

Daily Analysis Runlog For Sequence/QC Batch ID # LB89453

Review By		Review On				
SubDirectory		LB89453		Test : Reactive Cyanide		

STD. NAME	STD REF.#
ICAL Standard	WP57204,WP57205,WP57206,WP57207,WP57208,WP57209,WP57210,WP57212
ICV Standard	WP57220
CCV Standard	WP57219
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP57215,WP55355,WP55836

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/14/17 12:22		OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/14/17 12:23		OK
3	10PPBCN	10PPBCN	CAL3	08/14/17 12:23		OK
4	50PPBCN	50PPBCN	CAL4	08/14/17 12:23		OK
5	100PPBCN	100PPBCN	CAL5	08/14/17 12:23		OK
6	250PPBCN	250PPBCN	CAL6	08/14/17 12:23		OK
7	500PPBCN	500PPBCN	CAL7	08/14/17 12:23		OK
8	ICV1	ICV1	ICV	08/14/17 13:00		OK
9	ICB1	ICB1	ICB	08/14/17 13:00		OK
10	CCV1	CCV1	CCV	08/14/17 13:00		OK
11	CCB1	CCB1	CCB	08/14/17 13:00		OK
12	PB101508BL	PB101508BL	MB	08/14/17 13:00		OK
13	I4750-03	B-15(0-10)COMP	SAM	08/14/17 13:00		OK
14	I4750-03DUP	B-15(0-10)COMPDU	DUP	08/14/17 13:08		OK
15	I4751-17	SB-30-COMP	SAM	08/14/17 13:08		OK
16	I4751-18	SB-29-COMP	SAM	08/14/17 13:08		OK
17	I4751-19	SB-38-COMP	SAM	08/14/17 13:08		OK
18	I4751-20	SB-28-COMP	SAM	08/14/17 13:08		OK
19	I4751-21	SB-23-COMP	SAM	08/14/17 13:08		OK
20	I4751-22	SB-25-COMP	SAM	08/14/17 13:08		OK
21	I4751-23	SB-26-COMP	SAM	08/14/17 13:08		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB89453

Review By		Review On				
SubDirectory		LB89453		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP57204,WP57205,WP57206,WP57207,WP57208,WP57209,WP57210,WP57212				
ICV Standard		WP57220				
CCV Standard		WP57219				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP57215,WP55355,WP55836				
22	CCV2	CCV2	CCV	08/14/17 13:08		OK
23	CCB2	CCB2	CCB	08/14/17 13:08		OK
24	I4751-24	SB-24-COMP	SAM	08/14/17 13:08		OK
25	I4753-03	DRUMS-COMP	SAM	08/14/17 13:14		OK
26	I4755-03	SA-06-081117-A	SAM	08/14/17 13:14		OK
27	I4755-06	SA-06-081117-B	SAM	08/14/17 13:14		OK
28	I4758-03	SU-02-081117	SAM	08/14/17 13:14		OK
29	I4760-03	SP-1-COMP	SAM	08/14/17 13:14		OK
30	I4768-04	W-137TH-SLUDGE-5	SAM	08/14/17 13:14		OK
31	I4768-05	HAMILTON-PL-SOIL	SAM	08/14/17 13:14		OK
32	CCV3	CCV3	CCV	08/14/17 13:14		OK
33	CCB3	CCB3	CCB	08/14/17 13:14		OK



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	B-15(0-10)COMP	SDG No.:	LB89453
Lab Sample ID:	I4750-03	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	-0.0039	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-30-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-17	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	-0.0038	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-29-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-18	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	-0.0011	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-38-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-19	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	0.0027	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-28-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-20	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	-0.0026	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-23-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-21	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	-0.0046	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-25-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-22	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	-0.0039	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-26-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-23	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	-0.002	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/9/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SB-24-COMP	SDG No.:	LB89453
Lab Sample ID:	I4751-24	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	-0.0027	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	DRUMS-COMP	SDG No.:	LB89453
Lab Sample ID:	I4753-03	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	-0.0022	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SA-06-081117-A	SDG No.:	LB89453
Lab Sample ID:	I4755-03	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	-0.0029	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B

Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SA-06-081117-B	SDG No.:	LB89453
Lab Sample ID:	I4755-06	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	0.0007	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SU-02-081117	SDG No.:	LB89453
Lab Sample ID:	I4758-03	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	-0.0027	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	SP-1-COMP	SDG No.:	LB89453
Lab Sample ID:	I4760-03	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	-0.0029	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	W-137TH-SLUDGE-52	SDG No.:	LB89453
Lab Sample ID:	I4768-04	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	-0.003	U	1	0.025		0.05	mg/Kg	08/14/2017	08/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	HAMILTON-PL-SOIL-66	SDG No.:	LB89453
Lab Sample ID:	I4768-05	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	-0.0027	U	1	0.025		0.049	mg/Kg	08/14/2017	08/14/2017	9012B



Report of Analysis

Client:		Date Collected:	8/11/2017 12:00:00 AM
Project:	LB89453	Date Received:	8/11/2017 12:00:00 AM
Client Sample ID:	HAMILTON-PL-SOIL-66	SDG No.:	LB89453
Lab Sample ID:	I4768-05	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB89453

SDG No.: LB89453

Contract: _____ Lab Code: CHEM

Case No.: LB89453

SAS No.: LB89453

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		08/14/2017	13:00	LB89453
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/14/2017	13:08	LB89453
CCV3	Reactive Cyanide	0.25	0.25	100	0	90 - 110		08/14/2017	13:14	LB89453



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89453

SDG No.: LB89453

Contract:

Lab Code: CHEM

Case No.: LB89453

SAS No.: LB89453

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.00022	+/-0.005	U		0.005		08/14/2017	13:00	LB89453



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89453

SDG No.: LB89453

Contract:

Lab Code: CHEM

Case No.: LB89453

SAS No.: LB89453

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	0.00023	+/-0.005	U		0.005		08/14/2017	13:00	LB89453
CCB2	Reactive Cyanide	0.00028	+/-0.005	U		0.005		08/14/2017	13:08	LB89453
CCB3	Reactive Cyanide	0.00023	+/-0.005	U		0.005		08/14/2017	13:14	LB89453



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB89453

SDG No.: LB89453

Contract: Lab Code: CHEM

Case No.: LB89453

SAS No.: LB89453

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: LB89453

SDG No.: LB89453

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
PB101508BL	Reactive Cyanide	SOLID -0.0041	<0.05	Batch Number: U		PB101508 0.05		Prep Date: 08/14/2017	08/14/2017 13:00	LB89453

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB89453 **Level:** LOW **SDG No.:** LB89453
Contract: **Lab Code:** CHEM **Case No.:** LB89453 **SAS No.:** LB89453
Matrix: Solid **Sample ID:** I4750-03 **Client ID:** B-15(0-10)COMPDUP
Percent Solids for Sample: 100 **Duplicate ID** I4750-03DUP **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	-0.0012	U			