

Daily Analysis Runlog For Sequence/QC Batch ID # LB90696

Review By		Review On				
SubDirectory		LB90696		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58658,WP58659,WP58660,WP58661,WP58662,WP58663,WP58665				
ICV Standard		WP58665				
CCV Standard		WP58664				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58666,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	10/10/17 09:25		OK
2	5.0PPBCN	5.0PPBCN	CAL2	10/10/17 09:25		OK
3	10PPBCN	10PPBCN	CAL3	10/10/17 09:25		OK
4	50PPBCN	50PPBCN	CAL4	10/10/17 09:25		OK
5	100PPBCN	100PPBCN	CAL5	10/10/17 09:25		OK
6	250PPBCN	250PPBCN	CAL6	10/10/17 09:25		OK
7	500PPBCN	500PPBCN	CAL7	10/10/17 09:25		OK
8	ICV1	ICV1	ICV	10/10/17 09:52		OK
9	ICB1	ICB1	ICB	10/10/17 09:52		OK
10	CCV1	CCV1	CCV	10/10/17 09:52		OK
11	CCB1	CCB1	CCB	10/10/17 09:53		OK
12	PB103095BL	PB103095BL	MB	10/10/17 09:53		OK
13	PB103095BS	PB103095BS	LCS	10/10/17 09:53		OK
14	MIDPB103095	MIDPB103095	SAM	10/10/17 09:59		OK
15	I5718-01MS	EFF-WASTE-WATER	MS	10/10/17 09:59		OK
16	I5718-01MSD	EFF-WASTE-WATER	MSD	10/10/17 09:59		OK
17	I5718-01	EFF-WASTE-WATER	SAM	10/10/17 10:27		OK
18	I5718-01DUP	EFF-WASTE-WATER	DUP	10/10/17 10:27		OK
19	CCV2	CCV2	CCV	10/10/17 10:27		OK
20	CCB2	CCB2	CCB	10/10/17 10:27		OK



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Report of Analysis

Client:		Date Collected:	10/5/2017 12:00:00 AM
Project:	LB90696	Date Received:	10/5/2017 12:00:00 AM
Client Sample ID:	EFF-WASTE-WATER	SDG No.:	LB90696
Lab Sample ID:	I5718-01	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	0.00069	U	1	0.001		0.005	mg/L	10/09/2017	10/10/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB90696	Date Received:	
Client Sample ID:	MIDPB103095	SDG No.:	LB90696
Lab Sample ID:	MIDPB103095	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		10/10/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB90696	Date Received:	
Client Sample ID:	MIDPB103095	SDG No.:	LB90696
Lab Sample ID:	MIDPB103095	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

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90696

SDG No.: LB90696

Contract: _____ Lab Code: CHEM

Case No.: LB90696

SAS No.: LB90696

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	0.24	0.25	96	0	90 - 110		10/10/2017	09:52	LB90696
CCV2	Cyanide	0.26	0.25	104	0	90 - 110		10/10/2017	10:27	LB90696



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90696

SDG No.: LB90696

Contract:

Lab Code: CHEM

Case No.: LB90696

SAS No.: LB90696

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00067	+/-0.005	U		0.005		10/10/2017	09:52	LB90696



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90696

SDG No.: LB90696

Contract:

Lab Code: CHEM

Case No.: LB90696

SAS No.: LB90696

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		10/10/2017	09:53	LB90696
CCB2	Cyanide	0.00026	+/-0.005	U		0.005		10/10/2017	10:27	LB90696



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB90696

SDG No.:

LB90696

Contract:

Lab Code:

CHEM

Case No.:

LB90696

SAS No.:

LB90696

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: LB90696

SDG No.: LB90696

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
PB103095BL	Cyanide	WATER 0.00062	<0.005	Batch Number: U		PB103095 0.005		Prep Date: 10/10/2017	10/09/2017 09:53	LB90696



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MATRIX SPIKE SUMMARY

client: LB90696 level: low sdg no.: LB90696
contract: lab code: CHEM case no.: LB90696 sas no.: LB90696
matrix: WATER sample id: I5718-01 client id: EFF-WASTE-WATERMS
Percent Solids for Sample: 0 Spiked ID: I5718-01MS 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	0.036		0.001	U	0.04	90		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB90696 level: low sdg no.: LB90696
contract: lab code: CHEM case no.: LB90696 sas no.: LB90696
matrix: WATER sample id: I5718-01 client id: EFF-WASTE-WATERMSD
Percent Solids for Sample: 0 Spiked ID: I5718-01MSD 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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DUPLICATE SAMPLE SUMMARY

Client: LB90696 **Level:** LOW **SDG No.:** LB90696
Contract: **Lab Code:** CHEM **Case No.:** LB90696 **SAS No.:** LB90696
Matrix: WATER **Sample ID:** I5718-01 **Client ID:** EFF-WASTE-WATERDUP
Percent Solids for Sample: 0 **Duplicate ID** I5718-01DUP **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	0.00079	U			



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DUPLICATE SAMPLE SUMMARY

Client: LB90696 **Level:** LOW **SDG No.:** LB90696
Contract: **Lab Code:** CHEM **Case No.:** LB90696 **SAS No.:** LB90696
Matrix: WATER **Sample ID:** I5718-01MS **Client ID:** EFF-WASTE-WATERMSD
Percent Solids for Sample: 0 **Duplicate ID** I5718-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.036		0.036		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90696

SDG No.: LB90696

Contract:

Lab Code: CHEM

Case No.: LB90696

SAS No.: LB90696

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB103095BS Cyanide	mg/L	0.1	0.097		97	85 - 115	