

Daily Analysis Runlog For Sequence/QC Batch ID # LB93431

Review By

Review On

SubDirectory

LB93431

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62145,WP62146,WP62147,WP62148,WP62149,WP62150,WP62151				
ICV Standard		W1542				
CCV Standard		WP62152				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62154,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/21/18 10:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/21/18 10:36		OK
3	10PPBCN	10PPBCN	CAL3	02/21/18 10:36		OK
4	50PPBCN	50PPBCN	CAL4	02/21/18 10:36		OK
5	100PPBCN	100PPBCN	CAL5	02/21/18 10:36		OK
6	250PPBCN	250PPBCN	CAL6	02/21/18 10:36		OK
7	500PPBCN	500PPBCN	CAL7	02/21/18 10:36		OK
8	ICV1	ICV1	ICV	02/21/18 14:59		OK
9	ICB1	ICB1	ICB	02/21/18 14:59		OK
10	CCV1	CCV1	CCV	02/21/18 14:59		OK
11	CCB1	CCB1	CCB	02/21/18 14:59		OK
12	PB106727BL	PB106727BL	MB	02/21/18 14:59		OK
13	PB106727BS	PB106727BS	LCS	02/21/18 14:59		OK
14	J1391-03	AU-05-022018-B	SAM	02/21/18 14:59		OK
15	J1398-03	OK-02-022018	SAM	02/21/18 15:06		OK
16	J1403-05	SU-04-022018	SAM	02/21/18 15:06		OK
17	J1404-05	TR-05-022018	SAM	02/21/18 15:06		OK
18	CCV2	CCV2	CCV	02/21/18 15:06		OK
19	CCB2	CCB2	CCB	02/21/18 15:06		OK
20	J1622-01	MAD-SUB-TRENCH	SAM	02/21/18 15:06		OK
21	PB106728BL	PB106728BL	MB	02/21/18 15:07		OK

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SubDirectory		LB93431		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP62145,WP62146,WP62147,WP62148,WP62149,WP62150,WP62151				
ICV Standard		W1542				
CCV Standard		WP62152				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62154,WP59958,WP60878				
22	PB106728BS	PB106728BS	LCS	02/21/18 15:07		OK
23	J1626-01	SILVERLAKE-LAYDC	SAM	02/21/18 15:07		OK
24	J1626-01DUP	SILVERLAKE-LAYDC	DUP	02/21/18 15:07		OK
25	J1626-01MS	SILVERLAKE-LAYDC	MS	02/21/18 15:07		OK
26	J1626-01MSD	SILVERLAKE-LAYDC	MSD	02/21/18 15:11		OK
27	CCV3	CCV3	CCV	02/21/18 15:11		OK
28	CCB3	CCB3	CCB	02/21/18 15:11		OK
29	J1391-01	AU-05-022018-A	SAM	02/21/18 15:30		OK
30	J1391-01DUP	AU-05-022018-ADUP	DUP	02/21/18 15:30		OK
31	J1391-01MS	AU-05-022018-AMS	MS	02/21/18 15:30		OK
32	J1391-01MSD	AU-05-022018-AMSD	MSD	02/21/18 15:30		OK
33	CCV4	CCV4	CCV	02/21/18 15:30		OK
34	CCB4	CCB4	CCB	02/21/18 15:30		OK



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	AU-05-022018-A	SDG No.:	LB93431
Lab Sample ID:	J1391-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.018	U	1	0.037		0.28	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	AU-05-022018-B	SDG No.:	LB93431
Lab Sample ID:	J1391-03	Matrix:	Solid
Level (low/med):	low	% Solid:	81.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.078	J	1	0.041		0.31	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	OK-02-022018	SDG No.:	LB93431
Lab Sample ID:	J1398-03	Matrix:	Solid
Level (low/med):	low	% Solid:	81.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.13	J	1	0.04		0.3	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	SU-04-022018	SDG No.:	LB93431
Lab Sample ID:	J1403-05	Matrix:	Solid
Level (low/med):	low	% Solid:	79.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.039		0.3	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	TR-05-022018	SDG No.:	LB93431
Lab Sample ID:	J1404-05	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.072	J	1	0.038		0.29	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	MAD-SUB-TRENCH	SDG No.:	LB93431
Lab Sample ID:	J1622-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.035		0.26	mg/Kg	02/21/2018	02/21/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	SILVERLAKE-LAYDOWN-YARD	SDG No.:	LB93431
Lab Sample ID:	J1626-01	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	0.0024	U	1	0.003		0.005	mg/L	02/21/2018	02/21/2018	9012B



Report of Analysis

Client:		Date Collected:	2/20/2018 12:00:00 AM
Project:	LB93431	Date Received:	2/20/2018 12:00:00 AM
Client Sample ID:	SILVERLAKE-LAYDOWN-YARD	SDG No.:	LB93431
Lab Sample ID:	J1626-01	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: LB93431

SDG No.: LB93431

Contract: _____

Lab Code: CHEM

Case No.: LB93431

SAS No.: LB93431

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		02/21/2018	14:59	lb93431



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93431

SDG No.: LB93431

Contract: _____ Lab Code: CHEM

Case No.: LB93431

SAS No.: LB93431

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		02/21/2018	14:59	lb93431
CCV2	Cyanide	0.24	0.25	96		90 - 110		02/21/2018	15:06	lb93431
CCV3	Cyanide	0.26	0.25	104		90 - 110		02/21/2018	15:11	lb93431
CCV4	Cyanide	0.26	0.25	104		90 - 110		02/21/2018	15:30	lb93431



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93431

SDG No.: LB93431

Contract:

Lab Code: CHEM

Case No.: LB93431

SAS No.: LB93431

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00018	+/-0.005	U		0.005		02/21/2018	14:59	lb93431

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00019	+/-0.005	U		0.005		02/21/2018	14:59	lb93431
CCB2	Cyanide	0.0001	+/-0.005	U		0.005		02/21/2018	15:06	lb93431
CCB3	Cyanide	-0.00018	+/-0.005	U		0.005		02/21/2018	15:11	lb93431
CCB4	Cyanide	0.00017	+/-0.005	U		0.005		02/21/2018	15:30	lb93431



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93431

SDG No.: LB93431

Contract: Lab Code: CHEM

Case No.: LB93431

SAS No.: LB93431

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: LB93431

SDG No.: LB93431

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
PB106727BL	Cyanide	SOLID		Batch Number:		PB106727		Prep Date:	02/21/2018	
		-0.013	<0.24	U		0.24		02/21/2018	14:59	lb93431
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB106728BL	Cyanide	WATER		Batch Number:		PB106728		Prep Date:	02/21/2018	
		-0.00034	<0.005	U		0.005		02/21/2018	15:07	lb93431



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93431 level: low sdg no.: LB93431
contract: lab code: CHEM case no.: LB93431 sas no.: LB93431
matrix: Solid sample id: J1391-01 client id: AU-05-022018-AMS
Percent Solids for Sample: 86.3 Spiked ID: J1391-01MS Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.5		0.037	U	2.3	65.2	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93431 level: low sdg no.: LB93431
contract: lab code: CHEM case no.: LB93431 sas no.: LB93431
matrix: Solid sample id: J1391-01 client id: AU-05-022018-AMSD
Percent Solids for Sample: 86.3 Spiked ID: J1391-01MSD Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.037	U	2.3	69.6	*	



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93431 level: low sdg no.: LB93431
contract: lab code: CHEM case no.: LB93431 sas no.: LB93431
matrix: WATER sample id: J1626-01 client id: SILVERLAKE-LAYDOWN-YARDMS
Percent Solids for Sample: 0 Spiked ID: J1626-01MS 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	0.024		0.003	U	0.04	60	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93431 level: low sdg no.: LB93431
contract: lab code: CHEM case no.: LB93431 sas no.: LB93431
matrix: WATER sample id: J1626-01 client id: SILVERLAKE-LAYDOWN-YARDMSD
Percent Solids for Sample: 0 Spiked ID: J1626-01MSD 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	0.024		0.003	U	0.04	60	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93431 **Level:** LOW **SDG No.:** LB93431
Contract: **Lab Code:** CHEM **Case No.:** LB93431 **SAS No.:** LB93431
Matrix: Solid **Sample ID:** J1391-01 **Client ID:** AU-05-022018-ADUP
Percent Solids for Sample: 86.3 **Duplicate ID** J1391-01DUP **Percent Solids for Spike Sample:** 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.037	U	0.025	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93431 Level: LOW SDG No.: LB93431
Contract: _____ Lab Code: CHEM Case No.: LB93431 SAS No.: LB93431
Matrix: Solid Sample ID: J1391-01MS Client ID: AU-05-022018-AMSD
Percent Solids for Sample: 86.3 Duplicate ID J1391-01MSD Percent Solids for Spike Sample: 86.3

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.5		1.6		6		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93431 **Level:** LOW **SDG No.:** LB93431
Contract: _____ **Lab Code:** CHEM **Case No.:** LB93431 **SAS No.:** LB93431
Matrix: WATER **Sample ID:** J1626-01 **Client ID:** SILVERLAKE-LAYDOWN-YARDDUP
Percent Solids for Sample: 0 **Duplicate ID** J1626-01DUP **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	0.0021	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB93431 **Level:** LOW **SDG No.:** LB93431
Contract: **Lab Code:** CHEM **Case No.:** LB93431 **SAS No.:** LB93431
Matrix: WATER **Sample ID:** J1626-01MS **Client ID:** SILVERLAKE-LAYDOWN-YARDMSD
Percent Solids for Sample: 0 **Duplicate ID** J1626-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.024		0.024		0		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93431

SDG No.: LB93431

Contract:

Lab Code: CHEM

Case No.: LB93431

SAS No.: LB93431

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106727BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	

