

Daily Analysis Runlog For Sequence/QC Batch ID # LB91577

Review By		Review On				
SubDirectory		LB91577		Test : Reactive Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59601,WP59602,WP59603,WP59604,WP59605,WP59606,WP59607				
ICV Standard		WP59610				
CCV Standard		WP59608				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59609				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/14/17 09:06		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/14/17 09:06		OK
3	10PPBCN	10PPBCN	CAL3	11/14/17 09:06		OK
4	50PPBCN	50PPBCN	CAL4	11/14/17 09:06		OK
5	100PPBCN	100PPBCN	CAL5	11/14/17 09:06		OK
6	250PPBCN	250PPBCN	CAL6	11/14/17 09:06		OK
7	500PPBCN	500PPBCN	CAL7	11/14/17 09:06		OK
8	ICV1	ICV1	ICV	11/14/17 14:36		OK
9	ICB1	ICB1	ICB	11/14/17 14:36		OK
10	CCV1	CCV1	CCV	11/14/17 14:36		OK
11	CCB1	CCB1	CCB	11/14/17 14:36		OK
12	PB104265BL	PB104265BL	MB	11/14/17 14:36		OK
13	I6302-02	HR-04-111317-A	SAM	11/14/17 14:36		OK
14	I6302-02DUP	HR-04-111317-ADUP	DUP	11/14/17 14:36		OK
15	I6302-04	HR-04-111317-B	SAM	11/14/17 14:43		OK
16	I6302-06	HR-04-111317-C	SAM	11/14/17 14:43		OK
17	I6305-04	PL-01-111317-A	SAM	11/14/17 14:43		OK
18	I6305-06	PL-01-111317-B	SAM	11/14/17 14:43		OK
19	I6305-08	PL-01-111317-C	SAM	11/14/17 14:44		OK
20	I6305-10	PL-01-111317-D	SAM	11/14/17 14:44		OK
21	I6311-04	TR-05-111017	SAM	11/14/17 14:44		OK

Daily Analysis Runlog For Sequence/QC Batch ID # LB91577

Review By		Review On				
SubDirectory		LB91577		Test : Reactive Cyanide		
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ICAL Standard		WP59601,WP59602,WP59603,WP59604,WP59605,WP59606,WP59607				
ICV Standard		WP59610				
CCV Standard		WP59608				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		N/A				
Chk Standard		WP55836,WP55355,WP59609				
22	CCV2	CCV2	CCV	11/14/17 14:44		OK
23	CCB2	CCB2	CCB	11/14/17 14:44		OK
24	PB104266BL	PB104266BL	MB	11/14/17 14:44		OK
25	I6469-02	SV30666L	SAM	11/14/17 14:44		OK
26	I6469-02DUP	SV30666LDUP	DUP	11/14/17 14:48		OK
27	CCV3	CCV3	CCV	11/14/17 14:48		OK
28	CCB3	CCB3	CCB	11/14/17 14:48		OK



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-A	SDG No.:	LB91577
Lab Sample ID:	I6302-02	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	-0.0091	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-B	SDG No.:	LB91577
Lab Sample ID:	I6302-04	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	-0.012	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	HR-04-111317-C	SDG No.:	LB91577
Lab Sample ID:	I6302-06	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	-0.011	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-A	SDG No.:	LB91577
Lab Sample ID:	I6305-04	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	0.0014	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-B	SDG No.:	LB91577
Lab Sample ID:	I6305-06	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	-0.013	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-C	SDG No.:	LB91577
Lab Sample ID:	I6305-08	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	-0.015	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	PL-01-111317-D	SDG No.:	LB91577
Lab Sample ID:	I6305-10	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	-0.011	U	1	0.025		0.05	mg/Kg	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/10/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/10/2017 12:00:00 AM
Client Sample ID:	TR-05-111017	SDG No.:	LB91577
Lab Sample ID:	I6311-04	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	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	SV30666L	SDG No.:	LB91577
Lab Sample ID:	I6469-02	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	-0.0012	U	1	0.0025		0.005	mg/L	11/14/2017	11/14/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB91577	Date Received:	11/13/2017 12:00:00 AM
Client Sample ID:	SV30666L	SDG No.:	LB91577
Lab Sample ID:	I6469-02	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



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91577

SDG No.: LB91577

Contract: _____ Lab Code: CHEM

Case No.: LB91577

SAS No.: LB91577

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	0.098	0.099	99	0	85 - 115		11/14/2017	14:36	LB91577



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB91577

SDG No.: LB91577

Contract: _____ Lab Code: CHEM

Case No.: LB91577

SAS No.: LB91577

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		11/14/2017	14:36	LB91577
CCV2	Reactive Cyanide	0.25	0.25	100	0	90 - 110		11/14/2017	14:44	LB91577
CCV3	Reactive Cyanide	0.26	0.25	104	0	90 - 110		11/14/2017	14:48	LB91577



GENCHEM

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91577 **SDG No.:** LB91577
Contract: **Lab Code:** CHEM **Case No.:** LB91577 **SAS No.:** LB91577

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Reactive Cyanide	-0.0011	+/-0.005	U		0.005		11/14/2017	14:36	LB91577

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Reactive Cyanide	-0.00094	+/-0.005	U		0.005		11/14/2017	14:36	LB91577
CCB2	Reactive Cyanide	-0.0011	+/-0.005	U		0.005		11/14/2017	14:44	LB91577
CCB3	Reactive Cyanide	-0.001	+/-0.005	U		0.005		11/14/2017	14:48	LB91577



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91577

SDG No.: LB91577

Contract: Lab Code: CHEM

Case No.: LB91577

SAS No.: LB91577

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: LB91577

SDG No.: LB91577

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
PB104265BL	Reactive Cyanide	SOLID		Batch Number:		PB104265		Prep Date:	11/14/2017	
		-0.011	<0.05	U		0.05		11/14/2017	14:36	LB91577
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB104266BL	Reactive Cyanide	WATER		Batch Number:		PB104266		Prep Date:	11/14/2017	
		-0.0013	<0.005	U		0.005		11/14/2017	14:44	LB91577

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DUPLICATE SAMPLE SUMMARY

Client: LB91577 **Level:** LOW **SDG No.:** LB91577
Contract: **Lab Code:** CHEM **Case No.:** LB91577 **SAS No.:** LB91577
Matrix: Solid **Sample ID:** I6302-02 **Client ID:** HR-04-111317-ADUP
Percent Solids for Sample: 100 **Duplicate ID** I6302-02DUP **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	-0.012	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB91577 **Level:** LOW **SDG No.:** LB91577
Contract: **Lab Code:** CHEM **Case No.:** LB91577 **SAS No.:** LB91577
Matrix: WATER **Sample ID:** I6469-02 **Client ID:** SV30666LDUP
Percent Solids for Sample: 0 **Duplicate ID** I6469-02DUP **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	-0.00093	U			