

Daily Analysis Runlog For Sequence/QC Batch ID # LB91290

Review By		Review On				
SubDirectory		LB91290		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59302,WP59303,WP59304,WP59305,WP59306,WP59307,WP59308				
ICV Standard		W1541				
CCV Standard		WP59309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP59310,WP55836,WP55355				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/01/17 11:27		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/01/17 11:27		OK
3	10PPBCN	10PPBCN	CAL3	11/01/17 11:27		OK
4	50PPBCN	50PPBCN	CAL4	11/01/17 11:27		OK
5	100PPBCN	100PPBCN	CAL5	11/01/17 11:27		OK
6	250PPBCN	250PPBCN	CAL6	11/01/17 11:27		OK
7	500PPBCN	500PPBCN	CAL7	11/01/17 11:27		OK
8	ICV1	ICV1	ICV	11/01/17 13:37		OK
9	ICB1	ICB1	ICB	11/01/17 13:37		OK
10	CCV1	CCV1	CCV	11/01/17 13:37		OK
11	CCB1	CCB1	CCB	11/01/17 13:37		OK
12	PB103797BL	PB103797BL	MB	11/01/17 13:37		OK
13	PB103797BS	PB103797BS	LCS	11/01/17 13:37		OK
14	MIDPB103797	MIDPB103797	SAM	11/01/17 13:37		OK
15	I6208-01	EFF-WASTEWATER	SAM	11/01/17 13:37		OK
16	I6208-01DUP	EFF-WASTEWATER	DUP	11/01/17 13:37		OK
17	I6208-01MS	EFF-WASTEWATER	MS	11/01/17 13:37		OK
18	I6208-01MSD	EFF-WASTEWATER	MSD	11/01/17 13:40		OK
19	CCV2	CCV2	CCV	11/01/17 13:40		OK
20	CCB2	CCB2	CCB	11/01/17 13:40		OK



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Report of Analysis

Client:		Date Collected:	10/27/2017 12:00:00 AM
Project:	LB91290	Date Received:	10/27/2017 12:00:00 AM
Client Sample ID:	EFF-WASTEWATER	SDG No.:	LB91290
Lab Sample ID:	I6208-01	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	-0.00092	U	1	0.001		0.005	mg/L	10/30/2017	11/01/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB91290	Date Received:	
Client Sample ID:	MIDPB103797	SDG No.:	LB91290
Lab Sample ID:	MIDPB103797	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		11/01/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB91290	Date Received:	
Client Sample ID:	MIDPB103797	SDG No.:	LB91290
Lab Sample ID:	MIDPB103797	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.096	0.099	97	0	85 - 115		11/01/2017	13:37	LB91290



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91290

SDG No.: LB91290

Contract: _____

Lab Code: CHEM

Case No.: LB91290

SAS No.: LB91290

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	0.26	0.25	104	0	90 - 110		11/01/2017	13:37	LB91290
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		11/01/2017	13:40	LB91290



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91290

SDG No.: LB91290

Contract:

Lab Code: CHEM

Case No.: LB91290

SAS No.: LB91290

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0015	+/-0.005	U		0.005		11/01/2017	13:37	LB91290



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91290

SDG No.: LB91290

Contract:

Lab Code: CHEM

Case No.: LB91290

SAS No.: LB91290

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0015	+/-0.005	U		0.005		11/01/2017	13:37	LB91290
CCB2	Cyanide	-0.0016	+/-0.005	U		0.005		11/01/2017	13:40	LB91290



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91290

SDG No.: LB91290

Contract: Lab Code: CHEM

Case No.: LB91290

SAS No.: LB91290

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: LB91290

SDG No.: LB91290

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
PB103797BL	Cyanide	WATER -0.0016	<0.005	Batch Number: U		PB103797 0.005		Prep Date: 11/01/2017	10/30/2017 13:37	LB91290



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- 5a -
MATRIX SPIKE SUMMARY

client: LB91290 level: low sdg no.: LB91290
contract: lab code: CHEM case no.: LB91290 sas no.: LB91290
matrix: WATER sample id: I6208-01 client id: EFF-WASTEWATERMS
Percent Solids for Sample: 0 Spiked ID: I6208-01MS 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	0.034		0.001	U	0.04	85		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91290 level: low sdg no.: LB91290
contract: lab code: CHEM case no.: LB91290 sas no.: LB91290
matrix: WATER sample id: I6208-01 client id: EFF-WASTEWATERMSD
Percent Solids for Sample: 0 Spiked ID: I6208-01MSD 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	0.036		0.001	U	0.04	90		

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91290 **Level:** LOW **SDG No.:** LB91290
Contract: **Lab Code:** CHEM **Case No.:** LB91290 **SAS No.:** LB91290
Matrix: WATER **Sample ID:** I6208-01 **Client ID:** EFF-WASTEWATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I6208-01DUP **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	-0.00099	U			

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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91290 **Level:** LOW **SDG No.:** LB91290
Contract: **Lab Code:** CHEM **Case No.:** LB91290 **SAS No.:** LB91290
Matrix: WATER **Sample ID:** I6208-01MS **Client ID:** EFF-WASTEWATERMSD
Percent Solids for Sample: 0 **Duplicate ID** I6208-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.034		0.036		6		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91290

SDG No.: LB91290

Contract:

Lab Code: CHEM

Case No.: LB91290

SAS No.: LB91290

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103797BS Cyanide	mg/L	0.1	0.098		98	85 - 115	