



Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB85948

SDG No.: LB85948

Contract: _____ **Lab Code:** CHEM

Case No.: LB85948

SAS No.: LB85948

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	Phenolics	0.93	1	93	0	90 - 110		02/21/2017	15:04	LB85948

Metals**- 2a -****INITIAL AND CONTINUING CALIBRATION VERIFICATION****Client:** LB85948**SDG No.:** LB85948**Contract:** _____ **Lab Code:** CHEM**Case No.:** LB85948**SAS No.:** LB85948**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	Phenolics	0.98	1	98	0	90 - 110		02/21/2017	15:04	LB85948
CCV2	Phenolics	0.99	1	99	0	90 - 110		02/21/2017	15:11	LB85948
CCV3	Phenolics	0.98	1	98	0	90 - 110		02/21/2017	15:11	LB85948



Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85948 **SDG No.:** LB85948
Contract: **Lab Code:** CHEM **Case No.:** LB85948 **SAS No.:** LB85948

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Phenolics	0.0025	+/-0.05	U		0.05		02/21/2017	15:04	LB85948



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85948

SDG No.: LB85948

Contract:

Lab Code: CHEM

Case No.: LB85948

SAS No.: LB85948

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Phenolics	0.004	+/-0.05	U		0.05		02/21/2017	15:04	LB85948
CCB2	Phenolics	0.0054	+/-0.05	U		0.05		02/21/2017	15:11	LB85948
CCB3	Phenolics	0.0063	+/-0.05	U		0.05		02/21/2017	15:11	LB85948



Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB85948

SDG No.: LB85948

Contract: Lab Code: CHEM

Case No.: LB85948

SAS No.: LB85948

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:	2/16/2017 12:00:00 AM
Project:	LB85948	Date Received:	2/16/2017 12:00:00 AM
Client Sample ID:	MANHOLE	SDG No.:	LB85948
Lab Sample ID:	I1880-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.068		1	0.01		0.05	mg/L	02/21/2017	02/21/2017	9065



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Report of Analysis

Client:		Date Collected:	2/17/2017 12:00:00 AM
Project:	LB85948	Date Received:	2/17/2017 12:00:00 AM
Client Sample ID:	TP22-COMP16	SDG No.:	LB85948
Lab Sample ID:	I1892-05	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.35	U	1	0.6		3	mg/Kg	02/21/2017	02/21/2017	9065



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Report of Analysis

Client:		Date Collected:	2/17/2017 12:00:00 AM
Project:	LB85948	Date Received:	2/17/2017 12:00:00 AM
Client Sample ID:	TP22-COMP16	SDG No.:	LB85948
Lab Sample ID:	I1892-05	Matrix:	Solid
Level (low/med):	low	% Solid:	82.1

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



Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: LB85948

SDG No.: LB85948

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
PB97083BL	SOLID		Batch Number:		PB97083		Prep Date:		02/21/2017	
	Phenolics	0.095	<2.5	U		2.5		02/21/2017	15:04	LB85948
Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
PB97084BL	WATER		Batch Number:		PB97084		Prep Date:		02/21/2017	
	Phenolics	0.0076	<0.05	U		0.05		02/21/2017	15:04	LB85948



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MATRIX SPIKE SUMMARY

client: LB85948 level: low sdg no.: LB85948
contract: lab code: CHEM case no.: LB85948 sas no.: LB85948
matrix: WATER sample id: I1880-01 client id: MANHOLEMS
Percent Solids for Sample: 0 Spiked ID: I1880-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/L	75 - 125	0.88		0.068		1	81		



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MATRIX SPIKE DUPLICATE SUMMARY

client: LB85948 level: low sdg no.: LB85948
contract: lab code: CHEM case no.: LB85948 sas no.: LB85948
matrix: WATER sample id: I1880-01 client id: MANHOLEMSD
Percent Solids for Sample: 0 Spiked ID: I1880-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/L	75 - 125	0.88		0.068		1	81		



metals
- 5a -
MATRIX SPIKE SUMMARY

client: LB85948 level: low sdg no.: LB85948
contract: lab code: CHEM case no.: LB85948 sas no.: LB85948
matrix: Solid sample id: I1892-05 client id: TP22-COMP16MS
Percent Solids for Sample: 82.1 Spiked ID: I1892-05MS Percent Solids for Spike Sample: 82.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	51.7		0.6	U	59.1	87.5		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB85948 level: low sdg no.: LB85948
contract: lab code: CHEM case no.: LB85948 sas no.: LB85948
matrix: Solid sample id: I1892-05 client id: TP22-COMP16MSD
Percent Solids for Sample: 82.1 Spiked ID: I1892-05MSD Percent Solids for Spike Sample: 82.1

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	52.3		0.6		59.7	87.6		

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85948 **Level:** LOW **SDG No.:** LB85948
Contract: **Lab Code:** CHEM **Case No.:** LB85948 **SAS No.:** LB85948
Matrix: WATER **Sample ID:** I1880-01 **Client ID:** MANHOLEDUP
Percent Solids for Sample: 0 **Duplicate ID** I1880-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/L	20	0.068		0.069		1		

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DUPLICATE SAMPLE SUMMARY

Client: LB85948 **Level:** LOW **SDG No.:** LB85948
Contract: **Lab Code:** CHEM **Case No.:** LB85948 **SAS No.:** LB85948
Matrix: WATER **Sample ID:** I1880-01MS **Client ID:** MANHOLEMSD
Percent Solids for Sample: 0 **Duplicate ID** I1880-01MSD **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/L	20	0.88		0.88		0		

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85948 **Level:** LOW **SDG No.:** LB85948
Contract: **Lab Code:** CHEM **Case No.:** LB85948 **SAS No.:** LB85948
Matrix: Solid **Sample ID:** I1892-05 **Client ID:** TP22-COMP16DUP
Percent Solids for Sample: 82.1 **Duplicate ID** I1892-05DUP **Percent Solids for Spike Sample:** 82.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	0.6	U	0.3	U			

Metals

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DUPLICATE SAMPLE SUMMARY

Client: LB85948 **Level:** LOW **SDG No.:** LB85948
Contract: **Lab Code:** CHEM **Case No.:** LB85948 **SAS No.:** LB85948
Matrix: Solid **Sample ID:** I1892-05MS **Client ID:** TP22-COMP16MSD
Percent Solids for Sample: 82.1 **Duplicate ID** I1892-05MSD **Percent Solids for Spike Sample:** 82.1

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	51.7	U	52.3		200.0		



Metals

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB85948

SDG No.: LB85948

Contract:

Lab Code: CHEM

Case No.: LB85948

SAS No.: LB85948

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97083BS Phenolics	mg/Kg	50	46.5		93	80 - 120	



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB85948

SDG No.: LB85948

Contract:

Lab Code: CHEM

Case No.: LB85948

SAS No.: LB85948

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97084BS Phenolics	mg/L	1	0.93		93	80 - 120	