

Daily Analysis Runlog For Sequence/QC Batch ID # LB93004

Review By		Review On				
SubDirectory		LB93004		Test : Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP61424,WP61425,WP61426,WP61427,WP61428,WP61429,WP61430
ICV Standard	W1541
CCV Standard	WP61431
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP58910
Chk Standard	WP61433,WP59958,WP58653

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/30/18 12:44		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/30/18 12:44		OK
3	10PPBCN	10PPBCN	CAL3	01/30/18 12:44		OK
4	50PPBCN	50PPBCN	CAL4	01/30/18 12:44		OK
5	100PPBCN	100PPBCN	CAL5	01/30/18 12:44		OK
6	250PPBCN	250PPBCN	CAL6	01/30/18 12:44		OK
7	500PPBCN	500PPBCN	CAL7	01/30/18 12:44		OK
8	ICV1	ICV1	ICV	01/30/18 15:05		OK
9	ICB1	ICB1	ICB	01/30/18 15:05		OK
10	CCV1	CCV1	CCV	01/30/18 15:05		OK
11	CCB1	CCB1	CCB	01/30/18 15:05		OK
12	PB106149BL	PB106149BL	MB	01/30/18 15:05		OK
13	PB106149BS	PB106149BS	LCS	01/30/18 15:05		OK
14	MIDPB106149	MIDPB106149	SAM	01/30/18 15:05		OK
15	J1161-10	LOD-MDL-WATER-0	SAM	01/30/18 15:05		OK
16	J1161-12	MDL-WATER-06-QT	SAM	01/30/18 15:11		OK
17	J1343-01	MH-6	SAM	01/30/18 15:11		OK
18	J1343-01DUP	MH-6DUP	DUP	01/30/18 15:11		OK
19	J1343-01MS	MH-6MS	MS	01/30/18 15:11		OK
20	J1343-01MSD	MH-6MSD	MSD	01/30/18 15:11		OK
21	J1161-11	LOQ-WATER-05-QT	LOQ	01/30/18 15:31		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		Test : Cyanide				
LB93004						
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CCV Standard		WP61431				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP61433,WP59958,WP58653				
22	CCV2	CCV2	CCV	01/30/18 15:31		OK
23	CCB2	CCB2	CCB	01/30/18 15:31		OK



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB93004	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	LOD-MDL-WATER-04-QT1-2018	SDG No.:	LB93004
Lab Sample ID:	J1161-10	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	0.0012	J	1	0.001		0.005	mg/L	01/29/2018	01/30/2018	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	1/16/2018 12:00:00 AM
Project:	LB93004	Date Received:	1/16/2018 12:00:00 AM
Client Sample ID:	MDL-WATER-06-QT1-2018	SDG No.:	LB93004
Lab Sample ID:	J1161-12	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	0.0014	J	1	0.001		0.005	mg/L	01/29/2018	01/30/2018	SM4500-CN C, ¹



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Report of Analysis

Client:		Date Collected:	1/25/2018 12:00:00 AM
Project:	LB93004	Date Received:	1/26/2018 12:00:00 AM
Client Sample ID:	MH-6	SDG No.:	LB93004
Lab Sample ID:	J1343-01	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	0.0057		1	0.001		0.005	mg/L	01/29/2018	01/30/2018	SM4500-CN C, I



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Report of Analysis

Client:		Date Collected:	
Project:	LB93004	Date Received:	
Client Sample ID:	MIDPB106149	SDG No.:	LB93004
Lab Sample ID:	MIDPB106149	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		01/30/2018	SM4500-CN C,]



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Report of Analysis

Client:		Date Collected:	
Project:	LB93004	Date Received:	
Client Sample ID:	MIDPB106149	SDG No.:	LB93004
Lab Sample ID:	MIDPB106149	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: LB93004

SDG No.: LB93004

Contract: _____ Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

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	0.099	0.099	100		85 - 115		01/30/2018	15:05	LB93004



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB93004

SDG No.: LB93004

Contract: _____ Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

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	0.25	0.25	100		90 - 110		01/30/2018	15:05	LB93004
CCV2	Cyanide	0.27	0.25	108		90 - 110		01/30/2018	15:31	LB93004



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93004

SDG No.: LB93004

Contract: _____

Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00053	+/-0.005	U		0.005		01/30/2018	15:05	LB93004



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB93004

SDG No.: LB93004

Contract:

Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00047	+/-0.005	U		0.005		01/30/2018	15:05	LB93004
CCB2	Cyanide	0.001	+/-0.005	J		0.005		01/30/2018	15:31	LB93004



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB93004

SDG No.:

LB93004

Contract:

Lab Code:

CHEM

Case No.:

LB93004

SAS No.:

LB93004

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: LB93004

SDG No.: LB93004

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
PB106149BL	Cyanide	WATER 0.00075	<0.005	Batch Number: U		PB106149 0.005		Prep Date: 01/30/2018	01/29/2018 15:05	LB93004



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- 5a -
MATRIX SPIKE SUMMARY

client: LB93004 level: low sdg no.: LB93004
contract: lab code: CHEM case no.: LB93004 sas no.: LB93004
matrix: WATER sample id: J1343-01 client id: MH-6MS
Percent Solids for Sample: 0 Spiked ID: J1343-01MS 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	0.044		0.0057		0.04	96		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB93004 level: low sdg no.: LB93004
contract: lab code: CHEM case no.: LB93004 sas no.: LB93004
matrix: WATER sample id: J1343-01 client id: MH-6MSD
Percent Solids for Sample: 0 Spiked ID: J1343-01MSD 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	0.045		0.0057		0.04	98		

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DUPLICATE SAMPLE SUMMARY

Client: LB93004 **Level:** LOW **SDG No.:** LB93004
Contract: **Lab Code:** CHEM **Case No.:** LB93004 **SAS No.:** LB93004
Matrix: WATER **Sample ID:** J1343-01 **Client ID:** MH-6DUP
Percent Solids for Sample: 0 **Duplicate ID** J1343-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.0057		0.0054		5		



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DUPLICATE SAMPLE SUMMARY

Client: LB93004 **Level:** LOW **SDG No.:** LB93004
Contract: **Lab Code:** CHEM **Case No.:** LB93004 **SAS No.:** LB93004
Matrix: WATER **Sample ID:** J1343-01MS **Client ID:** MH-6MSD
Percent Solids for Sample: 0 **Duplicate ID** J1343-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.044		0.045		2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93004

SDG No.: LB93004

Contract:

Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
J1161-11 Cyanide	mg/L	0.01	0.0051		51	50 - 150	



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB93004

SDG No.: LB93004

Contract:

Lab Code: CHEM

Case No.: LB93004

SAS No.: LB93004

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB106149BS Cyanide	mg/L	0.1	0.1		100	85 - 115	