

Daily Analysis Runlog For Sequence/QC Batch ID # LB92398

Review By		Review On				
SubDirectory		LB92398		Test : Cyanide		
STD. NAME		STD REF.#				
ICAL Standard		WP60594,WP60595,WP60596,WP60597,WP60598,WP60599,WP60600				
ICV Standard		W1541				
CCV Standard		WP60601				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60603,WP59958,WP60150				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/27/17 10:53		OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/27/17 10:53		OK
3	10PPBCN	10PPBCN	CAL3	12/27/17 10:53		OK
4	50PPBCN	50PPBCN	CAL4	12/27/17 10:53		OK
5	100PPBCN	100PPBCN	CAL5	12/27/17 10:53		OK
6	250PPBCN	250PPBCN	CAL6	12/27/17 10:53		OK
7	500PPBCN	500PPBCN	CAL7	12/27/17 10:53		OK
8	ICV1	ICV1	ICV	12/27/17 11:42		OK
9	ICB1	ICB1	ICB	12/27/17 11:42		OK
10	CCV1	CCV1	CCV	12/27/17 11:42		OK
11	CCB1	CCB1	CCB	12/27/17 11:42		OK
12	PB105356BL	PB105356BL	MB	12/27/17 11:42		OK
13	PB105356BS	PB105356BS	LCS	12/27/17 11:42		OK
14	LOWPB105356	LOWPB105356	SAM	12/27/17 11:42		OK
15	HIGHPB105356	HIGHPB105356	SAM	12/27/17 11:49		OK
16	I6685-05	AU-05-122617-A	SAM	12/27/17 11:49		OK
17	I6685-05DUP	AU-05-122617-ADUP	DUP	12/27/17 11:49		OK
18	I6685-05MS	AU-05-122617-AMS	MS	12/27/17 11:49		OK
19	I6685-05MSD	AU-05-122617-AMSD	MSD	12/27/17 11:49		OK
20	I6685-07	AU-05-122617-B	SAM	12/27/17 11:49		OK
21	I6685-09	AU-05-122617-C	SAM	12/27/17 11:49		OK



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

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SubDirectory		Test : Cyanide				
LB92398						
STD. NAME		STD REF.#				
ICAL Standard		WP60594,WP60595,WP60596,WP60597,WP60598,WP60599,WP60600				
ICV Standard		W1541				
CCV Standard		WP60601				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP58910				
Chk Standard		WP60603,WP59958,WP60150				
22	CCV2	CCV2	CCV	12/27/17 11:49		OK
23	CCB2	CCB2	CCB	12/27/17 11:49		OK
24	I6685-11	AU-05-122617-D	SAM	12/27/17 11:49		OK
25	CCV3	CCV3	CCV	12/27/17 11:49		OK
26	CCB3	CCB3	CCB	12/27/17 11:53		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB92398	Date Received:	
Client Sample ID:	HIGHPB105356	SDG No.:	LB92398
Lab Sample ID:	HIGHPB105356	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		12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/26/2017 12:00:00 AM
Project:	LB92398	Date Received:	12/26/2017 12:00:00 AM
Client Sample ID:	AU-05-122617-A	SDG No.:	LB92398
Lab Sample ID:	I6685-05	Matrix:	Solid
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.068	J	1	0.037		0.28	mg/Kg	12/27/2017	12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/26/2017 12:00:00 AM
Project:	LB92398	Date Received:	12/26/2017 12:00:00 AM
Client Sample ID:	AU-05-122617-B	SDG No.:	LB92398
Lab Sample ID:	I6685-07	Matrix:	Solid
Level (low/med):	low	% Solid:	87.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.083	J	1	0.037		0.28	mg/Kg	12/27/2017	12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/26/2017 12:00:00 AM
Project:	LB92398	Date Received:	12/26/2017 12:00:00 AM
Client Sample ID:	AU-05-122617-C	SDG No.:	LB92398
Lab Sample ID:	I6685-09	Matrix:	Solid
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.061	J	1	0.036		0.27	mg/Kg	12/27/2017	12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	12/26/2017 12:00:00 AM
Project:	LB92398	Date Received:	12/26/2017 12:00:00 AM
Client Sample ID:	AU-05-122617-D	SDG No.:	LB92398
Lab Sample ID:	I6685-11	Matrix:	Solid
Level (low/med):	low	% Solid:	88.7

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.053	J	1	0.035		0.27	mg/Kg	12/27/2017	12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92398	Date Received:	
Client Sample ID:	LOWPB105356	SDG No.:	LB92398
Lab Sample ID:	LOWPB105356	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		12/27/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB92398	Date Received:	
Client Sample ID:	LOWPB105356	SDG No.:	LB92398
Lab Sample ID:	LOWPB105356	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: LB92398

SDG No.: LB92398

Contract: _____

Lab Code: CHEM

Case No.: LB92398

SAS No.: LB92398

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		12/27/2017	11:42	lb92398



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB92398

SDG No.: LB92398

Contract: _____ Lab Code: CHEM

Case No.: LB92398

SAS No.: LB92398

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		12/27/2017	11:42	lb92398
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		12/27/2017	11:49	lb92398
CCV3	Cyanide	0.24	0.25	96	0	90 - 110		12/27/2017	11:49	lb92398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92398 **SDG No.:** LB92398
Contract: **Lab Code:** CHEM **Case No.:** LB92398 **SAS No.:** LB92398

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.0003	+/-0.005	U		0.005		12/27/2017	11:42	lb92398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92398

SDG No.: LB92398

Contract:

Lab Code: CHEM

Case No.: LB92398

SAS No.: LB92398

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00047	+/-0.005	U		0.005		12/27/2017	11:42	lb92398
CCB2	Cyanide	0.00052	+/-0.005	U		0.005		12/27/2017	11:49	lb92398
CCB3	Cyanide	0.00021	+/-0.005	U		0.005		12/27/2017	11:53	lb92398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

LB92398

SDG No.:

LB92398

Contract:

Lab Code:

CHEM

Case No.:

LB92398

SAS No.:

LB92398

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: LB92398

SDG No.: LB92398

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
PB105356BL		SOLID		Batch Number:		PB105356		Prep Date:	12/27/2017	
	Cyanide	0.014	<0.24	U		0.24		12/27/2017	11:42	lb92398



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92398 level: low sdg no.: LB92398
contract: lab code: CHEM case no.: LB92398 sas no.: LB92398
matrix: Solid sample id: I6685-05 client id: AU-05-122617-AMS
Percent Solids for Sample: 88.5 Spiked ID: I6685-05MS Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.59		0.068	J	2.1	25	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB92398 level: low sdg no.: LB92398
contract: lab code: CHEM case no.: LB92398 sas no.: LB92398
matrix: Solid sample id: I6685-05 client id: AU-05-122617-AMSD
Percent Solids for Sample: 88.5 Spiked ID: I6685-05MSD Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	0.6		0.068	J	2.2	24	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92398 **Level:** LOW **SDG No.:** LB92398
Contract: **Lab Code:** CHEM **Case No.:** LB92398 **SAS No.:** LB92398
Matrix: Solid **Sample ID:** I6685-05 **Client ID:** AU-05-122617-ADUP
Percent Solids for Sample: 88.5 **Duplicate ID** I6685-05DUP **Percent Solids for Spike Sample:** 88.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.068	J	0.047	J	37	*	

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB92398 **Level:** LOW **SDG No.:** LB92398
Contract: **Lab Code:** CHEM **Case No.:** LB92398 **SAS No.:** LB92398
Matrix: Solid **Sample ID:** I6685-05MS **Client ID:** AU-05-122617-AMSD
Percent Solids for Sample: 88.5 **Duplicate ID** I6685-05MSD **Percent Solids for Spike Sample:** 88.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.59		0.6		2		



GENCHEM

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92398

SDG No.: LB92398

Contract:

Lab Code: CHEM

Case No.: LB92398

SAS No.: LB92398

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB105356BS Cyanide	mg/Kg	4.9	4.9		100	85 - 115	