

Daily Analysis Runlog For Sequence/QC Batch ID # LB95841

Review By		Review On				
SubDirectory		LB95841		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP65073,WP65075,WP65076,WP65077,WP65078,WP65079,WP65080				
ICV Standard		W1542				
CCV Standard		WP65081				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP650083,WP64695,WP64696				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/06/18 11:39		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/06/18 11:39		OK
3	10PPBCN	10PPBCN	CAL3	06/06/18 11:39		OK
4	50PPBCN	50PPBCN	CAL4	06/06/18 11:39		OK
5	100PPBCN	100PPBCN	CAL5	06/06/18 11:40		OK
6	250PPBCN	250PPBCN	CAL6	06/06/18 11:40		OK
7	500PPBCN	500PPBCN	CAL7	06/06/18 11:40		OK
8	ICV1	ICV1	ICV	06/06/18 13:29		OK
9	ICB1	ICB1	ICB	06/06/18 13:29		OK
10	CCV1	CCV1	CCV	06/06/18 13:29		OK
11	CCB1	CCB1	CCB	06/06/18 13:29		OK
12	PB110010BL	PB110010BL	MB	06/06/18 13:29		OK
13	PB110010BS	PB110010BS	LCS	06/06/18 13:29		OK
14	LOWPB110010	LOWPB110010	SAM	06/06/18 13:29		OK
15	HIGHPB110010	HIGHPB110010	SAM	06/06/18 13:29		OK
16	J3241-01	HR-06-060518-A	SAM	06/06/18 13:29		OK
17	J3241-01DUP	HR-06-060518-ADUP	DUP	06/06/18 13:29		OK
18	J3241-01MS	HR-06-060518-AMS	MS	06/06/18 13:29		OK
19	J3241-01MSD	HR-06-060518-AMSD	MSD	06/06/18 13:36		OK
20	J3241-03	HR-06-060518-B	SAM	06/06/18 13:36		OK
21	J3241-05	HR-06-060518-C	SAM	06/06/18 13:36		OK



Instrument ID : KONELAB

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

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SubDirectory		Test : Cyanide				
LB95841						
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ICV Standard		W1542				
CCV Standard		WP65081				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP650083,WP64695,WP64696				
22	CCV2	CCV2	CCV	06/06/18 13:36		OK
23	CCB2	CCB2	CCB	06/06/18 13:36		OK
24	J3251-01	SU-02-060518	SAM	06/06/18 13:36		OK
25	J3325-01	BS-OILY-STONE-RO	SAM	06/06/18 13:36		OK
26	CCV3	CCV3	CCV	06/06/18 13:36		OK
27	CCB3	CCB3	CCB	06/06/18 13:36		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95841	Date Received:	
Client Sample ID:	HIGHPB110010	SDG No.:	LB95841
Lab Sample ID:	HIGHPB110010	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.5	OR	1	0.003		0.005	mg/L		06/06/2018	9012B

Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95841	Date Received:	6/5/2018 12:00:00 AM
Client Sample ID:	HR-06-060518-A	SDG No.:	LB95841
Lab Sample ID:	J3241-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.081	J	1	0.034		0.26	mg/Kg	06/06/2018	06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95841	Date Received:	6/5/2018 12:00:00 AM
Client Sample ID:	HR-06-060518-B	SDG No.:	LB95841
Lab Sample ID:	J3241-03	Matrix:	Solid
Level (low/med):	low	% Solid:	88.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.035		0.27	mg/Kg	06/06/2018	06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95841	Date Received:	6/5/2018 12:00:00 AM
Client Sample ID:	HR-06-060518-C	SDG No.:	LB95841
Lab Sample ID:	J3241-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.033		0.25	mg/Kg	06/06/2018	06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95841	Date Received:	6/5/2018 12:00:00 AM
Client Sample ID:	SU-02-060518	SDG No.:	LB95841
Lab Sample ID:	J3251-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.034		0.26	mg/Kg	06/06/2018	06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	6/5/2018 12:00:00 AM
Project:	LB95841	Date Received:	6/5/2018 12:00:00 AM
Client Sample ID:	BS-OILY-STONE-RO-156	SDG No.:	LB95841
Lab Sample ID:	J3325-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.14	J	1	0.032		0.24	mg/Kg	06/06/2018	06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95841	Date Received:	
Client Sample ID:	LOWPB110010	SDG No.:	LB95841
Lab Sample ID:	LOWPB110010	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.01		1	0.003		0.005	mg/L		06/06/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95841	Date Received:	
Client Sample ID:	LOWPB110010	SDG No.:	LB95841
Lab Sample ID:	LOWPB110010	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: LB95841

SDG No.: LB95841

Contract: _____

Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

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	Cyanide	0.098	0.099	99		85 - 115		06/06/2018	13:29	LB95841



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95841

SDG No.: LB95841

Contract: _____ Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

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	Cyanide	0.25	0.25	100		90 - 110		06/06/2018	13:29	LB95841
CCV2	Cyanide	0.25	0.25	100		90 - 110		06/06/2018	13:36	LB95841
CCV3	Cyanide	0.25	0.25	100		90 - 110		06/06/2018	13:36	LB95841



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95841

SDG No.: LB95841

Contract:

Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00024	+/-0.005	U		0.005		06/06/2018	13:29	LB95841



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95841

SDG No.: LB95841

Contract:

Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0	+/-0.005	U		0.005		06/06/2018	13:29	LB95841
CCB2	Cyanide	0.00015	+/-0.005	U		0.005		06/06/2018	13:36	LB95841
CCB3	Cyanide	0.00017	+/-0.005	U		0.005		06/06/2018	13:36	LB95841



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95841

SDG No.: LB95841

Contract: Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

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: LB95841

SDG No.: LB95841

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
PB110010BL	Cyanide	SOLID 0.001	<0.25	Batch Number: U		PB110010 0.25		Prep Date: 06/06/2018	06/06/2018 13:29	LB95841



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95841 level: low sdg no.: LB95841
contract: lab code: CHEM case no.: LB95841 sas no.: LB95841
matrix: Solid sample id: J3241-01 client id: HR-06-060518-AMS
Percent Solids for Sample: 92.4 Spiked ID: J3241-01MS Percent Solids for Spike Sample: 92.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.081	J	2.1	91		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95841 level: low sdg no.: LB95841
contract: lab code: CHEM case no.: LB95841 sas no.: LB95841
matrix: Solid sample id: J3241-01 client id: HR-06-060518-AMSD
Percent Solids for Sample: 92.4 Spiked ID: J3241-01MSD Percent Solids for Spike Sample: 92.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.081	J	2.1	91		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95841 **Level:** LOW **SDG No.:** LB95841
Contract: **Lab Code:** CHEM **Case No.:** LB95841 **SAS No.:** LB95841
Matrix: Solid **Sample ID:** J3241-01 **Client ID:** HR-06-060518-ADUP
Percent Solids for Sample: 92.4 **Duplicate ID** J3241-01DUP **Percent Solids for Spike Sample:** 92.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.081	J	0.052	J	44	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB95841 **Level:** LOW **SDG No.:** LB95841
Contract: **Lab Code:** CHEM **Case No.:** LB95841 **SAS No.:** LB95841
Matrix: Solid **Sample ID:** J3241-01MS **Client ID:** HR-06-060518-AMSD
Percent Solids for Sample: 92.4 **Duplicate ID** J3241-01MSD **Percent Solids for Spike Sample:** 92.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95841

SDG No.: LB95841

Contract:

Lab Code: CHEM

Case No.: LB95841

SAS No.: LB95841

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB110010BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	