

Daily Analysis Runlog For Sequence/QC Batch ID # LB92491

Review By

SubDirectory

Review On

Test : Cyanide

LB92491

STD. NAME		STD REF.#				
ICAL Standard		WP60738,WP60739,WP60740,WP60741,WP60742,WP60743,WP60745				
ICV Standard		W1541				
CCV Standard		WP60747				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60744,WP59958,WP60150				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	01/05/18 12:03		OK
2	5.0PPBCN	5.0PPBCN	CAL2	01/05/18 12:03		OK
3	10PPBCN	10PPBCN	CAL3	01/05/18 12:03		OK
4	50PPBCN	50PPBCN	CAL4	01/05/18 12:03		OK
5	100PPBCN	100PPBCN	CAL5	01/05/18 12:03		OK
6	250PPBCN	250PPBCN	CAL6	01/05/18 12:03		OK
7	500PPBCN	500PPBCN	CAL7	01/05/18 12:03		OK
8	ICV1	ICV1	ICV	01/05/18 12:31		OK
9	ICB1	ICB1	ICB	01/05/18 12:31		OK
10	CCV1	CCV1	CCV	01/05/18 12:31		OK
11	CCB1	CCB1	CCB	01/05/18 12:31		OK
12	PB105492BL	PB105492BL	MB	01/05/18 12:31		OK
13	PB105492BS	PB105492BS	LCS	01/05/18 12:31		OK
14	LOWPB105492	LOWPB105492	SAM	01/05/18 12:32		OK
15	HIGHPB105492	HIGHPB105492	SAM	01/05/18 12:32		OK
16	J1011-01	HR-06-010318-A	SAM	01/05/18 12:32		OK
17	J1011-01DUP	HR-06-010318-ADUP	DUP	01/05/18 12:32		OK
18	J1011-01MS	HR-06-010318-AMS	MS	01/05/18 12:32		OK
19	J1011-01MSD	HR-06-010318-AMSD	MSD	01/05/18 12:39		OK
20	J1011-03	HR-06-010318-B	SAM	01/05/18 12:39		OK
21	J1011-05	HR-06-010318-C	SAM	01/05/18 12:39		OK

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Review By		Review On				
SubDirectory		LB92491		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60738,WP60739,WP60740,WP60741,WP60742,WP60743,WP60745				
ICV Standard		W1541				
CCV Standard		WP60747				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60744,WP59958,WP60150				
22	CCV2	CCV2	CCV	01/05/18 12:39		OK
23	CCB2	CCB2	CCB	01/05/18 12:39		OK
24	J1011-07	HR-05-010318	SAM	01/05/18 12:39		OK
25	J1012-01	JC-03-010318-A	SAM	01/05/18 12:39		OK
26	J1012-03	JC-03-010318-B	SAM	01/05/18 12:39		OK
27	J1012-05	JC-03-010318-C	SAM	01/05/18 12:39		OK
28	J1012-07	JC-03-010318-D	SAM	01/05/18 12:39		OK
29	J1012-09	JC-03-010318-E	SAM	01/05/18 12:39		OK
30	J1012-11	JC-03-010318-F	SAM	01/05/18 12:44		OK
31	J1012-13	JC-03-010318-G	SAM	01/05/18 12:44		OK
32	J1012-15	JC-03-010318-H	SAM	01/05/18 12:44		OK
33	CCV3	CCV3	CCV	01/05/18 12:44		OK
34	CCB3	CCB3	CCB	01/05/18 12:44		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92491	Date Received:	
Client Sample ID:	HIGHPB105492	SDG No.:	LB92491
Lab Sample ID:	HIGHPB105492	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	0.48		1	0.003		0.005	mg/L		01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	HR-06-010318-A	SDG No.:	LB92491
Lab Sample ID:	J1011-01	Matrix:	Solid
Level (low/med):	low	% Solid:	86.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.075	J	1	0.037		0.28	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	HR-06-010318-B	SDG No.:	LB92491
Lab Sample ID:	J1011-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.028	U	1	0.034		0.26	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	HR-06-010318-C	SDG No.:	LB92491
Lab Sample ID:	J1011-05	Matrix:	Solid
Level (low/med):	low	% Solid:	96.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.08	J	1	0.034		0.25	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	HR-05-010318	SDG No.:	LB92491
Lab Sample ID:	J1011-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.098	J	1	0.034		0.26	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-A	SDG No.:	LB92491
Lab Sample ID:	J1012-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.1	J	1	0.035		0.26	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-B	SDG No.:	LB92491
Lab Sample ID:	J1012-03	Matrix:	Solid
Level (low/med):	low	% Solid:	93.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.079	J	1	0.034		0.25	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-C	SDG No.:	LB92491
Lab Sample ID:	J1012-05	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.045	J	1	0.034		0.26	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-D	SDG No.:	LB92491
Lab Sample ID:	J1012-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92.3

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.047	J	1	0.036		0.27	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-E	SDG No.:	LB92491
Lab Sample ID:	J1012-09	Matrix:	Solid
Level (low/med):	low	% Solid:	90.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.035		0.26	mg/Kg	01/05/2018	01/05/2018	9012B

Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-F	SDG No.:	LB92491
Lab Sample ID:	J1012-11	Matrix:	Solid
Level (low/med):	low	% Solid:	92.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.082	J	1	0.035		0.27	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-G	SDG No.:	LB92491
Lab Sample ID:	J1012-13	Matrix:	Solid
Level (low/med):	low	% Solid:	91

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.027	U	1	0.036		0.27	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	1/3/2018 12:00:00 AM
Project:	LB92491	Date Received:	1/3/2018 12:00:00 AM
Client Sample ID:	JC-03-010318-H	SDG No.:	LB92491
Lab Sample ID:	J1012-15	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.054	J	1	0.034		0.26	mg/Kg	01/05/2018	01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92491	Date Received:	
Client Sample ID:	LOWPB105492	SDG No.:	LB92491
Lab Sample ID:	LOWPB105492	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	0.0095		1	0.003		0.005	mg/L		01/05/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92491	Date Received:	
Client Sample ID:	LOWPB105492	SDG No.:	LB92491
Lab Sample ID:	LOWPB105492	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

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
ICV1	Cyanide	0.095	0.099	96	0	85 - 115		01/05/2018	12:31	1b92491



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92491

SDG No.: LB92491

Contract: **Lab Code:** CHEM

Case No.: LB92491

SAS No.: LB92491

Initial Calibration Source:

Continuing Calibration Source: _____

Sample ID	Analyte	Result	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
		mg/L								
CCV1	Cyanide	0.24	0.25	96	0	90 - 110		01/05/2018	12:31	lb92491
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		01/05/2018	12:39	lb92491
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		01/05/2018	12:44	lb92491



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92491 **SDG No.:** LB92491
Contract: **Lab Code:** CHEM **Case No.:** LB92491 **SAS No.:** LB92491

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00016	+/-0.005	U		0.005		01/05/2018	12:31	lb92491



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92491

SDG No.: LB92491

Contract:

Lab Code: CHEM

Case No.: LB92491

SAS No.: LB92491

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0	+/-0.005	U		0.005		01/05/2018	12:31	lb92491
CCB2	Cyanide	0.00017	+/-0.005	U		0.005		01/05/2018	12:39	lb92491
CCB3	Cyanide	0.0001	+/-0.005	U		0.005		01/05/2018	12:44	lb92491



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB92491

SDG No.:

LB92491

Contract:

Lab Code:

CHEM

Case No.:

LB92491

SAS No.:

LB92491

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: LB92491

SDG No.: LB92491

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
PB105492BL		SOLID		Batch Number:		PB105492		Prep Date:	01/05/2018	
	Cyanide	0.0047	<0.24	U		0.24		01/05/2018	12:31	lb92491



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92491 level: low sdg no.: LB92491
contract: lab code: CHEM case no.: LB92491 sas no.: LB92491
matrix: Solid sample id: J1011-01 client id: HR-06-010318-AMS
Percent Solids for Sample: 86.9 Spiked ID: J1011-01MS Percent Solids for Spike Sample: 86.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.1		0.075	J	2.2	92		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92491 level: low sdg no.: LB92491
contract: lab code: CHEM case no.: LB92491 sas no.: LB92491
matrix: Solid sample id: J1011-01 client id: HR-06-010318-AMSD
Percent Solids for Sample: 86.9 Spiked ID: J1011-01MSD Percent Solids for Spike Sample: 86.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	2.2		0.075	J	2.2	97		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92491 **Level:** LOW **SDG No.:** LB92491
Contract: **Lab Code:** CHEM **Case No.:** LB92491 **SAS No.:** LB92491
Matrix: Solid **Sample ID:** J1011-01 **Client ID:** HR-06-010318-ADUP
Percent Solids for Sample: 86.9 **Duplicate ID** J1011-01DUP **Percent Solids for Spike Sample:** 86.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.075	J	0.064	J	16		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92491 **Level:** LOW **SDG No.:** LB92491
Contract: **Lab Code:** CHEM **Case No.:** LB92491 **SAS No.:** LB92491
Matrix: Solid **Sample ID:** J1011-01MS **Client ID:** HR-06-010318-AMSD
Percent Solids for Sample: 86.9 **Duplicate ID** J1011-01MSD **Percent Solids for Spike Sample:** 86.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	2.1		2.2		5		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92491

SDG No.: LB92491

Contract:

Lab Code: CHEM

Case No.: LB92491

SAS No.: LB92491

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105492BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	