

Daily Analysis Runlog For Sequence/QC Batch ID # LB95249

Review By		AMANDEEP		Review On		5/14/2018 8:41:01 AM	
SubDirectory		LB95249		Test :		Cyanide	
STD. NAME		STD REF.#					
ICAL Standard		WP64378,WP64379,WP64380,WP64381,WP64382,WP64383,WP64384					
ICV Standard		W1542					
CCV Standard		WP64385					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP62802					
Chk Standard		WP64388,WP59958,WP60878					
Sr#	SampleID	ClientID	QcType	Date	Comment	Status	
1	0.0PPBCN	0.0PPBCN	CAL1	05/10/18 08:39		OK	
2	5.0PPBCN	5.0PPBCN	CAL2	05/10/18 08:39		OK	
3	10PPBCN	10PPBCN	CAL3	05/10/18 08:39		OK	
4	50PPBCN	50PPBCN	CAL4	05/10/18 08:39		OK	
5	100PPBCN	100PPBCN	CAL5	05/10/18 08:39		OK	
6	250PPBCN	250PPBCN	CAL6	05/10/18 08:39		OK	
7	500PPBCN	500PPBCN	CAL7	05/10/18 08:39		OK	
8	ICV1	ICV1	ICV	05/10/18 13:07		OK	
9	ICB1	ICB1	ICB	05/10/18 13:07		OK	
10	CCV1	CCV1	CCV	05/10/18 13:07		OK	
11	CCB1	CCB1	CCB	05/10/18 13:07		OK	
12	PB109125BL	PB109125BL	MB	05/10/18 13:07		OK	
13	PB109125BS	PB109125BS	LCS	05/10/18 13:07		OK	
14	HIGHPB109125	HIGHPB109125	SAM	05/10/18 13:07		OK	
15	J1427-01	S-1	SAM	05/10/18 13:07		OK	
16	J1427-01DUP	S-1DUP	DUP	05/10/18 13:07		OK	
17	J1427-01MS	S-1MS	MS	05/10/18 13:07		OK	
18	J1427-01MSD	S-1MSD	MSD	05/10/18 13:15		OK	
19	J2671-05	AU-06-050918-A	SAM	05/10/18 13:15		OK	
20	J2671-07	AU-06-050918-B	SAM	05/10/18 13:15		OK	
21	CCV2	CCV2	CCV	05/10/18 13:15		OK	

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SubDirectory		LB95249		Test : Cyanide			
STD. NAME		STD REF.#					
ICAL Standard		WP64378,WP64379,WP64380,WP64381,WP64382,WP64383,WP64384					
ICV Standard		W1542					
CCV Standard		WP64385					
ICSA Standard		N/A					
CRI Standard		N/A					
LCS Standard		WP62802					
Chk Standard		WP64388,WP59958,WP60878					
22	CCB2	CCB2	CCB	05/10/18 13:15		OK	
23	J2671-09	AU-06-050918-C	SAM	05/10/18 13:15		OK	
24	J2672-03	BU-01-050918	SAM	05/10/18 13:15		OK	
25	J2676-11	CL-02-050918-A	SAM	05/10/18 13:15		OK	
26	J2676-13	CL-02-050918-B	SAM	05/10/18 13:15		OK	
27	J2676-15	CL-02-050918-C	SAM	05/10/18 13:15		OK	
28	J2676-17	CL-02-050918-D	SAM	05/10/18 13:15		OK	
29	J2676-19	CL-02-050918-E	SAM	05/10/18 13:22		OK	
30	PB109126BL	PB109126BL	MB	05/10/18 13:22		OK	
31	PB109126BS	PB109126BS	LCS	05/10/18 13:22		OK	
32	J1427-03	W-1	SAM	05/10/18 13:22		OK	
33	CCV3	CCV3	CCV	05/10/18 13:22		OK	
34	CCB3	CCB3	CCB	05/10/18 13:22		OK	
35	J1427-03DUP	W-1DUP	DUP	05/10/18 13:22		OK	
36	J1427-03MS	W-1MS	MS	05/10/18 13:22		OK	
37	J1427-03MSD	W-1MSD	MSD	05/10/18 13:22		OK	
38	LOWPB109125	LOWPB109125	SAM	05/10/18 13:44		OK	
39	CCV4	CCV4	CCV	05/10/18 13:44		OK	
40	CCB4	CCB4	CCB	05/10/18 13:44		OK	



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Report of Analysis

Client:		Date Collected:	
Project:	LB95249	Date Received:	
Client Sample ID:	HIGHPB109125	SDG No.:	LB95249
Lab Sample ID:	HIGHPB109125	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		05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	S-1	SDG No.:	LB95249
Lab Sample ID:	J1427-01	Matrix:	Solid
Level (low/med):	low	% Solid:	46.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.39	J	1	0.068		0.52	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	W-1	SDG No.:	LB95249
Lab Sample ID:	J1427-03	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	0.0014	U	1	0.003		0.005	mg/L	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	AU-06-050918-A	SDG No.:	LB95249
Lab Sample ID:	J2671-05	Matrix:	Solid
Level (low/med):	low	% Solid:	90.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.18	J	1	0.035		0.27	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	AU-06-050918-B	SDG No.:	LB95249
Lab Sample ID:	J2671-07	Matrix:	Solid
Level (low/med):	low	% Solid:	92.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.051	J	1	0.034		0.26	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	AU-06-050918-C	SDG No.:	LB95249
Lab Sample ID:	J2671-09	Matrix:	Solid
Level (low/med):	low	% Solid:	92.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.065	J	1	0.034		0.26	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	BU-01-050918	SDG No.:	LB95249
Lab Sample ID:	J2672-03	Matrix:	Solid
Level (low/med):	low	% Solid:	96.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.074	J	1	0.033		0.25	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	CL-02-050918-A	SDG No.:	LB95249
Lab Sample ID:	J2676-11	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	0.041	J	1	0.035		0.27	mg/Kg	05/10/2018	05/10/2018	9012B

Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	CL-02-050918-B	SDG No.:	LB95249
Lab Sample ID:	J2676-13	Matrix:	Solid
Level (low/med):	low	% Solid:	91.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	2		1	0.035		0.27	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	CL-02-050918-C	SDG No.:	LB95249
Lab Sample ID:	J2676-15	Matrix:	Solid
Level (low/med):	low	% Solid:	94.7

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	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	CL-02-050918-D	SDG No.:	LB95249
Lab Sample ID:	J2676-17	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	0.084	J	1	0.033		0.25	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/9/2018 12:00:00 AM
Project:	LB95249	Date Received:	5/9/2018 12:00:00 AM
Client Sample ID:	CL-02-050918-E	SDG No.:	LB95249
Lab Sample ID:	J2676-19	Matrix:	Solid
Level (low/med):	low	% Solid:	95.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.094	J	1	0.032		0.24	mg/Kg	05/10/2018	05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95249	Date Received:	
Client Sample ID:	LOWPB109125	SDG No.:	LB95249
Lab Sample ID:	LOWPB109125	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	0.011		1	0.003		0.005	mg/L		05/10/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95249	Date Received:	
Client Sample ID:	LOWPB109125	SDG No.:	LB95249
Lab Sample ID:	LOWPB109125	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: LB95249

SDG No.: LB95249

Contract: _____

Lab Code: CHEM

Case No.: LB95249

SAS No.: LB95249

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Cyanide	0.096	0.099	97		85 - 115		05/10/2018	13:07	lb95249



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95249

SDG No.: LB95249

Contract: _____ Lab Code: CHEM

Case No.: LB95249

SAS No.: LB95249

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Cyanide	0.24	0.25	96		90 - 110		05/10/2018	13:07	lb95249
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/10/2018	13:15	lb95249
CCV3	Cyanide	0.24	0.25	96		90 - 110		05/10/2018	13:22	lb95249
CCV4	Cyanide	0.25	0.25	100		90 - 110		05/10/2018	13:44	lb95249



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95249 **SDG No.:** LB95249
Contract: **Lab Code:** CHEM **Case No.:** LB95249 **SAS No.:** LB95249

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	0.001	+/-0.005	U		0.005		05/10/2018	13:07	lb95249



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95249

SDG No.: LB95249

Contract:

Lab Code: CHEM

Case No.: LB95249

SAS No.: LB95249

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	0.00058	+/-0.005	U		0.005		05/10/2018	13:07	1b95249
CCB2	Cyanide	0.00074	+/-0.005	U		0.005		05/10/2018	13:15	1b95249
CCB3	Cyanide	0.0011	+/-0.005	U		0.005		05/10/2018	13:22	1b95249
CCB4	Cyanide	0.0012	+/-0.005	U		0.005		05/10/2018	13:44	1b95249



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95249

SDG No.: LB95249

Contract: Lab Code: CHEM

Case No.: LB95249

SAS No.: LB95249

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: LB95249

SDG No.: LB95249

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
PB109125BL	Cyanide	SOLID		Batch Number:		PB109125		Prep Date:	05/10/2018	
		0.0094	<0.25	U		0.25		05/10/2018	13:07	lb95249
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB109126BL	Cyanide	WATER		Batch Number:		PB109126		Prep Date:	05/10/2018	
		0.00054	<0.005	U		0.005		05/10/2018	13:22	lb95249



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95249 level: low sdg no.: LB95249
contract: lab code: CHEM case no.: LB95249 sas no.: LB95249
matrix: Solid sample id: J1427-01 client id: S-1MS
Percent Solids for Sample: 46.5 Spiked ID: J1427-01MS Percent Solids for Spike Sample: 46.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	4.1		0.39	J	4.2	88		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95249 level: low sdg no.: LB95249
contract: lab code: CHEM case no.: LB95249 sas no.: LB95249
matrix: Solid sample id: J1427-01 client id: S-1MSD
Percent Solids for Sample: 46.5 Spiked ID: J1427-01MSD Percent Solids for Spike Sample: 46.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	4.1		0.39	J	4.2	88		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB95249 level: low sdg no.: LB95249
contract: lab code: CHEM case no.: LB95249 sas no.: LB95249
matrix: WATER sample id: J1427-03 client id: W-1MS
Percent Solids for Sample: 0 Spiked ID: J1427-03MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.035		0.003	U	0.04	87.5		



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95249 level: low sdg no.: LB95249
contract: lab code: CHEM case no.: LB95249 sas no.: LB95249
matrix: WATER sample id: J1427-03 client id: W-1MSD
Percent Solids for Sample: 0 Spiked ID: J1427-03MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/L	75 - 125	0.036		0.003	U	0.04	90		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95249 **Level:** LOW **SDG No.:** LB95249
Contract: **Lab Code:** CHEM **Case No.:** LB95249 **SAS No.:** LB95249
Matrix: Solid **Sample ID:** J1427-01 **Client ID:** S-1DUP
Percent Solids for Sample: 46.5 **Duplicate ID** J1427-01DUP **Percent Solids for Spike Sample:** 46.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.39	J	0.36	J	8		

GENCHEM

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DUPLICATE SAMPLE SUMMARY

Client: LB95249 **Level:** LOW **SDG No.:** LB95249
Contract: **Lab Code:** CHEM **Case No.:** LB95249 **SAS No.:** LB95249
Matrix: Solid **Sample ID:** J1427-01MS **Client ID:** S-1MSD
Percent Solids for Sample: 46.5 **Duplicate ID** J1427-01MSD **Percent Solids for Spike Sample:** 46.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	4.1		4.1		0		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95249 **Level:** LOW **SDG No.:** LB95249
Contract: **Lab Code:** CHEM **Case No.:** LB95249 **SAS No.:** LB95249
Matrix: WATER **Sample ID:** J1427-03 **Client ID:** W-1DUP
Percent Solids for Sample: 0 **Duplicate ID** J1427-03DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.003	U	0.001	U			



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- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB95249 **Level:** LOW **SDG No.:** LB95249
Contract: **Lab Code:** CHEM **Case No.:** LB95249 **SAS No.:** LB95249
Matrix: WATER **Sample ID:** J1427-03MS **Client ID:** W-1MSD
Percent Solids for Sample: 0 **Duplicate ID** J1427-03MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/L	20	0.035		0.036		3		



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- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95249

SDG No.: LB95249

Contract:

Lab Code: CHEM

Case No.: LB95249

SAS No.: LB95249

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109126BS Cyanide	mg/L	0.1	0.097		97	85 - 115	