

Daily Analysis Runlog For Sequence/QC Batch ID # LB91862

Review By		Review On				
SubDirectory		LB91862		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP59992,WP59994,WP59995,WP59996,WP59997,WP59998,WP59999				
ICV Standard		W1541				
CCV Standard		WP60000				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP60002				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	11/30/17 08:50		OK
2	5.0PPBCN	5.0PPBCN	CAL2	11/30/17 08:50		OK
3	10PPBCN	10PPBCN	CAL3	11/30/17 08:50		OK
4	50PPBCN	50PPBCN	CAL4	11/30/17 08:50		OK
5	100PPBCN	100PPBCN	CAL5	11/30/17 08:51		OK
6	250PPBCN	250PPBCN	CAL6	11/30/17 08:51		OK
7	500PPBCN	500PPBCN	CAL7	11/30/17 08:51		OK
8	ICV1	ICV1	ICV	11/30/17 13:19		OK
9	ICB1	ICB1	ICB	11/30/17 13:19		OK
10	CCV1	CCV1	CCV	11/30/17 13:19		OK
11	CCB1	CCB1	CCB	11/30/17 13:19		OK
12	PB104619BL	PB104619BL	MB	11/30/17 13:19		OK
13	PB104619BS	PB104619BS	LCS	11/30/17 13:19		OK
14	LOWPB104619	LOWPB104619	SAM	11/30/17 13:19		OK
15	HIGHPB104619	HIGHPB104619	SAM	11/30/17 13:26		OK
16	I6289-09	SU-03-112917	SAM	11/30/17 13:26		OK
17	I6289-09DUP	SU-03-112917DUP	DUP	11/30/17 13:26		OK
18	I6289-09MS	SU-03-112917MS	MS	11/30/17 13:26		OK
19	I6289-09MSD	SU-03-112917MSD	MSD	11/30/17 13:26		OK
20	I6300-07	OR-02-112917	SAM	11/30/17 13:26		OK
21	I6639-01	MH-SP	SAM	11/30/17 13:26		OK

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CCV Standard		WP60000				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP55836,WP55355,WP60002				
22	CCV2	CCV2	CCV	11/30/17 13:26		OK
23	CCB2	CCB2	CCB	11/30/17 13:26		OK
24	I6641-01	TP-1	SAM	11/30/17 13:26		OK
25	I6641-03	TP-2	SAM	11/30/17 13:26		OK
26	I6641-05	TP-3	SAM	11/30/17 13:32		OK
27	CCV3	CCV3	CCV	11/30/17 13:32		OK
28	CCB3	CCB3	CCB	11/30/17 13:32		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB91862	Date Received:	
Client Sample ID:	HIGHPB104619	SDG No.:	LB91862
Lab Sample ID:	HIGHPB104619	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.5		1	0.003		0.005	mg/L		11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	SU-03-112917	SDG No.:	LB91862
Lab Sample ID:	I6289-09	Matrix:	Solid
Level (low/med):	low	% Solid:	84.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.05	J	1	0.038		0.29	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	OR-02-112917	SDG No.:	LB91862
Lab Sample ID:	I6300-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.037		0.28	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	MH-SP	SDG No.:	LB91862
Lab Sample ID:	I6639-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.035	U	1	0.036		0.27	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	TP-1	SDG No.:	LB91862
Lab Sample ID:	I6641-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0038	U	1	0.033		0.25	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	TP-2	SDG No.:	LB91862
Lab Sample ID:	I6641-03	Matrix:	Solid
Level (low/med):	low	% Solid:	72.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.021	U	1	0.045		0.34	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	11/29/2017 12:00:00 AM
Project:	LB91862	Date Received:	11/29/2017 12:00:00 AM
Client Sample ID:	TP-3	SDG No.:	LB91862
Lab Sample ID:	I6641-05	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.
57-12-5	Cyanide	0.0095	U	1	0.034		0.26	mg/Kg	11/30/2017	11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91862	Date Received:	
Client Sample ID:	LOWPB104619	SDG No.:	LB91862
Lab Sample ID:	LOWPB104619	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0096		1	0.003		0.005	mg/L		11/30/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB91862	Date Received:	
Client Sample ID:	LOWPB104619	SDG No.:	LB91862
Lab Sample ID:	LOWPB104619	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: LB91862

SDG No.: LB91862

Contract: _____

Lab Code: CHEM

Case No.: LB91862

SAS No.: LB91862

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	Cyanide	0.1	0.099	101	0	85 - 115		11/30/2017	13:19	LB91862



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91862 **SDG No.:** LB91862
Contract: **Lab Code:** CHEM **Case No.:** LB91862 **SAS No.:** LB91862

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0	+/-0.005	U		0.005		11/30/2017	13:19	LB91862

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00034	+/-0.005	U		0.005		11/30/2017	13:19	LB91862
CCB2	Cyanide	-0.00013	+/-0.005	U		0.005		11/30/2017	13:26	LB91862
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		11/30/2017	13:32	LB91862



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB91862

SDG No.: LB91862

Contract: Lab Code: CHEM

Case No.: LB91862

SAS No.: LB91862

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: LB91862

SDG No.: LB91862

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
PB104619BL	Cyanide	SOLID -0.0025	<0.25	Batch Number: U		PB104619 0.25		Prep Date: 11/30/2017	11/30/2017 13:19	LB91862



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB91862 level: low sdg no.: LB91862
contract: lab code: CHEM case no.: LB91862 sas no.: LB91862
matrix: Solid sample id: I6289-09 client id: SU-03-112917MS
Percent Solids for Sample: 84.4 Spiked ID: I6289-09MS Percent Solids for Spike Sample: 84.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.05	J	2.2	84		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB91862 level: low sdg no.: LB91862
contract: lab code: CHEM case no.: LB91862 sas no.: LB91862
matrix: Solid sample id: I6289-09 client id: SU-03-112917MSD
Percent Solids for Sample: 84.4 Spiked ID: I6289-09MSD Percent Solids for Spike Sample: 84.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125		2	0.05	J	2.3	85		

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DUPLICATE SAMPLE SUMMARY

Client: LB91862 **Level:** LOW **SDG No.:** LB91862
Contract: **Lab Code:** CHEM **Case No.:** LB91862 **SAS No.:** LB91862
Matrix: Solid **Sample ID:** I6289-09 **Client ID:** SU-03-112917DUP
Percent Solids for Sample: 84.4 **Duplicate ID** I6289-09DUP **Percent Solids for Spike Sample:** 84.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.05	J	0.049	J	2		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB91862 **Level:** LOW **SDG No.:** LB91862
Contract: **Lab Code:** CHEM **Case No.:** LB91862 **SAS No.:** LB91862
Matrix: Solid **Sample ID:** I6289-09MS **Client ID:** SU-03-112917MSD
Percent Solids for Sample: 84.4 **Duplicate ID** I6289-09MSD **Percent Solids for Spike Sample:** 84.4

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9			2	5		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB91862

SDG No.: LB91862

Contract:

Lab Code: CHEM

Case No.: LB91862

SAS No.: LB91862

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB104619BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	