

Daily Analysis Runlog For Sequence/QC Batch ID # LB92061

Review By		Review On				
SubDirectory		LB92061		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60235,WP60236,WP60237,WP60238,WP60239,WP60240,WP60241				
ICV Standard		W1541				
CCV Standard		WP60243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60244,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/08/17 13:05		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/08/17 13:05		OK
3	10PPBCN	10PPBCN	CAL3	12/08/17 13:05		OK
4	50PPBCN	50PPBCN	CAL4	12/08/17 13:05		OK
5	100PPBCN	100PPBCN	CAL5	12/08/17 13:05		OK
6	250PPBCN	250PPBCN	CAL6	12/08/17 13:05		OK
7	500PPBCN	500PPBCN	CAL7	12/08/17 13:05		OK
8	ICV1	ICV1	ICV	12/08/17 13:34		OK
9	ICB1	ICB1	ICB	12/08/17 13:34		OK
10	CCV1	CCV1	CCV	12/08/17 13:34		OK
11	CCB1	CCB1	CCB	12/08/17 13:34		OK
12	PB104734BL	PB104734BL	MB	12/08/17 13:34		OK
13	PB104734BS	PB104734BS	LCS	12/08/17 13:34		OK
14	MIDPB104734	MIDPB104734	SAM	12/08/17 13:34		OK
15	I6723-01	MH-6	SAM	12/08/17 13:34		OK
16	I6723-01DUP	MH-6DUP	DUP	12/08/17 13:34		OK
17	I6772-01	EFF-WW	SAM	12/08/17 13:41		OK
18	CCV2	CCV2	CCV	12/08/17 13:41		OK
19	CCB2	CCB2	CCB	12/08/17 13:41		OK
20	I6723-01MS	MH-6MS	MS	12/08/17 14:03		OK
21	I6723-01MSD	MH-6MSD	MSD	12/08/17 14:03		OK

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SubDirectory		Test : Cyanide				
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CCV Standard		WP60243				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60244,WP59958,WP60150				
22	DOC-1	DOC-1	SAM	12/08/17 14:03		OK
23	DOC-2	DOC-2	SAM	12/08/17 14:04		OK
24	DOC-3	DOC-3	SAM	12/08/17 14:04		OK
25	DOC-4	DOC-4	SAM	12/08/17 14:04		OK
26	CCV3	CCV3	CCV	12/08/17 14:04		OK
27	CCB3	CCB3	CCB	12/08/17 14:04		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	DOC-1	SDG No.:	LB92061
Lab Sample ID:	DOC-1	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.094		1	0.0001		0.005	mg/Kg		12/08/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	DOC-2	SDG No.:	LB92061
Lab Sample ID:	DOC-2	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.092		1	0.0001		0.005	mg/Kg		12/08/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	DOC-3	SDG No.:	LB92061
Lab Sample ID:	DOC-3	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.092		1	0.0001		0.005	mg/Kg		12/08/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	DOC-4	SDG No.:	LB92061
Lab Sample ID:	DOC-4	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Cyanide	0.093		1	0.0001		0.005	mg/Kg		12/08/2017	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	11/30/2017 12:00:00 AM
Project:	LB92061	Date Received:	12/4/2017 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB92061
Lab Sample ID:	I6723-01	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	0.0011	J	1	0.001		0.005	mg/L	12/08/2017	12/08/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	12/6/2017 12:00:00 AM
Project:	LB92061	Date Received:	12/6/2017 12:00:00 AM
Client Sample ID:	EFF-WW	SDG No.:	LB92061
Lab Sample ID:	I6772-01	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	0.00074	U	1	0.001		0.005	mg/L	12/08/2017	12/08/2017	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	MIDPB104734	SDG No.:	LB92061
Lab Sample ID:	MIDPB104734	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		12/08/2017	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB92061	Date Received:	
Client Sample ID:	MIDPB104734	SDG No.:	LB92061
Lab Sample ID:	MIDPB104734	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: LB92061

SDG No.: LB92061

Contract: _____

Lab Code: CHEM

Case No.: LB92061

SAS No.: LB92061

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	0.097	0.099	98	0	85 - 115		12/08/2017	13:34	LB92061



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92061

SDG No.: LB92061

Contract: _____ Lab Code: CHEM

Case No.: LB92061

SAS No.: LB92061

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		12/08/2017	13:34	LB92061
CCV2	Cyanide	0.27	0.25	108	0	90 - 110		12/08/2017	13:41	LB92061
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		12/08/2017	14:04	LB92061



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92061

SDG No.: LB92061

Contract: _____

Lab Code: CHEM

Case No.: LB92061

SAS No.: LB92061

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00011	+/-0.005	U		0.005		12/08/2017	13:34	LB92061

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		12/08/2017	13:34	LB92061
CCB2	Cyanide	0.0001	+/-0.005	U		0.005		12/08/2017	13:41	LB92061
CCB3	Cyanide	0.00024	+/-0.005	U		0.005		12/08/2017	14:04	LB92061



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92061

SDG No.: LB92061

Contract: Lab Code: CHEM

Case No.: LB92061

SAS No.: LB92061

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: LB92061

SDG No.: LB92061

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
PB104734BL	Cyanide	WATER -0.00018	<0.005	Batch Number: U		PB104734 0.005		Prep Date: 12/08/2017	12/08/2017 13:34	LB92061



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92061 level: low sdg no.: LB92061
contract: lab code: CHEM case no.: LB92061 sas no.: LB92061
matrix: WATER sample id: I6723-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: I6723-01MS 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	0.032		0.0011	J	0.04	77		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92061 level: low sdg no.: LB92061
contract: lab code: CHEM case no.: LB92061 sas no.: LB92061
matrix: WATER sample id: I6723-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: I6723-01MSD 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	0.032		0.0011	J	0.04	77		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92061 **Level:** LOW **SDG No.:** LB92061
Contract: **Lab Code:** CHEM **Case No.:** LB92061 **SAS No.:** LB92061
Matrix: WATER **Sample ID:** I6723-01 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** I6723-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0011	J	0.0013	J	17		

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DUPLICATE SAMPLE SUMMARY

Client: LB92061 **Level:** LOW **SDG No.:** LB92061
Contract: **Lab Code:** CHEM **Case No.:** LB92061 **SAS No.:** LB92061
Matrix: WATER **Sample ID:** I6723-01MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** I6723-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.032		0.032		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92061

SDG No.: LB92061

Contract:

Lab Code: CHEM

Case No.: LB92061

SAS No.: LB92061

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104734BS Cyanide	mg/L	0.1	0.098		98	85 - 115	