

Daily Analysis Runlog For Sequence/QC Batch ID # LB95679

Review By		Review On				
SubDirectory		LB95679		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp64863,wp64864,wp64865,wp64866,wp64867,wp64868,wp64869,WP64870				
ICV Standard		WP64872				
CCV Standard		WP64871				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64873,WP64695,WP64696				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/29/18 11:20		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/29/18 11:20		OK
3	10PPBCN	10PPBCN	CAL3	05/29/18 11:20		OK
4	50PPBCN	50PPBCN	CAL4	05/29/18 11:20		OK
5	100PPBCN	100PPBCN	CAL5	05/29/18 11:20		OK
6	250PPBCN	250PPBCN	CAL6	05/29/18 11:20		OK
7	500PPBCN	500PPBCN	CAL7	05/29/18 11:20		OK
8	ICV1	ICV1	ICV	05/29/18 12:12		OK
9	ICB1	ICB1	ICB	05/29/18 12:12		OK
10	CCV1	CCV1	CCV	05/29/18 12:12		OK
11	CCB1	CCB1	CCB	05/29/18 12:12		OK
12	PB109736BL	PB109736BL	MB	05/29/18 12:12		OK
13	J3138-02	HP-SOIL	SAM	05/29/18 12:12		OK
14	J3138-02DUP	HP-SOILDUP	DUP	05/29/18 12:12		OK
15	J3157-02	153-117-20-161-20	SAM	05/29/18 12:12		OK
16	J3157-04	10-20-68-20-54-20	SAM	05/29/18 12:12		OK
17	J3162-06	S-06	SAM	05/29/18 12:12		OK
18	J3166-02	SA-01-052518	SAM	05/29/18 12:12		OK
19	J3174-02	D1	SAM	05/29/18 12:20		OK
20	J3174-04	D2	SAM	05/29/18 12:20		OK
21	J3177-04	TP-1-S	SAM	05/29/18 12:20		OK

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		LB95679		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		wp64863,wp64864,wp64865,wp64866,wp64867,wp64868,wp64869,WP64870				
ICV Standard		WP64872				
CCV Standard		WP64871				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP64873,WP64695,WP64696				
22	CCV2	CCV2	CCV	05/29/18 12:20		OK
23	CCB2	CCB2	CCB	05/29/18 12:20		OK
24	J3178-15	WC-1	SAM	05/29/18 12:20		OK
25	J3178-17	WC-9	SAM	05/29/18 12:20		OK
26	J3178-18	WC-10	SAM	05/29/18 12:20		OK
27	PB109737BL	PB109737BL	MB	05/29/18 12:20		OK
28	J3139-04	BS-BASELINEWATE	SAM	05/29/18 12:24		OK
29	J3139-04DUP	BS-BASELINEWATE	DUP	05/29/18 12:24		OK
30	J3177-08	TP-1-D	SAM	05/29/18 12:43		OK
31	J3178-16	WC-3	SAM	05/29/18 12:43		OK
32	CCV3	CCV3	CCV	05/29/18 12:43		OK
33	CCB3	CCB3	CCB	05/29/18 12:43		OK

Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	HP-SOIL	SDG No.:	LB95679
Lab Sample ID:	J3138-02	Matrix:	Solid
Level (low/med):	low	% Solid:	81.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.018	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	BS-BASELINEWATER	SDG No.:	LB95679
Lab Sample ID:	J3139-04	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	0.0017	U	1	0.0025		0.005	mg/L	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	153-117-20-161-20	SDG No.:	LB95679
Lab Sample ID:	J3157-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.018	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	10-20-68-20-54-20	SDG No.:	LB95679
Lab Sample ID:	J3157-04	Matrix:	Solid
Level (low/med):	low	% Solid:	86.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.025	J	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	S-06	SDG No.:	LB95679
Lab Sample ID:	J3162-06	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	0.016	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	SA-01-052518	SDG No.:	LB95679
Lab Sample ID:	J3166-02	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	0.016	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	D1	SDG No.:	LB95679
Lab Sample ID:	J3174-02	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	0.025	J	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	D2	SDG No.:	LB95679
Lab Sample ID:	J3174-04	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	0.019	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	TP-1-S	SDG No.:	LB95679
Lab Sample ID:	J3177-04	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	0.1		1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/25/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	TP-1-D	SDG No.:	LB95679
Lab Sample ID:	J3177-08	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	0.015	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B

Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	WC-1	SDG No.:	LB95679
Lab Sample ID:	J3178-15	Matrix:	Solid
Level (low/med):	low	% Solid:	84.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.035	J	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	WC-3	SDG No.:	LB95679
Lab Sample ID:	J3178-16	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.019	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	WC-9	SDG No.:	LB95679
Lab Sample ID:	J3178-17	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.027	J	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	WC-10	SDG No.:	LB95679
Lab Sample ID:	J3178-18	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.02	U	1	0.025		0.05	mg/Kg	05/29/2018	05/29/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/24/2018 12:00:00 AM
Project:	LB95679	Date Received:	5/25/2018 12:00:00 AM
Client Sample ID:	WC-10	SDG No.:	LB95679
Lab Sample ID:	J3178-18	Matrix:	Solid
Level (low/med):	low	% Solid:	88.6

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: LB95679

SDG No.: LB95679

Contract: _____ Lab Code: CHEM

Case No.: LB95679

SAS No.: LB95679

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		05/29/2018	12:12	lb95679



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95679

SDG No.: LB95679

Contract: _____ Lab Code: CHEM

Case No.: LB95679

SAS No.: LB95679

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		05/29/2018	12:12	lb95679
CCV2	Reactive Cyanide	0.24	0.25	96		90 - 110		05/29/2018	12:20	lb95679
CCV3	Reactive Cyanide	0.26	0.25	104		90 - 110		05/29/2018	12:43	lb95679



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95679

SDG No.: LB95679

Contract:

Lab Code: CHEM

Case No.: LB95679

SAS No.: LB95679

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0022	+/-0.005	U		0.005		05/29/2018	12:12	lb95679



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95679

SDG No.: LB95679

Contract: _____

Lab Code: CHEM

Case No.: LB95679

SAS No.: LB95679

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0019	+/-0.005	U		0.005		05/29/2018	12:12	lb95679
CCB2	Reactive Cyanide	0.0018	+/-0.005	U		0.005		05/29/2018	12:20	lb95679
CCB3	Reactive Cyanide	0.0017	+/-0.005	U		0.005		05/29/2018	12:43	lb95679



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95679

SDG No.: LB95679

Contract: Lab Code: CHEM

Case No.: LB95679

SAS No.: LB95679

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: LB95679

SDG No.: LB95679

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
PB109736BL	Reactive Cyanide	SOLID		Batch Number:		PB109736		Prep Date:	05/29/2018	
		0.016	<0.05	U		0.05		05/29/2018	12:12	lb95679
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109737BL	Reactive Cyanide	WATER		Batch Number:		PB109737		Prep Date:	05/29/2018	
		0.0016	<0.005	U		0.005		05/29/2018	12:20	lb95679

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95679 **Level:** LOW **SDG No.:** LB95679
Contract: **Lab Code:** CHEM **Case No.:** LB95679 **SAS No.:** LB95679
Matrix: Solid **Sample ID:** J3138-02 **Client ID:** HP-SOILDUP
Percent Solids for Sample: 81.2 **Duplicate ID** J3138-02DUP **Percent Solids for Spike Sample:** 81.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.017	U			



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DUPLICATE SAMPLE SUMMARY

Client: LB95679 Level: LOW SDG No.: LB95679
Contract: _____ Lab Code: CHEM Case No.: LB95679 SAS No.: LB95679
Matrix: WATER Sample ID: J3139-04 Client ID: BS-BASELINEWATERDUP
Percent Solids for Sample: 0 Duplicate ID J3139-04DUP 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	0.002	U			

“A control limit of $\pm 20\%$ RPD for each matrix applies for sample values greater than 10 times Detection Limit”