



Groundwater Monitoring System Certification

Monitoring Well Network Addendum

**Limestone Electric Generating Station
Jewett, Texas**

May 2025

*Prepared For
NRG Texas Power, LLC*

A handwritten signature in black ink, appearing to read "William Carter".

William Carter, P.E.
Senior
Environmental
Engineer

*TRC Environmental Corporation | NRG Texas Power, LLC
Groundwater Monitoring System Certification
Limestone Electric Generating Station, Jewett, Texas*

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Section 1

Regulatory Requirement

Per the requirements in 30 TAC §352.911 9 (40 CFR §257.91), the Limestone Electric Generating Station has installed single unit groundwater monitoring systems around its existing Landfill Unit (Unit 004).. Per 40 CFR 257.91(f), the owner or operator must obtain a certification from a qualified professional engineer, licensed in the State of Texas, stating that the groundwater monitoring system has been designed and constructed to meet the requirements of 40 CFR 257.91.

Section 2

Certification Update

Pursuant to 40 CFR 257.91(f), a qualified professional engineer prepared the initial certification for five single unit groundwater monitoring systems at the Limestone Electric Generating Station on October 17, 2017. The initial certification encompassed five active CCR units at the Limestone Electric Generating Station: Secondary E Pond (SWMU 003), E-Pond (SWMU 019), ST-18 (SWMU ST-18), K Pond (Bottom Ash Cooling Pond Unit [BACP]), and the Landfill (SWMU 004). The initial certification was prepared by Environmental Resource Management (ERM) on behalf of NRG Texas Power, LLC and stated that the groundwater monitoring systems have been designed and constructed to meet the requirements of 40 CFR 257.91.

Since preparation of the October 17, 2017 groundwater monitoring system certification, NRG Texas Power, LLC has reviewed its initial determination of the active CCR units at the Limestone Electric Generation Station under 40 CFR 257. Based on its review, NRG Texas Power, LLC determined that three of the four impoundments do not meet criteria provided in 40 CFR 257 for management as CCR impoundments. Therefore, NRG Texas Power, LLC has determined that the E-Pond (SWMU 019), ST-18 (SWMU ST-18), Secondary E Pond (SWMU 003) and the K Pond (BACP) should not be managed as CCR units under the CCR Rule. Only the Landfill (SWMU 004) should be managed as a CCR unit that is used to treat, store, dispose, or otherwise conduct solid waste management of CCR at the Limestone Electric Generating Station under 40 CFR 257. The addendum to the October 17, 2017 groundwater monitoring system certification was completed in August 2018.

The revised certification updated the original October 17, 2017 groundwater monitoring system certification and the August 2018 groundwater monitoring system certification addendum.

For the groundwater monitoring system at SWMU 004, three new monitor wells have been installed and added to the network, MW-51, MW-52, and MW-53. Existing monitoring wells MW-06, MW-09, MW-16 have been added to the network. Figure 1 of this certification shows the monitoring well network for the landfill with the new and existing monitor wells. Also attached to this certification are the boring and well completion logs for MW-51, MW-52, and MW-53.

Section 3 Certification

I, the undersigned Texas Professional Engineer, hereby certify that I am familiar with the technical requirements of 30 TAC §352.911 9 (40 CFR §257.91). I also certify that it is my professional opinion that, to the best of my knowledge, information, and belief, that the groundwater monitoring system at the Landfill (SWMU 004) has been designed and constructed in accordance with current good and accepted engineering practice(s) and standard(s) appropriate to the nature of the project per the requirements in 30 TAC §352.911 9 (40 CFR §257.91).

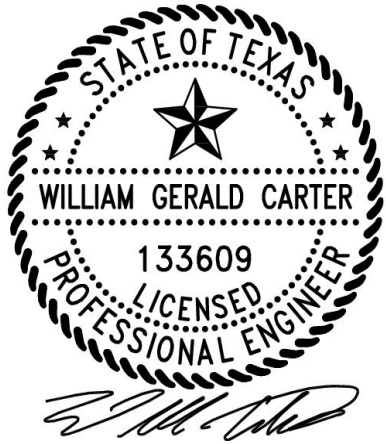
For the purpose of this document, "certify" and "certification" shall be interpreted and construed to be a "statement of professional opinion". The certification is understood and intended to be an expression of my professional opinion as a Texas Licensed Professional Engineer, based upon knowledge, information, and belief. The statement(s) of professional opinion are not and shall not be interpreted or construed to be a guarantee or a warranty of the groundwater monitoring system.

William Carter, P.E.
Registration Number: 133609
Firm Registration Number: 3775

May 14, 2025

Date

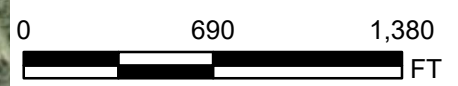
Signature of Professional Engineer






LEGEND

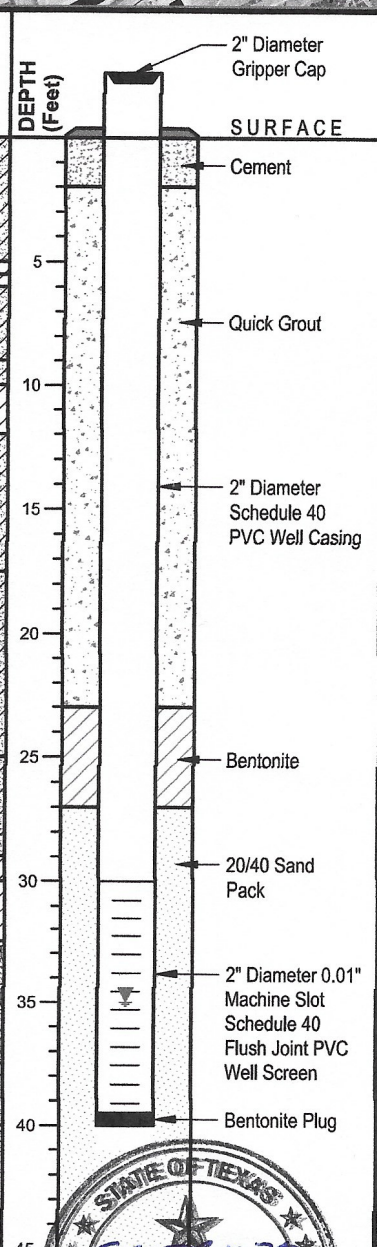
- Landfill Background CCR Locations
- Landfill CCR Monitor Well
- CCR Landfill Boundary



PROJECT:		NRG TEXAS POWER, LLC LIMESTONE JEWETT, TEXAS	
TITLE:		AMENDED GROUNDWATER MONITOR WELL NETWORK	
DRAWN BY:	F. Yarbrough	PROJ. NO.:	652117.0000.0000
CHECKED BY:	J. Atwell	FIGURE 1	
APPROVED BY:	A. Dworaczyk		
DATE:	May 2025		
		11767 Katy Freeway Suite 850 Houston, TX, 77079 Phone 281.616.0100 www.trccompanies.com	
FILE NO.:		652117_Fig1.mxd	

WELL ID: MW-51		LOCATION	
DATE STARTED: 04/21/2025	LOCATION COORDINATES: 31.434980, -96.232531		
DATE COMPLETED: 04/21/2025	SURFACE ELEVATION: 455.31 FT-AMSL		
DRILLING CONTRACTOR: Best Drilling	T.O.C. ELEVATION: 457.84 FT-AMSL		
DRILLER NAME: Bruce Milton	TOTAL DEPTH: 45 FT.		
DRILLING METHOD: Hollow Stem			
SAMPLE METHOD: Split Spoon			
LOGGED BY: Dan Tibbals			

DEPTH (Feet)	SAMPLE	RECOVERY (%)	PID* (ppm)	LITHOLOGIC DESCRIPTION	GRAPHIC LOG
0		75		Lean Clay, CL, with sand, brown 2.5 YR 3/3, dark reddish brown, dry to moist soft clay. Semi cohesive, medium, low plasticity (0-4). highly cohesive, hard, high plasticity (4'-5')	
5		80		Clay, CH, 5 YR 3/3, dark reddish-brown, dry to moist, high plasticity, high cohesive, hard, with small amounts of sand.	
10		80		Clay, CH, 5 YR 4/4, reddish brown, moist, hard, high cohesive, high plasticity. Sandy Clay, CL, 7.5 YR 3/3, dark brown, dry to moist, semi cohesive, medium plasticity. Sandy Clay, CL, 7.5 YR 4/3 brown, moist, semi cohesive, low plasticity Clay, brown, CH, 5 YR 4/3 dry to moist, high plasticity, high cohesive Sandy Clay, CL, 7.5 YR 4/3, brown, dry to moist, semi cohesive, low plasticity.	
15		75		med plasticity, semi cohesive, medium.	
20		30		Clayey Sand, SC, 7.5 YR 4/4, brown, dry to moist, low cohesive, soft.	
25		30		Clayey Sand, SC, with thin beds of Lignite, 7.5 YR 5/5, brown, dry to moist, hard.	
30		70		Clay, CH, 7.5 YR 5/5, reddish brown, moist, high plasticity, high cohesiveness. Clay, CL, 2.5 YR, 5/6, red, with sand, very fine, low to medium cohesive, soft. Thin layers of lignite rock, with reddish brown sand, medium to hard, low cohesive.	
35		70		Silty Sand, SM, 7.5 YR 3/3, dark brown, very moist, very fine, low cohesive, poorly sorted, well graded, very fine.	
40		50		Saturated Silty Sand, SM, 7.5 YR 4/4, brown, high cohesive.	
45				Clay, CH, 5 YR 4/3, dark brown, high plasticity, high cohesive 44.5 - 45.	

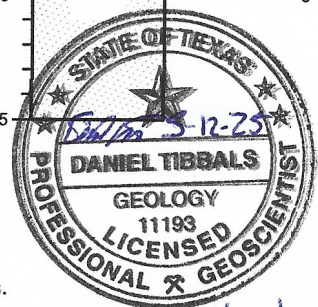


▼ Initial Water Level (35 ft)

■ Sample Collected for Laboratory Analysis

*PID readings were not conducted as part of the installation of the CCR monitor wells.

Note: THIS LOG SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT. *Exp 4/30/26*



LAST EDIT: 05/12/2025 - FILE LOCATION: HOU C:\OF-TRC\DRAWING\CR-Files\NRG\Limestone Generating Station - Jewett-TX\2025 - NRG-LimestoneStation - MW_Logs.dwg

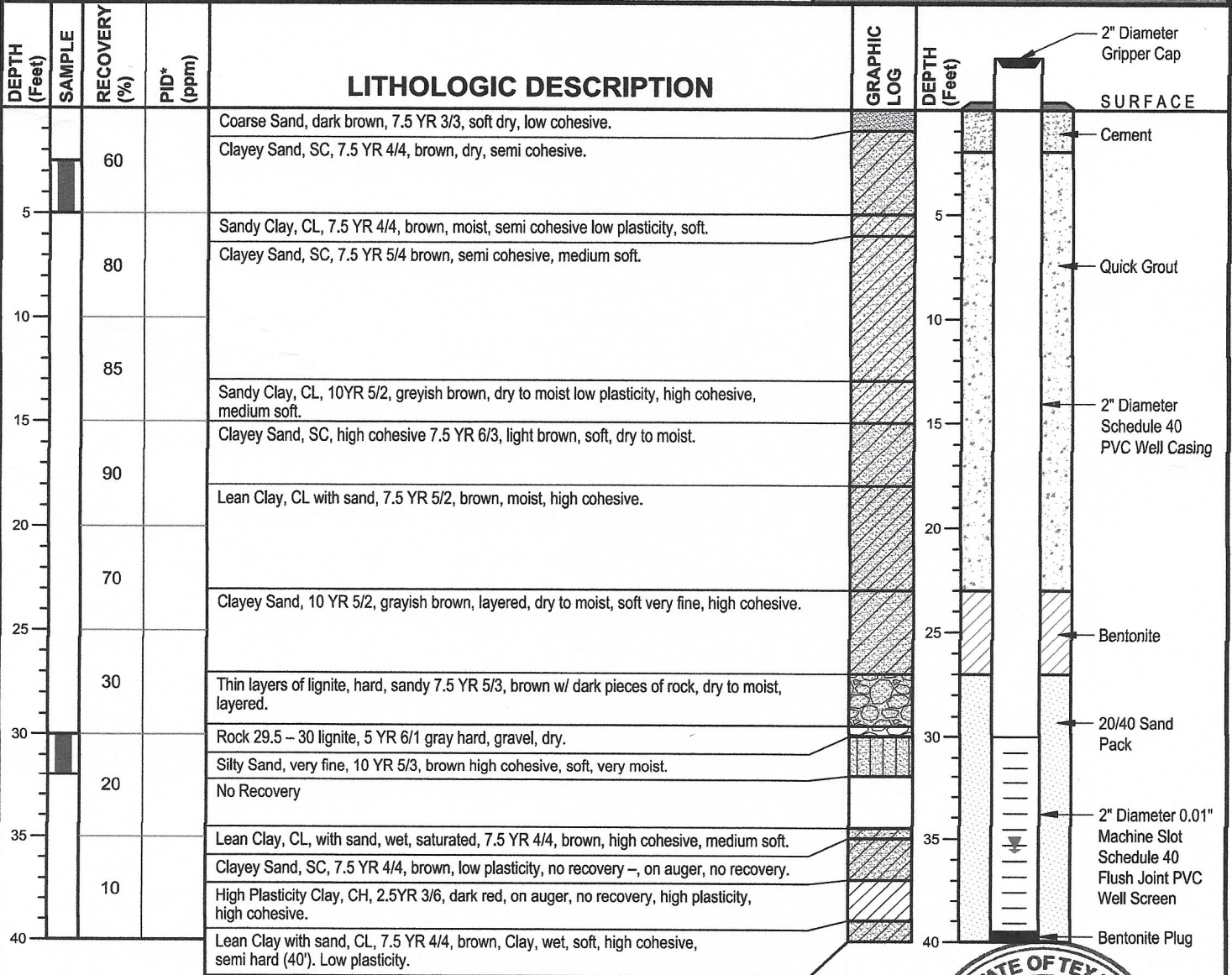
 11767 KATY FRWY, STE 850, HOUSTON, TEXAS 77079 PHONE: 281-616-0100 TRCcompanies.com	NRG TEXAS POWER, LLC Limestone Generating Station F.M. 39 Road, Jewett, Texas 75838	Soil Log and Well Construction Details MW-51	REVISION DATE 05/05/2025	PAGE 1 OF 1
			DRAWING DATE 05/05/2025	
			REVISION BY J. Atwell	
			DRAWING BY O. Fonseka	

WELL ID: **MW-52**

LOCATION



DATE STARTED:	04/21/2025	LOCATION COORDINATES:	31.436578, -96.234201
DATE COMPLETED:	04/21/2025	SURFACE ELEVATION:	467.35 FT-AMSL
DRILLING CONTRACTOR:	Best Drilling	T.O.C. ELEVATION:	469.85 FT-AMSL
DRILLER NAME:	Bruce Milton	TOTAL DEPTH:	40 FT.
DRILLING METHOD:	Hollow Stem		
SAMPLE METHOD:	Split Spoon		
LOGGED BY:	Dan Tibbals		

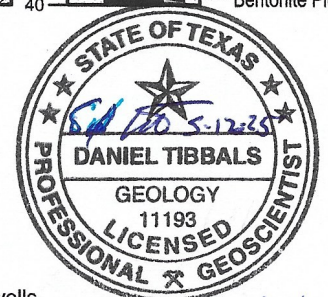


▼ Initial Water Level (34.55 ft)

■ Sample Collected for Laboratory Analysis

*PID readings were not conducted as part of the installation of the CCR monitor wells.

Note: THIS LOG SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT. Exp. 4/30/26

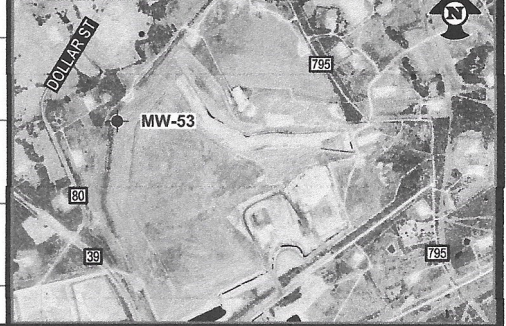


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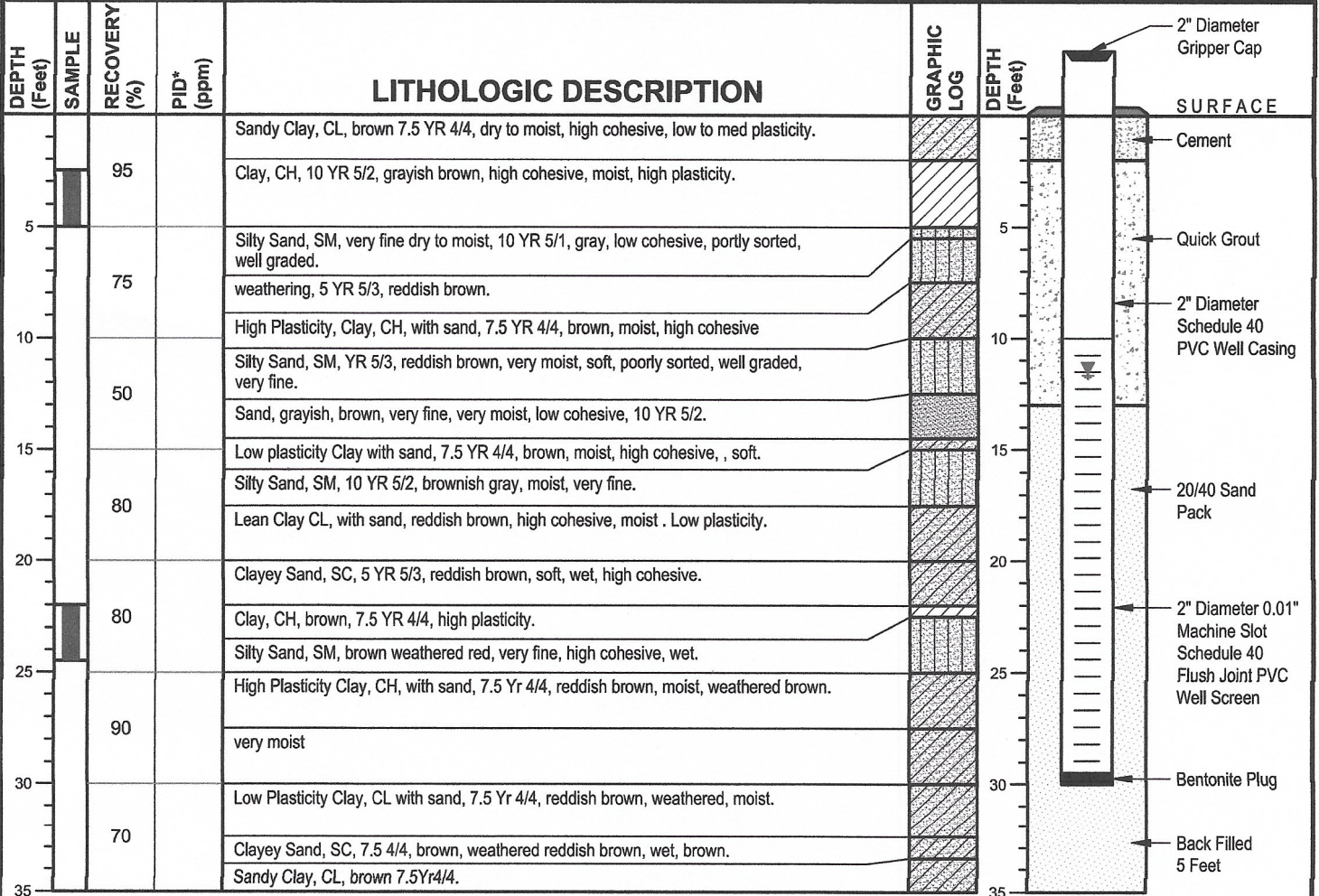
<p>11767 KATY FRWY, STE 850, HOUSTON, TEXAS 77079 PHONE: 281-616-0100 TRCcompanies.com</p>	<p>NRG TEXAS POWER, LLC Limestone Generating Station F.M. 39 Road, Jewett, Texas 75838</p>	<p>Soil Log and Well Construction Details MW-52</p>	<p>REVISION DATE 05/06/2025</p>	<p>PAGE 1</p>
			<p>DRAWING DATE 05/06/2025</p>	<p>OF 1</p>
			<p>REQUESTED BY J. Atwell</p>	
			<p>DRAWING BY O. Fonseca</p>	

WELL ID: **MW-53**

LOCATION

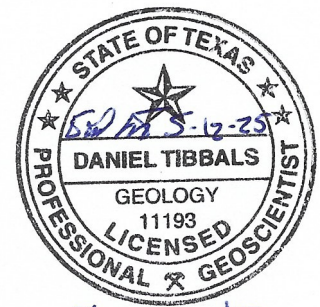


DATE STARTED:	04/22/2025	LOCATION COORDINATES:	31.436640, -96.246780
DATE COMPLETED:	04/22/2025	SURFACE ELEVATION:	453.55 FT-AMSL
DRILLING CONTRACTOR:	Best Drilling	T.O.C. ELEVATION:	456.50 FT-AMSL
DRILLER NAME:	Bruce Milton	TOTAL DEPTH:	35 FT.
DRILLING METHOD:	Hollow Stem		
SAMPLE METHOD:	Split Spoon		
LOGGED BY:	Dan Tibbals		



▼ Initial Water Level (11.80 ft)

■ Sample Collected for Laboratory Analysis



Exp 4/30/26

*PID readings were not conducted as part of the installation of the CCR monitor wells.

Note: THIS LOG SHOULD NOT BE USED SEPARATELY FROM THE ORIGINAL REPORT.



11767 KATY FRWY, STE 850, HOUSTON, TEXAS 77079
PHONE: 281-616-0100 TRCcompanies.com

NRG TEXAS POWER, LLC
Limestone Generating Station
F.M. 39 Road, Jewett, Texas 75838

Soil Log and Well
Construction Details
MW-53

REVISION DATE	PAGE
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05/06/2025	1
REQUESTED BY	
J. Atwell	
DRAWING BY	
O. Fonseca	

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