

**ADDENDUM NO. 1
SEPTEMBER 12, 2023**

**PROJECT: CITY OF CHILLICOTHE
TDA ELEVATED TANK REHABILITATION**

BID DATE: SEPTEMBER 21, 2023

The following changes and/or additions shall be made to the Plans, Specifications, and Contract Documents for the above referenced project. The bidder shall acknowledge receipt of this Addendum by signing below and returning this Addendum with the Bid.

1) GENERAL

- a) Clarification - Fencing line item in the Bid Schedule will encompass 135 linear feet.
- b) A lead sample analysis of the tank paint is attached to this Addendum for informational purposes.

Bidder's Acknowledgment

Date

Prepared by:

JACOB | MARTIN
TBPE Firm No. 2448

ANALYTICAL REPORT

PREPARED FOR

Attn: Allen Phillips

Jacob & Martin LCC

1014 Broadway

Lubbock, Texas 79401

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JOB DESCRIPTION

Chillicothe Tank Recoat

SDG NUMBER Chillicothe, TX

JOB NUMBER

820-8180-1

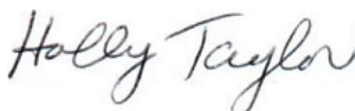
Eurofins Lubbock

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296



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Definitions/Glossary

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Job ID: 820-8180-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-8180-1

Receipt

The sample was received on 4/20/2023 8:27 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 22.5°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Client Sample ID: Tank Paint

Lab Sample ID: 820-8180-1

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 08:27

Method: SW846 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9290		47.2	mg/Kg		04/23/23 11:15	04/24/23 14:22	50

QC Sample Results

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 860-99970/1-A
Matrix: Solid
Analysis Batch: 100125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 99970

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<1.00	U	1.00	mg/Kg		04/23/23 11:14	04/24/23 12:09	1

Lab Sample ID: LCS 860-99970/2-A
Matrix: Solid
Analysis Batch: 100125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 99970

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	100	111.0		mg/Kg		111	80 - 120

Lab Sample ID: LCSD 860-99970/3-A
Matrix: Solid
Analysis Batch: 100125

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 99970

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	100	112.0		mg/Kg		112	80 - 120	1	20

Lab Sample ID: 880-27488-D-1-B MS
Matrix: Solid
Analysis Batch: 100125

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 99970

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	5.32		96.2	89.71		mg/Kg		88	75 - 125

Lab Sample ID: 880-27488-D-1-C MSD
Matrix: Solid
Analysis Batch: 100125

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 99970

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	5.32		96.2	90.58		mg/Kg		89	75 - 125	1	20

QC Association Summary

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Metals

Prep Batch: 99970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8180-1	Tank Paint	Total/NA	Solid	3051A	
MB 860-99970/1-A	Method Blank	Total/NA	Solid	3051A	
LCS 860-99970/2-A	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 860-99970/3-A	Lab Control Sample Dup	Total/NA	Solid	3051A	
880-27488-D-1-B MS	Matrix Spike	Total/NA	Solid	3051A	
880-27488-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3051A	

Analysis Batch: 100125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-8180-1	Tank Paint	Total/NA	Solid	6010B	99970
MB 860-99970/1-A	Method Blank	Total/NA	Solid	6010B	99970
LCS 860-99970/2-A	Lab Control Sample	Total/NA	Solid	6010B	99970
LCSD 860-99970/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	99970
880-27488-D-1-B MS	Matrix Spike	Total/NA	Solid	6010B	99970
880-27488-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	99970

Lab Chronicle

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Client Sample ID: Tank Paint

Lab Sample ID: 820-8180-1

Date Collected: 04/19/23 13:00

Matrix: Solid

Date Received: 04/20/23 08:27

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3051A			.53 g	50 mL	99970	04/23/23 11:15	AGR	EET HOU
Total/NA	Analysis	6010B		50			100125	04/24/23 14:22	JDM	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

- 1
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Method Summary

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	EET HOU
3051A	Preparation, Metals, Microwave Assisted	SW846	EET HOU

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Jacob & Martin LCC
Project/Site: Chillicothe Tank Recoat

Job ID: 820-8180-1
SDG: Chillicothe, TX

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-8180-1	Tank Paint	Solid	04/19/23 13:00	04/20/23 08:27

1

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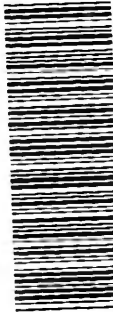
9

10

11

12

13



820-8180 Chain of Custody

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Work Order Comments

Program: ☐ US/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐



Reporting: ☐ EDD ☐ ADaPT ☐ Other: ☐

Project Manager:	Allen Phillips		Bill to: (if different)	Jacob Martin
Company Name:	Jacob Martin		Company Name:	Jacob Martin
Address:	4470 S Loop 289 STE104		Address:	
City, State ZIP:	Lubbock, TX, 79414		City, State ZIP:	
Phone:	806-369-6375		Email:	aphillips@jacobmartin.com

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471																										

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xenco.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			4/20/23 08:37			
3						
4						
5						
6						

Login Sample Receipt Checklist

Client: Jacob & Martin LCC

Job Number: 820-8180-1

SDG Number: Chillicothe, TX

Login Number: 8180

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Jacob & Martin LCC

Job Number: 820-8180-1

SDG Number: Chillicothe, TX

Login Number: 8180

List Number: 2

Creator: Canadilla, Surelis

List Source: Eurofins Houston

List Creation: 04/21/23 02:56 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	