

Daily Analysis Runlog For Sequence/QC Batch ID # LB87877

Review By		Review On				
SubDirectory		LB87877		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP55371,WP55372,WP55373,WP55374,WP55375,WP55376,WP55377,WP55378				
ICV Standard		WP55381				
CCV Standard		WP55380				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55379,WP51626,WP55355				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	06/05/17 12:36		OK
2	5.0PPBCN	5.0PPBCN	CAL2	06/05/17 12:36		OK
3	10PPBCN	10PPBCN	CAL3	06/05/17 12:36		OK
4	50PPBCN	50PPBCN	CAL4	06/05/17 12:36		OK
5	100PPBCN	100PPBCN	CAL5	06/05/17 12:36		OK
6	250PPBCN	250PPBCN	CAL6	06/05/17 12:36		OK
7	500PPBCN	500PPBCN	CAL7	06/05/17 12:36		OK
8	ICV1	ICV1	ICV	06/05/17 15:41		OK
9	ICB1	ICB1	ICB	06/05/17 15:41		OK
10	CCV1	CCV1	CCV	06/05/17 15:41		OK
11	CCB1	CCB1	CCB	06/05/17 15:41		OK
12	PB99479BL	PB99479BL	MB	06/05/17 15:41		OK
13	I3436-11	SB-04-COMP	SAM	06/05/17 15:41		OK
14	I3436-11DUP	SB-04-COMPDUP	DUP	06/05/17 15:41		OK
15	I3436-12	SB-06-COMP	SAM	06/05/17 15:41		OK
16	I3436-13	SB-07-COMP	SAM	06/05/17 15:41		OK
17	I3436-14	SB-09-COMP	SAM	06/05/17 15:41		OK
18	I3436-15	SB-10-COMP	SAM	06/05/17 15:41		OK
19	I3437-06	COMP-1	SAM	06/05/17 15:49		OK
20	I3438-05	TP-5-6	SAM	06/05/17 15:49		OK
21	I3438-10	TP-7	SAM	06/05/17 15:49		OK

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ICV Standard		WP55381				
CCV Standard		WP55380				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55379,WP51626,WP55355				
22	CCV2	CCV2	CCV	06/05/17 15:49		OK
23	CCB2	CCB2	CCB	06/05/17 15:49		OK
24	I3438-15	TP-8-9	SAM	06/05/17 15:49		OK
25	I3449-05	CARSONS-STOCKP	SAM	06/05/17 15:49		OK
26	I3466-02	SU-RO-230-060217	SAM	06/05/17 15:49		OK
27	I3466-04	SU-RO-4672-060217	SAM	06/05/17 15:49		OK
28	I3466-06	SU-RO-6704-060217	SAM	06/05/17 15:49		OK
29	PB99480BL	PB99480BL	MB	06/05/17 15:49		OK
30	I3450-02	A-2186	SAM	06/05/17 15:53		OK
31	I3450-02DUP	A-2186DUP	DUP	06/05/17 15:55		OK
32	CCV3	CCV3	CCV	06/05/17 15:55		OK
33	CCB3	CCB3	CCB	06/05/17 15:56		OK



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SB-04-COMP	SDG No.:	LB87877
Lab Sample ID:	I3436-11	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	0.00022	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SB-06-COMP	SDG No.:	LB87877
Lab Sample ID:	I3436-12	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	0.00017	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SB-07-COMP	SDG No.:	LB87877
Lab Sample ID:	I3436-13	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	0.0014	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SB-09-COMP	SDG No.:	LB87877
Lab Sample ID:	I3436-14	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	-0.0012	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	5/31/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	SB-10-COMP	SDG No.:	LB87877
Lab Sample ID:	I3436-15	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	-0.0018	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	COMP-1	SDG No.:	LB87877
Lab Sample ID:	I3437-06	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	-0.0037	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	TP-5-6	SDG No.:	LB87877
Lab Sample ID:	I3438-05	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.00038	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	TP-7	SDG No.:	LB87877
Lab Sample ID:	I3438-10	Matrix:	Solid
Level (low/med):	low	% Solid:	93.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0023	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/1/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/1/2017 12:00:00 AM
Client Sample ID:	TP-8-9	SDG No.:	LB87877
Lab Sample ID:	I3438-15	Matrix:	Solid
Level (low/med):	low	% Solid:	91.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0042	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	CARSONS-STOCKPILE(COMP)	SDG No.:	LB87877
Lab Sample ID:	I3449-05	Matrix:	Solid
Level (low/med):	low	% Solid:	83.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.0033	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	A-2186	SDG No.:	LB87877
Lab Sample ID:	I3450-02	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	U	1	0.0025		0.005	mg/L	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	SU-RO-230-060217	SDG No.:	LB87877
Lab Sample ID:	I3466-02	Matrix:	Solid
Level (low/med):	low	% Solid:	89.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	-0.0026	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	SU-RO-4672-060217	SDG No.:	LB87877
Lab Sample ID:	I3466-04	Matrix:	Solid
Level (low/med):	low	% Solid:	83.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.003	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	SU-RO-6704-060217	SDG No.:	LB87877
Lab Sample ID:	I3466-06	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Reactive Cyanide	0.00083	U	1	0.025		0.05	mg/Kg	06/05/2017	06/05/2017	9012B



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Report of Analysis

Client:		Date Collected:	6/2/2017 12:00:00 AM
Project:	LB87877	Date Received:	6/2/2017 12:00:00 AM
Client Sample ID:	SU-RO-6704-060217	SDG No.:	LB87877
Lab Sample ID:	I3466-06	Matrix:	Solid
Level (low/med):	low	% Solid:	83.9

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: LB87877

SDG No.: LB87877

Contract: _____ Lab Code: CHEM

Case No.: LB87877

SAS No.: LB87877

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	0.24	0.25	96	0	90 - 110		06/05/2017	15:41	LB87877
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		06/05/2017	15:49	LB87877
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		06/05/2017	15:55	LB87877



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87877

SDG No.: LB87877

Contract:

Lab Code: CHEM

Case No.: LB87877

SAS No.: LB87877

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	0.00045	+/-0.005	U		0.005		06/05/2017	15:41	LB87877



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87877

SDG No.: LB87877

Contract:

Lab Code: CHEM

Case No.: LB87877

SAS No.: LB87877

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0	+/-0.005	U		0.005		06/05/2017	15:41	LB87877
CCB2	Reactive Cyanide	0.00035	+/-0.005	U		0.005		06/05/2017	15:49	LB87877
CCB3	Reactive Cyanide	0.00015	+/-0.005	U		0.005		06/05/2017	15:56	LB87877



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87877

SDG No.: LB87877

Contract: Lab Code: CHEM

Case No.: LB87877

SAS No.: LB87877

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

Client: LB87877

SDG No.: LB87877

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
PB99479BL	Reactive Cyanide	SOLID		Batch Number:		PB99479		Prep Date:	06/05/2017	
		-0.002	<0.05	U		0.05		06/05/2017	15:41	LB87877
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB99480BL	Reactive Cyanide	WATER		Batch Number:		PB99480		Prep Date:	06/05/2017	
		0	<0.005	U		0.005		06/05/2017	15:49	LB87877

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87877 **Level:** LOW **SDG No.:** LB87877
Contract: **Lab Code:** CHEM **Case No.:** LB87877 **SAS No.:** LB87877
Matrix: Solid **Sample ID:** I3436-11 **Client ID:** SB-04-COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I3436-11DUP **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	-0.0022	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB87877 **Level:** LOW **SDG No.:** LB87877
Contract: **Lab Code:** CHEM **Case No.:** LB87877 **SAS No.:** LB87877
Matrix: WATER **Sample ID:** I3450-02 **Client ID:** A-2186DUP
Percent Solids for Sample: 0 **Duplicate ID** I3450-02DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Reactive Cyanide	mg/L	20	0.0025	U	-0.00017	U			