

Daily Analysis Runlog For Sequence/QC Batch ID # LB88970

Review By

Review On

SubDirectory

LB88970

Test :

Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP56603,WP56604,WP56605,WP56606,WP56607,WP56608,WP56609,WP56610
ICV Standard	wp56613
CCV Standard	WP56612
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP56611,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	07/24/17 10:09		OK
2	5.0PPBCN	5.0PPBCN	CAL2	07/24/17 10:09		OK
3	10PPBCN	10PPBCN	CAL3	07/24/17 10:09		OK
4	50PPBCN	50PPBCN	CAL4	07/24/17 10:10		OK
5	100PPBCN	100PPBCN	CAL5	07/24/17 10:10		OK
6	250PPBCN	250PPBCN	CAL6	07/24/17 10:10		OK
7	500PPBCN	500PPBCN	CAL7	07/24/17 10:10		OK
8	ICV1	ICV1	ICV	07/24/17 14:15		OK
9	ICB1	ICB1	ICB	07/24/17 14:15		OK
10	CCV1	CCV1	CCV	07/24/17 14:15		OK
11	CCB1	CCB1	CCB	07/24/17 14:15		OK
12	PB100901BL	PB100901BL	MB	07/24/17 14:15		OK
13	I4378-02	DRUM-1	SAM	07/24/17 14:15		OK
14	I4378-02DUP	DRUM-1DUP	DUP	07/24/17 14:15		OK
15	I4378-04	DRUM-2	SAM	07/24/17 14:15		OK
16	I4378-06	DRUM-3	SAM	07/24/17 14:15		OK
17	I4380-03	B3(0-10)COMP	SAM	07/24/17 14:15		OK
18	I4391-03	BU-02-072117-A	SAM	07/24/17 14:15		OK
19	I4391-06	BU-02-072117-B	SAM	07/24/17 14:22		OK
20	I4402-06	ROLL-OFFS-COMP	SAM	07/24/17 14:22		OK
21	PB100902BL	PB100902BL	MB	07/24/17 14:22		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 : Reactive Cyanide				
LB88970						
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ICAL Standard		WP56603,WP56604,WP56605,WP56606,WP56607,WP56608,WP56609,WP56610				
ICV Standard		wp56613				
CCV Standard		WP56612				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP56611,WP55355,WP55836				
22	CCV2	CCV2	CCV	07/24/17 14:22		OK
23	CCB2	CCB2	CCB	07/24/17 14:22		OK
24	I4362-02	FRAC-TANK	SAM	07/24/17 14:22		OK
25	I4362-02DUP	FRAC-TANKDUP	DUP	07/24/17 14:22		OK
26	I4402-08	FRAC-TANK-260783	SAM	07/24/17 14:22		OK
27	CCV3	CCV3	CCV	07/24/17 14:22		OK
28	CCB3	CCB3	CCB	07/24/17 14:22		OK



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	FRAC-TANK	SDG No.:	LB88970
Lab Sample ID:	I4362-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.028		1	0.0025		0.005	mg/L	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	DRUM-1	SDG No.:	LB88970
Lab Sample ID:	I4378-02	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.011	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	DRUM-2	SDG No.:	LB88970
Lab Sample ID:	I4378-04	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.011	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/20/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/20/2017 12:00:00 AM
Client Sample ID:	DRUM-3	SDG No.:	LB88970
Lab Sample ID:	I4378-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.012	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	B3(0-10)COMP	SDG No.:	LB88970
Lab Sample ID:	I4380-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0098	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	BU-02-072117-A	SDG No.:	LB88970
Lab Sample ID:	I4391-03	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.03	J	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	BU-02-072117-B	SDG No.:	LB88970
Lab Sample ID:	I4391-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.01	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B

Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	ROLL-OFFS-COMP	SDG No.:	LB88970
Lab Sample ID:	I4402-06	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.012	U	1	0.025		0.05	mg/Kg	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	FRAC-TANK-260783	SDG No.:	LB88970
Lab Sample ID:	I4402-08	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0011	U	1	0.0025		0.005	mg/L	07/24/2017	07/24/2017	9012B



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Report of Analysis

Client:		Date Collected:	7/21/2017 12:00:00 AM
Project:	LB88970	Date Received:	7/21/2017 12:00:00 AM
Client Sample ID:	FRAC-TANK-260783	SDG No.:	LB88970
Lab Sample ID:	I4402-08	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: LB88970

SDG No.: LB88970

Contract: _____ Lab Code: CHEM

Case No.: LB88970

SAS No.: LB88970

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	Reactive Cyanide	0.25	0.25	100	0	90 - 110		07/24/2017	14:15	LB88970
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		07/24/2017	14:22	LB88970
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		07/24/2017	14:22	LB88970



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88970

SDG No.: LB88970

Contract:

Lab Code: CHEM

Case No.: LB88970

SAS No.: LB88970

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.0036	+/-0.005	J		0.005		07/24/2017	14:15	LB88970



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88970

SDG No.: LB88970

Contract:

Lab Code: CHEM

Case No.: LB88970

SAS No.: LB88970

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.0034	+/-0.005	J		0.005		07/24/2017	14:15	LB88970
CCB2	Reactive Cyanide	0.0034	+/-0.005	J		0.005		07/24/2017	14:22	LB88970
CCB3	Reactive Cyanide	0.0036	+/-0.005	J		0.005		07/24/2017	14:22	LB88970



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88970

SDG No.: LB88970

Contract: Lab Code: CHEM

Case No.: LB88970

SAS No.: LB88970

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: LB88970

SDG No.: LB88970

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
PB100901BL	Reactive Cyanide	SOLID		Batch Number:		PB100901		Prep Date:	07/24/2017	
		0.03	<0.05	J		0.05		07/24/2017	14:15	LB88970
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB100902BL	Reactive Cyanide	WATER		Batch Number:		PB100902		Prep Date:	07/24/2017	
		0.0033	<0.005	J		0.005		07/24/2017	14:22	LB88970



GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88970 Level: LOW SDG No.: LB88970
Contract: Lab Code: CHEM Case No.: LB88970 SAS No.: LB88970
Matrix: WATER Sample ID: I4362-02 Client ID: FRAC-TANKDUP
Percent Solids for Sample: 0 Duplicate ID I4362-02DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.028		0.028		0		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB88970 **Level:** LOW **SDG No.:** LB88970
Contract: **Lab Code:** CHEM **Case No.:** LB88970 **SAS No.:** LB88970
Matrix: Solid **Sample ID:** I4378-02 **Client ID:** DRUM-1DUP
Percent Solids for Sample: 100 **Duplicate ID** I4378-02DUP **Percent Solids for Spike Sample:** 100

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/Kg	20	0.025	U	0.014	U			