

Daily Analysis Runlog For Sequence/QC Batch ID # LB92221

Review By

Review On

SubDirectory

LB92221

Test :

Cyanide

STD. NAME		STD REF.#				
ICAL Standard		WP60404,WP60405,WP60406,WP60407,WP60408,WP60409,WP60410				
ICV Standard		W1541				
CCV Standard		WP60411				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60413,WP59958,WP60150				

Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/18/17 10:41		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/18/17 10:42		OK
3	10PPBCN	10PPBCN	CAL3	12/18/17 10:42		OK
4	50PPBCN	50PPBCN	CAL4	12/18/17 10:42		OK
5	100PPBCN	100PPBCN	CAL5	12/18/17 10:42		OK
6	250PPBCN	250PPBCN	CAL6	12/18/17 10:42		OK
7	500PPBCN	500PPBCN	CAL7	12/18/17 10:42		OK
8	ICV1	ICV1	ICV	12/18/17 12:11		OK
9	ICB1	ICB1	ICB	12/18/17 12:11		OK
10	CCV1	CCV1	CCV	12/18/17 12:11		OK
11	CCB1	CCB1	CCB	12/18/17 12:11		OK
12	PB105112BL	PB105112BL	MB	12/18/17 12:11		OK
13	PB105112BS	PB105112BS	LCS	12/18/17 12:11		OK
14	LOWPB105112	LOWPB105112	SAM	12/18/17 12:11		OK
15	HIGHPB105112	HIGHPB105112	SAM	12/18/17 12:19		OK
16	I6675-07	SU-04-121517	SAM	12/18/17 12:19		OK
17	I6675-07DUP	SU-04-121517DUP	DUP	12/18/17 12:19		OK
18	I6675-07MS	SU-04-121517MS	MS	12/18/17 12:19		OK
19	I6675-07MSD	SU-04-121517MSD	MSD	12/18/17 12:19		OK
20	I6677-07	OR-01-121517-B	SAM	12/18/17 12:19		OK
21	CCV2	CCV2	CCV	12/18/17 12:19		OK

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SubDirectory		LB92221		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60404,WP60405,WP60406,WP60407,WP60408,WP60409,WP60410				
ICV Standard		W1541				
CCV Standard		WP60411				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60413,WP59958,WP60150				
22	CCB2	CCB2	CCB	12/18/17 12:19		OK
23	I6680-19	PATERSON-02-1215	SAM	12/18/17 12:19		OK
24	I6927-01	R-4297-39456	SAM	12/18/17 12:19		OK
25	I6940-01	VB16206-VB16211	SAM	12/18/17 12:24		OK
26	I6958-01	DRUM-1-4	SAM	12/18/17 12:24		OK
27	I6677-05	OR-01-121517-A	SAM	12/18/17 12:45		OK
28	CCV3	CCV3	CCV	12/18/17 12:45		OK
29	CCB3	CCB3	CCB	12/18/17 12:45		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92221	Date Received:	
Client Sample ID:	HIGHPB105112	SDG No.:	LB92221
Lab Sample ID:	HIGHPB105112	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		12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	SU-04-121517	SDG No.:	LB92221
Lab Sample ID:	I6675-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.069	J	1	0.037		0.28	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	OR-01-121517-A	SDG No.:	LB92221
Lab Sample ID:	I6677-05	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	0.11	J	1	0.035		0.27	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	OR-01-121517-B	SDG No.:	LB92221
Lab Sample ID:	I6677-07	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.17	J	1	0.036		0.27	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	PATERSON-02-121517	SDG No.:	LB92221
Lab Sample ID:	I6680-19	Matrix:	Solid
Level (low/med):	low	% Solid:	90.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.19	J	1	0.035		0.26	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	R-4297-39456	SDG No.:	LB92221
Lab Sample ID:	I6927-01	Matrix:	Solid
Level (low/med):	low	% Solid:	89.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.099	J	1	0.035		0.27	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	VB16206-VB16211	SDG No.:	LB92221
Lab Sample ID:	I6940-01	Matrix:	Solid
Level (low/med):	low	% Solid:	53.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.28	J	1	0.059		0.45	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/15/2017 12:00:00 AM
Project:	LB92221	Date Received:	12/15/2017 12:00:00 AM
Client Sample ID:	DRUM-1-4	SDG No.:	LB92221
Lab Sample ID:	I6958-01	Matrix:	Solid
Level (low/med):	low	% Solid:	100

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.062	J	1	0.032		0.25	mg/Kg	12/18/2017	12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92221	Date Received:	
Client Sample ID:	LOWPB105112	SDG No.:	LB92221
Lab Sample ID:	LOWPB105112	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	0.01		1	0.003		0.005	mg/L		12/18/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92221	Date Received:	
Client Sample ID:	LOWPB105112	SDG No.:	LB92221
Lab Sample ID:	LOWPB105112	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: LB92221

SDG No.: LB92221

Contract: _____

Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

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	0.099	0.099	100	0	85 - 115		12/18/2017	12:11	lb92221



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92221

SDG No.: LB92221

Contract: _____ Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

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	Cyanide	0.24	0.25	96	0	90 - 110		12/18/2017	12:11	lb92221
CCV2	Cyanide	0.25	0.25	100	0	90 - 110		12/18/2017	12:19	lb92221
CCV3	Cyanide	0.26	0.25	104	0	90 - 110		12/18/2017	12:45	lb92221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92221

SDG No.: LB92221

Contract: _____

Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.00073	+/-0.005	U		0.005		12/18/2017	12:11	lb92221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92221

SDG No.: LB92221

Contract:

Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00083	+/-0.005	U		0.005		12/18/2017	12:11	lb92221
CCB2	Cyanide	0.0013	+/-0.005	U		0.005		12/18/2017	12:19	lb92221
CCB3	Cyanide	0.0013	+/-0.005	U		0.005		12/18/2017	12:45	lb92221



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92221

SDG No.: LB92221

Contract: Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

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: LB92221

SDG No.: LB92221

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
PB105112BL	Cyanide	SOLID 0.026	<0.24	Batch Number: U		PB105112 0.24		Prep Date: 12/18/2017	12/18/2017 12:11	lb92221



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92221 level: low sdg no.: LB92221
contract: lab code: CHEM case no.: LB92221 sas no.: LB92221
matrix: Solid sample id: I6675-07 client id: SU-04-121517MS
Percent Solids for Sample: 87.6 Spiked ID: I6675-07MS Percent Solids for Spike Sample: 87.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.069	J	2.2	83		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92221 level: low sdg no.: LB92221
contract: lab code: CHEM case no.: LB92221 sas no.: LB92221
matrix: Solid sample id: I6675-07 client id: SU-04-121517MSD
Percent Solids for Sample: 87.6 Spiked ID: I6675-07MSD Percent Solids for Spike Sample: 87.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.9		0.069	J	2.2	83		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92221 **Level:** LOW **SDG No.:** LB92221
Contract: **Lab Code:** CHEM **Case No.:** LB92221 **SAS No.:** LB92221
Matrix: Solid **Sample ID:** I6675-07 **Client ID:** SU-04-121517DUP
Percent Solids for Sample: 87.6 **Duplicate ID** I6675-07DUP **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.069	J	0.07	J	1		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92221 **Level:** LOW **SDG No.:** LB92221
Contract: **Lab Code:** CHEM **Case No.:** LB92221 **SAS No.:** LB92221
Matrix: Solid **Sample ID:** I6675-07MS **Client ID:** SU-04-121517MSD
Percent Solids for Sample: 87.6 **Duplicate ID** I6675-07MSD **Percent Solids for Spike Sample:** 87.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.9		1.9		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92221

SDG No.: LB92221

Contract:

Lab Code: CHEM

Case No.: LB92221

SAS No.: LB92221

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105112BS Cyanide	mg/Kg	4.9	4.8		98	85 - 115	