

Daily Analysis Runlog For Sequence/QC Batch ID # LB90079

Review By		Review On				
SubDirectory		LB90079		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57920,WP57921,WP57922,WP57923,WP57924,WP57925,WP57918				
ICV Standard		WP57927				
CCV Standard		WP57926				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57928,WP55355,WP55836				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/14/17 14:29		OK
2	5.0PPBCN	5.0PPBCN	CAL2	09/14/17 14:29		OK
3	10PPBCN	10PPBCN	CAL3	09/14/17 14:29		OK
4	50PPBCN	50PPBCN	CAL4	09/14/17 14:29		OK
5	100PPBCN	100PPBCN	CAL5	09/14/17 14:29		OK
6	250PPBCN	250PPBCN	CAL6	09/14/17 14:29		OK
7	500PPBCN	500PPBCN	CAL7	09/14/17 14:29		OK
8	ICV1	ICV1	ICV	09/14/17 15:16		OK
9	ICB1	ICB1	ICB	09/14/17 15:16		OK
10	CCV1	CCV1	CCV	09/14/17 15:16		OK
11	CCB1	CCB1	CCB	09/14/17 15:16		OK
12	PB102334BL	PB102334BL	MB	09/14/17 15:16		OK
13	PB102334BS	PB102334BS	LCS	09/14/17 15:23		OK
14	LOWPB102334	LOWPB102334	SAM	09/14/17 15:23		OK
15	HIGHPB102334	HIGHPB102334	SAM	09/14/17 15:23		OK
16	I5229-06	UT5400S16	SAM	09/14/17 15:24		OK
17	I5229-06DUP	UT5400S16DUP	DUP	09/14/17 15:24		OK
18	I5229-06MS	UT5400S16MS	MS	09/14/17 15:24		OK
19	I5229-06MSD	UT5400S16MSD	MSD	09/14/17 15:24		OK
20	I5229-07	UT5400S17	SAM	09/14/17 15:24		OK
21	I5229-08	UT5400S18	SAM	09/14/17 15:24		OK



Instrument ID : KONELAB

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

Daily Analysis Runlog For Sequence/QC Batch ID # LB90079

Review By		Review On				
SubDirectory		Test : Cyanide				
LB90079						
STD. NAME		STD REF.#				
ICAL Standard		WP57920,WP57921,WP57922,WP57923,WP57924,WP57925,WP57918				
ICV Standard		WP57927				
CCV Standard		WP57926				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57928,WP55355,WP55836				
22	CCV2	CCV2	CCV	09/14/17 15:30		OK
23	CCB2	CCB2	CCB	09/14/17 15:30		OK
24	I5229-09	UT5400S19	SAM	09/14/17 15:30		OK
25	I5229-10	UT5400S20	SAM	09/14/17 15:30		OK
26	I5229-11	UT5400S21	SAM	09/14/17 15:30		OK
27	I5236-01	TR-04-091317	SAM	09/14/17 15:30		OK
28	CCV3	CCV3	CCV	09/14/17 15:30		OK
29	CCB3	CCB3	CCB	09/14/17 15:30		OK



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB90079	Date Received:	
Client Sample ID:	HIGHPB102334	SDG No.:	LB90079
Lab Sample ID:	HIGHPB102334	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		09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S16	SDG No.:	LB90079
Lab Sample ID:	I5229-06	Matrix:	Solid
Level (low/med):	low	% Solid:	77.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.31		1	0.041		0.31	mg/Kg	09/14/2017	09/14/2017	9012B

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S17	SDG No.:	LB90079
Lab Sample ID:	I5229-07	Matrix:	Solid
Level (low/med):	low	% Solid:	79.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0034	U	1	0.04		0.3	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S18	SDG No.:	LB90079
Lab Sample ID:	I5229-08	Matrix:	Solid
Level (low/med):	low	% Solid:	77.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.041		0.31	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S19	SDG No.:	LB90079
Lab Sample ID:	I5229-09	Matrix:	Solid
Level (low/med):	low	% Solid:	79.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.07	J	1	0.04		0.3	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S20	SDG No.:	LB90079
Lab Sample ID:	I5229-10	Matrix:	Solid
Level (low/med):	low	% Solid:	78.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.12	J	1	0.041		0.31	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/12/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	UT5400S21	SDG No.:	LB90079
Lab Sample ID:	I5229-11	Matrix:	Solid
Level (low/med):	low	% Solid:	76

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.041		0.31	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	9/13/2017 12:00:00 AM
Project:	LB90079	Date Received:	9/13/2017 12:00:00 AM
Client Sample ID:	TR-04-091317	SDG No.:	LB90079
Lab Sample ID:	I5236-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.041	J	1	0.035		0.27	mg/Kg	09/14/2017	09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB90079	Date Received:	
Client Sample ID:	LOWPB102334	SDG No.:	LB90079
Lab Sample ID:	LOWPB102334	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	0.0097		1	0.003		0.005	mg/L		09/14/2017	9012B



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	
Project:	LB90079	Date Received:	
Client Sample ID:	LOWPB102334	SDG No.:	LB90079
Lab Sample ID:	LOWPB102334	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
-----	-----------	-------	------	----	-----	-----	------------	-------	-----------	-----------	----------

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: LB90079

SDG No.: LB90079

Contract: _____

Lab Code: CHEM

Case No.: LB90079

SAS No.: LB90079

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		09/14/2017	15:16	LB90079



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB90079

SDG No.: LB90079

Contract: _____ Lab Code: CHEM

Case No.: LB90079

SAS No.: LB90079

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		09/14/2017	15:16	LB90079
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		09/14/2017	15:30	LB90079
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		09/14/2017	15:30	LB90079



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90079

SDG No.: LB90079

Contract:

Lab Code: CHEM

Case No.: LB90079

SAS No.: LB90079

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00013	+/-0.005	U		0.005		09/14/2017	15:16	LB90079
CCB2	Cyanide	-0.00063	+/-0.005	U		0.005		09/14/2017	15:30	LB90079
CCB3	Cyanide	-0.00038	+/-0.005	U		0.005		09/14/2017	15:30	LB90079



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB90079

SDG No.: LB90079

Contract: Lab Code: CHEM

Case No.: LB90079

SAS No.: LB90079

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
-----------	---------	----------------	---------------------	--------------	-----	------	---	------------------	------------------	---------------



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB90079

SDG No.: LB90079

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
PB102334BL	Cyanide	SOLID -0.039	<0.24	Batch Number: U		PB102334 0.24		Prep Date: 09/14/2017	09/14/2017 15:16	LB90079



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB90079 level: low sdg no.: LB90079
contract: lab code: CHEM case no.: LB90079 sas no.: LB90079
matrix: Solid sample id: I5229-06 client id: UT5400S16MS
Percent Solids for Sample: 77.9 Spiked ID: I5229-06MS Percent Solids for Spike Sample: 77.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2		0.31		2.5	68	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB90079 level: low sdg no.: LB90079
contract: lab code: CHEM case no.: LB90079 sas no.: LB90079
matrix: Solid sample id: I5229-06 client id: UT5400S16MSD
Percent Solids for Sample: 77.9 Spiked ID: I5229-06MSD Percent Solids for Spike Sample: 77.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.31		2.5	72	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90079 Level: LOW SDG No.: LB90079
Contract: Lab Code: CHEM Case No.: LB90079 SAS No.: LB90079
Matrix: Solid Sample ID: I5229-06 Client ID: UT5400S16DUP
Percent Solids for Sample: 77.9 Duplicate ID I5229-06DUP Percent Solids for Spike Sample: 77.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.31		0.19	J	48	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB90079 **Level:** LOW **SDG No.:** LB90079
Contract: **Lab Code:** CHEM **Case No.:** LB90079 **SAS No.:** LB90079
Matrix: Solid **Sample ID:** I5229-06MS **Client ID:** UT5400S16MSD
Percent Solids for Sample: 77.9 **Duplicate ID** I5229-06MSD **Percent Solids for Spike Sample:** 77.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2		2.1		5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB90079

SDG No.: LB90079

Contract:

Lab Code: CHEM

Case No.: LB90079

SAS No.: LB90079

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB102334BS Cyanide	mg/Kg	4.9	4.6		93.9	85 - 115	