

Daily Analysis Runlog For Sequence/QC Batch ID # LB90193

Review By		Review On				
SubDirectory		LB90193		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP58073,WP58074,WP58075,WP58076,WP58077,WP58078,WP58071				
ICV Standard		WP58081				
CCV Standard		WP58079				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58080,WP55355,WP55836				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/20/17 08:58		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/20/17 08:58		OK
3	10PPBCN	10PPBCN	CAL3	09/20/17 08:58		OK
4	50PPBCN	50PPBCN	CAL4	09/20/17 08:58		OK
5	100PPBCN	100PPBCN	CAL5	09/20/17 08:58		OK
6	250PPBCN	250PPBCN	CAL6	09/20/17 08:58		OK
7	500PPBCN	500PPBCN	CAL7	09/20/17 08:58		OK
8	ICV1	ICV1	ICV	09/20/17 14:40		OK
9	ICB1	ICB1	ICB	09/20/17 14:40		OK
10	CCV1	CCV1	CCV	09/20/17 14:40		OK
11	CCB1	CCB1	CCB	09/20/17 14:40		OK
12	PB102462BL	PB102462BL	MB	09/20/17 14:40		OK
13	PB102462BS	PB102462BS	LCS	09/20/17 14:40		OK
14	LOWPB102462	LOWPB102462	SAM	09/20/17 14:47		OK
15	HIGHPB102462	HIGHPB102462	SAM	09/20/17 14:47		OK
16	I5308-01	220-1-COMP	SAM	09/20/17 14:47		OK
17	I5308-01DUP	220-1-COMPDUP	DUP	09/20/17 14:47		OK
18	I5308-01MS	220-1-COMPMS	MS	09/20/17 14:47		OK
19	I5308-01MSD	220-1-COMPMSD	MSD	09/20/17 14:47		OK
20	I5308-05	220-1-(O-U)-COMP	SAM	09/20/17 14:47		OK
21	I5310-01	NB-01-091917-A	SAM	09/20/17 14:47		OK

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

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SubDirectory		Test : Cyanide				
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ICV Standard		WP58081				
CCV Standard		WP58079				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP58080,WP55355,WP55836				
22	CCV2	CCV2	CCV	09/20/17 14:54		OK
23	CCB2	CCB2	CCB	09/20/17 14:54		OK
24	I5310-04	NB-01-091917-B	SAM	09/20/17 14:54		OK
25	I5311-01	OK-03-091917	SAM	09/20/17 14:54		OK
26	I5312-01	OR-01-091917	SAM	09/20/17 14:54		OK
27	I5313-01	72-12000-R4-COMP	SAM	09/20/17 14:54		OK
28	CCV3	CCV3	CCV	09/20/17 14:54		OK
29	CCB3	CCB3	CCB	09/20/17 14:54		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB90193	Date Received:	
Client Sample ID:	HIGHPB102462	SDG No.:	LB90193
Lab Sample ID:	HIGHPB102462	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	0.48		1	0.003		0.005	mg/L		09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	220-1-COMP	SDG No.:	LB90193
Lab Sample ID:	I5308-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.15	J	1	0.037		0.28	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	220-1-(O-U)-COMP	SDG No.:	LB90193
Lab Sample ID:	I5308-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.026	U	1	0.034		0.26	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	NB-01-091917-A	SDG No.:	LB90193
Lab Sample ID:	I5310-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.031	U	1	0.034		0.25	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	NB-01-091917-B	SDG No.:	LB90193
Lab Sample ID:	I5310-04	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.044	J	1	0.034		0.26	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	OK-03-091917	SDG No.:	LB90193
Lab Sample ID:	I5311-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.11	J	1	0.034		0.26	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	OR-01-091917	SDG No.:	LB90193
Lab Sample ID:	I5312-01	Matrix:	Solid
Level (low/med):	low	% Solid:	95.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.064	J	1	0.033		0.25	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	9/19/2017 12:00:00 AM
Project:	LB90193	Date Received:	9/19/2017 12:00:00 AM
Client Sample ID:	72-12000-R4-COMP	SDG No.:	LB90193
Lab Sample ID:	I5313-01	Matrix:	Solid
Level (low/med):	low	% Solid:	88.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.075	J	1	0.036		0.27	mg/Kg	09/20/2017	09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90193	Date Received:	
Client Sample ID:	LOWPB102462	SDG No.:	LB90193
Lab Sample ID:	LOWPB102462	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	0.0096		1	0.003		0.005	mg/L		09/20/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB90193	Date Received:	
Client Sample ID:	LOWPB102462	SDG No.:	LB90193
Lab Sample ID:	LOWPB102462	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: LB90193

SDG No.: LB90193

Contract: _____ Lab Code: CHEM

Case No.: LB90193

SAS No.: LB90193

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		09/20/2017	14:40	LB90193
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		09/20/2017	14:54	LB90193
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		09/20/2017	14:54	LB90193



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90193 **SDG No.:** LB90193
Contract: **Lab Code:** CHEM **Case No.:** LB90193 **SAS No.:** LB90193

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00015	+/-0.005	U		0.005		09/20/2017	14:40	LB90193



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90193

SDG No.: LB90193

Contract:

Lab Code: CHEM

Case No.: LB90193

SAS No.: LB90193

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00022	+/-0.005	U		0.005		09/20/2017	14:40	LB90193
CCB2	Cyanide	0.00097	+/-0.005	U		0.005		09/20/2017	14:54	LB90193
CCB3	Cyanide	0.0005	+/-0.005	U		0.005		09/20/2017	14:54	LB90193



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90193

SDG No.: LB90193

Contract: Lab Code: CHEM

Case No.: LB90193

SAS No.: LB90193

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

Client: LB90193

SDG No.: LB90193

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB102462BL	Cyanide	SOLID -0.013	<0.25	Batch Number: U		PB102462 0.25		Prep Date: 09/20/2017	09/20/2017 14:40	LB90193



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90193 level: low sdg no.: LB90193
contract: lab code: CHEM case no.: LB90193 sas no.: LB90193
matrix: Solid sample id: I5308-01 client id: 220-1-COMPMS
Percent Solids for Sample: 86.6 Spiked ID: I5308-01MS Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.15	J	2.2	84		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90193 level: low sdg no.: LB90193
contract: lab code: CHEM case no.: LB90193 sas no.: LB90193
matrix: Solid sample id: I5308-01 client id: 220-1-COMPMSD
Percent Solids for Sample: 86.6 Spiked ID: I5308-01MSD Percent Solids for Spike Sample: 86.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.15	J	2.2	84		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90193 **Level:** LOW **SDG No.:** LB90193
Contract: **Lab Code:** CHEM **Case No.:** LB90193 **SAS No.:** LB90193
Matrix: Solid **Sample ID:** I5308-01 **Client ID:** 220-1-COMPDUP
Percent Solids for Sample: 86.6 **Duplicate ID** I5308-01DUP **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.15	J	0.12	J	22	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB90193 **Level:** LOW **SDG No.:** LB90193
Contract: **Lab Code:** CHEM **Case No.:** LB90193 **SAS No.:** LB90193
Matrix: Solid **Sample ID:** I5308-01MS **Client ID:** 220-1-COMPMSD
Percent Solids for Sample: 86.6 **Duplicate ID** I5308-01MSD **Percent Solids for Spike Sample:** 86.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90193

SDG No.: LB90193

Contract:

Lab Code: CHEM

Case No.: LB90193

SAS No.: LB90193

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102462BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	