

Daily Analysis Runlog For Sequence/QC Batch ID # LB95187

Review By

SubDirectory

Review On

Test : Cyanide

LB95187

STD. NAME		STD REF.#				
ICAL Standard		WP64301,WP64302,WP64304,WP64305,WP64306,WP64307,WP64308				
ICV Standard		W1542				
CCV Standard		WP64309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64311,,WP59958,WP60878				

Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.0PPBCN	0.0PPBCN	CAL1	05/08/18 09:51		OK
2	5.0PPBCN	5.0PPBCN	CAL2	05/08/18 09:51		OK
3	10PPBCN	10PPBCN	CAL3	05/08/18 09:51		OK
4	50PPBCN	50PPBCN	CAL4	05/08/18 09:51		OK
5	100PPBCN	100PPBCN	CAL5	05/08/18 09:51		OK
6	250PPBCN	250PPBCN	CAL6	05/08/18 09:51		OK
7	500PPBCN	500PPBCN	CAL7	05/08/18 09:51		OK
8	ICV1	ICV1	ICV	05/08/18 10:20		OK
9	ICB1	ICB1	ICB	05/08/18 10:20		OK
10	CCV1	CCV1	CCV	05/08/18 10:20		OK
11	CCB1	CCB1	CCB	05/08/18 10:20		OK
12	PB109001BL	PB109001BL	MB	05/08/18 10:20		OK
13	PB109001BS	PB109001BS	LCS	05/08/18 10:20		OK
14	LOWPB109001	LOWPB109001	SAM	05/08/18 10:20		OK
15	HIGHPB109001	HIGHPB109001	SAM	05/08/18 10:20		OK
16	J2735-03	OIL-DRUM	SAM	05/08/18 10:20		OK
17	J2754-01	LS-SOIL-PILE-1A	SAM	05/08/18 10:20		OK
18	J2754-01DUP	LS-SOIL-PILE-1ADU	DUP	05/08/18 10:20		OK
19	J2754-01MS	LS-SOIL-PILE-1AMS	MS	05/08/18 10:28		OK
20	J2754-01MSD	LS-SOIL-PILE-1AMS	MSD	05/08/18 10:28		OK
21	J2754-05	LS-SOIL-PILE-1B	SAM	05/08/18 10:28		OK

Daily Analysis Runlog For Sequence/QCBatch ID # LB95187

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SubDirectory		Test : Cyanide				
LB95187						
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ICV Standard		W1542				
CCV Standard		WP64309				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP62802				
Chk Standard		WP64311,,WP59958,WP60878				
22	CCV2	CCV2	CCV	05/08/18 10:28		OK
23	CCB2	CCB2	CCB	05/08/18 10:28		OK
24	J2754-09	LS-SOIL-PILE-2A	SAM	05/08/18 10:28		OK
25	J2754-13	LS-SOIL-PILE-2B	SAM	05/08/18 10:28		OK
26	J2769-01	NORTH-AVE-TP	SAM	05/08/18 10:28		OK
27	J2775-01	RV-01	SAM	05/08/18 10:28		OK
28	J2775-02	RV-02	SAM	05/08/18 10:28		OK
29	CCV3	CCV3	CCV	05/08/18 10:28		OK
30	CCB3	CCB3	CCB	05/08/18 10:31		OK



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Report of Analysis

Client:		Date Collected:	
Project:	LB95187	Date Received:	
Client Sample ID:	HIGHPB109001	SDG No.:	LB95187
Lab Sample ID:	HIGHPB109001	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	0.49		1	0.003		0.005	mg/L		05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/3/2018 12:00:00 AM
Client Sample ID:	OIL-DRUM	SDG No.:	LB95187
Lab Sample ID:	J2735-03	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	0.046	J	1	0.032		0.24	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-PILE-1A	SDG No.:	LB95187
Lab Sample ID:	J2754-01	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	0.11	J	1	0.033		0.25	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-PILE-1B	SDG No.:	LB95187
Lab Sample ID:	J2754-05	Matrix:	Solid
Level (low/med):	low	% Solid:	96.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0092	U	1	0.032		0.25	mg/Kg	05/07/2018	05/08/2018	9012B

Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-PILE-2A	SDG No.:	LB95187
Lab Sample ID:	J2754-09	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	0.011	U	1	0.034		0.26	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	LS-SOIL-PILE-2B	SDG No.:	LB95187
Lab Sample ID:	J2754-13	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	0.0062	U	1	0.034		0.25	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/4/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	NORTH-AVE-TP	SDG No.:	LB95187
Lab Sample ID:	J2769-01	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	-0.0014	U	1	0.035		0.26	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	RV-01	SDG No.:	LB95187
Lab Sample ID:	J2775-01	Matrix:	Solid
Level (low/med):	low	% Solid:	93.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.015	U	1	0.033		0.25	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	5/3/2018 12:00:00 AM
Project:	LB95187	Date Received:	5/4/2018 12:00:00 AM
Client Sample ID:	RV-02	SDG No.:	LB95187
Lab Sample ID:	J2775-02	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	0.02	U	1	0.034		0.25	mg/Kg	05/07/2018	05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95187	Date Received:	
Client Sample ID:	LOWPB109001	SDG No.:	LB95187
Lab Sample ID:	LOWPB109001	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		05/08/2018	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB95187	Date Received:	
Client Sample ID:	LOWPB109001	SDG No.:	LB95187
Lab Sample ID:	LOWPB109001	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: LB95187

SDG No.: LB95187

Contract: _____ Lab Code: CHEM

Case No.: LB95187

SAS No.: LB95187

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	0.097	0.099	98		85 - 115		05/08/2018	10:20	lb95187



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB95187

SDG No.: LB95187

Contract: _____ Lab Code: CHEM

Case No.: LB95187

SAS No.: LB95187

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		05/08/2018	10:20	lb95187
CCV2	Cyanide	0.24	0.25	96		90 - 110		05/08/2018	10:28	lb95187
CCV3	Cyanide	0.24	0.25	96		90 - 110		05/08/2018	10:28	lb95187



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95187 **SDG No.:** LB95187
Contract: **Lab Code:** CHEM **Case No.:** LB95187 **SAS No.:** LB95187

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00058	+/-0.005	U		0.005		05/08/2018	10:20	lb95187

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Cyanide	-0.00022	+/-0.005	U		0.005		05/08/2018	10:20	1b95187
CCB2	Cyanide	-0.00002	+/-0.005	U		0.005		05/08/2018	10:28	1b95187
CCB3	Cyanide	-0.00041	+/-0.005	U		0.005		05/08/2018	10:31	1b95187



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB95187

SDG No.: LB95187

Contract: Lab Code: CHEM

Case No.: LB95187

SAS No.: LB95187

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB95187

SDG No.: LB95187

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
PB109001BL	Cyanide	SOLID -0.044	<0.25	Batch Number: U		PB109001 0.25		Prep Date: 05/08/2018	05/07/2018 10:20	lb95187



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- 5a -
MATRIX SPIKE SUMMARY

client: LB95187 level: low sdg no.: LB95187
contract: lab code: CHEM case no.: LB95187 sas no.: LB95187
matrix: Solid sample id: J2754-01 client id: LS-SOIL-PILE-1AMS
Percent Solids for Sample: 96.5 Spiked ID: J2754-01MS Percent Solids for Spike Sample: 96.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.11	J	2	80		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB95187 level: low sdg no.: LB95187
contract: lab code: CHEM case no.: LB95187 sas no.: LB95187
matrix: Solid sample id: J2754-01 client id: LS-SOIL-PILE-1AMSD
Percent Solids for Sample: 96.5 Spiked ID: J2754-01MSD Percent Solids for Spike Sample: 96.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.11	J	2	80		

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DUPLICATE SAMPLE SUMMARY

Client: LB95187 **Level:** LOW **SDG No.:** LB95187
Contract: **Lab Code:** CHEM **Case No.:** LB95187 **SAS No.:** LB95187
Matrix: Solid **Sample ID:** J2754-01 **Client ID:** LS-SOIL-PILE-1ADUP
Percent Solids for Sample: 96.5 **Duplicate ID** J2754-01DUP **Percent Solids for Spike Sample:** 96.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.11	J	0.098	J	12		

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DUPLICATE SAMPLE SUMMARY

Client: LB95187 **Level:** LOW **SDG No.:** LB95187
Contract: **Lab Code:** CHEM **Case No.:** LB95187 **SAS No.:** LB95187
Matrix: Solid **Sample ID:** J2754-01MS **Client ID:** LS-SOIL-PILE-1AMSD
Percent Solids for Sample: 96.5 **Duplicate ID** J2754-01MSD **Percent Solids for Spike Sample:** 96.5

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.7		0		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB95187

SDG No.: LB95187

Contract:

Lab Code: CHEM

Case No.: LB95187

SAS No.: LB95187

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB109001BS Cyanide	mg/Kg	4.9	4.7		95.9	85 - 115	