

Daily Analysis Runlog For Sequence/QC Batch ID # LB91185

Review By		Review On				
SubDirectory		LB91185		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59183,WP59184,WP59185,WP59186,WP59187,WP59188,WP59181				
ICV Standard		WP59189				
CCV Standard		WP59190				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP59191,WP55355,WP55836				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/28/17 11:42		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/28/17 11:42		OK
3	10PPBCN	10PPBCN	CAL3	10/28/17 11:42		OK
4	50PPBCN	50PPBCN	CAL4	10/28/17 11:42		OK
5	100PPBCN	100PPBCN	CAL5	10/28/17 11:42		OK
6	250PPBCN	250PPBCN	CAL6	10/28/17 11:42		OK
7	500PPBCN	500PPBCN	CAL7	10/28/17 11:42		OK
8	ICV1	ICV1	ICV	10/28/17 13:34		OK
9	ICB1	ICB1	ICB	10/28/17 13:34		OK
10	CCV1	CCV1	CCV	10/28/17 13:34		OK
11	CCB1	CCB1	CCB	10/28/17 13:35		OK
12	PB103741BL	PB103741BL	MB	10/28/17 13:35		OK
13	PB103741BS	PB103741BS	LCS	10/28/17 13:35		OK
14	MIDPB103741	MIDPB103741	SAM	10/28/17 13:42		OK
15	I6155-01MS	MH-6MS	MS	10/28/17 13:42		OK
16	I6155-01MSD	MH-6MSD	MSD	10/28/17 13:42		OK
17	I6159-01	WASTE-WATER-TRE	SAM	10/28/17 13:42		OK
18	I6155-01	MH-6	SAM	10/28/17 13:59		OK
19	I6155-01DUP	MH-6DUP	DUP	10/28/17 13:59		OK
20	CCV2	CCV2	CCV	10/28/17 13:59		OK
21	CCB2	CCB2	CCB	10/28/17 13:59		OK



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Report of Analysis

Client:		Date Collected:	10/25/2017 12:00:00 AM
Project:	LB91185	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB91185
Lab Sample ID:	I6155-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.0009	U	1	0.001		0.005	mg/L	10/27/2017	10/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	10/26/2017 12:00:00 AM
Project:	LB91185	Date Received:	10/26/2017 12:00:00 AM
Client Sample ID:	WASTE-WATER-TREATMENT	SDG No.:	LB91185
Lab Sample ID:	I6159-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	-0.0001	U	1	0.001		0.005	mg/L	10/27/2017	10/28/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB91185	Date Received:	
Client Sample ID:	MIDPB103741	SDG No.:	LB91185
Lab Sample ID:	MIDPB103741	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.25		1	0.001		0.005	mg/L		10/28/2017	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB91185	Date Received:	
Client Sample ID:	MIDPB103741	SDG No.:	LB91185
Lab Sample ID:	MIDPB103741	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: LB91185

SDG No.: LB91185

Contract: _____ Lab Code: CHEM

Case No.: LB91185

SAS No.: LB91185

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.25	0.25	100	0	90 - 110		10/28/2017	13:34	LB91185
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		10/28/2017	13:59	LB91185



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91185

SDG No.: LB91185

Contract:

Lab Code: CHEM

Case No.: LB91185

SAS No.: LB91185

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0001	+/-0.005	U		0.005		10/28/2017	13:34	LB91185



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91185

SDG No.: LB91185

Contract:

Lab Code: CHEM

Case No.: LB91185

SAS No.: LB91185

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		10/28/2017	13:35	LB91185
CCB2	Cyanide	-0.00013	+/-0.005	U		0.005		10/28/2017	13:59	LB91185



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91185

SDG No.: LB91185

Contract: Lab Code: CHEM

Case No.: LB91185

SAS No.: LB91185

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: LB91185

SDG No.: LB91185

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB103741BL	Cyanide	WATER -0	<0.005	Batch Number: U		PB103741 0.005		Prep Date: 10/28/2017	10/27/2017 13:35	LB91185



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- 5a -
MATRIX SPIKE SUMMARY

client: LB91185 level: low sdg no.: LB91185
contract: lab code: CHEM case no.: LB91185 sas no.: LB91185
matrix: WATER sample id: I6155-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: I6155-01MS 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	0.031		0.001	U	0.04	77.5		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91185 level: low sdg no.: LB91185
contract: lab code: CHEM case no.: LB91185 sas no.: LB91185
matrix: WATER sample id: I6155-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: I6155-01MSD 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	0.031		0.001	U	0.04	77.5		

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DUPLICATE SAMPLE SUMMARY

Client: LB91185 **Level:** LOW **SDG No.:** LB91185
Contract: **Lab Code:** CHEM **Case No.:** LB91185 **SAS No.:** LB91185
Matrix: WATER **Sample ID:** I6155-01 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** I6155-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.001	U	0.0011	J	200.0		

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DUPLICATE SAMPLE SUMMARY

Client: LB91185 **Level:** LOW **SDG No.:** LB91185
Contract: **Lab Code:** CHEM **Case No.:** LB91185 **SAS No.:** LB91185
Matrix: WATER **Sample ID:** I6155-01MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** I6155-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.031		0.031		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91185

SDG No.: LB91185

Contract:

Lab Code: CHEM

Case No.: LB91185

SAS No.: LB91185

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103741BS Cyanide	mg/L	0.1	0.096		96	85 - 115	
