

Daily Analysis Runlog For Sequence/QC Batch ID # LB91546

Review By		Review On				
SubDirectory		LB91546		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59566,WP59567,WP59568,WP59569,WP59570,WP59571,WP59572				
ICV Standard		WP59575				
CCV Standard		WP59573				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59574				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/13/17 10:31		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/13/17 10:31		OK
3	10PPBCN	10PPBCN	CAL3	11/13/17 10:31		OK
4	50PPBCN	50PPBCN	CAL4	11/13/17 10:31		OK
5	100PPBCN	100PPBCN	CAL5	11/13/17 10:31		OK
6	250PPBCN	250PPBCN	CAL6	11/13/17 10:31		OK
7	500PPBCN	500PPBCN	CAL7	11/13/17 10:31		OK
8	ICV1	ICV1	ICV	11/13/17 13:27		OK
9	ICB1	ICB1	ICB	11/13/17 13:27		OK
10	CCV1	CCV1	CCV	11/13/17 13:27		OK
11	CCB1	CCB1	CCB	11/13/17 13:27		OK
12	PB104208BL	PB104208BL	MB	11/13/17 13:27		OK
13	I6441-04	TP-11A-11B	SAM	11/13/17 13:27		OK
14	I6441-04DUP	TP-11A-11BDUP	DUP	11/13/17 13:27		OK
15	I6441-08	TP-10	SAM	11/13/17 13:34		OK
16	I6441-13	TP-9A-9B	SAM	11/13/17 13:34		OK
17	I6441-19	TP-8	SAM	11/13/17 13:34		OK
18	I6441-24	TP-7A-7B	SAM	11/13/17 13:34		OK
19	I6441-30	TP-16	SAM	11/13/17 13:34		OK
20	PB104210BL	PB104210BL	MB	11/13/17 13:34		OK
21	I6300-04	OR-03-111017	SAM	11/13/17 13:34		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91546

Review By		Review On				
SubDirectory		LB91546		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59566,WP59567,WP59568,WP59569,WP59570,WP59571,WP59572				
ICV Standard		WP59575				
CCV Standard		WP59573				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59574				
22	CCV2	CCV2	CCV	11/13/17 13:34		OK
23	CCB2	CCB2	CCB	11/13/17 13:34		OK
24	I6300-04DUP	OR-03-111017DUP	DUP	11/13/17 13:34		OK
25	I6307-02	EO-02-111017-A	SAM	11/13/17 13:34		OK
26	I6307-04	EO-02-111017-B	SAM	11/13/17 13:42		OK
27	I6307-06	EO-02-111017-C	SAM	11/13/17 13:42		OK
28	I6423-03	B8(0-10)COMP	SAM	11/13/17 13:42		OK
29	I6427-03	277-216-156-343-350	SAM	11/13/17 13:42		OK
30	I6429-02	SP-1	SAM	11/13/17 13:42		OK
31	I6436-02	153RD-63RD-ST-DR	SAM	11/13/17 13:42		OK
32	PB104209BL	PB104209BL	MB	11/13/17 13:42		OK
33	I6436-04	153RD-63RD-ST-DR	SAM	11/13/17 13:42		OK
34	CCV3	CCV3	CCV	11/13/17 13:42		OK
35	CCB3	CCB3	CCB	11/13/17 13:42		OK
36	I6441-32	TP-8	SAM	11/13/17 13:42		OK
37	I6441-32DUP	TP-8DUP	DUP	11/13/17 13:46		OK
38	I6443-02	FADW4870L	SAM	11/13/17 13:46		OK
39	CCV4	CCV4	CCV	11/13/17 13:46		OK
40	CCB4	CCB4	CCB	11/13/17 13:46		OK



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	OR-03-111017	SDG No.:	LB91546
Lab Sample ID:	I6300-04	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	-0.022	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-A	SDG No.:	LB91546
Lab Sample ID:	I6307-02	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	-0.022	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-B	SDG No.:	LB91546
Lab Sample ID:	I6307-04	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	-0.023	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	EO-02-111017-C	SDG No.:	LB91546
Lab Sample ID:	I6307-06	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	-0.024	U	1	0.025		0.049	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/9/2017 12:00:00 AM
Client Sample ID:	B8(0-10)COMP	SDG No.:	LB91546
Lab Sample ID:	I6423-03	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	-0.022	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	277-216-156-343-350-342	SDG No.:	LB91546
Lab Sample ID:	I6427-03	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	-0.023	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/9/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	SP-1	SDG No.:	LB91546
Lab Sample ID:	I6429-02	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	-0.023	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	153RD-63RD-ST-DRUM	SDG No.:	LB91546
Lab Sample ID:	I6436-02	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	-0.024	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	153RD-63RD-ST-DRUM	SDG No.:	LB91546
Lab Sample ID:	I6436-04	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	-0.002	U	1	0.0025		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-11A-11B	SDG No.:	LB91546
Lab Sample ID:	I6441-04	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	-0.023	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-10	SDG No.:	LB91546
Lab Sample ID:	I6441-08	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	-0.024	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-9A-9B	SDG No.:	LB91546
Lab Sample ID:	I6441-13	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	-0.022	U	1	0.025		0.049	mg/Kg	11/13/2017	11/13/2017	9012B

Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB91546
Lab Sample ID:	I6441-19	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	-0.022	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-7A-7B	SDG No.:	LB91546
Lab Sample ID:	I6441-24	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	-0.024	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-16	SDG No.:	LB91546
Lab Sample ID:	I6441-30	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	-0.037	U	1	0.025		0.05	mg/Kg	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TP-8	SDG No.:	LB91546
Lab Sample ID:	I6441-32	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	-0.0022	U	1	0.0025		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	FADW4870L	SDG No.:	LB91546
Lab Sample ID:	I6443-02	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	-0.0024	U	1	0.0025		0.005	mg/L	11/13/2017	11/13/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91546	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	FADW4870L	SDG No.:	LB91546
Lab Sample ID:	I6443-02	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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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: LB91546

SDG No.: LB91546

Contract: _____ Lab Code: CHEM

Case No.: LB91546

SAS No.: LB91546

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		11/13/2017	13:27	LB91546



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91546

SDG No.: LB91546

Contract: _____ Lab Code: CHEM

Case No.: LB91546

SAS No.: LB91546

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		11/13/2017	13:27	LB91546
CCV2	Reactive Cyanide	0.24	0.25	96	0	90 - 110		11/13/2017	13:34	LB91546
CCV3	Reactive Cyanide	0.24	0.25	96	0	90 - 110		11/13/2017	13:42	LB91546
CCV4	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/13/2017	13:46	LB91546



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91546

SDG No.: LB91546

Contract:

Lab Code: CHEM

Case No.: LB91546

SAS No.: LB91546

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0021	+/-0.005	U		0.005		11/13/2017	13:27	LB91546



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91546

SDG No.: LB91546

Contract:

Lab Code: CHEM

Case No.: LB91546

SAS No.: LB91546

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.0019	+/-0.005	U		0.005		11/13/2017	13:27	LB91546
CCB2	Reactive Cyanide	-0.0021	+/-0.005	U		0.005		11/13/2017	13:34	LB91546
CCB3	Reactive Cyanide	-0.0019	+/-0.005	U		0.005		11/13/2017	13:42	LB91546
CCB4	Reactive Cyanide	-0.002	+/-0.005	U		0.005		11/13/2017	13:46	LB91546



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91546

SDG No.: LB91546

Contract: Lab Code: CHEM

Case No.: LB91546

SAS No.: LB91546

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: LB91546

SDG No.: LB91546

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
PB104208BL	Reactive Cyanide	SOLID		Batch Number:		PB104208		Prep Date:	11/13/2017	
		-0.023	<0.05	U		0.05		11/13/2017	13:27	LB91546
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104209BL	Reactive Cyanide	WATER		Batch Number:		PB104209		Prep Date:	11/13/2017	
		-0.0023	<0.005	U		0.005		11/13/2017	13:42	LB91546
Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB104210BL	Reactive Cyanide	SOLID		Batch Number:		PB104210		Prep Date:	11/13/2017	
		-0.023	<0.05	U		0.05		11/13/2017	13:34	LB91546

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91546 **Level:** LOW **SDG No.:** LB91546
Contract: **Lab Code:** CHEM **Case No.:** LB91546 **SAS No.:** LB91546
Matrix: Solid **Sample ID:** I6300-04 **Client ID:** OR-03-111017DUP
Percent Solids for Sample: 100 **Duplicate ID** I6300-04DUP **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	-0.023	U			

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91546 **Level:** LOW **SDG No.:** LB91546
Contract: **Lab Code:** CHEM **Case No.:** LB91546 **SAS No.:** LB91546
Matrix: Solid **Sample ID:** I6441-04 **Client ID:** TP-11A-11BDUP
Percent Solids for Sample: 100 **Duplicate ID** I6441-04DUP **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	-0.022	U			

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB91546 Level: LOW SDG No.: LB91546
Contract: _____ Lab Code: CHEM Case No.: LB91546 SAS No.: LB91546
Matrix: WATER Sample ID: I6441-32 Client ID: TP-8DUP
Percent Solids for Sample: 0 Duplicate ID I6441-32DUP 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	-0.0025	U			