

Daily Analysis Runlog For Sequence/QC Batch ID # LB93561

Review By		Review On				
SubDirectory		LB93561		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311				
ICV Standard		W1542				
CCV Standard		WP62312				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62314,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/27/18 09:09		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/27/18 09:09		OK
3	10PPBCN	10PPBCN	CAL3	02/27/18 09:09		OK
4	50PPBCN	50PPBCN	CAL4	02/27/18 09:09		OK
5	100PPBCN	100PPBCN	CAL5	02/27/18 09:09		OK
6	250PPBCN	250PPBCN	CAL6	02/27/18 09:09		OK
7	500PPBCN	500PPBCN	CAL7	02/27/18 09:09		OK
8	ICV1	ICV1	ICV	02/27/18 14:38		OK
9	ICB1	ICB1	ICB	02/27/18 14:38		OK
10	CCV1	CCV1	CCV	02/27/18 14:38		OK
11	CCB1	CCB1	CCB	02/27/18 14:38		OK
12	PB106886BL	PB106886BL	MB	02/27/18 14:38		OK
13	PB106886BS	PB106886BS	LCS	02/27/18 14:38		OK
14	J1703-01	FK-GF-03-004-A	SAM	02/27/18 14:38		OK
15	J1703-01DUP	FK-GF-03-004-ADUP	DUP	02/27/18 14:38		OK
16	J1703-01MS	FK-GF-03-004-AMS	MS	02/27/18 14:38		OK
17	J1703-01MSD	FK-GF-03-004-AMSD	MSD	02/27/18 14:38		OK
18	J1703-03	FK-GF-03-004-B	SAM	02/27/18 14:38		OK
19	J1705-03	100MVAR	SAM	02/27/18 14:45		OK
20	CCV2	CCV2	CCV	02/27/18 14:45		OK
21	CCB2	CCB2	CCB	02/27/18 14:45		OK

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LB93561		Cyanide				

STD. NAME	STD REF.#
ICAL Standard	WP62305,WP62306,WP62307,WP62308,WP62309,WP62310,WP62311
ICV Standard	W1542
CCV Standard	WP62312
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP62314,WP59958,WP60878

#	Sample ID	Reference ID	Method	Time	Status
22	PB106887BL	PB106887BL	MB	02/27/18 14:45	OK
23	PB106887BS	PB106887BS	LCS	02/27/18 14:45	OK
24	J1705-07	100MVAR	SAM	02/27/18 14:50	OK
25	J1705-07DUP	100MVAR DUP	DUP	02/27/18 14:50	OK
26	J1705-07MS	100MVARMS	MS	02/27/18 14:50	OK
27	J1705-07MSD	100MVARMSD	MSD	02/27/18 14:50	OK
28	CCV3	CCV3	CCV	02/27/18 14:50	OK
29	CCB3	CCB3	CCB	02/27/18 14:50	OK



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93561	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	FK-GF-03-004-A	SDG No.:	LB93561
Lab Sample ID:	J1703-01	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.035		0.26	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93561	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	FK-GF-03-004-B	SDG No.:	LB93561
Lab Sample ID:	J1703-03	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.036		0.27	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93561	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	100MVAR	SDG No.:	LB93561
Lab Sample ID:	J1705-03	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.21	J	1	0.036		0.28	mg/Kg	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93561	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	100MVAR	SDG No.:	LB93561
Lab Sample ID:	J1705-07	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	0.0015	U	1	0.003		0.005	mg/L	02/27/2018	02/27/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/26/2018 12:00:00 AM
Project:	LB93561	Date Received:	2/26/2018 12:00:00 AM
Client Sample ID:	100MVAR	SDG No.:	LB93561
Lab Sample ID:	J1705-07	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93561

SDG No.: LB93561

Contract: _____ Lab Code: CHEM

Case No.: LB93561

SAS No.: LB93561

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		02/27/2018	14:38	LB93561
CCV2	Cyanide	0.25	0.25	100		90 - 110		02/27/2018	14:45	LB93561
CCV3	Cyanide	0.25	0.25	100		90 - 110		02/27/2018	14:50	LB93561



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93561 **SDG No.:** LB93561
Contract: **Lab Code:** CHEM **Case No.:** LB93561 **SAS No.:** LB93561

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00076	+/-0.005	U		0.005		02/27/2018	14:38	LB93561

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00059	+/-0.005	U		0.005		02/27/2018	14:38	LB93561
CCB2	Cyanide	0.00042	+/-0.005	U		0.005		02/27/2018	14:45	LB93561
CCB3	Cyanide	0.00037	+/-0.005	U		0.005		02/27/2018	14:50	LB93561



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93561

SDG No.: LB93561

Contract: Lab Code: CHEM

Case No.: LB93561

SAS No.: LB93561

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: LB93561

SDG No.: LB93561

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
PB106886BL	Cyanide	SOLID		Batch Number:		PB106886		Prep Date:	02/27/2018	
		0.012	<0.24	U		0.24		02/27/2018	14:38	LB93561
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106887BL	Cyanide	WATER		Batch Number:		PB106887		Prep Date:	02/27/2018	
		0.0001	<0.005	U		0.005		02/27/2018	14:45	LB93561



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93561 level: low sdg no.: LB93561
contract: lab code: CHEM case no.: LB93561 sas no.: LB93561
matrix: Solid sample id: J1703-01 client id: FK-GF-03-004-AMS
Percent Solids for Sample: 92.6 Spiked ID: J1703-01MS Percent Solids for Spike Sample: 92.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.098	J	2.1	76		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93561 level: low sdg no.: LB93561
contract: lab code: CHEM case no.: LB93561 sas no.: LB93561
matrix: Solid sample id: J1703-01 client id: FK-GF-03-004-AMSD
Percent Solids for Sample: 92.6 Spiked ID: J1703-01MSD Percent Solids for Spike Sample: 92.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.098	J	2.1	76		



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93561 level: low sdg no.: LB93561
contract: lab code: CHEM case no.: LB93561 sas no.: LB93561
matrix: WATER sample id: J1705-07 client id: 100MVARMS
Percent Solids for Sample: 0 Spiked ID: J1705-07MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.036		0.003	U	0.04	90		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93561 level: low sdg no.: LB93561
contract: lab code: CHEM case no.: LB93561 sas no.: LB93561
matrix: WATER sample id: J1705-07 client id: 100MVARMSD
Percent Solids for Sample: 0 Spiked ID: J1705-07MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.037		0.003	U	0.04	92.5		

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DUPLICATE SAMPLE SUMMARY

Client: LB93561 **Level:** LOW **SDG No.:** LB93561
Contract: **Lab Code:** CHEM **Case No.:** LB93561 **SAS No.:** LB93561
Matrix: Solid **Sample ID:** J1703-01 **Client ID:** FK-GF-03-004-ADUP
Percent Solids for Sample: 92.6 **Duplicate ID** J1703-01DUP **Percent Solids for Spike Sample:** 92.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.098	J	0.1	J	2		

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DUPLICATE SAMPLE SUMMARY

Client: LB93561 **Level:** LOW **SDG No.:** LB93561
Contract: **Lab Code:** CHEM **Case No.:** LB93561 **SAS No.:** LB93561
Matrix: Solid **Sample ID:** J1703-01MS **Client ID:** FK-GF-03-004-AMSD
Percent Solids for Sample: 92.6 **Duplicate ID** J1703-01MSD **Percent Solids for Spike Sample:** 92.6

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

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DUPLICATE SAMPLE SUMMARY

Client: LB93561 **Level:** LOW **SDG No.:** LB93561
Contract: **Lab Code:** CHEM **Case No.:** LB93561 **SAS No.:** LB93561
Matrix: WATER **Sample ID:** J1705-07 **Client ID:** 100MVARUP
Percent Solids for Sample: 0 **Duplicate ID** J1705-07DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.0018	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB93561 **Level:** LOW **SDG No.:** LB93561
Contract: **Lab Code:** CHEM **Case No.:** LB93561 **SAS No.:** LB93561
Matrix: WATER **Sample ID:** J1705-07MS **Client ID:** 100MVARMSD
Percent Solids for Sample: 0 **Duplicate ID** J1705-07MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.036		0.037		3		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93561

SDG No.: LB93561

Contract:

Lab Code: CHEM

Case No.: LB93561

SAS No.: LB93561

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106886BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93561

SDG No.: LB93561

Contract:

Lab Code: CHEM

Case No.: LB93561

SAS No.: LB93561

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106887BS Cyanide	mg/L	0.1	0.099		99	85 - 115	