

Daily Analysis Runlog For Sequence/QC Batch ID # LB94096

Review By		Review On				
SubDirectory		LB94096		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62945,WP62946,WP62947,WP62948,WP62949,WP62950,WP62951				
ICV Standard		W1542				
CCV Standard		WP62952				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP62954,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	03/23/18 07:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	03/23/18 07:36		OK
3	10PPBCN	10PPBCN	CAL3	03/23/18 07:36		OK
4	50PPBCN	50PPBCN	CAL4	03/23/18 07:36		OK
5	100PPBCN	100PPBCN	CAL5	03/23/18 07:36		OK
6	250PPBCN	250PPBCN	CAL6	03/23/18 07:36		OK
7	500PPBCN	500PPBCN	CAL7	03/23/18 07:36		OK
8	ICV1	ICV1	ICV	03/23/18 12:05		OK
9	ICB1	ICB1	ICB	03/23/18 12:05		OK
10	CCV1	CCV1	CCV	03/23/18 12:05		OK
11	CCB1	CCB1	CCB	03/23/18 12:05		OK
12	PB107597BL	PB107597BL	MB	03/23/18 12:05		OK
13	PB107597BS	PB107597BS	LCS	03/23/18 12:05		OK
14	J1748-07	AU-05-032218-A	SAM	03/23/18 12:05		OK
15	J1748-07DUP	AU-05-032218-ADUP	DUP	03/23/18 12:05		OK
16	J1748-07MS	AU-05-032218-AMS	MS	03/23/18 12:05		OK
17	J1748-07MSD	AU-05-032218-AMSD	MSD	03/23/18 12:05		OK
18	J1748-09	AU-05-032218-B	SAM	03/23/18 12:05		OK
19	J1748-11	AU-05-032218-C	SAM	03/23/18 12:11		OK
20	J1748-13	AU-05-032218-D	SAM	03/23/18 12:11		OK
21	CCV2	CCV2	CCV	03/23/18 12:11		OK



Instrument ID : KONELAB

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

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SubDirectory		LB94096		Test : Cyanide		
STD. NAME		STD REF.#				
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CCV Standard		WP62952				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP62954,WP59958,WP60878				
22	CCB2	CCB2	CCB	03/23/18 12:11		OK



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Report of Analysis

Client:		Date Collected:	3/22/2018 12:00:00 AM
Project:	LB94096	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	AU-05-032218-A	SDG No.:	LB94096
Lab Sample ID:	J1748-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	U	1	0.037		0.28	mg/Kg	03/23/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/22/2018 12:00:00 AM
Project:	LB94096	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	AU-05-032218-B	SDG No.:	LB94096
Lab Sample ID:	J1748-09	Matrix:	Solid
Level (low/med):	low	% Solid:	85.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.038		0.29	mg/Kg	03/23/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/22/2018 12:00:00 AM
Project:	LB94096	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	AU-05-032218-C	SDG No.:	LB94096
Lab Sample ID:	J1748-11	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.077	J	1	0.037		0.28	mg/Kg	03/23/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/22/2018 12:00:00 AM
Project:	LB94096	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	AU-05-032218-D	SDG No.:	LB94096
Lab Sample ID:	J1748-13	Matrix:	Solid
Level (low/med):	low	% Solid:	84.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.093	J	1	0.038		0.28	mg/Kg	03/23/2018	03/23/2018	9012B



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Report of Analysis

Client:		Date Collected:	3/22/2018 12:00:00 AM
Project:	LB94096	Date Received:	3/22/2018 12:00:00 AM
Client Sample ID:	AU-05-032218-D	SDG No.:	LB94096
Lab Sample ID:	J1748-13	Matrix:	Solid
Level (low/med):	low	% Solid:	84.5

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: LB94096

SDG No.: LB94096

Contract: _____

Lab Code: CHEM

Case No.: LB94096

SAS No.: LB94096

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	0.094	0.099	94.9		85 - 115		03/23/2018	12:05	LB94096



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB94096

SDG No.: LB94096

Contract: _____ Lab Code: CHEM

Case No.: LB94096

SAS No.: LB94096

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	0.24	0.25	96		90 - 110		03/23/2018	12:05	LB94096
CCV2	Cyanide	0.26	0.25	104		90 - 110		03/23/2018	12:11	LB94096



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94096

SDG No.: LB94096

Contract:

Lab Code: CHEM

Case No.: LB94096

SAS No.: LB94096

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00078	+/-0.005	U		0.005		03/23/2018	12:05	LB94096



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB94096

SDG No.: LB94096

Contract:

Lab Code: CHEM

Case No.: LB94096

SAS No.: LB94096

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00063	+/-0.005	U		0.005		03/23/2018	12:05	LB94096
CCB2	Cyanide	0.00055	+/-0.005	U		0.005		03/23/2018	12:11	LB94096



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB94096

SDG No.:

LB94096

Contract:

Lab Code:

CHEM

Case No.:

LB94096

SAS No.:

LB94096

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: LB94096

SDG No.: LB94096

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
PB107597BL	Cyanide	SOLID 0.024	<0.25	Batch Number: U		PB107597 0.25		Prep Date: 03/23/2018	03/23/2018 12:05	LB94096



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB94096 level: low sdg no.: LB94096
contract: lab code: CHEM case no.: LB94096 sas no.: LB94096
matrix: Solid sample id: J1748-07 client id: AU-05-032218-AMS
Percent Solids for Sample: 87 Spiked ID: J1748-07MS Percent Solids for Spike Sample: 87

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.037	U	2.2	77.3		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB94096 level: low sdg no.: LB94096
contract: lab code: CHEM case no.: LB94096 sas no.: LB94096
matrix: Solid sample id: J1748-07 client id: AU-05-032218-AMSD
Percent Solids for Sample: 87 Spiked ID: J1748-07MSD Percent Solids for Spike Sample: 87

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.037	U	2.3	73.9	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB94096 **Level:** LOW **SDG No.:** LB94096
Contract: **Lab Code:** CHEM **Case No.:** LB94096 **SAS No.:** LB94096
Matrix: Solid **Sample ID:** J1748-07 **Client ID:** AU-05-032218-ADUP
Percent Solids for Sample: 87 **Duplicate ID** J1748-07DUP **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	0.036	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB94096 **Level:** LOW **SDG No.:** LB94096
Contract: **Lab Code:** CHEM **Case No.:** LB94096 **SAS No.:** LB94096
Matrix: Solid **Sample ID:** J1748-07MS **Client ID:** AU-05-032218-AMSD
Percent Solids for Sample: 87 **Duplicate ID** J1748-07MSD **Percent Solids for Spike Sample:** 87

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB107597BS							
Cyanide	mg/Kg	4.8	4.6		95.8	85 - 115	