

Daily Analysis Runlog For Sequence/QC Batch ID # LB85938

Review By		Review On				
SubDirectory		LB85938		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP53059,WP53060,WP53061,WP53062,WP53063,WP53064,WP53065,WP53066				
ICV Standard		W1540				
CCV Standard		WP53067				
ICSA Standard						
CRI Standard						
LCS Standard		W51099				
Chk Standard		WP53058,WP51626,WP51276				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	02/21/17 10:06		OK
2	5.0PPBCN	5.0PPBCN	CAL2	02/21/17 10:06		OK
3	10PPBCN	10PPBCN	CAL3	02/21/17 10:06		OK
4	50PPBCN	50PPBCN	CAL4	02/21/17 10:06		OK
5	100PPBCN	100PPBCN	CAL5	02/21/17 10:06		OK
6	250PPBCN	250PPBCN	CAL6	02/21/17 10:06		OK
7	500PPBCN	500PPBCN	CAL7	02/21/17 10:06		OK
8	ICV1	ICV1	ICV	02/21/17 10:40		OK
9	ICB1	ICB1	ICB	02/21/17 10:40		OK
10	CCV1	CCV1	CCV	02/21/17 10:40		OK
11	CCB1	CCB1	CCB	02/21/17 10:40		OK
12	PB97055BL	PB97055BL	MB	02/21/17 10:40		OK
13	PB97055BS	PB97055BS	LCS	02/21/17 10:40		OK
14	LOWPB97055	LOWPB97055	SAM	02/21/17 10:40		OK
15	HIGHPB97055	HIGHPB97055	SAM	02/21/17 10:40		OK
16	I1884-16	MANHOLE-002	SAM	02/21/17 10:46		OK
17	I1884-19	GROUNDWATER	SAM	02/21/17 10:46		OK
18	I1884-13	MANHOLE-001	SAM	02/21/17 11:14		OK
19	I1884-13DUP	MANHOLE-001DUP	DUP	02/21/17 11:14		OK
20	I1884-13MS	MANHOLE-001MS	MS	02/21/17 11:14		OK
21	I1884-13MSD	MANHOLE-001MSD	MSD	02/21/17 11:14		OK



Instrument ID: KONELAB 20

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

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SubDirectory		Test : Cyanide				
LB85938						
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ICV Standard	W1540					
CCV Standard	WP53067					
ICSA Standard						
CRI Standard						
LCS Standard	W51099					
Chk Standard	WP53058,WP51626,WP51276					
22	CCV2	CCV2	CCV	02/21/17 11:14		OK
23	CCB2	CCB2	CCB	02/21/17 11:14		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB85938	Date Received:	
Client Sample ID:	HIGHPB97055	SDG No.:	LB85938
Lab Sample ID:	HIGHPB97055	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.49		1	0.003		0.005	mg/L		02/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2017 12:00:00 AM
Project:	LB85938	Date Received:	2/16/2017 12:00:00 AM
Client Sample ID:	MANHOLE-001	SDG No.:	LB85938
Lab Sample ID:	I1884-13	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.00099	U	1	0.003		0.005	mg/L	02/20/2017	02/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2017 12:00:00 AM
Project:	LB85938	Date Received:	2/16/2017 12:00:00 AM
Client Sample ID:	MANHOLE-002	SDG No.:	LB85938
Lab Sample ID:	I1884-16	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.00057	U	1	0.003		0.005	mg/L	02/20/2017	02/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	2/16/2017 12:00:00 AM
Project:	LB85938	Date Received:	2/16/2017 12:00:00 AM
Client Sample ID:	GROUNDWATER	SDG No.:	LB85938
Lab Sample ID:	I1884-19	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0041	J	1	0.003		0.005	mg/L	02/20/2017	02/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB85938	Date Received:	
Client Sample ID:	LOWPB97055	SDG No.:	LB85938
Lab Sample ID:	LOWPB97055	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0088		1	0.003		0.005	mg/L		02/21/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB85938	Date Received:	
Client Sample ID:	LOWPB97055	SDG No.:	LB85938
Lab Sample ID:	LOWPB97055	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



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85938

SDG No.: LB85938

Contract: **Lab Code:** CHEM

Case No.: LB85938 **SAS No.:** LB85938

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.093	0.099	93.9	0	85 - 115		02/21/2017	10:40	LB85938



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85938

SDG No.: LB85938

Contract: _____ Lab Code: CHEM

Case No.: LB85938

SAS No.: LB85938

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		02/21/2017	10:40	LB85938
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		02/21/2017	11:14	LB85938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85938 **SDG No.:** LB85938
Contract: **Lab Code:** CHEM **Case No.:** LB85938 **SAS No.:** LB85938

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.0013	+/-0.005	U		0.005		02/21/2017	10:40	LB85938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85938

SDG No.: LB85938

Contract:

Lab Code: CHEM

Case No.: LB85938

SAS No.: LB85938

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.0013	+/-0.005	U		0.005		02/21/2017	10:40	LB85938
CCB2	Cyanide	-0.00046	+/-0.005	U		0.005		02/21/2017	11:14	LB85938



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85938

SDG No.: LB85938

Contract: Lab Code: CHEM

Case No.: LB85938

SAS No.: LB85938

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB85938

SDG No.: LB85938

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
PB97055BL		WATER		Batch Number:		PB97055		Prep Date:	02/20/2017	
	Cyanide	-0.0013	<0.005	U		0.005		02/21/2017	10:40	LB85938



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85938 level: low sdg no.: LB85938
contract: lab code: CHEM case no.: LB85938 sas no.: LB85938
matrix: WATER sample id: I1884-13 client id: MANHOLE-001MS
Percent Solids for Sample: 0 Spiked ID: I1884-13MS 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	0.034		0.003	U	0.04	85		



metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB85938 level: low sdg no.: LB85938
contract: lab code: CHEM case no.: LB85938 sas no.: LB85938
matrix: WATER sample id: I1884-13 client id: MANHOLE-001MSD
Percent Solids for Sample: 0 Spiked ID: I1884-13MSD 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	0.035		0.003	U	0.04	87.5		

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85938 **Level:** LOW **SDG No.:** LB85938
Contract: **Lab Code:** CHEM **Case No.:** LB85938 **SAS No.:** LB85938
Matrix: WATER **Sample ID:** I1884-13 **Client ID:** MANHOLE-001DUP
Percent Solids for Sample: 0 **Duplicate ID** I1884-13DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.0013	U			

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85938 **Level:** LOW **SDG No.:** LB85938
Contract: **Lab Code:** CHEM **Case No.:** LB85938 **SAS No.:** LB85938
Matrix: WATER **Sample ID:** I1884-13MS **Client ID:** MANHOLE-001MSD
Percent Solids for Sample: 0 **Duplicate ID** I1884-13MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.034		0.035		3		



Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB85938

SDG No.: LB85938

Contract:

Lab Code: CHEM

Case No.: LB85938

SAS No.: LB85938

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97055BS Cyanide	mg/L	0.1	0.097		97	85 - 115	