



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87071

SDG No.: LB87071

Contract: _____ Lab Code: CHEM

Case No.: LB87071 SAS No.: LB87071

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	0.092	0.099	92.9	0	85 - 115		04/26/2017	10:45	LB87071



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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87071

SDG No.: LB87071

Contract: _____ Lab Code: CHEM

Case No.: LB87071

SAS No.: LB87071

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		04/26/2017	10:45	LB87071
CCV2	Cyanide	0.24	0.25	96	0	90 - 110		04/26/2017	10:53	LB87071
CCV3	Cyanide	0.25	0.25	100	0	90 - 110		04/26/2017	10:53	LB87071



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87071

SDG No.: LB87071

Contract:

Lab Code: CHEM

Case No.: LB87071

SAS No.: LB87071

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Cyanide	-0.00021	+/-0.005	U		0.005		04/26/2017	10:45	LB87071



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87071

SDG No.: LB87071

Contract:

Lab Code: CHEM

Case No.: LB87071

SAS No.: LB87071

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		04/26/2017	10:45	LB87071
CCB2	Cyanide	-0.0003	+/-0.005	U		0.005		04/26/2017	10:53	LB87071
CCB3	Cyanide	0.0002	+/-0.005	U		0.005		04/26/2017	10:53	LB87071



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87071

SDG No.: LB87071

Contract: Lab Code: CHEM

Case No.: LB87071

SAS No.: LB87071

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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Report of Analysis

Client:		Date Collected:	
Project:	LB87071	Date Received:	
Client Sample ID:	HIGHPB98450	SDG No.:	LB87071
Lab Sample ID:	HIGHPB98450	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		04/26/2017	9012B

Report of Analysis

Client:		Date Collected:	4/21/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/24/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH6	SDG No.:	LB87071
Lab Sample ID:	I2824-01	Matrix:	Solid
Level (low/med):	low	% Solid:	91.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.0017	U	1	0.035		0.26	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/21/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/24/2017 12:00:00 AM
Client Sample ID:	E2-CONCRETE-BATCH7	SDG No.:	LB87071
Lab Sample ID:	I2824-02	Matrix:	Solid
Level (low/med):	low	% Solid:	93

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.022	U	1	0.034		0.26	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	EME-COMPOST-2	SDG No.:	LB87071
Lab Sample ID:	I2825-01	Matrix:	Solid
Level (low/med):	low	% Solid:	39.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.19	U	1	0.079		0.6	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/25/2017 12:00:00 AM
Client Sample ID:	EME-COMPOST-02	SDG No.:	LB87071
Lab Sample ID:	I2828-01	Matrix:	Solid
Level (low/med):	low	% Solid:	41.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	0.014	U	1	0.075		0.57	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/24/2017 12:00:00 AM
Client Sample ID:	TEST-PIT-RD-(0-3)	SDG No.:	LB87071
Lab Sample ID:	I2832-01	Matrix:	Solid
Level (low/med):	low	% Solid:	87.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.029	U	1	0.036		0.27	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	4/24/2017 12:00:00 AM
Project:	LB87071	Date Received:	4/24/2017 12:00:00 AM
Client Sample ID:	TEST-PIT-CURVE-(0-5)	SDG No.:	LB87071
Lab Sample ID:	I2832-07	Matrix:	Solid
Level (low/med):	low	% Solid:	86.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
57-12-5	Cyanide	-0.0032	U	1	0.037		0.28	mg/Kg	04/25/2017	04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87071	Date Received:	
Client Sample ID:	LOWPB98450	SDG No.:	LB87071
Lab Sample ID:	LOWPB98450	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		04/26/2017	9012B



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Report of Analysis

Client:		Date Collected:	
Project:	LB87071	Date Received:	
Client Sample ID:	LOWPB98450	SDG No.:	LB87071
Lab Sample ID:	LOWPB98450	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



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PREPARATION BLANK SUMMARY

Client: LB87071

SDG No.: LB87071

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
PB98450BL	Cyanide	SOLID -0.0033	<0.25	Batch Number: U		PB98450 0.25		Prep Date: 04/26/2017	04/25/2017 10:45	LB87071



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MATRIX SPIKE SUMMARY

client: LB87071 level: low sdg no.: LB87071
contract: lab code: CHEM case no.: LB87071 sas no.: LB87071
matrix: Solid sample id: I2824-01 client id: E2-CONCRETE-BATCH6MS
Percent Solids for Sample: 91.2 Spiked ID: I2824-01MS Percent Solids for Spike Sample: 91.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.7		0.035	U	2.1	81		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB87071 level: low sdg no.: LB87071
contract: lab code: CHEM case no.: LB87071 sas no.: LB87071
matrix: Solid sample id: I2824-01 client id: E2-CONCRETE-BATCH6MSD
Percent Solids for Sample: 91.2 Spiked ID: I2824-01MSD Percent Solids for Spike Sample: 91.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Cyanide	mg/Kg	75 - 125	1.6		0.035	U	2.1	76.2		

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DUPLICATE SAMPLE SUMMARY

Client: LB87071 **Level:** LOW **SDG No.:** LB87071
Contract: **Lab Code:** CHEM **Case No.:** LB87071 **SAS No.:** LB87071
Matrix: Solid **Sample ID:** I2824-01 **Client ID:** E2-CONCRETE-BATCH6DUP
Percent Solids for Sample: 91.2 **Duplicate ID** I2824-01DUP **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	0.035	U	-0.015	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB87071 **Level:** LOW **SDG No.:** LB87071
Contract: **Lab Code:** CHEM **Case No.:** LB87071 **SAS No.:** LB87071
Matrix: Solid **Sample ID:** I2824-01MS **Client ID:** E2-CONCRETE-BATCH6MSD
Percent Solids for Sample: 91.2 **Duplicate ID** I2824-01MSD **Percent Solids for Spike Sample:** 91.2

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Cyanide	mg/Kg	20	1.7		1.6		6		

