

Daily Analysis Runlog For Sequence/QC Batch ID # LB95341

Review By		Review On				
SubDirectory		LB95341		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP64442,WP64443,WP64444,WP64445,WP64446,WP64447,WP64448				
ICV Standard		W1542				
CCV Standard		WP64449				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64452,WP59958,WP60878				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/14/18 11:08		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/14/18 11:08		OK
3	10PPBCN	10PPBCN	CAL3	05/14/18 11:08		OK
4	50PPBCN	50PPBCN	CAL4	05/14/18 11:08		OK
5	100PPBCN	100PPBCN	CAL5	05/14/18 11:08		OK
6	250PPBCN	250PPBCN	CAL6	05/14/18 11:08		OK
7	500PPBCN	500PPBCN	CAL7	05/14/18 11:08		OK
8	ICV1	ICV1	ICV	05/14/18 16:03		OK
9	ICB1	ICB1	ICB	05/14/18 16:03		OK
10	CCV1	CCV1	CCV	05/14/18 16:03		OK
11	CCB1	CCB1	CCB	05/14/18 16:03		OK
12	PB109241BL	PB109241BL	MB	05/14/18 16:03		OK
13	PB109241BS	PB109241BS	LCS	05/14/18 16:03		OK
14	MIDPB109241	MIDPB109241	SAM	05/14/18 16:03		OK
15	J2904-01	EFF-WW	SAM	05/14/18 16:03		OK
16	J2904-01DUP	EFF-WWDUP	DUP	05/14/18 16:03		OK
17	J2904-01MS	EFF-WWMS	MS	05/14/18 16:03		OK
18	J2904-01MSD	EFF-WWMSD	MSD	05/14/18 16:03		OK
19	CCV2	CCV2	CCV	05/14/18 16:06		OK
20	CCB2	CCB2	CCB	05/14/18 16:06		OK



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Report of Analysis

Client:		Date Collected:	5/11/2018 12:00:00 AM
Project:	LB95341	Date Received:	5/11/2018 12:00:00 AM
Client Sample ID:	EFF-WW	SDG No.:	LB95341
Lab Sample ID:	J2904-01	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	0.0017	J	1	0.001		0.005	mg/L	05/14/2018	05/14/2018	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB95341	Date Received:	
Client Sample ID:	MIDPB109241	SDG No.:	LB95341
Lab Sample ID:	MIDPB109241	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	0.24		1	0.001		0.005	mg/L		05/14/2018	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB95341	Date Received:	
Client Sample ID:	MIDPB109241	SDG No.:	LB95341
Lab Sample ID:	MIDPB109241	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: LB95341

SDG No.: LB95341

Contract: _____

Lab Code: CHEM

Case No.: LB95341

SAS No.: LB95341

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	0.095	0.099	96		85 - 115		05/14/2018	16:03	lb95341



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95341

SDG No.: LB95341

Contract: _____ Lab Code: CHEM

Case No.: LB95341

SAS No.: LB95341

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		05/14/2018	16:03	lb95341
CCV2	Cyanide	0.26	0.25	104		90 - 110		05/14/2018	16:06	lb95341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95341

SDG No.: LB95341

Contract:

Lab Code: CHEM

Case No.: LB95341

SAS No.: LB95341

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00083	+/-0.005	U		0.005		05/14/2018	16:03	lb95341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>LB95341</u>		SDG No.: <u>LB95341</u>								
Contract: _____	Lab Code: <u>CHEM</u>	Case No.: <u>LB95341</u>			SAS No.: <u>LB95341</u>					
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.0011	+/-0.005	J		0.005		05/14/2018	16:03	lb95341
CCB2	Cyanide	-0.00092	+/-0.005	U		0.005		05/14/2018	16:06	lb95341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB95341

SDG No.:

LB95341

Contract:

Lab Code:

CHEM

Case No.:

LB95341

SAS No.:

LB95341

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: LB95341

SDG No.: LB95341

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
PB109241BL	Cyanide	WATER 0.00093	<0.005	Batch Number: U		PB109241 0.005		Prep Date: 05/14/2018	05/14/2018 16:03	lb95341



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MATRIX SPIKE SUMMARY

client: LB95341 level: low sdg no.: LB95341
contract: lab code: CHEM case no.: LB95341 sas no.: LB95341
matrix: WATER sample id: J2904-01 client id: EFF-WWMS
Percent Solids for Sample: 0 Spiked ID: J2904-01MS 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	0.026		0.0017	J	0.04	61	*	



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95341 level: low sdg no.: LB95341
contract: lab code: CHEM case no.: LB95341 sas no.: LB95341
matrix: WATER sample id: J2904-01 client id: EFF-WWMSD
Percent Solids for Sample: 0 Spiked ID: J2904-01MSD 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	0.025		0.0017	J	0.04	58	*	

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DUPLICATE SAMPLE SUMMARY

Client: LB95341 **Level:** LOW **SDG No.:** LB95341
Contract: **Lab Code:** CHEM **Case No.:** LB95341 **SAS No.:** LB95341
Matrix: WATER **Sample ID:** J2904-01 **Client ID:** EFF-WWDUP
Percent Solids for Sample: 0 **Duplicate ID** J2904-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0017	J	0.0014	J	19		

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DUPLICATE SAMPLE SUMMARY

Client: LB95341 **Level:** LOW **SDG No.:** LB95341
Contract: **Lab Code:** CHEM **Case No.:** LB95341 **SAS No.:** LB95341
Matrix: WATER **Sample ID:** J2904-01MS **Client ID:** EFF-WWMSD
Percent Solids for Sample: 0 **Duplicate ID** J2904-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.026		0.025		4		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95341

SDG No.: LB95341

Contract:

Lab Code: CHEM

Case No.: LB95341

SAS No.: LB95341

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109241BS Cyanide	mg/L	0.1	0.097		97	85 - 115	