

College Station,TX McAllen, TX Oklahoma City, OK Phone: 979-690-6555 Fax: 979-690-7034 TX Registration #: F-22537 www.DunhamEngineering.com

August 25, 2021 City of Coppell 265 E Parkway Boulevard Coppell, TX 75019 Via email to: gdavis@coppelltx.gov

Attn: Jerry Davis

Re: Pre-rehabilitation inspection and evaluation for the 2-million-gallon Wagon Wheel elevated storage tank located in Coppell, TX.

Enclosed please find the report for the above referenced water tank inspection performed on August 13, 2021. The report was prepared in accordance with appropriate 30TAC290 of the TCEQ Rules and Regulations. An Engineer's Opinion of Probable Construction Cost (EOPCC) and Dunham Engineering Inspection Form is included with the report. A summary of the inspection results follows:

• 2-Million-Gallon Steel Water Storage Tank

- O The tank is in fair to poor overall condition.
- O Site fencing is secure with gate lock.
- O Settling around site has caused cracking in pavement and brick fence.
- O Foundation is level. Concrete pedestal is plumb. Some minor cracking and spalling is present.
- Man door has general corrosion over majority of the door. Overhead doors are in good condition, functional and can be secured and locked.
- O Roof plate thickness is acceptable. UT reading=0.244"
- Exterior coating of reverse cone of tank is in poor condition due to coating failure. Sidewall and roof exterior coating exhibits localized corrosion. DFT average reading of 10.246 mils was measured. Chalking is present on exterior coating. Mold is present on exterior coating.
- O Interior dry coating in dry riser appears to be in overall good condition.
- O Flap valve is present on overflow pipe discharge. No screen is present on overflow pipe discharge. Washout under foundation of the overflow pipe discharge is present.
- O Inlet/outlet piping is in good condition. Sample port and pressure gauge are present and appear functional.
- O Dry access ladders are in good condition and equipped with safety climb devices. Wet access ladder is in poor condition with localized corrosion present. Several rungs are unsafe.
- O Cathodic control box is present, and it is unknown if it is operational.
- Roof vent is in poor condition with screen in place. Screen exhibits tears. Localized corrosion present at fasteners.
- O Roof access hatches for dry riser and tank are in good condition and can be secured by lock.
- Obstruction light appears functional.
- O Water is clear. Some sediment is present at floor of tank.
- O Interior coating has localized corrosion present. DFT average reading of 12.304.
- Overall rating of the tank is fair to poor condition. Rating is result of conditions noted in report.
- Lead content of interior and exterior coatings is below TCEQ threshold of 1000 ppm. Lab results follow in report.
- O Suggest full rehabilitation of tank within 1-year.
- Engineer's opinion of probable construction cost (EOPCC) is \$1.129 Million. Engineering and inspection fees are not included in the estimated construction cost.

We appreciate the opportunity to serve you. Dunham Engineering would welcome the opportunity to provide engineering and inspection services for the recommended rehabilitation project and will forward our proposal at your request. If you should have any questions or if we can provide additional assistance, please call anytime.

JOSEPH A. SEITER

8/25/2021

Thanks for your business!

Joe Seiter, P.E.,

Engineering Manager

Page 2 of 2

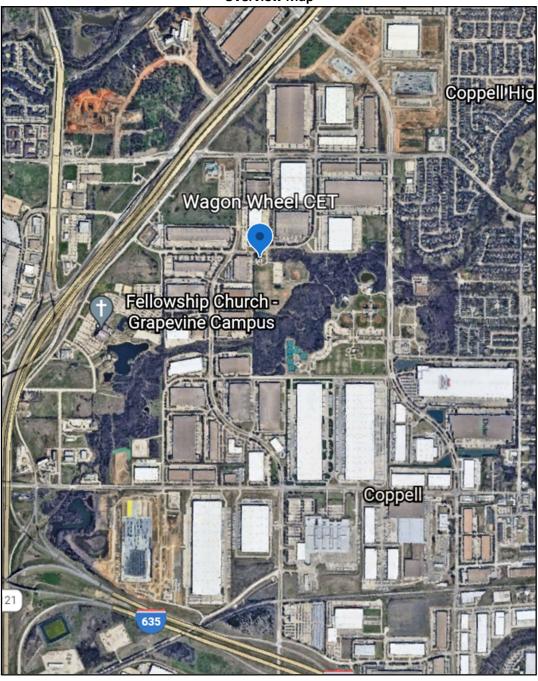


Field Inspection Report

Dunham Engineering, Inc. TX F-22537 (979) 690-6555

Tank ID: Wagon Wheel CET
Owner: City of Coppell
Inspector: Joe Seiter, Trey Biddy
and Peyton Gorman
Date of Inspection: (08/13/2021)
Tank Description: 2 Million Gallon CET

Overview Map





Attri	butes
Title	Wagon Wheel CET
Inspection Item	Overview
Condition	Overall fair to poor condition.
Notes/Dimensions	Wagon Wheel 2-million-gallon CET Data plate is present. Built in 1999 by Landmark Structures, Inc. Site fencing is secure with gate lock.
	Site fencing is secure with gate lock. Foundation is level. Some minor cracking is present. Building and cable tray to CET are in good condition. Man door has general corrosion over majority of the door. Overhead doors are in good condition, functional and can be secured and locked. Exterior coating of reverse cone of tank is in poor condition due to coating failures. Sidewall and roof exterior coating is in fair condition. Some chalking is present on roof. Localized corrosion is present on the roof. DFT average reading of 10.246 mils was measured. Flap valve is present on overflow pipe discharge. No screen is present on flap valve. Washout under foundation of the overflow pipe discharge is present. Inlet/outlet piping is in good condition. Sample port and pressure gauge are present and appear functional. General corrosion present on bolt heads on flanged connections of inlet/outlet piping. Dry access ladders are in good condition and equipped with safety climb devices. Wet access ladder is in poor condition with localized
	corrosion present. Several rungs are unsafe. Cathodic control box is present, and it is unknown if it is operational. Roof vent is in poor condition with screen in place.
	Localized corrosion present at fasteners. Vent screen exhibits tears.

	Attributes
	Roof access hatches for dry riser and tank are in fair condition and can be secured by lock. Localized corrosion present where galvanized coating has failed and at fasteners. Obstruction light is in good condition and appears functional. Water is clear. Some sediment at floor of tank. Interior coating is providing adequate protection to the substrate. There is localized corrosion in isolated locations. Overall rating of the tank is fair to poor condition. Rating is result of conditions noted in report. Suggest tank be fully rehabilitated within 1 year.
Inspector	JAS, TWB, PJG







Attributes	
Title	Wagon Wheel CET
Inspection Item	Ambient Conditions
Condition	Good-Element performs intended function with high degree of reliability
Notes/Dimensions	ST= 80.7°F, AT=90.1°F, H=59.8%, DP=74.2°F, WB= 78.6°F
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Concrete
Condition	Fair-Element performs intended function with small reduction of reliability
Notes/Dimensions	Concrete pedestal exhibits localized corrosion at exposed rebar extruding from the concrete
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Data Plate
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Built-1999
	Contractor- Landmark Structures, Inc.
	Nominal Capacity- 2 million gallons
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Site and Fencing
Condition	Fair-Element performs intended function with small reduction of reliability
Notes/Dimensions	Settling has occurred near site fencing, resulting in cracking in both pavement and fencing. Previous repairs are evident.
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Foundation
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Foundation is level and concrete pedestal is plumb.
	Some minor cracking is present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	On Site Equipment
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Acceptable
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	On Site Equipment
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Acceptable
Inspector	JAS, TWB, PJG

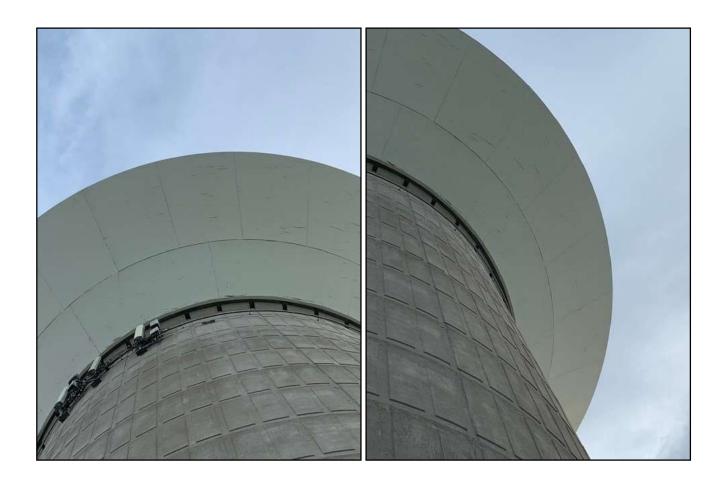


Attributes	
Title	Wagon Wheel CET
Inspection Item	Man Door
Condition	Poor-Element performs intended function with a significant reduction of reliability
Notes/Dimensions	Door functions and can be secured and locked. General corrosion is present over majority of the door.
Inspector	JAS, TWB, PJG



SOUTH NORTH

Attributes	
Title	Wagon Wheel CET
Inspection Item	Overhead Door
Condition	Fair-Element performs intended function with small
	reduction of reliability
Notes/Dimensions	Door functions and can be secured and locked. Dents
	in door are present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Exterior Coating-Bottom Side of Bowl
Condition	Poor-Element performs intended function with a significant reduction of reliability
Notes/Dimensions	Coating failures are present. Chalking of exterior coating is present. Areas of mold are present.
Inspector	JAS, TWB, PJG









Attributes	
Title	Wagon Wheel CET
Inspection Item	Exterior Coating- Top of Tank
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Localized corrosion is present. Roof exhibits no low
	spots. Chalking of exterior coating is present. Areas of
	mold are present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Exterior Coating-Top Rail
Condition	Poor-Element performs intended function with a significant reduction of reliability
Notes/Dimensions	Localized corrosion is present. Coating failures are present.
Inspector	JAS, TWB, PJG





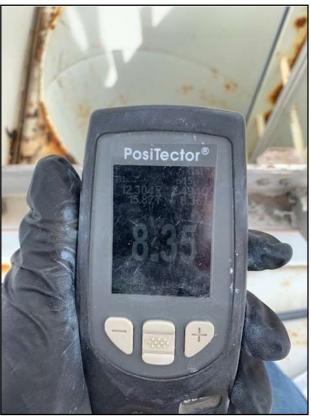
Attributes	
Title	Wagon Wheel CET
Inspection Item	Interior Coating-Dry Riser
Condition	Good-Element performs intended function with high degree of reliability
Notes/Dimensions	Acceptable
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Exterior Coating DFT
Condition	Fair-Element performs intended function with small
	reduction of reliability
Notes/Dimensions	DFT average = 10.246.
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Roof Hatch and Entry Coating
Condition	Poor-Element performs intended function with a significant reduction of reliability
Notes/Dimensions	DFT average = 12.304. Severe localized corrosion present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	UT Reading Roof Shell Thickness
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	UT meter calibration test performed. Roof shell
	thickness= 0.244"
Inspector	JAS, TWB, PJG







Attributes	
Title	Wagon Wheel CET
Inspection Item	Overflow Pipe and Flap Valve
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Flap valve present. Internal portion of overflow pipe
	exhibits general corrosion. No screen is present.
	Washout under foundation of the overflow pipe
	discharge is present.
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Inlet Outlet Piping
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Acceptable
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Sample Port
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Sample port is present and appears functional.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Inlet Outlet Piping
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Acceptable
Inspector	JAS, TWB, PJG



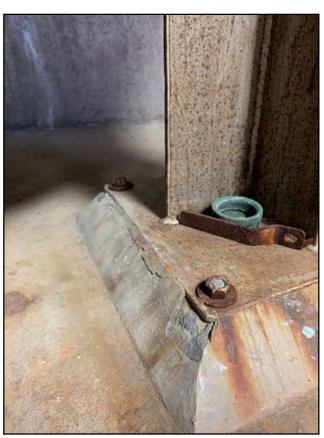
Attributes	
Title	Wagon Wheel CET
Inspection Item	Pressure Tank Gauge
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Pressure gauge appears to be functional. Gauge reads
	in FT of Water and PSI.
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Inlet Outlet Piping
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Corrosion is present on bolt heads.
Inspector	JAS, TWB, PJG

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Attributes	
Title	Wagon Wheel CET
Inspection Item	Inlet/Outlet Piping Foundation
Condition	Fair-Element performs intended function with small reduction of reliability
Notes/Dimensions	Cracking and spalling is present.
Inspector	JAS, TWB, PJG





Attributes	
Title	Wagon Wheel CET
Inspection Item	Access Ladder
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Ladder and safety climb are present. Ladder has
	intermittent rest points.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Exterior Coating Roof of Tank
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Localized corrosion is present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Roof Hatch Manway
Condition	Fair-Element performs intended function with small reduction of reliability
Notes/Dimensions	Localized corrosion present where galvanized coating has failed.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Roof Communication Equipment
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Site equipment in need of repair.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Obstruction Light
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Obstruction light appears to be functional.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Air Vent
Condition	Poor-Element performs intended function with a significant reduction of reliability
Notes/Dimensions	Screen exhibits tears. Localized corrosion present at fasteners.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Dry Riser Roof Hatch
Condition	Fair-Element performs intended function with small reduction of reliability
Notes/Dimensions	Hatch has localized corrosion at fasters. Hatch can be secured with lock.
Inspector	JAS, TWB, PJG

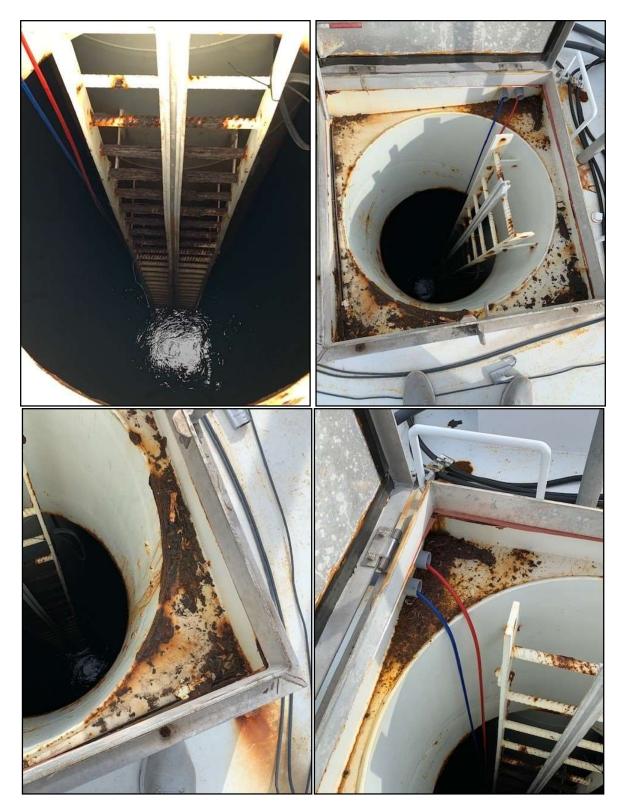




Attributes	
Title	Wagon Wheel CET
Inspection Item	Water Quality & Disinfection
Condition	Good-Element performs intended function with high
	degree of reliability
Notes/Dimensions	Water is clear. Some sediment at bottom of the tank.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Interior Coating
Condition	Fair-Element performs intended function with small
	reduction of reliability
Notes/Dimensions	Corrosion is present. Sediment is present.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Interior Coating- Ladder
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Localized corrosion on interior ladder. Ladder is
	equipped with safety climb device.
Inspector	JAS, TWB, PJG



Attributes	
Title	Wagon Wheel CET
Inspection Item	Wet Riser Pipe
Condition	Poor-Element performs intended function with a
	significant reduction of reliability
Notes/Dimensions	Localized corrosion is present.
Inspector	JAS, TWB, PJG



Attributes					
Title	Wagon Wheel CET				
Inspection Item	Roof Hatch				
Condition	Fair-Element performs intended function with small				
	reduction of reliability				
Notes/Dimensions	Dimensions of roof hatch are acceptable. 36"X36"				
Inspector	JAS, TWB, PJG				





Attributes					
Title	Wagon Wheel CET				
Inspection Item	Roof Hatch				
Condition	Poor-Element performs intended function with a				
	significant reduction of reliability				
Notes/Dimensions	Dimensions of tank access 36" OD.				
Inspector	JAS, TWB, PJG				

POTABLE WATER STORAGE TANK

Inspection Form

30 TAC 290.46(m)(1) of the Texas Commission on Environmental Quality's Rules and Regulations for Public Water Systems requires documentation of annual ground, elevated, and pressure storage tank maintenance inspections.

Location: Wagon Wheel CET				
Description: 2 Million Gallon Composite Elevated Water Storage Tank				
Date: TBD	Material of Exterior Coating System: TBD			
Date: TBD	Material of Interior Coating System: TBD			

Exterior of Tank

O.K.	Problem	N/A	Description
X			Foundation: settling, cracks, deterioration
	X		Protective Coating: rust, pitting, corrosion, leaks
X			Liquid Level Indicator: operable, cable access opening protected
	X		Overflow Pipe: flap valve cover accessible, operable, sealed
X			Access Ladder: loose bolts or rungs
	X		Roof: low spots for ponding water, holes along seams, rust
	X		Air Vents: proper design, screened, sealed edges and seams
X			Cathodic Protection Anode Plates: secured and sealed
X			Roof Hatch: proper design, locked, hinged bolts secured, gasket
			Pressure Tank Operational Status: pressure release device, pressure gauge, air
		N/A	water volume device

Interior of Tank

O.K.	Problem	N/A	Description
X			Water Quality: insects, floating debris, sediment on the bottom
	X		Protective Coating: rust, corrosion, scaling

Last inspection of tank interior Date: TBD
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Comments

Manufacturer: Landmark Structures, INC.

Year Built: 1999

2 Million Gallon Capacity

Tank is in overall fair to poor condition.

Interior coating has presence of localized corrosion. Interior ladder exhibits localized corrosion.

Exterior coating is chalking, presence of localized corrosion, and mold is present. Suggest full rehabilitation of

tower within 1-year. EOPCC = \$1.129 Million

Name of Inspector or Water System Staff: DEI Project Inspector, Joe Seiter, P.E., NACE I, Trey Biddy, NACE 1, Peyton Gorman.

Date of Inspection: 8/13/2021

Prepared 2-23-06

J:\SBLGA\Public Water Supply\Tank inspect form.doc

Wagon Wheel CET Rehab. Cost Estimate	
Tank & Estimating Info	
Capacity (Gallons)	2,000,000
Wet-Interior \$/Square Foot	\$10
Dry Exterior \$/Square Foot	\$12
Wet Interior Square Footage	33,020
Dry Exterior Square Footage	25,090
Work Items	
Misc. Structural Repairs (Remove and Replace Two-Roof hatches, Remove and Replace	\$205,000
One Vent and Add Additional Vent, Interior Ladder, Remove and Replace Mandoor, Remove	
and Replace Man Door,Rafter Removal/Replacement)	
Exterior Dust Containment	\$100,000
De-Humidification	\$40,000
Wet Protective Coating Replacement with zinc/epoxy coating system	\$330,200
Dry Protective Coating Replacement with zinc/epoxy/urethane/fluoropolymer coating system	\$301,080
Cleanup, Disinfection and Demobilization	\$5,000
Total of Work Item Estimates	\$981,280
Contingency	\$147,720
Total	\$1,129,000
Engineer's Opinion of Probable Construction Cost (+/- 20% Accuracy)	\$1,129,000



4619 N. Santa Fe Ave Oklahoma City, OK 73118 405.488.2400 Phone 405.488.2404 Fax www.etilab.com

Dunham Engineering Project: Coppell, TX

6101 Melrose Lane Project Number: Wagon Wheel CET Reported:
Oklahoma City OK, 73127 Project Manager: Mr. Joe Seiter 08/19/21 15:51

Wagon Wheel CET Interior E1H0306-01 (Solid) - Sampled: 08/13/21 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Metals by EPA 6000/7000 Ser	ies Methods								
Barium	5130	99.6	mg/Kg	99.6	EJH0487	LSB	08/19/21 14:34	EPA 6010D 2018	
Beryllium	< 0.996	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:13	EPA 6010D 2018	
Chromium	137	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:13	EPA 6010D 2018	
Lead	13.0	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:13	EPA 6010D 2018	
Metals Digestion	Completed		N/A		EJH0487	LSB	08/18/21 11:40	EPA 3050B 1996	

Environmental Testing, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document and meet all laboratory accreditation requirements unless noted otherwise. This analytical report must be reproduced in its entirety.

E1H0306 Original TI OKC RPT MRL rev28.0.rpt





4619 N. Santa Fe Ave Oklahoma City, OK 73118 405.488.2400 Phone 405.488.2404 Fax www.etilab.com

Dunham Engineering Project: Coppell, TX

6101 Melrose Lane Project Number: Wagon Wheel CET Reported:
Oklahoma City OK, 73127 Project Manager: Mr. Joe Seiter 08/19/21 15:51

Wagon Wheel CET Exterior

E1H0306-02 (Solid) - Sampled: 08/13/21 09:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Qualifiers
Metals by EPA 6000/7000 Series Met	thods								
Barium	7290	99.6	mg/Kg	99.6	EJH0487	LSB	08/19/21 14:41	EPA 6010D 2018	
Beryllium	< 0.996	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:20	EPA 6010D 2018	
Chromium	33.1	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:20	EPA 6010D 2018	
Lead	6.69	0.996	mg/Kg	0.996	EJH0487	LSB	08/19/21 14:20	EPA 6010D 2018	
Metals Digestion	Completed		N/A		EJH0487	LSB	08/18/21 11:40	EPA 3050B 1996	

Environmental Testing, Inc.

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Dunham Engineering 6101 Melrose Lane Oklahoma City OK, 73127 Project: Coppell, TX
Project Number: Wagon Wheel CET
Project Manager: Mr. Joe Seiter

Reported: 08/19/21 15:51

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods Environmental Testing, Inc.

				Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifiers
Batch EJH0487 - EPA 3050										
Blank (EJH0487-BLK1)				Prepared:	08/18/21 A	Analyzed: 0	8/19/21			
Barium	<1.00	1.00	mg/Kg							
Beryllium	<1.00	1.00	mg/Kg							
Chromium	<1.00	1.00	mg/Kg							
Lead	<1.00	1.00	mg/Kg							
Metals Digestion	Completed		N/A							
LCS (EJH0487-BS1)				Prepared:	08/18/21 A	Analyzed: 0	8/19/21			
Barium	50.7	1.00	mg/Kg	50.00		101	80-120			
Beryllium	52.3	1.00	mg/Kg	50.00		105	80-120			
Chromium	51.2	1.00	mg/Kg	50.00		102	80-120			
Lead	51.3	1.00	mg/Kg	50.00		103	80-120			
Metals Digestion	Completed		N/A							
Duplicate (EJH0487-DUP1)		Source: E1H018	1-05	Prepared:	08/18/21 A	Analyzed: 0	8/19/21			
Barium	104	0.994	mg/Kg		115			10	20	
Beryllium	0.278	0.994	mg/Kg		0.321			14	20	
Chromium	6.59	0.994	mg/Kg		7.19			9	20	
Lead	30.7	0.994	mg/Kg		31.5			2	20	
Metals Digestion	Completed		N/A							
Matrix Spike (EJH0487-MS1)		Source: E1H018	1-05	Prepared:	08/18/21 A	Analyzed: 0	8/19/21			
Barium	181	0.994	mg/Kg	49.70	115	133	75-125			M-02
Beryllium	46.2	0.994	mg/Kg	49.70	0.321	92	75-125			
Chromium	54.1	0.994	mg/Kg	49.70	7.19	94	75-125			
Lead	69.4	0.994	mg/Kg	49.70	31.5	76	75-125			
Metals Digestion	Completed		N/A							
Matrix Spike Dup (EJH0487-MSD1)		Source: E1H018	1-05	Prepared:	08/18/21 A	Analyzed: 0	8/19/21			
Barium	163	0.990	mg/Kg	49.50	115	98	75-125	10	20	
Beryllium	47.3	0.990	mg/Kg	49.50	0.321	95	75-125	2	20	
Chromium	54.2	0.990	mg/Kg	49.50	7.19	95	75-125	0.06	20	
Lead	79.1	0.990	mg/Kg	49.50	31.5	96	75-125	13	20	
							,			

Environmental Testing, Inc.

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E1H0306 Original ETI_OKC_RPT MRL_rev28.0.rpt





4619 N. Santa Fe Ave Oklahoma City, OK 73118 405.488.2400 Phone 405.488.2404 Fax www.etilab.com

Dunham Engineering Project: Coppell, TX

6101 Melrose Lane Project Number: Wagon Wheel CET Reported:
Oklahoma City OK, 73127 Project Manager: Mr. Joe Seiter 08/19/21 15:51

Certifications

Code	Description	Number	Expires
NELAP/OK	NELAP Accredited (ODEQ)	2020-069	08/31/2021
TCEQ	Texas Accedited (TCEQ)	T104704498-21-11	03/31/2022

Qualifiers and Definitions

Abbreviation	Description
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
x	Non-Certified analyte
NA	Not Applicable
Qualifier	Description
COM	Completed
M-02	The matrix spike recovery was higher than expected due to sample matrix interference.

Environmental Testing, Inc.

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