

- 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:					

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte			Recovery	RSD	Window (%R)	М	Date	Time	Number
ICV1	Phenolics	0.93	1	93	0	90 - 110		02/21/2017	15:04	LB85948



- 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:						

		Result mg/L	True Value	%	%	Acceptance		Analysis	Analysis	Run
Sample ID	Analyte]	Recovery	RSD	Window (%R)	Μ	Date	Time	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



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>I</u> Contract:	_B85948	Lab Code	CHEM		SDG No Case No		5948 5948	SA	S No.: <u>LB</u>	85948_
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD C	RQL	М	Analysis Date	Analysis Time	Run Number
ICB1	Phenolics	0.0025	+/-0.05	U		0.05		02/21/2017	15:04	LB85948



- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: L	B85948				SD	G No.: LB	85948			
Contract:		Lab Code:	CHEM		- Cas	e No.: LB	85948	SA	S No.: <u>LB</u>	85948
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	М	Analysis Date	Analysis Time	Run Number
CCB1	Phenolics	0.004	+/-0.05	U		0.05	5	02/21/2017	15:04	LB85948
CCB2	Phenolics	0.0054	+/-0.05	U		0.05	5	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.: LI	385948
Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQI	_ M	Analysis Date	Analysis Time	Run Number



Report of Analysis

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	s Prep Date	Date Ana.	Ana Met.
Level (low/med):	low					%	Solid:		0	
Lab Sa	mple ID:	I1880-01					Ma	atrix:		WATER	
Client S	Sample ID:	MANHOLE					SE	G No.:		LB85948	
Project	:	LB85948					Da	te Rece	ived:	2/16/2017	12:00:00 AM
Client:							Da	te Colle	ected:	2/16/2017	12:00:00 AM



Report of Analysis

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

Phenolics	0.35	U	1	0.6	3	mg/Kg 02/21/2017	02/21/2017 9065	
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Report of Analysis

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

Color Before:	Clarity Before:	Texture:
Color After:	Clarity After:	Artifacts:
Comments:		
U = Not Detected		J = Estimated Value
U = Not Detected		J = Estimated value
LOQ = Limit of Quantitation		B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit		* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection		E = Indicates the reported value is estimated because of the presence
D = Dilution		of interference.

Q = indicates LCS control criteria did not meet requirements

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	М	Analysis . Date	Analysis Time	Run
PB97083BL		SOLID		Batch Nu	mber:	PB97083		Prep Date:	02/21/20	
	Phenolics	0.095	<2.5	U		2.5		02/21/2017	15:04	LB85948
		Result	Acceptance	Conc	LOD	CRQL		Analysis	Analysis	
Sample ID	Analyte	(mg/L)	Limit	Qual	mg/L	mg/L	Μ	Date	Time	Run
PB97084BL		WATER		Batch Nu	mber:	PB97084		Prep Date:	02/21/20)17
	Phenolics	0.0076	< 0.05	U		0.05		02/21/2017	15:04	LB85948



metals - 5a -MATRIX SPIKE SUMMARY

client: Ll	385948		lev	el:	low		sdg no.:	LB85948			
contract:			lab	code	: <u>CHEM</u>		case no.:	LB85948	sa	as no.:	LB85948
matrix:	WATER		sample	id:	<u>11880-01</u>		client id:	MANHOLEM	ЛS		
Percent Solid	s for Sample:	0	Spiked	ID:	I1880-01N	1S	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	Spiked		Sample		Spike	%			
Analyte	Units	Limit %R	Result	С	Result	С	Added	Recovery	Qual	Μ	
Phenolics	mg/L	75 - 125	0.88		0.068		1	81			



metals - 5a -MATRIX SPIKE DUPLICATE SUMMARY

client: LE	885948		lev	el:	low		sdg no.:	LB85948			
contract:			lab	code	: <u>CHEM</u>	[case no.:	LB85948	sa	s no.:	LB85948
matrix:	WATER		sample	id:	<u>11880-01</u>		client id:	MANHOLE	MSD		
Percent Solids	s for Sample:	0	Spiked 1	ID:	I1880-01N	/ISD	Percent Solid	ls for Spike Sa	mple:	0	
		Acceptance	MSD		Sample		Spike	%			
Analyte	Units	Limit %R	Result	С	Result	С	Added	Recovery	Qual	Μ	
Phenolics	mg/L	75 - 125	0.88		0.068		1	81			



metals - 5a -MATRIX SPIKE SUMMARY

client:	LB85948		leve	el:	low		sdg no.:	LB85948			
contract:			lab	code	: <u>CHEN</u>	1	case no.:	LB85948	sa	s no.:	LB85948
matrix:	Solid		sample i	d:	<u>11892-05</u>		client id:	TP22-COMP	P16MS		
Percent S	olids for Sample:	82.1	Spiked I	D:	I1892-05	MS	Percent Solid	ls for Spike Sa	mple:	82	2.1
		Acceptance	Spiked		Sample		Spike	%			
		T	D	C	Result	С	Added	Recovery	Qual	Μ	
Analyte	Units	Limit %R	Result	U	Result	U	Auucu	Recovery	Quai	IVI	



metals - 5a -MATRIX SPIKE DUPLICATE SUMMARY

client:	LB85948		level	l :	low		sdg no.:	LB85948		_	
contract:			lab c	ode:	CHEM		case no.:	LB85948	sa	s no.:	LB85948
matrix:	Solid		sample id	l:	11892-05		client id:	TP22-COMP	16MSD	_	
Percent So	lids for Sample:	82.1	Spiked II):	I1892-05N	ISD	Percent Solid	s for Spike Sa	mple:	82.	.1
		Acceptance	MSD		Sample		Spike	%			
		Receptance	MOD		Sample		эрис	70			
Analyte	Units	Limit %R	Result	С	Result	С	Added	Recovery	Qual	Μ	



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DUPLICATE SAMPLE SUMMARY

Client: LB	85948		Level: LC	OW	SDC	G No.:	LB85948		_	
Contract:			Lab Code:	CHEM	Cas	e No.:	LB85948	S.	AS No.:	LB85948
Matrix:	WATER		Sample ID: 118	380-01	Client l	ID:	MANHOLE	DUP		
Percent Solids	for Sample:	0	Duplicate ID 118	880-01DUP	Percent	t Solids	s for Spike Sa	mple:	0	
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	Μ	
Phenolics	mg/L	20	0.068		0.069		1			



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DUPLICATE SAMPLE SUMMARY

Client: LE	385948		Level: LC)W	SDG	No.:	LB85948		_	
Contract:			Lab Code:	CHEM	Case	No.:	LB85948	S.	AS No.:	LB85948
Matrix:	WATER		Sample ID: 118	380-01MS	Client II	D:	MANHOLEM	4SD	_	
Percent Solids	s for Sample:	0	Duplicate ID 118	380-01MSD	Percent	Solid	s for Spike Sa	mple:	0	
		Acceptance	Sample	_	Duplicate	_				
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	Μ	
Phenolics	mg/L	20	0.88		0.88		0			



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DUPLICATE SAMPLE SUMMARY

Client: LB	385948		Level: LO	W	SDC	G No.:	LB85948		_	
Contract:			Lab Code:	CHEM	Cas	e No.:	LB85948	SA	AS No.:	LB85948
Matrix:	Solid		Sample ID: 118	92-05	Client]	ID:	TP22-COMP	16DUP		
Percent Solids	s for Sample:	82.1	Duplicate ID 118	92-05DUP	Percent	t Solids	s for Spike Sa	mple:	82.	1
Analyte	Units	Acceptance Limit	Sample Result	С	Duplicate Result	С	RPD	Qual	М	
Phenolics	mg/Kg	20	0.6	U	0.3	U				



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DUPLICATE SAMPLE SUMMARY

Client: LB	85948		Level: LO	W	SDG	No.:	LB85948		_	
Contract:			Lab Code:	CHEM	Case	e No.:	LB85948	SA	AS No.:	LB85948
Matrix:	Solid		Sample ID: 118	92-05MS	Client I	D:	T <u>P22-COM</u> F	16MSD	_	
Percent Solids	for Sample:	82.1	Duplicate ID 118	92-05MSD	Percent	Solids	for Spike Sa	mple:	82.	1
		Acceptance	Sample		Duplicate					
Analyte	Units	Limit	Result	С	Result	С	RPD	Qual	Μ	
Phenolics	mg/Kg	20	51.7	U	52.3		200.0			



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LABORATORY CONTROL SAMPLE SUMMARY

Client:	LB85948				SDG No.:	LB85948		
Contract:			Lab Code:	CHEM	Case No.:	LB85948	SAS No.:	LB85948
					%	Accept	ance	
Analyte	Units	True Value	Result	С	% Recovery	Accept Limi		M
Analyte PB97083BS		True Value	Result	С		-		М



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB85	948				SDG No.:	LB85948		
Contract:			Lab Code:	CHEM	Case No.:	LB85948	SAS No.:	LB85948
					%	Accepta	ince	
Analyte	Units	True Value	Result	С	% Recovery	Accepta Limit		M
Analyte PB97084BS Phenolics	Units	True Value	Result	С		-		М