

Daily Analysis Runlog For Sequence/QC Batch ID # LB93386

Review By

Review On

SubDirectory

LB93386

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP62092,WP62093,WP62094,WP62095,WP62096,WP62097,WP62098				
ICV Standard		W1542				
CCV Standard		WP62099				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP62101,WP59958,WP60878				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/19/18 12:31		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/19/18 12:31		OK
3	10PPBCN	10PPBCN	CAL3	02/19/18 12:31		OK
4	50PPBCN	50PPBCN	CAL4	02/19/18 12:31		OK
5	100PPBCN	100PPBCN	CAL5	02/19/18 12:31		OK
6	250PPBCN	250PPBCN	CAL6	02/19/18 12:31		OK
7	500PPBCN	500PPBCN	CAL7	02/19/18 12:31		OK
8	ICV1	ICV1	ICV	02/19/18 13:09		OK
9	ICB1	ICB1	ICB	02/19/18 13:09		OK
10	CCV1	CCV1	CCV	02/19/18 13:09		OK
11	CCB1	CCB1	CCB	02/19/18 13:09		OK
12	PB106641BL	PB106641BL	MB	02/19/18 13:09		OK
13	PB106641BS	PB106641BS	LCS	02/19/18 13:09		OK
14	LOWPB106641	LOWPB106641	SAM	02/19/18 13:09		OK
15	HIGHPB106641	HIGHPB106641	SAM	02/19/18 13:09		OK
16	J1392-01	BU-03-021618	SAM	02/19/18 13:09		OK
17	J1392-01DUP	BU-03-021618DUP	DUP	02/19/18 13:09		OK
18	J1392-01MS	BU-03-021618MS	MS	02/19/18 13:09		OK
19	J1392-01MSD	BU-03-021618MSD	MSD	02/19/18 13:16		OK
20	J1604-01	TP-1	SAM	02/19/18 13:16		OK
21	J1604-04	TP-2	SAM	02/19/18 13:16		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB93386

Review By		Review On				
SubDirectory LB93386		Test : Cyanide				
STD. NAME	STD REF.#					
ICAL Standard	WP62092,WP62093,WP62094,WP62095,WP62096,WP62097,WP62098					
ICV Standard	W1542					
CCV Standard	WP62099					
ICSA Standard	N/A					
CRI Standard	N/A					
LCS Standard	WP58910					
Chk Standard	WP62101,WP59958,WP60878					

22	CCV2	CCV2	CCV	02/19/18 13:16		OK
23	CCB2	CCB2	CCB	02/19/18 13:16		OK
24	J1604-07	TP-3	SAM	02/19/18 13:16		OK
25	J1604-10	TP-4	SAM	02/19/18 13:16		OK
26	J1606-01	BROOK	SAM	02/19/18 13:16		OK
27	CCV3	CCV3	CCV	02/19/18 13:21		OK
28	CCB3	CCB3	CCB	02/19/18 13:21		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB93386	Date Received:	
Client Sample ID:	HIGHPB106641	SDG No.:	LB93386
Lab Sample ID:	HIGHPB106641	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		1	0.003		0.005	mg/L		02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	BU-03-021618	SDG No.:	LB93386
Lab Sample ID:	J1392-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.09	J	1	0.036		0.27	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB93386
Lab Sample ID:	J1604-01	Matrix:	Solid
Level (low/med):	low	% Solid:	78.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.16	J	1	0.042		0.32	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB93386
Lab Sample ID:	J1604-04	Matrix:	Solid
Level (low/med):	low	% Solid:	85.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.095	J	1	0.038		0.29	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB93386
Lab Sample ID:	J1604-07	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	0.15	J	1	0.038		0.29	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	TP-4	SDG No.:	LB93386
Lab Sample ID:	J1604-10	Matrix:	Solid
Level (low/med):	low	% Solid:	84.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.038		0.29	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	2/13/2018 12:00:00 AM
Project:	LB93386	Date Received:	2/16/2018 12:00:00 AM
Client Sample ID:	BROOK	SDG No.:	LB93386
Lab Sample ID:	J1606-01	Matrix:	Solid
Level (low/med):	low	% Solid:	94

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.094	J	1	0.034		0.26	mg/Kg	02/19/2018	02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93386	Date Received:	
Client Sample ID:	LOWPB106641	SDG No.:	LB93386
Lab Sample ID:	LOWPB106641	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	0.011		1	0.003		0.005	mg/L		02/19/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB93386	Date Received:	
Client Sample ID:	LOWPB106641	SDG No.:	LB93386
Lab Sample ID:	LOWPB106641	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: LB93386

SDG No.: LB93386

Contract: _____ Lab Code: CHEM

Case No.: LB93386

SAS No.: LB93386

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	0.096	0.099	97		85 - 115		02/19/2018	13:09	lb93386



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93386

SDG No.: LB93386

Contract: _____ Lab Code: CHEM

Case No.: LB93386

SAS No.: LB93386

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		02/19/2018	13:09	lb93386
CCV2	Cyanide	0.25	0.25	100		90 - 110		02/19/2018	13:16	lb93386
CCV3	Cyanide	0.26	0.25	104		90 - 110		02/19/2018	13:21	lb93386



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93386

SDG No.: LB93386

Contract:

Lab Code: CHEM

Case No.: LB93386

SAS No.: LB93386

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00064	+/-0.005	U		0.005		02/19/2018	13:09	lb93386



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93386

SDG No.: LB93386

Contract:

Lab Code: CHEM

Case No.: LB93386

SAS No.: LB93386

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00076	+/-0.005	U		0.005		02/19/2018	13:09	1b93386
CCB2	Cyanide	0.00069	+/-0.005	U		0.005		02/19/2018	13:16	1b93386
CCB3	Cyanide	0.00073	+/-0.005	U		0.005		02/19/2018	13:21	1b93386



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB93386

SDG No.:

LB93386

Contract:

Lab Code:

CHEM

Case No.:

LB93386

SAS No.:

LB93386

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: LB93386

SDG No.: LB93386

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
PB106641BL		SOLID		Batch Number:		PB106641		Prep Date:	02/19/2018	
	Cyanide	0.038	<0.24	J		0.24		02/19/2018	13:09	lb93386



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB93386 level: low sdg no.: LB93386
contract: lab code: CHEM case no.: LB93386 sas no.: LB93386
matrix: Solid sample id: J1392-01 client id: BU-03-021618MS
Percent Solids for Sample: 90 Spiked ID: J1392-01MS Percent Solids for Spike Sample: 90

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.09	J	2.2	82		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93386 level: low sdg no.: LB93386
contract: lab code: CHEM case no.: LB93386 sas no.: LB93386
matrix: Solid sample id: J1392-01 client id: BU-03-021618MSD
Percent Solids for Sample: 90 Spiked ID: J1392-01MSD Percent Solids for Spike Sample: 90

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.09	J	2.2	82		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB93386 **Level:** LOW **SDG No.:** LB93386
Contract: **Lab Code:** CHEM **Case No.:** LB93386 **SAS No.:** LB93386
Matrix: Solid **Sample ID:** J1392-01 **Client ID:** BU-03-021618DUP
Percent Solids for Sample: 90 **Duplicate ID** J1392-01DUP **Percent Solids for Spike Sample:** 90

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.09	J	0.059	J	42	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB93386 **Level:** LOW **SDG No.:** LB93386
Contract: **Lab Code:** CHEM **Case No.:** LB93386 **SAS No.:** LB93386
Matrix: Solid **Sample ID:** J1392-01MS **Client ID:** BU-03-021618MSD
Percent Solids for Sample: 90 **Duplicate ID** J1392-01MSD **Percent Solids for Spike Sample:** 90

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93386

SDG No.: LB93386

Contract:

Lab Code: CHEM

Case No.: LB93386

SAS No.: LB93386

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106641BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	