

Resource Conservation Council

Facility Conformance Subcommittee

July 19, 2023

Staff Contact: Elena Berg,
Environment & Development Planner

Procedures for Online Meeting

- ▶ Please keep your microphone on mute when not speaking.
- ▶ Please state your name and the entity you are representing when you ask a question or provide a comment.

Welcome and Introductions

- Patricia Redfearn, City of Grand Prairie
Chair, Facility Conformance Subcommittee

Words from the Chair

- Patricia Redfearn, City of Grand Prairie
Chair, Facility Conformance Subcommittee

Welcome and Introduction of Applicant(s) and Applicant Representative(s)

- Patricia Redfearn, City of Grand Prairie
Chair, Facility Conformance Subcommittee

Presentation

- ▶ Limited Scope Permit Amendment for the City of Stephenville Type IV Landfill in Erath County.
- ▶ Felipe A. Wescoup, P.E., Senior Engineer
Biggs and Mathews Environmental, Inc.



NCTCOG Presentation

July 19, 2023

City of Stephenville Landfill

Limited Scope Permit Amendment

Introduction

Felipe (Tony) Wescoup, P.E.

- Minority Partner with Biggs & Mathews Environmental, Inc.
- 21 years with BME and in the solid waste industry.

Biggs & Mathews Environmental, Inc.

- BME is a civil engineering and hydrogeology firm focused specifically on municipal solid waste in Texas and Oklahoma.
- From its inception, BME has been involved with landfill design, permitting and construction.

BME's Background with the Stephenville Landfill

- ❖ The Stephenville Landfill is a Type IV landfill located in Erath County.
- ❖ BME's initial involvement with the landfill was the construction of Cells 5 & 6 in 2020.
- ❖ Following the construction of Cells 5 & 6, BME assessed the landfill's remaining airspace.

History of Subtitle D and Pre-Subtitle D Regulations

The EPA enacted Subtitle D in October of 1991 for MSW Landfills. Subtitle D included several requirements for MSW Landfills, such as:

- i. Location restrictions
- ii. Composite liner requirements
- iii. Leachate collection and removal systems
- iv. Groundwater monitoring requirements
- v. Closure and post-closure care requirements
- vi. Corrective action provisions
- vii. Financial assurance

History of Subtitle D and Pre-Subtitle D Regulations (cont'd)

Pre-Subtitle D Landfills are MSW Landfills and constructed before Subtitle D was enacted.

After Subtitle D was enacted, Pre-Subtitle D Landfills could do one of the following:

- i. Comply with Subtitle D, or
- ii. Close the Pre-Subtitle D areas

History of Subtitle D and Pre-Subtitle D Regulations (cont'd)

Construction & Demolition (C&D) Waste over Pre-Subtitle D areas – Landfills that had Pre-Subtitle D areas had a couple of options if they wanted to stay open.

- i. Stop taking MSW (Type I waste) and close the Pre-Subtitle D areas by placing final cover over them and use the remaining airspace and future landfill development for C&D (Type IV waste) disposal only, or
- ii. Construct new areas to meet the Subtitle D requirements and continue disposal of MSW. In addition, close the remaining airspace over the closed Pre-Subtitle areas for C&D.

History of Subtitle D and Pre-Subtitle D Regulations (cont'd)

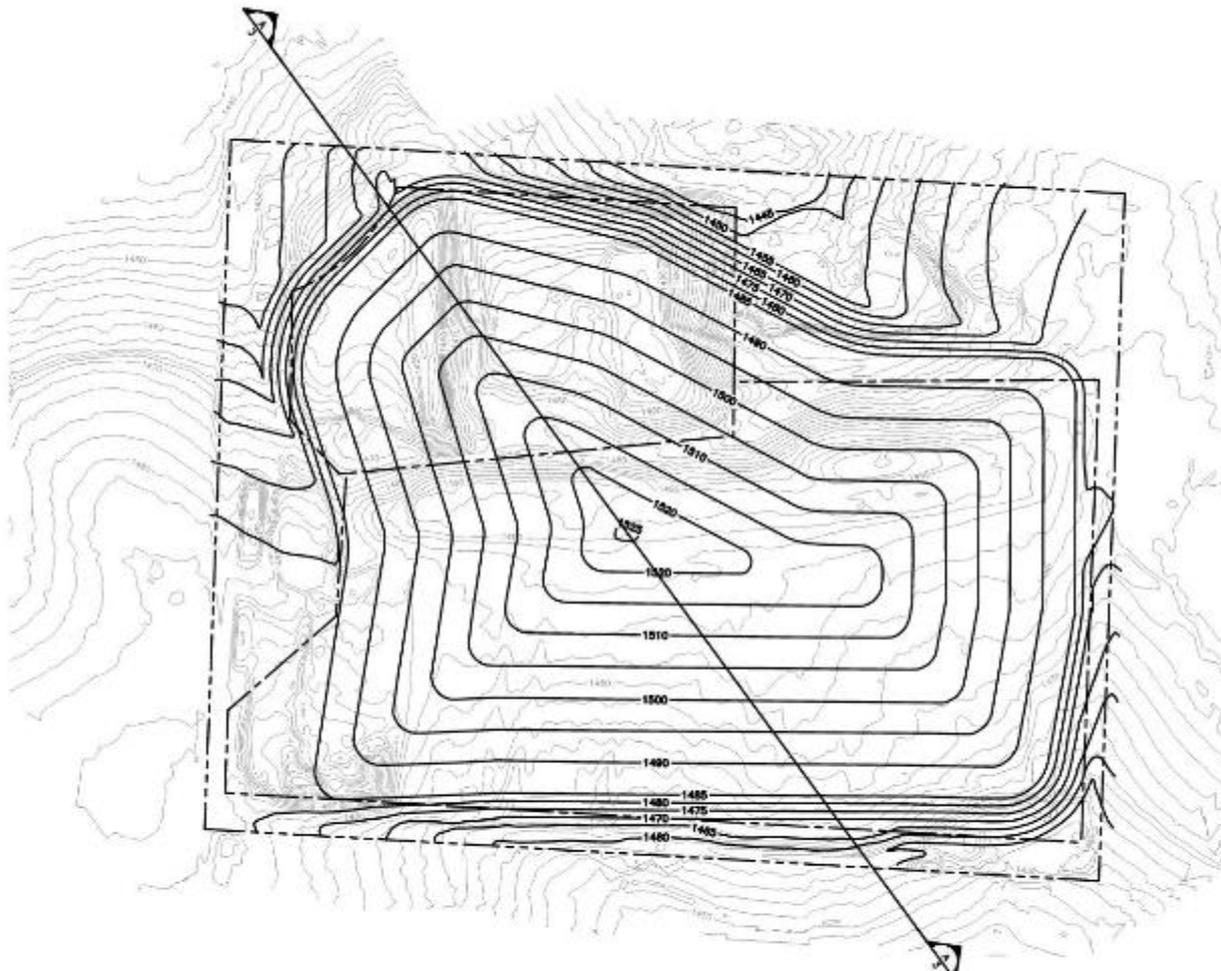
The City of Stephenville (City) did not do either of the previous options. Rather, the City submitted a permit modification to the TNRCC (Texas Natural Resource Conservation Commission) closing the Pre-Subtitle D area and permitting the future area for C&D waste. (The TNRCC was the predecessor to the TCEQ.) This permit modification was approved by the TNRCC in 1996. With the approval of this permit modification, the City voluntarily gave up almost 2 million cubic yards of airspace that could have been used for C&D waste. (This number includes settlement over the past 27 years.)

Stephenville Landfill's Permit History

- ❖ TCEQ website shows that the MSW 664 was started 4/15/1975 but was not issued until 1/10/1996. This latter date is the permit for the Type IV area.
- ❖ There was a permit in place prior to 1996 and the City accepted MSW. We have an Engineering Report/Study from 1972, which seems to be the permit in place prior to 1996. It was last included in a submittal to the Texas Department of Health, January 17, 1991. Attached is the site completion plan from that submittal. Also attached is the same site completion plan signed and sealed 12/24/1990.
- ❖ In January 1995, because of Subtitle D regulations, the City submitted a Type I to Type IV permit amendment.
 - This submittal ceased Type I MSW disposal, closed the Type I fill area, and limited Type IV disposal operations to the undeveloped portion of the landfill.
 - In February 1995, the TNRCC accepts (with two corrections to the SLQCP) the submittal as a permit modification.
- ❖ Current permit – The current SDP and SOP were prepared and sealed on 3/13/2000 and approved on 5/5/2000. The SOP was superseded in 2009 & 2010. BME recently updated the SOP in March of 2023.

Previously Permitted Airspace

- ❖ Drawing 1 shows the landfill's permitted final cover plan prior to Subtitle D.
- ❖ Drawing 2 shows the Type IV final cover plan after the 1996 permit modification.
- ❖ Drawing 3 is a cross-section of both the Pre-Subtitle D final cover and the Type IV final cover.



- LEGEND**
- PROPERTY BOUNDARY
 - PRE-SUBTITLE D PERMIT BOUNDARY
 - TYPE IV PERMIT BOUNDARY
 - 1500' PRE-SUBTITLE D CONTOUR
 - EXISTING CONTOUR

- NOTES**
1. EXISTING CONTOURS COMPILED BY BIGGS AND MATHESON ENVIRONMENTAL FROM DRONE SURVEY FLOWN FEBRUARY 17, 2020.
 2. PRE-SUBTITLE D CONTOURS TAKEN FROM SITE COMPLETION PLAN, MUNICIPAL TYPE I LANDFILL PERMIT #84 PREPARED BY TEAM CONSULTANTS INC., DECEMBER 1980.

**PRE-SUBTITLE D
FINAL COVER PLAN**

**CITY OF STEPHENVILLE
CITY OF STEPHENVILLE LANDFILL**



**BIGGS & MATHESON
ENVIRONMENTAL
CONSULTING ENGINEERS**
MANAGED PROFESSIONALS
637-562-1144

FOR INFORMATION PURPOSES ONLY

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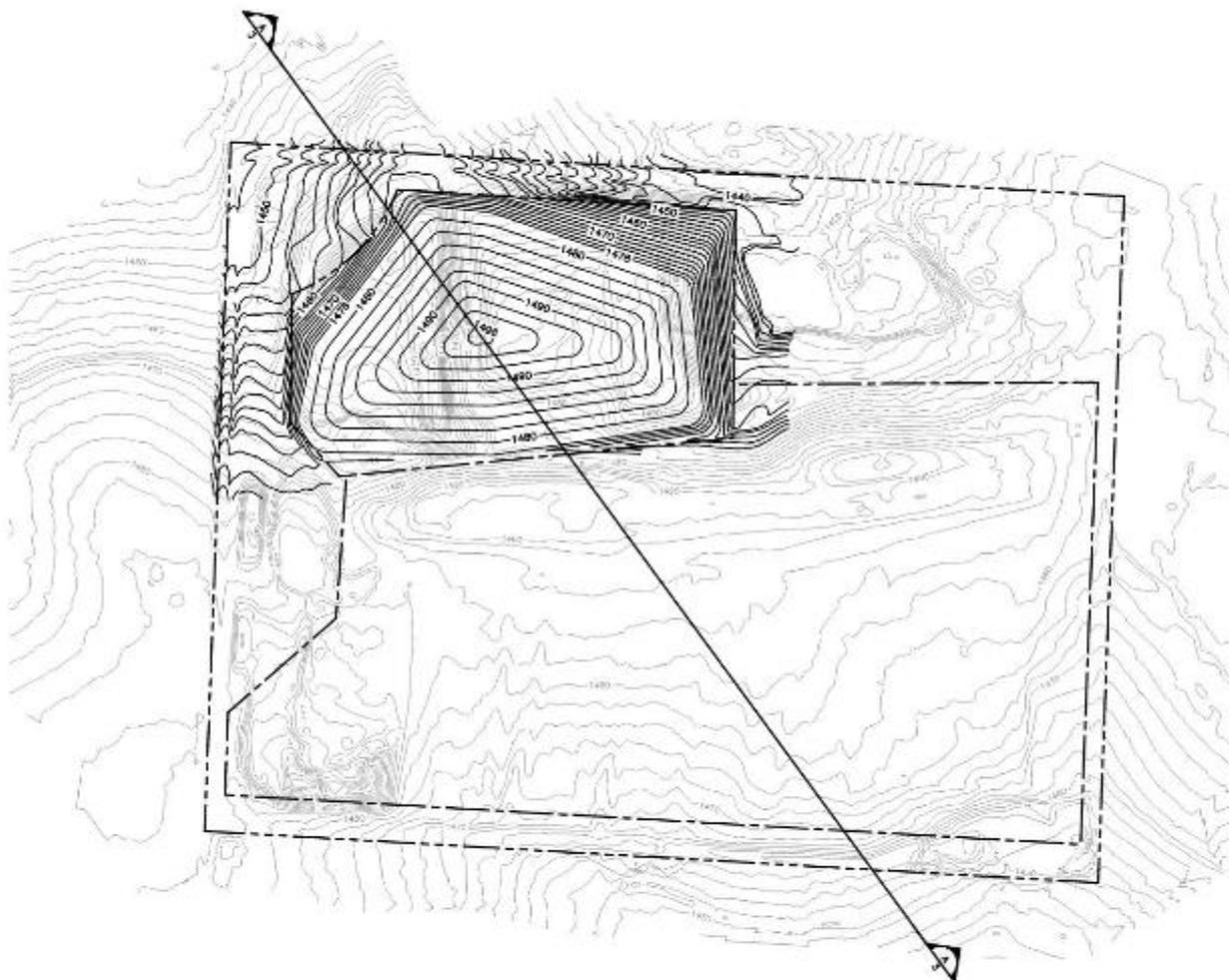
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LEGEND

- PROPERTY BOUNDARY
- · - · - · - · - · PRE-SUBTITLE D PERMIT BOUNDARY
- TYPE IV PERMIT BOUNDARY
- 1490 TYPE IV PERMITTED CONTOUR
- 1480 EXISTING CONTOUR

- NOTES:**
- EXISTING CONTOURS COMPILED BY BIGGS AND MATHEWS ENVIRONMENTAL FROM GROUND SURVEY FLOWN FEBRUARY 17, 2020.
 - TYPE IV PERMITTED CONTOURS TAKEN FROM ATTACHMENT 7 OF MUNICIPAL SOLID WASTE PERMIT NO. 884 TYPE I TO TYPE IV PERMIT MODIFICATION PREPARED BY TEAM CONSULTANTS, INC. JANUARY 1999.

TYPE IV FINAL COVER PLAN

**CITY OF STEPHENVILLE
CITY OF STEPHENVILLE LANDFILL**

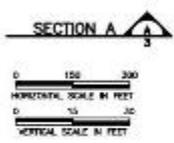
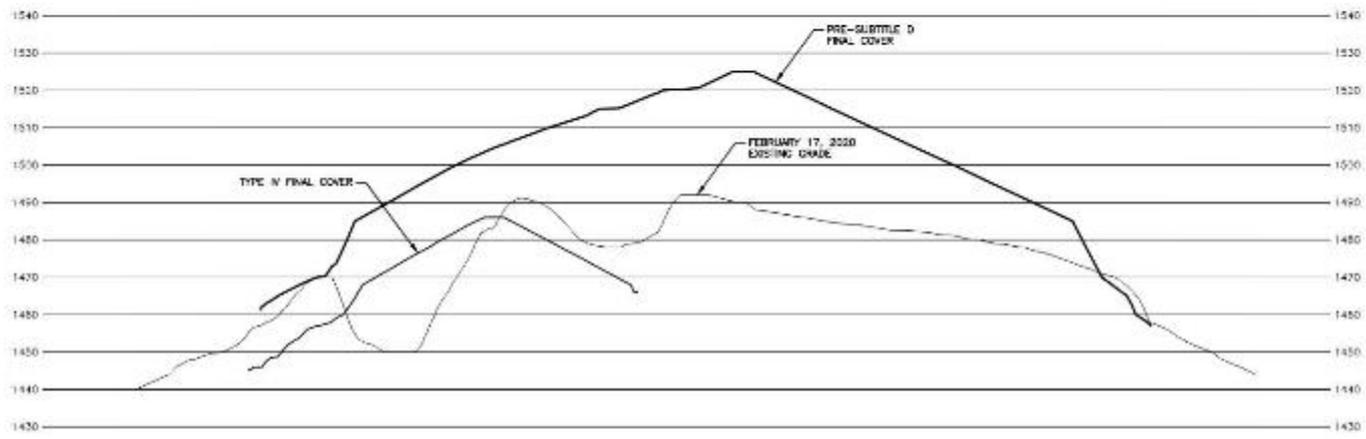
BIGGS & MATHEWS
ENVIRONMENTAL
CONSULTING ENGINEERS
MANAGED BY MICHAEL TULLOCH
817-563-1144

FOR INFORMATION PURPOSES ONLY

REVISION				DATE FROM NO. 1-254	DATE TO NO. 2022
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LANDFILL CROSS SECTION	
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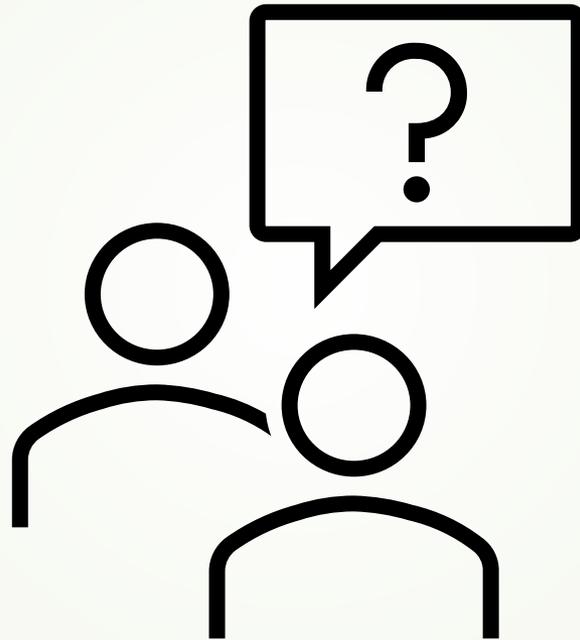
TCEQ Coordination

- ❖ In November of 2021 the City and BME met with the TCEQ regarding permitting options to reclaim previously permitted airspace at the Stephenville Landfill.
- ❖ Since November of 2021 there were multiple conference calls and online meetings with the TCEQ regarding the reclamation of previously permitted airspace. In mid-2022 the TCEQ contacted the City and BME and directed us to submit this request as a limited scope permit amendment application (LSPAA).
- ❖ In February of 2023 the City and BME met with the TCEQ for a pre-submittal meeting of the LSPAA. This provided the City and BME an opportunity to present the LSPAA to the TCEQ and for the TCEQ to provide initial comments.
- ❖ The LSPAA was submitted to the TCEQ in March of 2023. Since this date the LSPAA has been declared administratively complete and the City has published notice in the local newspapers. The LSPAA is currently in technical review by the TCEQ.

Importance of the Stephenville Landfill to the City and the NCTCOG Western Region

- ❖ The Stephenville Landfill is of vital importance to the City of Stephenville, a growing community. Without the airspace provided by the LSPAA, the City has an estimated 2 to 3 years of airspace.
- ❖ Due to the need for solid waste disposal capacity within the area, the NCTCOG has formed a Policy Advisory Group for the Western Region. The City and BME has attended a couple of these online meetings.
- ❖ Based on the importance of the Stephenville Landfill to the City and the need for solid waste disposal capacity within the region, the City and BME asks for the support of the NCTCOG for the limited scope permit amendment application for the Stephenville Landfill.

Q & A for Applicant



Action Item

The Subcommittee will discuss the limited scope permit amendment for the City of Stephenville Type IV Landfill in Erath County, and vote whether to recommend to the Resource Conservation Council that the application conforms to the North Central Texas Regional Solid Waste Management Plan.

Next Steps

The Resource Conservation Council will vote on the Subcommittee's recommendation regarding the limited scope permit amendment application for the City of Stephenville Type IV Landfill at its meeting on August 15, 2023.

A letter stating the RCC's final conformance determination will be submitted to the TCEQ, and a copy will be sent to the applicant.

Contact

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