

Daily Analysis Runlog For Sequence/QC Batch ID # LB95793

Review By

Review On

SubDirectory

LB95793

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP64996,WP64997,WP64998,WP64999,WP6500,WP65001,WP65002
ICV Standard	WP65004
CCV Standard	WP65003
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP65005,WP64695,WP64696

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/04/18 11:00		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/04/18 11:00		OK
3	10PPBCN	10PPBCN	CAL3	06/04/18 11:00		OK
4	50PPBCN	50PPBCN	CAL4	06/04/18 11:00		OK
5	100PPBCN	100PPBCN	CAL5	06/04/18 11:00		OK
6	250PPBCN	250PPBCN	CAL6	06/04/18 11:00		OK
7	500PPBCN	500PPBCN	CAL7	06/04/18 11:00		OK
8	ICV1	ICV1	ICV	06/04/18 13:16		OK
9	ICB1	ICB1	ICB	06/04/18 13:16		OK
10	CCV1	CCV1	CCV	06/04/18 13:16		OK
11	CCB1	CCB1	CCB	06/04/18 13:16		OK
12	PB109921BL	PB109921BL	MB	06/04/18 13:16		OK
13	J3239-02	AU-05-060118-A	SAM	06/04/18 13:16		OK
14	J3239-02DUP	AU-05-060118-ADUP	DUP	06/04/18 13:16		OK
15	J3239-04	AU-05-060118-B	SAM	06/04/18 13:16		OK
16	J3239-06	AU-05-060118-C	SAM	06/04/18 13:16		OK
17	J3239-08	AU-05-060118-D	SAM	06/04/18 13:16		OK
18	J3243-02	NB-08-060118-A	SAM	06/04/18 13:16		OK
19	J3243-04	NB-08-060118-B	SAM	06/04/18 13:23		OK
20	J3259-03	RS-RO-274318	SAM	06/04/18 13:23		OK
21	CCV2	CCV2	CCV	06/04/18 13:23		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB95793

Review By		Review On				
SubDirectory		LB95793		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64996,WP64997,WP64998,WP64999,WP6500,WP65001,WP65002				
ICV Standard		WP65004				
CCV Standard		WP65003				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP65005,WP64695,WP64696				
22	CCB2	CCB2	CCB	06/04/18 13:23		OK
23	J3262-03	RS-RO-274319	SAM	06/04/18 13:23		OK
24	J3263-03	RS-RO-124022	SAM	06/04/18 13:23		OK
25	J3266-03	RS-RB-36793RT	SAM	06/04/18 13:23		OK
26	J3271-02	TP-7A-WC-1	SAM	06/04/18 13:23		OK
27	J3271-04	TP-7A-WC-2	SAM	06/04/18 13:23		OK
28	J3271-06	TP-7A-WC-3	SAM	06/04/18 13:23		OK
29	J3271-08	TP-7A-WC-4	SAM	06/04/18 13:23		OK
30	J3272-02	RBR-45901-RBR-47	SAM	06/04/18 13:28		OK
31	J3276-05	ES-STONE	SAM	06/04/18 13:28		OK
32	J3277-04	OILY-STONES	SAM	06/04/18 13:28		OK
33	CCV3	CCV3	CCV	06/04/18 13:28		OK
34	CCB3	CCB3	CCB	06/04/18 13:28		OK



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	AU-05-060118-A	SDG No.:	LB95793
Lab Sample ID:	J3239-02	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	0.0062	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	AU-05-060118-B	SDG No.:	LB95793
Lab Sample ID:	J3239-04	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	0.0034	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	AU-05-060118-C	SDG No.:	LB95793
Lab Sample ID:	J3239-06	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	0.0074	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	AU-05-060118-D	SDG No.:	LB95793
Lab Sample ID:	J3239-08	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	0.0089	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	NB-08-060118-A	SDG No.:	LB95793
Lab Sample ID:	J3243-02	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	0.0065	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	NB-08-060118-B	SDG No.:	LB95793
Lab Sample ID:	J3243-04	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	0.0057	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	RS-RO-274318	SDG No.:	LB95793
Lab Sample ID:	J3259-03	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	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	RS-RO-274319	SDG No.:	LB95793
Lab Sample ID:	J3262-03	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	0.0032	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	RS-RO-124022	SDG No.:	LB95793
Lab Sample ID:	J3263-03	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	0.0044	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	RS-RB-36793RT	SDG No.:	LB95793
Lab Sample ID:	J3266-03	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	0.0028	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	5/31/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	TP-7A-WC-1	SDG No.:	LB95793
Lab Sample ID:	J3271-02	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	0.0053	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	TP-7A-WC-2	SDG No.:	LB95793
Lab Sample ID:	J3271-04	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	0.0027	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	TP-7A-WC-3	SDG No.:	LB95793
Lab Sample ID:	J3271-06	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	0.0052	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	TP-7A-WC-4	SDG No.:	LB95793
Lab Sample ID:	J3271-08	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	0.0095	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	RBR-45901-RBR-47184-RBR-47183	SDG No.:	LB95793
Lab Sample ID:	J3272-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.002	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	ES-STONE	SDG No.:	LB95793
Lab Sample ID:	J3276-05	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	0.0029	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB95793
Lab Sample ID:	J3277-04	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	0.0058	U	1	0.025		0.05	mg/Kg	06/04/2018	06/04/2018	9012B

Report of Analysis

Client:		Date Collected:	6/1/2018 12:00:00 AM
Project:	LB95793	Date Received:	6/1/2018 12:00:00 AM
Client Sample ID:	OILY-STONES	SDG No.:	LB95793
Lab Sample ID:	J3277-04	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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95793

SDG No.: LB95793

Contract: _____ Lab Code: CHEM

Case No.: LB95793

SAS No.: LB95793

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		06/04/2018	13:16	LB95793



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95793

SDG No.: LB95793

Contract: _____ Lab Code: CHEM

Case No.: LB95793

SAS No.: LB95793

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		06/04/2018	13:16	LB95793
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		06/04/2018	13:23	LB95793
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		06/04/2018	13:28	LB95793



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95793

SDG No.: LB95793

Contract:

Lab Code: CHEM

Case No.: LB95793

SAS No.: LB95793

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00082	+/-0.005	U		0.005		06/04/2018	13:16	LB95793



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95793

SDG No.: LB95793

Contract:

Lab Code: CHEM

Case No.: LB95793

SAS No.: LB95793

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00053	+/-0.005	U		0.005		06/04/2018	13:16	LB95793
CCB2	Reactive Cyanide	0.00038	+/-0.005	U		0.005		06/04/2018	13:23	LB95793
CCB3	Reactive Cyanide	0.00075	+/-0.005	U		0.005		06/04/2018	13:28	LB95793



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95793

SDG No.: LB95793

Contract: Lab Code: CHEM

Case No.: LB95793

SAS No.: LB95793

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: LB95793 **SDG No.:** LB95793

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
PB109921BL	Reactive Cyanide	SOLID 0.0037	<0.05	Batch Number: U		PB109921 0.05		Prep Date: 06/04/2018	06/04/2018 13:16	LB95793

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95793 **Level:** LOW **SDG No.:** LB95793
Contract: _____ **Lab Code:** CHEM **Case No.:** LB95793 **SAS No.:** LB95793
Matrix: Solid **Sample ID:** J3239-02 **Client ID:** AU-05-060118-ADUP
Percent Solids for Sample: 100 **Duplicate ID** J3239-02DUP **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	0.0012	U			