

Daily Analysis Runlog For Sequence/QC Batch ID # LB87373

Review By

SubDirectory

Review On

Test :

LB87373

Reactive Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP54826,WP54827,WP54828,WP54829,WP54830,WP54831,WP54832,WP54833				
ICV Standard		WP54836				
CCV Standard		WP54835				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54834,WP51626,WP51276				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/10/17 13:42		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/10/17 13:42		OK
3	10PPBCN	10PPBCN	CAL3	05/10/17 13:42		OK
4	50PPBCN	50PPBCN	CAL4	05/10/17 13:42		OK
5	100PPBCN	100PPBCN	CAL5	05/10/17 13:42		OK
6	250PPBCN	250PPBCN	CAL6	05/10/17 13:42		OK
7	500PPBCN	500PPBCN	CAL7	05/10/17 13:42		OK
8	ICV1	ICV1	ICV	05/10/17 15:37		OK
9	ICB1	ICB1	ICB	05/10/17 15:37		OK
10	CCV1	CCV1	CCV	05/10/17 15:37		OK
11	CCB1	CCB1	CCB	05/10/17 15:37		OK
12	I3040-05	TP-4-5-COMP	SAM	05/10/17 15:37		OK
13	I3040-05DUP	TP-4-5-COMPDUP	DUP	05/10/17 15:37		OK
14	I3046-09	SB-11-COMP	SAM	05/10/17 15:37		OK
15	I3046-10	SB-12-COMP	SAM	05/10/17 15:37		OK
16	I3046-11	SB-13-COMP	SAM	05/10/17 15:38		OK
17	I3048-04	RO-4923	SAM	05/10/17 15:38		OK
18	I3049-04	DRUM-M4935	SAM	05/10/17 15:38		OK
19	I3059-03	JC-SWITCH-DRUM-5	SAM	05/10/17 15:45		OK
20	I3062-16	SB-10-COMP	SAM	05/10/17 15:45		OK
21	I3062-17	SB-09-COMP	SAM	05/10/17 15:45		OK

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SubDirectory		LB87373		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP54826,WP54827,WP54828,WP54829,WP54830,WP54831,WP54832,WP54833				
ICV Standard		WP54836				
CCV Standard		WP54835				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP54834,WP51626,WP51276				

22	CCV2	CCV2	CCV	05/10/17 15:45		OK
23	CCB2	CCB2	CCB	05/10/17 15:45		OK
24	PB98843BL	PB98843BL	MB	05/10/17 15:45		OK
25	I3062-18	SB-08-COMP	SAM	05/10/17 15:45		OK
26	I3062-19	SB-14-COMP	SAM	05/10/17 15:45		OK
27	I3062-20	SB-06-COMP	SAM	05/10/17 15:45		OK
28	I3062-21	SB-02-COMP	SAM	05/10/17 15:45		OK
29	I3062-22	SB-03-COMP	SAM	05/10/17 15:45		OK
30	CCV3	CCV3	CCV	05/10/17 15:48		OK
31	CCB3	CCB3	CCB	05/10/17 15:48		OK



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	TP-4-5-COMP	SDG No.:	LB87373
Lab Sample ID:	I3040-05	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	-0.017	U	1	0.025		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	SB-11-COMP	SDG No.:	LB87373
Lab Sample ID:	I3046-09	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	-0.018	U	1	0.025		0.05	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	SB-12-COMP	SDG No.:	LB87373
Lab Sample ID:	I3046-10	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	-0.015	U	1	0.025		0.05	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	SB-13-COMP	SDG No.:	LB87373
Lab Sample ID:	I3046-11	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	-0.014	U	1	0.024		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	RO-4923	SDG No.:	LB87373
Lab Sample ID:	I3048-04	Matrix:	Solid
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.015	U	1	0.025		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/8/2017 12:00:00 AM
Client Sample ID:	DRUM-M4935	SDG No.:	LB87373
Lab Sample ID:	I3049-04	Matrix:	Solid
Level (low/med):	low	% Solid:	96

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.016	U	1	0.024		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	JC-SWITCH-DRUM-SPILL(COMP)	SDG No.:	LB87373
Lab Sample ID:	I3059-03	Matrix:	Solid
Level (low/med):	low	% Solid:	83.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.018	U	1	0.025		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-10-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-16	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	-0.015	U	1	0.025		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-09-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-17	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	-0.013	U	1	0.025		0.05	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-08-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-18	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	-0.013	U	1	0.024		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-14-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-19	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	-0.016	U	1	0.024		0.049	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/8/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-06-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-20	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	-0.015	U	1	0.025		0.05	mg/Kg	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-02-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-21	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	05/10/2017	05/10/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-03-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-22	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	-0.013	U	1	0.025		0.05	mg/Kg	05/10/2017	05/10/2017	9012B



Report of Analysis

Client:		Date Collected:	5/9/2017 12:00:00 AM
Project:	LB87373	Date Received:	5/9/2017 12:00:00 AM
Client Sample ID:	SB-03-COMP	SDG No.:	LB87373
Lab Sample ID:	I3062-22	Matrix:	Solid
Level (low/med):	low	% Solid:	100

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: LB87373

SDG No.: LB87373

Contract: _____

Lab Code: CHEM

Case No.: LB87373

SAS No.: LB87373

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	Reactive Cyanide	0.096	0.099	97	0	85 - 115		05/10/2017	15:37	LB87373



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87373

SDG No.: LB87373

Contract: _____ Lab Code: CHEM

Case No.: LB87373

SAS No.: LB87373

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		05/10/2017	15:37	LB87373
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		05/10/2017	15:45	LB87373
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		05/10/2017	15:48	LB87373



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87373

SDG No.: LB87373

Contract:

Lab Code: CHEM

Case No.: LB87373

SAS No.: LB87373

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00091	+/-0.005	U		0.005		05/10/2017	15:37	LB87373

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0011	+/-0.005	U		0.005		05/10/2017	15:37	LB87373
CCB2	Reactive Cyanide	-0.00074	+/-0.005	U		0.005		05/10/2017	15:45	LB87373
CCB3	Reactive Cyanide	-0.00064	+/-0.005	U		0.005		05/10/2017	15:48	LB87373



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87373

SDG No.: LB87373

Contract: Lab Code: CHEM

Case No.: LB87373

SAS No.: LB87373

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: LB87373

SDG No.: LB87373

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
PB98843BL	Reactive Cyanide	SOLID -0.011	<0.05	Batch Number: U		PB98843 0.05		Prep Date: 05/10/2017	05/10/2017 15:45	LB87373

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87373 **Level:** LOW **SDG No.:** LB87373
Contract: **Lab Code:** CHEM **Case No.:** LB87373 **SAS No.:** LB87373
Matrix: Solid **Sample ID:** I3040-05 **Client ID:** TP-4-5-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3040-05DUP **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	-0.015	U			