

Daily Analysis Runlog For Sequence/QC Batch ID # LB92341

Review By		Review On				
SubDirectory		LB92341	Test : Cyanide			
STD. NAME		STD REF.#				
ICAL Standard		wp60522,WP60523,WP60524,WP60525,WP60526,WP60527,WP60528				
ICV Standard		W1541				
CCV Standard		WP60529				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60531,WP59958,WP60150				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/22/17 11:08		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/22/17 11:08		OK
3	10PPBCN	10PPBCN	CAL3	12/22/17 11:08		OK
4	50PPBCN	50PPBCN	CAL4	12/22/17 11:08		OK
5	100PPBCN	100PPBCN	CAL5	12/22/17 11:08		OK
6	250PPBCN	250PPBCN	CAL6	12/22/17 11:08		OK
7	500PPBCN	500PPBCN	CAL7	12/22/17 11:08		OK
8	ICV1	ICV1	ICV	12/22/17 11:51		OK
9	ICB1	ICB1	ICB	12/22/17 11:51		OK
10	CCV1	CCV1	CCV	12/22/17 11:51		OK
11	CCB1	CCB1	CCB	12/22/17 11:51		OK
12	PB105285BL	PB105285BL	MB	12/22/17 11:51		OK
13	PB105285BS	PB105285BS	LCS	12/22/17 11:51		OK
14	MIDPB105285	MIDPB105285	SAM	12/22/17 11:51		OK
15	I7042-01	EFFLUENTDAY1-1-4	SAM	12/22/17 11:57		OK
16	I7042-01DUP	EFFLUENTDAY1-1-4	DUP	12/22/17 11:57		OK
17	I7042-01MS	EFFLUENTDAY1-1-4	MS	12/22/17 11:57		OK
18	I7042-01MSD	EFFLUENTDAY1-1-4	MSD	12/22/17 11:57		OK
19	CCV2	CCV2	CCV	12/22/17 11:57		OK
20	CCB2	CCB2	CCB	12/22/17 11:57		OK



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Report of Analysis

Client:		Date Collected:	12/21/2017 12:00:00 AM
Project:	LB92341	Date Received:	12/21/2017 12:00:00 AM
Client Sample ID:	EFFLUENTDAY1-1-4CN	SDG No.:	LB92341
Lab Sample ID:	I7042-01	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	0.00031	U	1	0.001		0.005	mg/L	12/22/2017	12/22/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB92341	Date Received:	
Client Sample ID:	MIDPB105285	SDG No.:	LB92341
Lab Sample ID:	MIDPB105285	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		12/22/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB92341	Date Received:	
Client Sample ID:	MIDPB105285	SDG No.:	LB92341
Lab Sample ID:	MIDPB105285	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92341

SDG No.: LB92341

Contract: _____ Lab Code: CHEM

Case No.: LB92341

SAS No.: LB92341

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
ICV1	Cyanide	0.096	0.099	97	0	85 - 115		12/22/2017	11:51	LB92341



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92341

SDG No.: LB92341

Contract: _____ Lab Code: CHEM

Case No.: LB92341

SAS No.: LB92341

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		12/22/2017	11:51	LB92341
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		12/22/2017	11:57	LB92341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92341 **SDG No.:** LB92341
Contract: **Lab Code:** CHEM **Case No.:** LB92341 **SAS No.:** LB92341

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00018	+/-0.005	U		0.005		12/22/2017	11:51	LB92341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92341

SDG No.: LB92341

Contract:

Lab Code: CHEM

Case No.: LB92341

SAS No.: LB92341

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00031	+/-0.005	U		0.005		12/22/2017	11:51	LB92341
CCB2	Cyanide	0.00014	+/-0.005	U		0.005		12/22/2017	11:57	LB92341



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92341

SDG No.: LB92341

Contract: Lab Code: CHEM

Case No.: LB92341

SAS No.: LB92341

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: LB92341

SDG No.: LB92341

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
PB105285BL	Cyanide	WATER 0.00015	<0.005	Batch Number: U		PB105285 0.005		Prep Date: 12/22/2017	12/22/2017 11:51	LB92341



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MATRIX SPIKE SUMMARY

client: LB92341 level: low sdg no.: LB92341
contract: lab code: CHEM case no.: LB92341 sas no.: LB92341
matrix: WATER sample id: I7042-01 client id: EFFLUENTDAY1-1-4CNMS
Percent Solids for Sample: 0 Spiked ID: I7042-01MS 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: LB92341 level: low sdg no.: LB92341
contract: lab code: CHEM case no.: LB92341 sas no.: LB92341
matrix: WATER sample id: I7042-01 client id: EFFLUENTDAY1-1-4CNMSD
Percent Solids for Sample: 0 Spiked ID: I7042-01MSD 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: LB92341 **Level:** LOW **SDG No.:** LB92341
Contract: **Lab Code:** CHEM **Case No.:** LB92341 **SAS No.:** LB92341
Matrix: WATER **Sample ID:** I7042-01 **Client ID:** EFFLUENTDAY1-1-4CNDUP
Percent Solids for Sample: 0 **Duplicate ID** I7042-01DUP **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	0.00053	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB92341 **Level:** LOW **SDG No.:** LB92341
Contract: **Lab Code:** CHEM **Case No.:** LB92341 **SAS No.:** LB92341
Matrix: WATER **Sample ID:** I7042-01MS **Client ID:** EFFLUENTDAY1-1-4CNMSD
Percent Solids for Sample: 0 **Duplicate ID** I7042-01MSD **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: LB92341

SDG No.: LB92341

Contract:

Lab Code: CHEM

Case No.: LB92341

SAS No.: LB92341

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105285BS Cyanide	mg/L	0.1	0.097		97	85 - 115	