590
Lab Sample ID:	J3084-12	Matrix:	Solid
Level (low/med):	low	% Solid:	85.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0062	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	72-12013	SDG No.:	LB95590
Lab Sample ID:	J3086-02	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	0.003	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	HS-RO-7212003	SDG No.:	LB95590
Lab Sample ID:	J3094-03	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	0.0027	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	HS-BASELINE-WATER	SDG No.:	LB95590
Lab Sample ID:	J3094-05	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0001	U	1	0.0025		0.005	mg/L	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/22/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	TP-3-WC-4	SDG No.:	LB95590
Lab Sample ID:	J3095-02	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	0.0001	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	200028	SDG No.:	LB95590
Lab Sample ID:	J3099-03	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	0.0042	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	200027	SDG No.:	LB95590
Lab Sample ID:	J3099-06	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	0.0048	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	SP-A	SDG No.:	LB95590
Lab Sample ID:	J3104-02	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	0.0041	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	SP-B	SDG No.:	LB95590
Lab Sample ID:	J3104-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0023	U	1	0.025		0.05	mg/Kg	05/24/2018	05/24/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/23/2018 12:00:00 AM
Project:	LB95590	Date Received:	5/23/2018 12:00:00 AM
Client Sample ID:	SP-B	SDG No.:	LB95590
Lab Sample ID:	J3104-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.6

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: LB95590

SDG No.: LB95590

Contract:

Lab Code: CHEM

Case No.: LB95590

SAS No.: LB95590

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	0.096	0.099	97		85 - 115		05/24/2018	11:50	LB95590



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95590

SDG No.: LB95590

Contract: _____ Lab Code: CHEM

Case No.: LB95590

SAS No.: LB95590

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		05/24/2018	11:50	LB95590
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/24/2018	11:57	LB95590
CCV3	Reactive Cyanide	0.25	0.25	100		90 - 110		05/24/2018	12:02	LB95590



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95590

SDG No.: LB95590

Contract:

Lab Code: CHEM

Case No.: LB95590

SAS No.: LB95590

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00068	+/-0.005	U		0.005		05/24/2018	11:50	LB95590



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95590

SDG No.: LB95590

Contract:

Lab Code: CHEM

Case No.: LB95590

SAS No.: LB95590

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00048	+/-0.005	U		0.005		05/24/2018	11:50	LB95590
CCB2	Reactive Cyanide	0.00069	+/-0.005	U		0.005		05/24/2018	11:57	LB95590
CCB3	Reactive Cyanide	0.00013	+/-0.005	U		0.005		05/24/2018	12:02	LB95590



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95590

SDG No.: LB95590

Contract: Lab Code: CHEM

Case No.: LB95590

SAS No.: LB95590

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: LB95590

SDG No.: LB95590

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
PB109628BL	Reactive Cyanide	SOLID		Batch Number:		PB109628		Prep Date:	05/24/2018	
		0.0029	<0.05	U		0.05		05/24/2018	11:50	LB95590
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109629BL	Reactive Cyanide	WATER		Batch Number:		PB109629		Prep Date:	05/24/2018	
		0.0011	<0.005	U		0.005		05/24/2018	11:58	LB95590

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95590 **Level:** LOW **SDG No.:** LB95590
Contract: **Lab Code:** CHEM **Case No.:** LB95590 **SAS No.:** LB95590
Matrix: Solid **Sample ID:** J2670-06 **Client ID:** TR-04-052318DUP
Percent Solids for Sample: 100 **Duplicate ID** J2670-06DUP **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	0.0051	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95590 **Level:** LOW **SDG No.:** LB95590
Contract: **Lab Code:** CHEM **Case No.:** LB95590 **SAS No.:** LB95590
Matrix: WATER **Sample ID:** J3094-05 **Client ID:** HS-BASELINE-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** J3094-05DUP **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	0.00046	U			