



## NOTICE OF MEETING

A meeting of the Panhandle Regional Solid Waste Management Advisory Committee (RSWMAC) will be held at **1:30 p.m., on Tuesday, March 31, 2020**. Due to the current COVID-19 crisis this meeting will be held by videoconference pursuant to Texas Government Code Section 551.127. The Governor of Texas, in accordance with Section 418.016 of the Texas Government Code, has proclaimed that a state of disaster now exists across Texas and the rules requiring government officials and members of the public to be physically present at a specified meeting location have been suspended until further notice.

Members of the public interested in attending this meeting may do so by logging onto <https://global.gotomeeting.com/join/510824813> or may participate by phone by dialing (312) 757-3121 Access Code: 510-824-813. A copy of the agenda packet for this meeting can be found on the PRPC's website at [www.theprpc.org](http://www.theprpc.org).

### *AGENDA*

#### **1. CALL TO ORDER**

#### **2. MINUTES**

Consider approval of the minutes from the December 3, 2019, RSWMAC meeting.

### **OLD BUSINESS**

#### **3. TCEQ ACTION ON MAJOR PERMIT APPLICATION FROM SOUTHWEST LANDFILL TX, LP**

PRPC staff will provide overview of documentation received from TCEQ on Southwest Landfill TX, LP major permit application reviewed on February 8, 2018.

### **NEW BUSINESS**

#### **4. PERMIT APPLICATION FOR TYPE I-AE SOLID WASTE LANDFILL FROM THE CITY OF SHAMROCK**

The Committee will hear a presentation by OJD Engineering, LP and/or City of Shamrock on a permit application for a Type I-AE Landfill. Committee will review and obtain comments then forward to Texas Commission on Environmental Quality (TCEQ).

**5. REGISTRATION APPLICATION FOR TYPE V MEDICAL WASTE TREATMENT FACILITY FROM DIVERSIFIED WASTE MANAGEMENT, INC.**

The Committee will hear a presentation by GDS Associates, Inc. and/or Diversified Waste Management on a registration application for a Type V Medical Waste Facility. Committee will review and obtain comments then forward to Texas Commission on Environmental Quality (TCEQ).

**6. REVIEW AND APPROVE SURVEY FOR REGIONAL SOLID WASTE MANAGEMENT PLAN**

The RSWMAC will review the survey for the region, sent to stakeholders on the current use of landfills and recycling.

**7. REVIEW AND APPROVE THE TIMELINE FOR THE REGIONAL SOLID WASTE MANAGEMENT PLAN**

The RSWMAC will review and approve the timeline schedule of events for the completion of the Regional Solid Waste Management Plan for submittal to TCEQ.

**8. MISCELLANEOUS INFORMATION ITEMS**

Roundtable discussion concerning current solid waste and recycling matters

**9. SCHEDULING OF NEXT RSWMAC MEETING**

**10. ADJOURNMENT**

PUBLIC NOTICE

This notice complies with Texas Government Code Chapter 551, Open Meetings Act, Section 551.041 (Notice of Meeting Requirements); Section 551.043 (Time and Accessibility of Notice Requirements); and Section 551.053 (Notice Requirements of a Political Subdivision Extending Into Four or More Counties). The notice has been filed at least 72 hours before the scheduled time of the meeting with the Secretary of State's Office, the Potter County Clerk's Office, and has been posted in the Administrative Office of the Panhandle Regional Planning Commission.

Posted this 25<sup>th</sup> day of March, 2020, at 415 West Eighth Avenue, Amarillo, Texas, at 4:34 Pm.



Lori Gunn





*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 2**

**DRAFT Minutes from the 12.3.19 RSWMAC Meeting**

PANHANDLE REGIONAL PLANNING COMMISSION

Regional Solid Waste Management

Advisory Committee

Minutes

December 3, 2019

A meeting of the Panhandle Regional Solid Waste Advisory Committee (RSWMAC) was held on Tuesday, December 3, 2019 at 12:00 p.m. in the PRPC Board Room, 415 South West Eighth Avenue, Amarillo, Potter County, Texas.

Mr. Tommy Bogart, presided.

MEMBERS PRESENT:

- Blair Snow, City of Amarillo
- Jason Anderson, City of Borger
- Cesar Marquez, City of Bovina
- Dan Reese, City of Canyon
- Curtis Green, City of Dalhart
- Isidro Renteria, City of Dumas
- David Morris, City of Memphis
- Ricky Rivera, City of Pampa
- Tommy Bogart, City of Stratford
- Russell Proctor, City of Tulia
- Jon Michael Walker, City of Wheeler
- Adam Schaer, KB Recycling
- Scott Honeyfield, Parkhill Smith & Cooper
- Orrin Dankworth, Scrap Processing Company

MEMBERS ABSENT:

- Susan Leary, Chamber of Commerce/Keep Childress Beautiful
- Tommy Wyatt, City of Canadian
- Danny Gains, City of Clarendon
- Tony Rios, City of Dimmitt
- Lee Davila, City of Friona
- Drew Brassfield, CPM, SHRM-CP, City of Fritch
- Johnny Torres, City of Hereford
- Harvey Perez, City of Panhandle
- Brandon Knapp, City of Perryton
- Chris Douglas, City of Spearman
- Richard Miller, SCARAB Manufacturing
- Brittany Crawford, TCEQ Region 1
- Julia Savala, TCEQ Region 1
- Anju Chalise, TCEQ-Waste Permits Division - MC124
- Cheryl Untermeyer, TCEQ-Waste Permits Division - MC124
- Kenny Welch, Tri-State Recycling

**OTHERS PRESENT:**

Ben Holt & Brian Holt, Booker ISD; Dustin Carlisle, City of Dumas; N. Scott Downing, City of Happy; Johnnie Williams, City of Gruver, Joe Orozco, City of Bovina; Salvador Garcia, City of Friona

**STAFF PRESENT:**

Sharee Bailey, Administrative Program Specialist, Lori Gunn, Regional Services Coordinator, John Kiehl, Regional Services Director

1. **CALL TO ORDER**

Mr. Tommy Bogart called the meeting to order at 12:05 noting that a quorum was present. Introductions were made and prayer was offered by Ms. Lori Gunn.

2. **MINUTES**

Members considered the minutes from the October 15, 2019 meeting of the Regional Solid Waste Management Advisory Committee. Mr. Honeyfield moved to approve the minutes as presented. Mr. Renteria seconded; the motion carried.

3. **WORKING LUNCH**

4. **OVERVIEW OF SOLID WASTE GRANTS PROGRAM**

Ms. Lori Gunn presented an overview on:

- a) The Regional Solid Waste Grants Program – No action was required
- b) Project Consideration and Regional Planning Goals – Mr. Schaer moved to approve. Mr. Renteria seconded; the motion carried.
- c) The RSWMAC's Grant Selection Criteria and Grant Prioritization Procedures – No action was required.

5. **FY2020 SOLID WASTE GRANT APPLICANT PRESENTATIONS**

The following applications for the FY2020 Solid Waste Grant funds were presented.

<b><u>PRESENTER</u></b>	<b><u>APPLICANT</u></b>	<b><u>AMOUNT REQUESTED</u></b>
Sal Rivera	City of Friona	\$ 25,000.00
N. Scott Downing	City of Happy	4,600.00
Tommy Bogart	City of Stratford	15,056.00
Curtis Green	City of Dalhart	30,000.00
Johnny Williams	City of Gruver	19,499.00
Ben Holt	Booker ISD	40,974.23
Lori Gunn	PRPC	20,000.00
Joe Orozco	City of Bovina	17,000.00
Dustin Carlisle	City of Dumas	11,000.00

6. **RSWMAC PRIORITIZATION OF THE FY2020 SOLID WASTE GRANT APPLICATIONS**

The Committee evaluated and prioritized all of the FY2020 applications. Mr. Renteria moved to present the finalized list to the PRPC Board of Directors for final approval. Mr. Marquez seconded the motion; the motion carried.

7. **MISCELLANEOUS NON-ACTION INFORMATION ITEMS**

Roundtable discussion concerning current solid waste and recycling matters. Mr. Schaer discussed the OCC.

8. **SCHEDULING OF NEXT RSWMAC MEETING**

TBA

9. **ADJOURNMENT**

There being no further business to come before the Committee, Mr. Honeyfield moved that the meeting adjourn. Mr. Schaer seconded the motion; the meeting adjourned at 2:41 p.m.



*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 3**

**Update to Major Permit Amendment Application Review  
Southwest Landfill TX, LP**

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Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Toby Baker, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

January 9, 2020

TO: Persons on the attached mailing list.

RE: Southwest Landfill TX, LP  
Permit No. 1663C

### **Decision of the Executive Director.**

The executive director has made a decision that the above-referenced permit application meets the requirements of applicable law. **This decision does not authorize construction or operation of any proposed facilities.** This decision will be considered by the commissioners at a regularly scheduled public meeting before any action is taken on this application unless all requests for contested case hearing or reconsideration have been withdrawn before that meeting.

Enclosed with this letter is a copy of the Executive Director's Response to Comments. A copy of the complete application, draft permit and related documents, including public comments, is available for review at the TCEQ Central office. A copy of the complete application, the draft permit, and executive director's preliminary decision are available for viewing and copying at the Canyon Public Library, 1501 3<sup>rd</sup> Avenue, Canyon, Texas 79015. The permit application may be viewed online at <http://www.ftwweaverboos.com>.

If you disagree with the executive director's decision, and you believe you are an "affected person" as defined below, you may request a contested case hearing. In addition, anyone may request reconsideration of the executive director's decision. The procedures for the commission's evaluation of hearing requests/requests for reconsideration are located in 30 Texas Administrative Code Chapter 55, Subchapter F. A brief description of the procedures for these two requests follows.

### **How to Request a Contested Case Hearing.**

It is important that your request include all the information that supports your right to a contested case hearing. Your hearing request must demonstrate that you meet the applicable legal requirements to have your hearing request granted. The commission's consideration of your request will be based on the information you provide.

The request must include the following:

- (1) Your name, address, daytime telephone number, and, if possible, a fax number.
- (2) The name of the applicant, the permit number and other numbers listed above so that your request may be processed properly.

- (3) A statement clearly expressing that you are requesting a contested case hearing. For example, the following statement would be sufficient: “I request a contested case hearing.”
- (4) If the request is made by a group or association, the request must identify:
  - (A) one person by name, address, daytime telephone number, and, if possible, the fax number, of the person who will be responsible for receiving all communications and documents for the group;
  - (B) the comments on the application submitted by the group that are the basis of the hearing request; and
  - (C) by name and physical address one or more members of the group that would otherwise have standing to request a hearing in their own right. The interests the group seeks to protect must relate to the organization’s purpose. Neither the claim asserted nor the relief requested must require the participation of the individual members in the case.

Additionally, your request must demonstrate that you are an **“affected person.”** An affected person is one who has a personal justiciable interest related to a legal right, duty, privilege, power, or economic interest affected by the application. Your request must describe how and why you would be adversely affected by the proposed facility or activity in a manner not common to the general public. For example, to the extent your request is based on these concerns, you should describe the likely impact on your health, safety, or uses of your property which may be adversely affected by the proposed facility or activities. To demonstrate that you have a personal justiciable interest, you must state, as specifically as you are able, your location and the distance between your location and the proposed facility or activities.

Your request must raise disputed issues of fact that are relevant and material to the commission’s decision on this application that were raised **by you** during the public comment period. The request cannot be based solely on issues raised in comments that you have withdrawn.

To facilitate the commission’s determination of the number and scope of issues to be referred to hearing, you should: 1) specify any of the executive director’s responses to **your** comments that you dispute; 2) the factual basis of the dispute; and 3) list any disputed issues of law.

### **How to Request Reconsideration of the Executive Director’s Decision.**

Unlike a request for a contested case hearing, anyone may request reconsideration of the executive director’s decision. A request for reconsideration should contain your name, address, daytime phone number, and, if possible, your fax number. The request must state that you are requesting reconsideration of the executive director’s decision, and must explain why you believe the decision should be reconsidered.

### **Deadline for Submitting Requests.**

A request for a contested case hearing or reconsideration of the executive director's decision must be **received by** the Chief Clerk's office no later than **30 calendar days** after the date of this letter. You may submit your request electronically at [www.tceq.texas.gov/agency/decisions/cc/comments.html](http://www.tceq.texas.gov/agency/decisions/cc/comments.html) or by mail to the following address:

Bridget C. Bohac, Chief Clerk  
TCEQ, MC-105  
P.O. Box 13087  
Austin, Texas 78711-3087

### **Processing of Requests.**

Timely requests for a contested case hearing or for reconsideration of the executive director's decision will be referred to the TCEQ's Alternative Dispute Resolution Program and set on the agenda of one of the commission's regularly scheduled meetings. Additional instructions explaining these procedures will be sent to the attached mailing list when this meeting has been scheduled.

### **How to Obtain Additional Information.**

If you have any questions or need additional information about the procedures described in this letter, please call the Public Education Program, toll free, at 1-800-687-4040.

Sincerely,



Bridget C. Bohac  
Chief Clerk

BCB/mgo

Enclosure



MAILING LIST  
for  
Southwest Landfill TX, LP  
Permit No. 1663C

FOR THE APPLICANT:

Brian Danko  
Southwest Landfill TX, LP  
4709 Pine Street  
Abilene, Texas 79601

Jason Edwards, P.E.  
Weaver Consulting Group, LLC  
6420 Southwest Boulevard, Suite 206  
Fort Worth, Texas 76109

INTERESTED PERSONS:

Lori Gunn  
Panhandle Regional Planning  
Commission  
P.O. Box 9257  
Amarillo, Texas 79105

C. Jared Knight  
Burdett Morgan Williamson & Boykin  
701 South Taylor Street, Suite 440  
Amarillo, Texas 79101

Bruce Pistocco  
21401 Hope Road  
Canyon, Texas 79015

Timothy Bruce Pistocco  
P.O. Box 51178  
Amarillo, Texas 79159

FOR THE EXECUTIVE DIRECTOR  
via electronic mail:

Ryan Vise, Director  
Texas Commission on Environmental  
Quality  
External Relations Division  
Public Education Program MC-108  
P.O. Box 13087  
Austin, Texas 78711-3087

Aaron Vargas, Staff Attorney  
Anthony Tatu, Staff Attorney  
Texas Commission on Environmental  
Quality  
Environmental Law Division MC-173  
P.O. Box 13087  
Austin, Texas 78711-3087

Frank Zeng, Technical Staff  
Texas Commission on Environmental  
Quality  
Waste Permits Division  
MSW Permits Section MC-124  
P.O. Box 13087  
Austin, Texas 78711-3087

FOR PUBLIC INTEREST COUNSEL  
via electronic mail:

Vic McWherter, Attorney  
Texas Commission on Environmental  
Quality  
Public Interest Counsel MC-103  
P.O. Box 13087  
Austin, Texas 78711-3087

FOR THE CHIEF CLERK  
via electronic mail:

Bridget C. Bohac, Chief Clerk  
Texas Commission on Environmental  
Quality  
Office of Chief Clerk MC-105  
P.O. Box 13087  
Austin, Texas 78711-3087

Jon Niermann, *Chairman*  
Emily Lindley, *Commissioner*  
Bobby Janecka, *Commissioner*  
Toby Baker, *Executive Director*



## TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

*Protecting Texas by Reducing and Preventing Pollution*

February 25, 2020

TO: Persons on the attached mailing list.

RE: Southwest Landfill TX, LP  
Permit No. 1663C

This letter is your notice that the Texas Commission on Environmental Quality (TCEQ) executive director (ED) has acted on the above-named application. According to 30 Texas Administrative Code (TAC) Section 50.135 the ED's action became effective on February 20, 2020, the date the ED signed the permit or other action unless otherwise specified in the permit or other action.

For certain matters, a **motion to overturn**, which is a request that the commission review the ED's action on an application, may be filed with the chief clerk. Whether a motion to overturn is procedurally available for a specific matter is determined by Title 30 of the Texas Administrative Code Chapter 50. According to 30 TAC Section 50.139, an action by the ED is not affected by a motion to overturn filed under this section unless expressly ordered by the commission.

If a motion to overturn is filed, the motion must be received by the chief clerk within 23 days after the date of this letter. An original and 7 copies of a motion must be filed with the chief clerk in person, or by mail to the chief clerk's address on the attached mailing list. On the same day the motion is transmitted to the chief clerk, please provide copies to the applicant, the ED's attorney, and the Public Interest Counsel at the addresses listed on the attached mailing list. If a motion to overturn is not acted on by the commission within 45 days after the date of this letter, then the motion shall be deemed overruled.

You may also request **judicial review** of the ED's action. The procedure and timelines for seeking judicial review of a commission or ED action are governed by Texas Health and Safety Code Section 361.321.

Individual members of the public may seek further information by calling the Public Education Program, toll free, at 1-800-687-4040.

Sincerely,

*Bridget C. Bohac*

Bridget C. Bohac  
Chief Clerk

BCB/tm

Enclosure

MAILING LIST  
for  
Southwest Landfill TX, LP  
Permit No. 1663C

FOR THE APPLICANT:

Brian Danko, Environmental Manager  
Southwest Landfill TX, LP  
4709 Pine Street  
Abilene, Texas 79601

Jason A. Edwards, P.E.  
Weaver Consultants Group  
6420 Southwest Boulevard, Suite 206  
Fort Worth, Texas 76109

PROTESTANTS/INTERESTED  
PERSONS:

Lori Gunn  
Panhandle Regional Planning  
Commission  
P.O. box 9257  
Amarillo, Texas 79105

Jared C. Knight  
Burdett Morgan Williamson & Boykin  
701 South Taylor Street, Suite 440  
Amarillo, Texas 79101

Bruce Pistocco  
21401 Hope Road  
Canyon, Texas 79015

Dr. Timothy Bruce Pistocco  
P.O. Box 51178  
Amarillo, Texas 79159

FOR THE EXECUTIVE DIRECTOR  
via electronic mail:

Ryan Vise, Director  
Texas Commission on Environmental  
Quality  
External Relations Division  
Public Education Program MC 108  
P.O. Box 13087  
Austin, Texas 78711-3087

Aaron Vargas, Anthony Charles Tatu,  
Staff Attorneys  
Texas Commission on Environmental  
Quality  
Environmental Law Division MC 173  
P.O. Box 13087  
Austin, Texas 78711-3087

Frank Zeng, Technical Staff  
Texas Commission on Environmental  
Quality  
Waste Permits Division MC 124  
P.O. Box 13087  
Austin, Texas 78711-3087

FOR PUBLIC INTEREST COUNSEL  
via electronic mail:

Vic McWherter, Attorney  
Texas Commission on Environmental  
Quality  
Public Interest Counsel MC 103  
P.O. Box 13087  
Austin, Texas 78711-3087

FOR THE CHIEF CLERK  
via electronic mail:

Bridget C. Bohac, Chief Clerk  
Texas Commission on Environmental  
Quality  
Office of Chief Clerk MC 105  
P.O. Box 13087  
Austin, Texas 78711-3087



*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 4**

**Permit Application Review for Type I-AE Solid Waste  
Landfill from City of Shamrock**

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## a. PLAN CONFORMANCE/PERMIT REVIEW

All MSW facilities proposed for siting in the Panhandle must conform to the regional solid waste management plan. This is a condition of the TCEQ's MSW facility permitting requirements and other applicable state statutes (§363.066, Texas Health and Safety Code and §330.566 Subchapter O).

As such, one of the primary functions of the Regional Solid Waste Advisory Committee (RSWMAC) is to review permit and registration applications being filed from this region to assess their conformance to the Panhandle Regional Solid Waste Management Plan. The findings of the RSWMAC are then presented to the Texas Commission on Environmental Quality (TCEQ). The RSWMAC's comments or recommendations will be considered by the Commission when it decides whether or not to grant the permit or registration request.

In the Panhandle region, the following procedures will be followed by the RSWMAC when asked to review a permit or registration application for regional plan conformance.

**Timing of a Review Request:** Applicants may only request a conformance review of their registration or permit application after Part 1 and Part 2 of the filing forms have been fully completed. These documents will be submitted to the PRPC as part of the review process.

**Additional Required Filing Information:** In addition to submitting Part 1 and Part 2 of the permit application, applicants will also be required to submit a completed Panhandle Regional Solid Waste Plan Conformance Checklist (shown as Exhibit A to this planning document). Subchapter E of the TCEQ's permitting procedures (§ 330.51 (10)) states that it is the responsibility of the applicant to demonstrate conformance with the regional solid waste plan. This then is the purpose of the regional plan checklist. The applicant will complete the form to the best of his or her ability to indicate how the proposed facility will help in promoting the goals and objectives of the regional plan. The chief administrative officer of the applicant organization must sign the form to attest to the accuracy and truthfulness of the information presented.

**Requesting a Registration or Application Review:** When requesting a review, applicants will submit the following documents to the PRPC:

1. Two (2) full copies of Part 1 and Part 2 of the application form;
2. One (1) originally signed copy of the Panhandle Regional Solid Waste Plan Conformance Checklist; and
3. One (1) copy of any other information which the applicant may view as helping to facilitate the RSWMAC review process.

This information must be submitted under a cover letter which lists the following information.

1. The chief contact person for the application;
2. The contact information for that individual;
3. The name of the engineer representing the applicant;
4. The contact information for the applicant's engineer; and
5. The contact information for the TCEQ staff person to whom all review-related correspondence should be sent.

The submission documents and cover letter must be addressed and delivered to the PRPC's Regional Solid Waste Management Coordinator at the following address:

**Mailed Requests:**

PRPC  
Attn: SW Program Coordinator  
P.O. Box 9257  
Amarillo, TX 79105

**Hand-Delivered Request:**

PRPC  
Attn: SW Program Coordinator  
415 West Eighth Avenue  
Amarillo, TX 79101

No RSWMAC review requests will be considered until all the required information has been submitted in its completed form.

Once it has been determined all information has been properly filed, the PRPC Regional Solid Waste Coordinator, will confirm its receipt in writing to the applicant and schedule a meeting of the RSWMAC to review the application at the earliest possible date. Applicants will be notified in writing of the application review date and are strongly encouraged to attend that RSWMAC meeting to present their application to the committee.

**RSWMAC's Conformance Review Considerations:** The RSWMAC will consider the following factors when determining how a proposed facility will or will not conform to the regional solid waste plan.

1. The information provided on the applicant's Panhandle Regional Solid Waste Plan Conformance Checklist; and
2. The general compatibility of the proposed facility to existing surrounding land use.

The second of these two factors is not intended to supercede or take the place of the land use compatibility determination that will ultimately be made by the TCEQ. The TCEQ requires that the RSWMAC make some judgment, outside that which will be made by the Commissioners, as to the appropriateness of the proposed facility in relation to the existing surrounding land use.

The types of information that will be considered with regard to general land use compatibility will include but may not be limited to:

**For landfills:** The proposed fill height of the facility and how it will eventually impact the existing appearance of the surrounding area.

**For landfills:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For landfills:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.

**For transfer facilities:** The measures that will be taken, if necessary, to blend the appearance and operation of the proposed facility in with its surroundings.

**For transfer facilities:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For transfer facilities:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.



**For other MSW Facilities:** The measures that will be taken, if necessary, to blend the appearance and operation of the proposed facility in with its surroundings.

**For other MSW Facilities:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For other MSW Facilities:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.

Unless the property adjacent to the proposed facility site has been purchased, zoned and/or platted for future development at the time the permit/registration application is submitted for review, the RSWMAC will generally not consider future growth patterns as a factor of the conformance review. As a pre-existing facility, the RSWMAC would consider the rights of the MSW facility to hold precedence over the rights of the individual or entity that might elect to develop that adjacent property in the future.

The RSWMAC reserves the right to solicit letters of comment from individuals and organizations located within the proposed facility's impact area when considering the general land use compatibility factor.

**RSWMAC's Conformance Review Findings:** There are four responses the RSWMAC may consider when determining the conformance of a proposed facility to the regional solid waste management plan. Those are:

1. A finding that additional information will be required before a final recommendation can be rendered.
2. A finding of conformance with the plan prompting a recommendation to the TCEQ that the application be approved as presented.
3. A finding of non-conformance, citing the areas where the non-conformance occurs, prompting a recommendation to the TCEQ that the permit or registration not be granted until the noted deficiencies are corrected.
4. A finding of incompatibility with existing surrounding land use, prompting a recommendation to the TCEQ that a land use compatibility hearing be held before the granting of the permit or registration is considered.

It should be noted that this review is not an application approval or disapproval process. It is merely a means by which the RSWMAC can voice its qualified opinion of how the proposed facility conforms to the regional solid waste management plan to the body that will eventually approve or disapprove the application.

**Communicating the RSWMAC's Conformance Review Findings:** The PRPC's Regional Solid Waste Program Coordinator will be responsible for communicating the RSWMAC's findings in writing to all affected parties. Those findings will be communicated as follows.

An original copy of the RSWMAC's recommendation letter, signed by the current year RSWMAC chairperson, will be sent to the individual identified in the applicant's cover letter as being the appropriate TCEQ contact person. The letter will be mailed seven days following the meeting during which the RSWMAC recommendation was made allowing the applicant time, if necessary, to appeal the recommendation of the RSWMAC

A copy of the letter will be sent to the person identified in the applicant's cover letter as being the chief contact person for the application. The letter will be mailed immediately following the meeting during which the RSWMAC recommendation was made.

A copy of the letter will be sent to the person identified in the applicant's cover letter as being the engineer representing the applicant. The letter will be mailed immediately following the meeting during which the RSWMAC recommendation was made.

**Appeals Process:** The RSWMAC is an Advisory Committee to the Panhandle Regional Planning Commission's Board of Directors. The PRPC Board has vested the responsibility for MSW facility application review with the RSWMAC. In general, the recommendations of the RSMAC will be final.

An applicant may appeal the disposition of its application **only** if the application review is not processed and treated in accordance with the procedures set forth in this section.

All appeals, including the specific alleged procedural violation(s), must be submitted to the PRPC Executive Director in writing. The Executive Director may then take one of the following actions:

1. Investigate the allegation and determine that the appeal is not valid. In such case, the applicant will receive in writing the basis for the decision to reject the applicant's appeal. In such case, the decision of the Executive Director is final.
2. If there is some validity to the appeal, the Executive Director will place the appeal on the agenda of the PRPC Board of Directors. The protesting applicant will be notified of the time and date of the meeting during which the Board of Directors will consider the appeal. The applicant will be given the opportunity to present his/her case directly to the PRPC Board of Directors. The Board of Directors will then render a decision on the appeal of the protesting applicant. All decisions made by the PRPC Board of Directors will be final.

An appeal can be filed at any time during the seven calendar-day period following the date on which the RSWMAC developed its recommendation. The appeal must be received by the PRPC during that timeframe. Any appeals received after that date will not be considered and the RSWMAC recommendation letter will be immediately forwarded to the TCEQ.

**Voluntary Pre-Application Review:** A potential permit or registration applicant may, at their discretion, ask to meet with the PRPC Regional Solid Waste Program Coordinator to discuss their impending application. The PRPC Solid Waste Program Coordinator will provide the potential applicant with his/her observations of the proposed facility in relation to the regional solid waste management plan. In so doing, this may help to ensure the ultimate conformance of the proposed facility with the regional plan.

PANHANDLE REGIONAL SOLID WASTE PLAN CONFORMANCE CHECKLIST

This checklist is designed to assist the MSW facility permit or registration applicant in meeting the TCEQ's application requirements. Subchapter E (§ 330.51 (10)) of the Texas Administrative Code states that it is the **applicant's** responsibility to demonstrate conformance with the regional solid waste management plan.

The TCEQ requires the Panhandle Regional Solid Waste Management Advisory Committee (RSWMAC) review your application to determine if the proposed facility will conform to the Panhandle Regional Solid Waste Management Plan. The questions below pertain to the goals and objectives of that plan. Your response to these questions will provide the RSWMAC with a perspective on how your proposed facility will support the plan's goals.

All questions relating to the type of facility being permitted or registered must be answered. A response of "Not Applicable" or "N/A" **will not** be acceptable. This checklist must be fully completed and submitted to the PRPC, along with Parts 1 and 2 of your facility application, before the local conformance review process can be initiated. The certification box must be signed by the chief administrative officer of the applicant entity indicating that the information provided herein is accurate and true.

**Section 1: General Applicant Information**

1.1. Applicant's Name City of Shamrock

1.2. Is this a permit or a registration application? (please check the appropriate box and provide the application number.)  
 Permit No. 2281  
 Registration No. \_\_\_\_\_

1.3. What type of MSW facility is being registered or permitted? (please check the appropriate box)  
 Type I Landfill  
 Type I AE Landfill  
 Type IV Landfill  
 Type IV AE Landfill  
 Type V Facility  
 Other (please describe)

Describe "Other" below:  
\_\_\_\_\_  
\_\_\_\_\_

1.4. What types of waste(s) will be accepted at your facility? Please specify any special wastes.  
Municipal solid wastes, sludge, Class II Industrial Waste, and special waste

1.5. What entity(ies) in the Panhandle region is this facility intended to serve?  
Wheeler County, City of Shamrock, City of Wheeler, Community of Samnorwood, and Community of Lela.

**Regional Solid Waste Plan  
Performance Checklist**

- 1.6 Do you plan to accept out-of-state waste at your facility? If Yes, what percent of your projected waste stream will be from out-of-state? \_\_\_\_\_%  Yes  No

**Section 2: Regional Planning Goal Conformance**

Please provide information as to how your proposed facility will help to support or conform with the goals and/or objectives of the Panhandle Regional Solid Waste Management Plan

**Panhandle Regional Solid Waste Plan Goal #1**

Develop programs to facilitate the development and maintenance of local source reduction, waste minimization, recycling, and composting programs within the region, thus, conserving disposal capacity and resources to the extent technically and economically feasible. (NOTE: Recycling includes yard waste composting)

- 2.2.1. Will your facility divert for recycling or beneficial reuse any of the following items? (if additional space is needed, attached an additional sheet titled "Planning Goal #2.1.1" in the upper right-hand corner of the page)

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> White Goods         | <input type="checkbox"/> Yard Waste                     |
| <input checked="" type="checkbox"/> Scrap Metal         | <input type="checkbox"/> Construction/Demolition Debris |
| <input checked="" type="checkbox"/> Tree limbs or brush | <input type="checkbox"/> Other (please describe)        |

Describe "Other" below:

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- 2.2.2. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.1.2")

The City of Shamrock MSW Landfill will support the regional planning goal by utilizing  
progress in waste reduction, minimization, and reuse. Exercise waste management in a  
behavior that encourages cost-effective diversion, assemblage, and final disposal.  
Enhance resource assemblage and deflection.

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**Regional Solid Waste Plan  
Performance Checklist**

**Panhandle Regional Solid Waste Plan Goal #2**

Develop regional cost-effective, efficient and environmentally-suitable solid waste management systems.

- 2.2.1. Per your operating plan, describe how you will achieve environmentally-suitable cost effectiveness and efficiency with your facility? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.1.")

The City of Shamrock MSW Landfill will evaluate secondary options for cost effective and agreeable measures to divert green waste. The city will consider implementing programs in the future to help reduce the disposal volume of unnecessary items and initiate long-term strategies that include counsel for future funding policies.

- 2.2.2. How will your facility customer base benefit from any efficiencies or cost effectiveness? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.2.")

The customer base will benefit by having their cost reduced by the city implementing measures to divert green waste and reduce unnecessary waste disposal at the landfill.

- 2.2.3. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.3.")

Yes, the City of Shamrock MSW facility will support the regional planning goal by adhering to any future recommendations and ideas that the Regional Planning Commission implements to achieve planning goals.

**Regional Solid Waste Plan  
Performance Checklist**

**Panhandle Regional Solid Waste Plan #3**

Develop programs to assist regional and local entities in controlling and stemming illegal and improper disposal practices.

- 2.3.1. What measures will you take to make your services conveniently accessible to the public? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.1.")

The City of Shamrock will assess the waste management needs on a short, medium,  
and long-term basis to optimize the proficiency and performance of their existing waste  
services that are provided. The city will provide convenient hours of operation to the  
public and ease of accessibility to the disposal sites located in the landfill.

- 2.3.2. As part of your operating plan, would you be willing to accept waste from locally-sponsored litter and illegal dumping clean-up projects at no cost or at significantly reduced costs? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.2.")

Yes, this aids in community cleanliness and pride, and is needed for vector control.

- 2.3.3. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.3.")

Yes, the City of Shamrock MSW facility will support the regional planning goal by  
providing awareness to local citizens of proper waste disposal methods, as well as the  
negative impacts associated with illegal and improper disposal practices.

**Regional Solid Waste Plan  
Performance Checklist**

**Panhandle Regional Solid Waste Plan #4 (Land Use Compatibility)**

Maintain administrative structures that will ensure at least some measure of local control over future systems operations and provide an element of control over siting of future landfills in the region.

2.4.1. Is the site of your proposed facility in an area that has been zoned by one of the region's local governments?  Yes  No

2.4.2. If Yes, which local government zoning standards will this facility have to comply with? Also, attached documentation from the zoning entity indicating that the proposed facility is in compliance with the standards.

The proposed facility will comply with the City of Shamrock's zoning standards.

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2.4.3. Describe the current land use within 1/2 mile of the proposed facility site?

To the North: Existing MSW Landfill and natural pasture/grazing cattle.

To the South: Natural pasture/grazing cattle.

To the East: Natural pasture/grazing cattle.

To the West: Natural pasture/grazing cattle.

2.4.4. If the proposed facility is a landfill, what will be the maximum fill height of the facility?

The maximum fill height will be natural grade, as the facility is utilizing trench system as the method for disposal. Cover material will come from the new pits that are to be constructed once the current pit being used is at capacity.

2.4.5. When the maximum fill height is reached, how will the facility compare to surrounding elevation features (surrounding meaning, "within a two-mile circumference of the facility")? Will this be the most prominent elevation feature within a 2-mile radius? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.5.")

The maximum fill height will be natural at grade; therefore, this will not be the most prominent elevation feature within a 2-mile radius. Elevation features of the proposed landfill will have no impact on the surrounding area.

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**Regional Solid Waste Plan  
Performance Checklist**

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- 2.4.6. If the proposed facility is a transfer station or some "Other" type of MSW facility, how will it be built and operated to correspond with the way the property adjacent to the proposed facility site is currently being used? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.6.")

The proposed facility will be built using a trench system like the existing adjacent landfill and will be operated in the same manner as the adjacent landfill.

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- 2.4.7. Will vehicular traffic into and out of the proposed facility disrupt or impact the area's existing traffic patterns? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.7.")

Vehicular traffic into and out of the proposed facility will not disrupt or impact the area's existing traffic pattern, as the proposed facility is adjacent to the existing landfill.

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- 2.4.8. To the best of your knowledge, is there **any** pre-existing, planned development of the property adjacent to the proposed facility site? If Yes, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.8.")

Yes  
 No

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**Regional Solid Waste Plan  
Performance Checklist**

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2.4.9. Do you believe your proposed facility is compatible with the current land uses surrounding the proposed site? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #4.8")

Yes, the proposed facility is compatible with the current land use, as the existing City of Shamrock landfill is located directly north of the proposed site.

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**Panhandle Regional Solid Waste Plan Goal #5**

Regionally, ensure continued, adequate disposal capability

2.5.1. If the proposed facility is other than a landfill, where will the stored or processed wastes be taken for disposal?

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2.5.2. If the proposed facility is other than a landfill, what, if any, type of measures will be taken to minimize, reduce, or recycle the waste before it is hauled off for disposal?

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2.5.3. If the proposed facility is a landfill, what type of measures will be taken to compact the landfilled waste? What is your projected compaction ratio? 1,117 pounds per cubic yard. What type of equipment will you use to achieve this compaction ratio?  
Caterpillar 953 track loader and 755 John Deere track loader or equal.

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**Regional Solid Waste Plan  
Performance Checklist**

2.5.4. Do you plan on using Alternative Daily Cover materials or other space-savings measures that might extend the useful life of your landfill? If "Yes", please explain.

No, there will be no alternative material used for daily cover.

2.5.5. Do you believe that your proposed facility will contribute toward this regional goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.5.5.")

Yes, the proposed facility will contribute toward the regional goal by employing above standard compaction methods, allowing adequate disposal capacity to be accomplished.

**Section 3: Certifications**

I hereby certify that the information contained herein is, to the best of my knowledge complete and accurate and that the information in fact represents the MSW facility for which this entity is requesting a TCEQ registration or permit.

Name of Applicant' Chief Administrative Officer: Tommye Cole

Title of Chief Administrative Officer: City Manager

  
Signature of Chief Administrative Officer

March 20, 2020  
Date

**NOTE:**

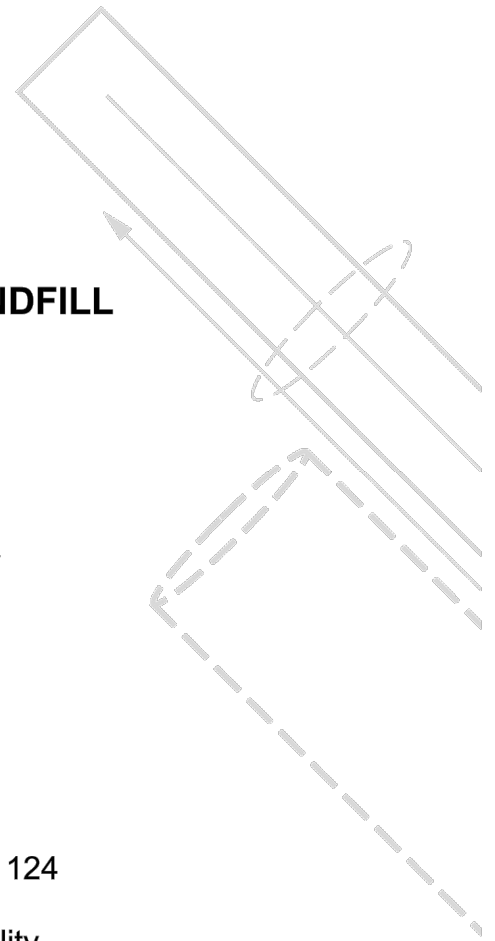
PLEASE COMPLETE THIS FORM AS FULLY AND AS ACCURATELY AS POSSIBLE. YOUR COMPLETED CHECKLIST WILL BE SUBMITTED TO THE PERMITS SECTION OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ALONG WITH THE REGIONAL SOLID WASTE MANAGEMENT ADVISORY'S COMMITTEE'S CONFORMANCE REVIEW ASSESSMENT.



**OJD Engineering**

*The Benchmark*

F#-4393



**CITY OF SHAMROCK MUNICIPAL LANDFILL**

116 W. 2<sup>nd</sup> Street  
Shamrock, Texas 79079

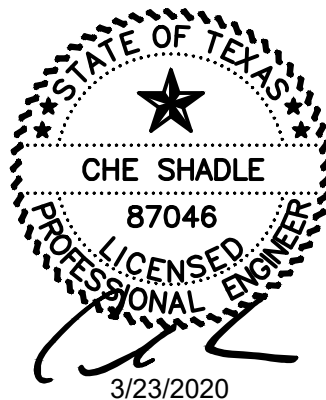
**TYPE IAE  
SOLID WASTE  
MUNICIPAL SOLID WASTE FACILITY  
PERMIT APPLICATION  
PART I**

Submitted on:  
December 2019  
March 2020 NOD

Submitted to:  
Municipal Solid Waste Permits Section, MC 124  
Waste Permits Division  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

Submitted for:  
City of Shamrock  
Lynn Ramsey, Mayor

Submitted by:  
Che Shadle, PE  
OJD Engineering, LP

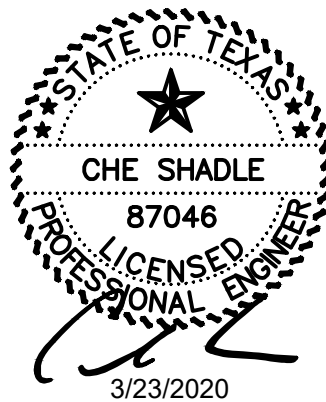


**F-4393**

Wellington | Amarillo | Wolfforth

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## **PART I PERMIT APPLICATION**

### **a) GENERAL**

- 1) Part I of the application consists of information that is required regardless of the type of facility involved. All items required by this section, §281.5 of this title (relating to Application for Wastewater Discharge, Underground Injection, Municipal Solid Waste, Radioactive Material, Hazardous Waste, and Industrial Solid Waste Management Permits) and §305.45 of this title (relating to Contents of Application for Permit) must be submitted.
- 2) Submittal of Part I by itself will not necessarily require publication of a notice of intent to obtain a municipal solid waste (MSW) permit under the provisions of Texas Health and Safety Code (THSC), §361.0665, or a notice concerning receipt of a permit application under the provisions of THSC, §326.079.
- 3) For a permit application, submittal of Part I only will not allow a permit application to be declared administratively complete under the provisions of THSC, §631.068; §281.3 of this title (relating to Initial Review); and §281.18 of this title (relating to Applications Returned).

### **b) FACILITY LOCATION**

- 1) The site is located 1 1/2 miles northwest of the City of Shamrock on County Road 15.
- 2) The site is accessible to the citizens of Shamrock by the use of the westbound access road of I-40 and a paved county road that leads directly to the site. These roads are all-weather roads, and should provide a safe and expedient roadway any time of year. Also, the site is approachable from the east and west via an unpaved county road. The road will be adequate for dry conditions.
- 3) The longitudinal and latitudinal geographic coordinates for the facility are:  
Long – 35° 14' 53.99" N Lat – 100° 16' 19.13" W

### **c) MAPS**

- 1) General. All maps that are provided in this application include all the requirements set forth in §305.45
- 2) General location maps. A general location map has been provided with a scale of one-half inch equals one mile as Appendix 7.

- 3) Land ownership map with accompanying landowner list within a ¼ mile of the facility is provided as Appendix 8.

**d) PROPERTY OWNER INFORMATION**

- 1) Legal Description of the facility is provided as Appendix 9:
- 2) Attached is a property owner affidavit signed by the owner that includes the following:
  - A) acknowledgment that the State of Texas may hold the property owner of record either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility;
  - B) for facilities where waste will remain after closure, acknowledgement that the owner has a responsibility to file with the county deed records an affidavit to the public advising that the land will be used for a solid waste facility prior to the time that the facility actually begins operating as a municipal solid waste landfill facility, and to file a final recording upon completion of disposal operation and closure of the landfill units in accordance with §330.19 of this title (relating to Deed Recordation); and
  - C) acknowledgement that the facility owner or operator and the State of Texas shall have access to the property during the active life and post-closure care period, if required, after closure for the purpose of inspection and maintenance.

**e) LEGAL AUTHORITY**

Verification of the City of Shamrock's legal status as required by §281.5 of this title has been verified. There are no individuals with 20% or more ownership in the facility.

**f) EVIDENCE OF COMPETENCY**

- 1) a list of all of the Texas solid waste sites the City of Shamrock has owned or operated within the last ten years has been Municipal Solid Waste Facility Permit Application No. MSW-2281, City of Shamrock, Wheeler County, Texas. Former City of Shamrock MSW Permit No. 244 was revoked on 6/6/2019.

- 2) The City of Shamrock has no direct financial interest in any other states, territories, or countries.
- 3) The executive director shall require that a licensed solid waste facility supervisor, as defined in Chapter 30 of this title (relating to Occupational Licenses and Registrations), be employed before commencing facility operation. The licensed solid waste facility supervisor for the site is Tommye Cole, License Number – SW0006995, Expiration Date – 12/07/2020.
- 4) Tommye Cole – City Manager MSW License #SW0006995
- 5) The City of Shamrock will use a Caterpillar 953 front end loader or equal, a John Deere 750 Track Loader or equal for primary operations at the site
- 6) Not applicable

**g) APPOINTMENTS**

The City of Shamrock shall provide documentation that the person signing the application meets the requirements of §305.44 of this title (relating to Signatories to Applications). If the authority has been delegated, provide a copy of the document issued by the governing body of the owner or operator authorizing the person that signed the application to act as agent for the owner or operator.

**h) APPLICATION FEES**

- 1) In accordance with §305.53 of this title (relating to Application Fee), the application fee is \$2,050.
- 2) Not applicable

LIST OF ATTACHMENTS

Appendix 1	Supplemental Technical Report
Appendix 7	General Location Map
Appendix 8	Landownership Map & Mailing Labels
Appendix 9	Legal Description
Appendix 39	Copy of Check



Facility Name: City of Shamrock Landfill  
Permittee/Registrant Name: City of Shamrock  
MSW Authorization #:2281  
Initial Submittal Date: 7/1/1999  
Revision Date: 12/1/2019



**Texas Commission on Environmental Quality**  
**Part I Form for New Permit/Registration and**  
**Amendment Applications for an MSW Facility**

**1. Reason for Submittal**

- Initial Submittal                       Notice of Deficiency (NOD) Response

**2. Authorization Type**

- Permit     Registration

**3. Application Type**

- New     Major Amendment  
 Major Amendment (Limited Scope)

**4. Application Fees**

- Pay by Check                                       Online Payment

If paid online, e-Pay Confirmation Number:

**5. Application URL**

Is the application submitted for Type I Arid Exempt (AE) and/or Type IV AE facility?

- Yes                                       No

If the answer is "No", provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.  
http://

**6. Application Publishing**

Party Responsible for Publishing Notice:

- Applicant                                       Agent in Service                                       Consultant

Contact Name: **Tommye Cole**

Title: **City Manager**

### 7. Alternative Language Notice

Is an alternative language notice required for this application? (For determination refer to Alternative Language Checklist on the Public Notice Verification Form TCEQ-20244-Waste)

Yes  No

### 8. Public Place Location of Application

Name of the Public Place: **Shamrock City Hall**

Physical Address: **116 W. 2<sup>nd</sup> Street**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area code) Telephone Number: **806.256.3281**

### 9. Consolidated Permit Processing

Is this submittal part of a consolidated permit processing request, in accordance with 30 TAC Chapter 33?

Yes  No  Not Applicable

If "Yes", state the other TCEQ program authorizations requested:

### 10. Confidential Documents

Does the application contain confidential documents?

Yes  No

If "Yes", cross-reference the confidential documents throughout the application and submit as a separate attachment in a binder clearly marked "CONFIDENTIAL."

### 11. Permits and Construction Approvals

Permit or Approval	Received	Pending	Not Applicable
Hazardous Waste Management Program under the Texas Solid Waste Disposal Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Underground Injection Control Program under the Texas Injection Well Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Program under the Clean Water Act and Waste Discharge Program under Texas Water Code, Chapter 26	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Prevention of Significant Deterioration Program under the Federal Clean Air Act (FCAA). Nonattainment Program under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Emission Standards for Hazardous Air Pollutants Preconstruction Approval under the FCAA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Ocean Dumping Permits under the Marine Protection Research and Sanctuaries Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Permit or Approval	Received	Pending	Not Applicable
Dredge or Fill Permits under the CWA	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Licenses under the Texas Radiation Control Act	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (describe)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### 12. General Facility Information

Facility Name: **City of Shamrock MSWLF**

Contact Name: **Tommye Cole**

Title: **City Manager**

MSW Authorization No. (if available): **2281**

Regulated Entity Reference No. (if issued)\*: **RN101507325**

Physical or Street Address (if available): **116 W 2<sup>nd</sup> Street**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.3281**

Latitude (Degrees, Minutes Seconds): **35° 15' 00" N**

Longitude (Degrees, Minutes Seconds): **100° 16' 08" W**

Benchmark Elevation (above mean sea level): **2315ft.**

Provide a description of the location of the facility with respect to known or easily identifiable landmarks: **1.5 miles NW of the City of Shamrock on County Road 15.**

Detail access routes from the nearest United States or state highway to the facility: **The facility is located 1.5 miles NW of the City of Shamrock and the intersection of Interstate 40 and US Highway 83 on County Road 15.**

\*If this number has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

### 13. Facility Type(s)

Type I

Type IV

Type V

Type I AE

Type IV AE

Type VI

### 14. Activities Conducted at the Facility

Storage

Processing

Disposal

### 15. Facility Waste Management Unit(s)

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Landfill Unit(s) | <input type="checkbox"/> Incinerator(s)                   |
| <input type="checkbox"/> Class 1 Landfill Unit(s)    | <input type="checkbox"/> Autoclave(s)                     |
| <input type="checkbox"/> Process Tank(s)             | <input type="checkbox"/> Refrigeration Unit(s)            |
| <input type="checkbox"/> Storage Tank(s)             | <input type="checkbox"/> Mobile Processing Unit(s)        |
| <input type="checkbox"/> Tipping Floor               | <input type="checkbox"/> Type VI Demonstration Unit       |
| <input type="checkbox"/> Storage Area                | <input type="checkbox"/> Compost Pile(s) and/or Vessel(s) |
| <input type="checkbox"/> Container(s)                | <input type="checkbox"/> Other (Specify)                  |
| <input type="checkbox"/> Roll-off Boxes              | <input type="checkbox"/> Other (Specify)                  |
| <input type="checkbox"/> Surface Impoundment         | <input type="checkbox"/> Other (Specify)                  |

### 16. Description of Proposed Facility or Changes to Existing Facility

Provide a brief description of the proposed activities if application is for a new facility, or the proposed changes to an existing facility or permit conditions if the application is for an amendment.

**The City of Shamrock is proposing an expansion of the 24.43 acre existing landfill to the adjoining 25.00 acres of land located to the south.**

### 17. Facility Contact Information

**Site Operator (Permittee/Registrant) Name: Tommy Cole**

Customer Reference No. (if issued)\*: **CN600638829**

Contact Name: **Tommy Cole**

Title: **City Manager**

Mailing Address: **116 W. 2<sup>nd</sup> Street**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.3281**

Email Address: **cityhall@centramedia.net**

TX Secretary of State (SOS) Filing Number:

\*If the Site Operator (Permittee/Registrant) does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the Customer.

**Operator Name<sup>1</sup>:**

Customer Reference No. (if issued)\*:

Contact Name: Title:

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

Email Address:

TX SOS Filing Number:

<sup>1</sup>If the Operator is the same as Site Operator/Permittee type "Same as "Site Operator (Permittee/Registrant)".

\*If the Operator does not have this number, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Operator as the customer.

**Consultant Name (if applicable): OJD Engineering, LP F-4393**

Texas Board of Professional Engineers Firm Registration Number:

Contact Name: **Che Shadle** Title: **PE/Vice President**

Mailing Address: **2420 Lakeview Drive**

City: **Amarillo** County: **Potter** State: **Texas** Zip Code: **79109**

(Area Code) Telephone Number: **806.352.7117**

E-Mail Address: **che.shadle@ojdengineering.com**

**Agent in Service Name (required only for out-of-state):**

Mailing Address:

City: County: State: Zip Code:

(Area Code) Telephone Number:

E-Mail Address:

**18. Facility Supervisor's License**

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations, will obtain prior to commencing facility operations.

Class A  Class B

**19. Ownership Status of the Facility**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Corporation         | <input type="checkbox"/> Limited Partnership        | <input type="checkbox"/> Federal Government |
| <input type="checkbox"/> Individual          | <input checked="" type="checkbox"/> City Government | <input type="checkbox"/> Other Government   |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> County Government          | <input type="checkbox"/> Military           |
| <input type="checkbox"/> General Partnership | <input type="checkbox"/> State Government           | <input type="checkbox"/> Other (Specify):   |

Does the Site Operator (Permittee/Registrant) own all the facility units and all the facility property?

Yes                       No

If "No", provide the information requested below for any additional ownership.

**Owner Name:**

Street or P.O. Box:

City:                      County:                      State:                      Zip Code:

(Area Code) Telephone Number:

Email Address (optional):

**20. Other Governmental Entities Information**

**Texas Department of Transportation District: Childress**

District Engineer's Name: **Martin R. Smith**

Street Address or P.O. Box: **7599 US 287**

City: **Childress** County: **Childress** State: **Texas** Zip Code: **79201**

(Area Code) Telephone Number: **940.937.2571**

E-Mail Address (optional):

**The Local Governmental Authority Responsible for Road Maintenance (if applicable): Wheeler County**

Contact Person's Name: **Richard Kincannon**

Street Address or P.O. Box: **P.O. Box 69**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.2852**

E-Mail Address (optional):

**City Mayor Information**

City Mayor's Name: **Aaron Shannon**

Office Address: **116 W. 2<sup>nd</sup> Street**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.3281**

E-Mail Address (optional):

**City Health Authority: Shamrock General Hospital**

Contact Person's Name: **Dr. Manuel Juson**

Street Address or P.O. Box: **1000 S. Main Street**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.2114**

E-Mail Address (optional):

**County Judge Information**

County Judge's Name: **Jerry Hefley**

Street Address or P.O. Box: **401 S. Main Street**

City: **Wheeler** County: **Wheeler** State: **Texas** Zip Code: **79096**

(Area Code) Telephone Number: **806.826.5961**

E-Mail Address (optional):

**County Health Authority: Texas Department of State Health Services**

Contact Person's Name: **Dr. John Hunt**

Street Address or P.O. Box: **609 S. Main**

City: **Shamrock** County: **Wheeler** State: **Texas** Zip Code: **79079**

(Area Code) Telephone Number: **806.256.3655**

E-Mail Address (optional):

**State Representative Information**

District Number: **68**

State Representative's Name: **Drew Springer, Jr.**

District Office Address: **110 W. Main St., Suite F**

City: **Gainsville** County: **Cooke** State: **Texas** Zip Code: **76240**

(Area Code) Telephone Number: **940.580.1770**

E-Mail Address (optional):

**State Senator Information**

District Number: **31**

State Senator's Name: **Kel Seliger**

District Office Address: **P.O. Box 9155**

City: **Amarillo** County: **Potter** State: **Texas** Zip Code: **79105**

(Area Code) Telephone Number: **806.374.8994**

E-Mail Address (optional):

**Council of Government (COG) Name: Panhandle Regional Planning Commission**

COG Representative's Name: **Kyle Ingham**

COG Representative's Title: **Executive Director**

Street Address or P.O. Box: **P.O. Box 9257**

City: **Amarillo** County: **Potter** State: **Texas** Zip Code: **79105**

(Area Code) Telephone Number: **806.372.3381**

E-Mail Address (optional): **kingham@theprpc.org**

**River Basin Authority Name: Red River Authority**

Contact Person's Name: **Cole Camp**

Watershed Sub-Basin Name: **North Fork Red River**

Street Address or P.O. Box: **3000 Hammon Road**

City: **Wichita Falls** County: **Wichita** State: **Texas** Zip Code: **76310**

(Area Code) Telephone Number: **940.723.2236**

E-Mail Address (optional):

**Coastal Management Program**

Is the facility within the Coastal Management Program boundary?

Yes  No

**U.S. Army Corps of Engineers**

The facility is located in the following District of the U.S. Army Corps of Engineers:

Albuquerque, NM  Galveston, TX  
 Ft. Worth, TX  Tulsa, OK

**Local Government Jurisdiction**

Within City Limits of: **Shamrock**

Within Extraterritorial Jurisdiction of: **Shamrock**

Is the facility located in an area in which the governing body of the municipality or county has prohibited the storage, processing or disposal of municipal or industrial solid waste?

Yes  No

(If "Yes", provide a copy of the ordinance or order as an attachment):



### Signature Page

I, \_\_\_\_\_,  
(Site Operator (Permittee/Registrant)'s Authorized Signatory) \_\_\_\_\_ (Title)

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

-----  
TO BE COMPLETED BY THE OPERATOR IF THE APPLICATION IS SIGNED BY AN AUTHORIZED REPRESENTATIVE FOR THE OPERATOR

I, \_\_\_\_\_, hereby designate \_\_\_\_\_  
(Print or Type Operator Name) (Print or Type Representative Name)

as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and/or appear for me at any hearing or before the Texas Commission on Environmental Quality in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

\_\_\_\_\_  
Printed or Typed Name of Operator or Principal Executive Officer

\_\_\_\_\_  
Signature  
-----

SUBSCRIBED AND SWORN to before me by the said \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

My commission expires on the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
Notary Public in and for

\_\_\_\_\_ County, Texas

(Note: Application Must Bear Signature & Seal of Notary Public)

## Part I Attachments

(See Instructions for P.E. seal requirements.)

### Required Attachments

### Attachment No.

Supplementary Technical Report

Property Legal Description

Property Metes and Bounds Description

Facility Legal Description

    Facility Metes and Bounds Description

    Metes and Bounds Drawings

    On-Site Easements Drawing

Land Ownership Map

Land Ownership List

    Electronic List or Mailing Labels

Texas Department of Transportation (TxDOT) County Map

General Location Map

General Topographic Map

Verification of Legal Status

Property Owner Affidavit

Evidence of Competency

### Additional Attachments as Applicable- Select all those apply and add as necessary

TCEQ Core Data Form(s)

Signatory Authority Delegation

Fee Payment Receipt

Confidential Documents

Waste Storage, Processing and Disposal Ordinances

Final Plat Record of Property

Certificate of Fact (Certificate of Incorporation)

Assumed Name Certificate

# **Instructions for Part I Form for New Permit/Registration and Amendment Applications for a Municipal Solid Waste (MSW) Facility**

## **Form Availability**

This form, as well as other MSW documents and rules are available on the TCEQ Internet site at [http://www.tceq.texas.gov/search\\_forms.html](http://www.tceq.texas.gov/search_forms.html). The number for this form is 0650. For further instructions regarding completion of this form, send an e mail to [mswper@tceq.texas.gov](mailto:mswper@tceq.texas.gov) or call 512-239-2335.

The original application and all copies for New Applications and Major Amendments should be submitted to:

Municipal Solid Waste Permits Section, MC 124  
Waste Permits Division  
Texas Commission on Environmental Quality  
P. O. Box 13087  
Austin, Texas 78711-3087

## **Application Submittal**

See 30 Texas Administrative Code (30 TAC) Section (§)305.43(c) for who can submit the application.

The complete application should be typewritten or printed neatly in black ink.

For a new permit/registration and major amendment to a permit application, submit:

1. The original application plus three (3) complete copies (prepared in accordance with 30 TAC §330.57) which includes:
  - a. the TCEQ Core Data Form (See Attachment as applicable);
  - b. the Application Table of Contents and Title Pages for Parts I, II, III, and IV shall be signed and sealed in accordance with 30 TAC §330.57(g)(2) & (3);
  - c. the Application Part I Form;
  - d. the Application Part I Form Attachments; and
  - e. Parts II through IV
2. If fee is paid by check, a check for payment of application fees transmitted directly to the TCEQ Financial Administration Division with a photocopy of the check included in the original application; and
3. Pre-printed mailing labels of the adjacent landowners or an electronic mailing list on a CD in Microsoft Word compatible format.

For all submittals, provide the Facility Name, Permittee/Registrant Name, MSW Authorization No., and dates in the form header. For initial submittals, leave "MSW Authorization No." in the form header blank.

For all notice of deficiency responses (NODs), (administrative and/or technical), submit the original plus three (3) copies of the response package which includes:

1. page 1 of this form to indicate that the submittal is for "Notice of Deficiency Response";
2. all revised pages of this form and/or attachments to Part I;
3. a new Signature Page; and
4. revised pages of Parts II through IV; and
5. marked (redline/strikeout) copy of the revised pages.

### **1. Reason for Submittal**

Select **ONE** box that indicates if this form is being submitted in conjunction with an initial application or as part of an NOD response.

### **2. Authorization Type**

Select **ONE** box that indicates the type of authorization sought.

### **3. Application Type**

Select **ONE** box that indicates the application type for the submittal.

### **4. Application Fees**

For a new permit, registration or an amendment application, the application fee is \$150. Select **ONE** box that indicates the method of payment of application fee for the submittal.

Payment may be made online using TCEQ e-Pay at <https://www3.tceq.texas.gov/epay/>. If payment is made online, enter the e-Pay confirmation number.

If fee is paid by check, send payment directly to the following address:

Financial Administration Division, MC 214  
Texas Commission on Environmental Quality  
P. O. Box 13087  
Austin, Texas 78711-3087

In addition, include a photocopy of the check in the original application submitted to the MSW Permits Section.

### **5. Application URL**

If the application is for a Type I AE and/or Type IV AE landfill, the URL address of a publicly accessible internet web site is **not** required.

For any other application and/or facility type, provide the URL address of a publicly accessible internet web site where the application and all revisions to that application will be posted.

### **6. Application Publishing**

Select **ONE** box that indicates the party responsible for publishing all public notices for this application.

## 7. Alternative Language Notice

For certain permit, registration and amendment applications, public notice in an alternate language is required. If an elementary school or middle school nearest to the facility offers a bilingual program, notice may be required to be published in an alternative language. The Texas Education Code, upon which the TCEQ alternative language notice requirements are based, trigger a bilingual education program to apply to an entire school district should the requisite alternative language speaking student population exist. However, there may not exist any bilingual students at a particular school within a district which is required to offer the bilingual education program. For this reason, the requirement to publish notice in an alternative language is triggered if the nearest elementary or middle school, as a part of a larger school district, is required to make a bilingual education program available to qualifying students and either the school has students enrolled at such a program onsite, or has students who attend such a program at another location in satisfaction of the school's obligation to provide such a program as a member of a triggered district.

It is the burden of the applicant to demonstrate compliance with alternative language notice requirements. To assist you in meeting these requirements, the TCEQ Office of Chief Clerk will provide a Public Notice Verification Form (TCEQ-20244-Waste). You must follow instructions provided by the Office of Chief Clerk regarding completion and submittal of the Public Notice Verification Form indicating your compliance with the requirements regarding publication in an alternative language.

If it is determined that an alternative language notice is required, the applicant is responsible for ensuring that the publication in the alternate language is complete and accurate in that language. Electronic versions of the Spanish template examples are available from the TCEQ to help the applicant complete the publication in the alternative language.

More information about the Alternative Language Notice requirement and the Public Notice Verification Form are available on the TCEQ internet site at:

[http://www.tceq.texas.gov/permitting/waste\\_permits/msw\\_permits/msw\\_notice.html](http://www.tceq.texas.gov/permitting/waste_permits/msw_permits/msw_notice.html).

## 8. Public Place Location of Application

Identify a public place in the county in which the facility is located or proposed to be located, at which a copy of the application will be available for review and copying (e.g. Public Library, Courthouse, City Hall).

## 9. Consolidated Permit Processing

For consolidated permit process, refer to 30 TAC Chapter 33.

## 10. Confidential Documents

The Commission has a responsibility to provide a copy of each application to other agencies and to interested persons upon request and to safeguard confidential material from becoming public knowledge. Thus, the Commission requests that the applicant (1) be prudent in the designation of material as confidential and (2) submit such material only when it might be essential to the staff in their development of a recommendation.

The Commission suggests that the applicant **NOT** submit confidential information as part of the permit or registration application. However, if this cannot be avoided, the confidential information should be described in non-confidential terms throughout the application, cross-referenced, and submitted as a separate document or binder, and clearly marked "CONFIDENTIAL."

Reasons of confidentiality include the concept of trade secrecy and other related legal concepts which give a business the right to preserve confidentiality of business information to obtain or retain advantages from its right in the information. This includes authorizations under, 18 U.S.C. 1905 and special rules cited in 40 CFR Chapter I, Part 2, Subpart B.

The applicant may elect to withdraw any confidential material submitted with the application. However, the permit cannot be issued, amended, or modified if the application is incomplete.

### **11. Permits and/or Construction Approvals**

Select **ALL** permits or construction approvals received or applied for under any of the programs listed in this Section.

### **12. General Facility Information**

Provide general facility information as listed under this Section. Facility name provided in this Section should match the Regulated Entity Name (Item #23) in the TCEQ Core Data Form.

If the Regulated Entity Reference Number has not been issued for the facility, complete a TCEQ Core Data Form and submit it with this application.

### **13. Facility Type**

Select **ALL** boxes that apply to the facility. For facility types, refer to 30 TAC §330.5.

### **14. Activities Conducted at the Facility**

Select **ALL** boxes that apply to the facility. For definitions of "storage, processing and disposal", refer to 30 TAC §330.3.

### **15. Facility Waste Management Units**

Select **ALL** boxes that best describe the waste management units that will be authorized at the facility. If you are including other unit types, select "Other" and list them.

### **16. Description of Proposed Facility or Changes to Existing Facility**

This section is only applicable for permit amendments. If the submittal is an amendment application, provide a brief description of the specific revisions to the permit conditions and supporting documents referenced by the permit. Also, provide an explanation of why the amendment is requested.

### **17. Facility Contact Information**

#### **Site Operator (Permittee/Registrant) Name**

Enter Site Operator (Permittee/Registrant) information. Site Operator is defined in 30 TAC §330.3(142).

If the Site Operator (Permittee/Registrant) has filed with the Texas Secretary of State (SOS) as a Corporation, Limited Partnership or non-profit organization it will have been issued an SOS filing number which may be entered here. If the Site Operator (Permittee/Registrant) has not filed with the SOS, leave blank. Search for the SOS Filing number at: <http://www.sos.state.tx.us/corp/sosda/index.shtml>.

### **Operator Name**

Enter Operator information. Operator is defined in 30 TAC §330.3(101).

If the Operator has filed with the SOS as a Corporation, Limited Partnership or non-profit organization it will have been issued an SOS filing number which may be entered here. If the Operator has not filed with the SOS, leave blank. Search for the SOS Filing number at: <http://www.sos.state.tx.us/corp/sosda/index.shtml>.

### **Consultant Name**

Enter the consultant company's name and contact information responsible for the preparation of the application on behalf of the facility.

### **Agent in Service Name**

If the application is submitted by a corporation or by a person residing out of state, the applicant must register an Agent in Service or Agent of Service with the Texas SOS office and provide a complete mailing address for the agent. The agent must be a Texas resident and the address provided for them should be within the State of Texas. Provide information if this is applicable for the facility. If not, enter "Not Applicable".

## **18. Facility Supervisor's License**

Select the Type of License that the Solid Waste Facility Supervisor, as defined in 30 TAC Chapter 30, Occupational Licenses and Registrations (Figure 30 TAC §30.213(a)), will obtain prior to commencing facility operations. Include the rest of the Evidence of Competency information as an attachment (See List of Attachments).

## **19. Ownership Status of the Facility**

### **Corporation**

The Customer meets all of the following:

- Is legally incorporated under the laws of any state or country
- Is recognized as a corporation by the Texas SOS
- Has proper operating authority to operate in Texas

### **Sole Proprietorship**

This is a business that is owned by only one person and has not been incorporated. This business may:

- Be under the person's name
- Have its own name ("doing business as", or DBA)
- Have any number of employees
- Customers must register assumed names with the county

**Government**

City, County, State or Federal: This is either an agency of one of these levels of government or the governmental body itself (ex. Blanco County, City of Houston)

**General Partnership**

A general partnership is created when two or more persons associate to carry on a business for profit. A partnership generally operates in accordance with a partnership agreement, but there is no requirement that the agreement be in writing and no state-filing requirement.

**Limited Partnership (LP & LLP)**

This is a partnership formed by two or more persons, having one or more general partners and one or more limited partners. The limited partnership operates in accordance with a partnership agreement, written or oral, of the partners as to the affairs of the limited partnership and the conduct of its business. While the partnership agreement is not filed for public record, the limited partnership must file a certificate of limited partnership with the Texas SOS. The Texas SOS provides a form for the certificate of limited partnership which meets minimum state law requirements.

**Government – Other**

This is a utility district, water district, tribal government, college district, council of governments or river authority (ex. Lower Colorado River Authority).

**Other**

Fits none of the above descriptions.

**20. Other Governmental Entities Information****Texas Department of Transportation (TxDOT) District**

Enter the district name and contact information for the district in which the facility is/will be located. TxDOT's District information can be found at

<http://www.txdot.gov/inside-txdot/district.html>.

**The Local Governmental Authority Responsible for Road Maintenance**

Enter the local authority name (e.g. local TxDOT maintenance office, city or county road maintenance authority) and contact information responsible for road maintenance. As required in 30 TAC §330.145 and §330.235, on days when the facility is in operation, the Site Operator (Permittee/Registrant) or Operator shall be responsible for at least once per day cleanup of waste materials spilled along and within the right-of-way of public access roads serving the facility for a distance of two miles in either direction from any entrances used for the delivery of waste to the facility. The facility operator shall consult with the TxDOT, county, and/or local governments with maintenance authority over the roads concerning cleanup of public access roads and rights-of-way.

**City Mayor Information**

Enter the Mayor's name and contact information for the city in which the facility is/will be located.



**City Health Authority**

Enter the Health Authority's name and contact information for the city in which the facility is/will be located.

**County Judge Information**

Enter the Judge's name and contact information for the county in which the facility is/will be located.

**County Health Authority**

Enter the Health Authority's name and contact information for the county in which the facility is/will be located.

**State Representative Information**

Enter the District Number, State Representative's name and District Office information for the district in which the facility is/will be located. State Representative's information can be found at:

<http://www.house.state.tx.us/members/find-your-representative/> .

**State Senator Information**

Enter District Number, State Senator's name and District Office information for the district in which the facility is/will be located. State Senator's information can be found at:

<http://www.house.state.tx.us/members/find-your-representative/> .

**Council of Government (COG) Name**

Enter the COG name and COG Office information for the COG area in which the facility is/will be located. COG information can be found at:

[http://www.txregionalcouncil.org/display.php?page=regions\\_map.php](http://www.txregionalcouncil.org/display.php?page=regions_map.php).

**River Basin Authority Name**

Enter the River Basin Authority name and contact information for the river basin area in which the facility is/will be located. River Basin Authority information can be found at:

<http://www.tpwd.state.tx.us/landwater/water/habitats/rivers/authorities.phtml>.

**Coastal Management Program**

The boundary is established in Texas Natural Resources Code, §33.2053(k), as defined in Title 31, Texas Administrative Code, §503.1 (relating to Coastal Management Program Boundary).

**U.S. Army Corps of Engineers**

Select the box representing the District of the U.S. Army Corps of Engineers in which the facility is located.

**Local Government Jurisdiction**

Enter the name of the city or extraterritorial jurisdiction where the facility is located. If the facility is located in an area in which the governing body of the municipality or county has prohibited the disposal or processing of municipal or industrial solid waste, provide a copy of the ordinance and add it to the Additional Attachments list with the Attachment number provided.

## **Instructions - ATTACHMENTS**

### **Supplementary Technical Report**

Provide information about the facility as required under 30 TAC §305.45(a)(8). The report should be signed and sealed by a PE.

### **Property Legal Description, Property Metes and Bounds Description, Facility Legal Description, Facility Metes and Bounds Description, On-Site Easements, and Metes and Bounds Drawings**

Provide a legal description of the facility including the following information, as required by 30 TAC §330.59(d)(1).

- a. The abstract number, as maintained by the Texas General Land Office, for the surveyed tract of land.
- b. A legal description of the property and the county, book, and page number or other generally accepted identifying reference of the current ownership record.
- c. For property that is platted, the county, book, and page number or other generally accepted identifying reference of the final plat record that includes the acreage encompassed in the application and a copy of the **Final Plat Record of Property**.
- d. A boundary metes and bounds description of the property signed and sealed by a registered professional land surveyor.
- e. A boundary metes and bounds description and drawing for the facility signed and sealed by a registered professional land surveyor.
- f. A drawing showing any on-site easements at the facility.

If the facility and property boundaries are identical, one metes and bounds description and drawing is sufficient. Refer to the same attachment number for above items (d) and (e).

### **Land Ownership Map**

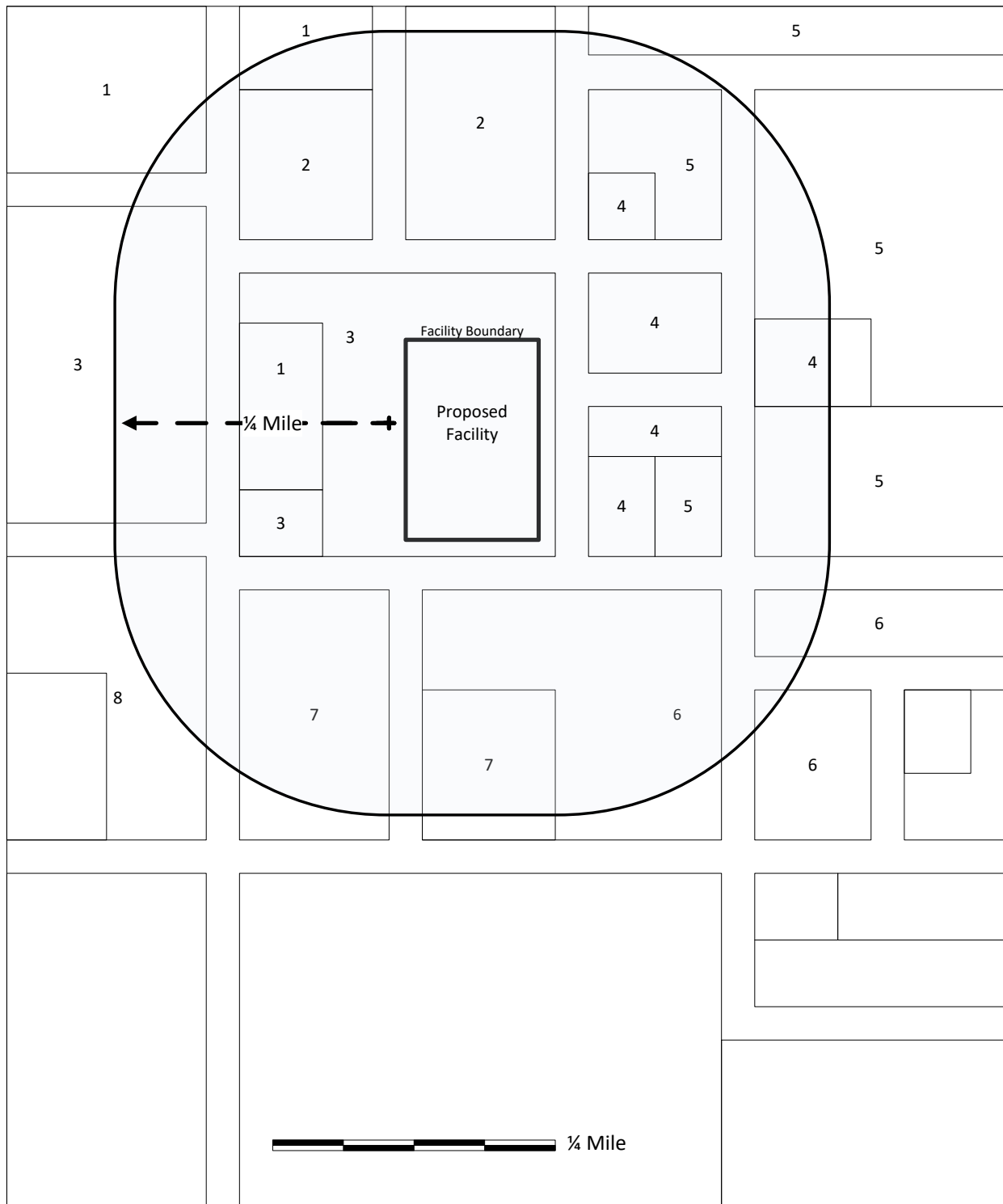
Provide a map that locates the property owned by adjacent and potentially affected landowners. The maps should show all property ownership within 1/4 mile of the facility, on-site facility easement holders, and all mineral interest ownership under the facility.

### **Land Ownership List**

Provide the adjacent and potentially affected landowners' list, keyed to the land ownership map with each property owner's name and mailing address. The list shall include all property owners within 1/4 mile of the facility, easement holders, and all mineral interest ownership under the facility. Provide the property, easement holders', and mineral interest owners' names and mailing addresses derived from the real property appraisal records as listed on the date that the application is filed.

Do not include elected officials and other interested parties that are not adjacent landowners on the landownership map, list and labels.

# Sample Land Ownership Map



### Landowners Cross-Referenced To Landowners Map

The persons identified below would be considered as affected persons.

- |   |   |
|---|---|
| 1. MR & MRS SAMUEL L DAVIS<br>11901 STAR BLVD<br>AUSTIN, TX 78759 | 5. JAXSON BREWING CO<br>4240 KNIGHTS BRIDGE<br>DALLAS TX 77640  |
| 2. MR & MRS EDWARD SANCHEZ<br>1405 LINE ROAD<br>WACO TX 76710     | 6. PLAINVIEW COMPANY<br>6647 CRAIGMONT LANE<br>HOUSTON TX 77590 |
| 3. TEX-LINK CORP<br>8411 NW HWY<br>HOUSTON TX 77590               | 7. ABC CHEMICALS INC<br>1212 ZIP STREET<br>DALLAS TX 77640      |
| 4. MR & MRS TED GOLDSBY<br>3210 LEON BLVD<br>WACO TX 76724        | 8. BIG-C BOTTLE CO<br>10024 REGIONAL BLVD<br>BOVINA TX 79402    |

### Mineral Interest Ownership Under The Facility\*

- |  |   |
|--|---|
| 1. BOB SANDERS<br>867 HOLLOWBEND ROAD<br>SEGUIN TX 78155 | 3. CAROL SANDERS<br>5309 MAPLE LANE<br>GAUSE TX 77857 |
| 2. TED HENDERSON<br>459 MAGUIRE AVE<br>HARPER TX 78631   | 4. ALICE HENDERSON<br>2222 LONGWAY<br>HDOOLE TX 76836 |

### Facility Easement Holders\*

- |  |  |
|--|--|
| 1. GULF PIPELINE<br>11200 S FANNIN<br>HOUSTON TX 77002 | 2. TEXAS STAR UTILITIES<br>8100 COMMERCE ST<br>DALLAS TX 75230 |
|--|--|

\*If available in Real Property Appraisal records as listed on the date that the application is filed.

In accordance with 30 TAC §39.5(b), submit this mailing list electronically. The electronic list must contain only the name, mailing address, city, state, and zip code with no reference to the lot number or lot location.

As an alternative to an electronic list, the applicant may elect to submit pre-printed mailing labels of this mailing list with the application. If you elect to provide the pre-printed mailing labels, use a label format that has 30 labels to a page (e.g. AVERY 5160). Each letter in the name and address must be capitalized, contain no punctuation, and the appropriate two-character abbreviation must be used for the state. Each entity listed must be blocked and spaced consecutively. Provide four complete sets of labels of the landowner list. Do not include elected officials and other interested parties that are not adjacent landowners on the landownership map, list and labels.

**Maps (Texas Department of Transportation (TxDOT) County Map, General Location Map and General Topographic Map**

Submit at least one general location map at a scale of one-half inch equals one mile. This map shall be all or a portion of a county map prepared by TxDOT. If TxDOT publishes more detailed maps of the proposed facility area, the more detailed maps shall also be included in Part I. Use the latest revision of all maps.

Submit a topographic map, ownership map, county highway map, or a map prepared by a registered professional engineer or a registered surveyor which shows the facility and each of its intake and discharge structures and any other structure or location regarding the regulated facility and associated activities. The maps must be of material suitable for a permanent record, and shall be no larger than 11 inches by 17 inches and shall be on a scale of not less than one inch equals one mile.

The map shall depict the approximate boundaries of the tract of land owned or to be used by the applicant and shall extend at least one mile beyond the tract boundaries sufficient to show the following:

- each well, spring, and surface water body or other water in the state within the map area;
- the general character of the areas adjacent to the facility, including public roads, towns and the nature of development of adjacent lands such as residential, commercial, agricultural, recreational, undeveloped, etc.;
- the location of any waste disposal activities conducted on the tract not included in the application; and
- the ownership of tracts of land adjacent to the facility and within a reasonable distance from the proposed point or points of discharge, deposit, injection, or other place of disposal or activity.

**Verification of Legal Status (30 TAC §218.5 and §330.59(e))**

Provide verification of legal status. **Normally**, this is a one-page certificate of incorporation (Certificate of Fact) issued by the Texas SOS (see additional Attachments List). If you choose to provide a verification of the legal status by another mechanism, provide it under this Attachment. Also, provide a list of all persons having over a 20% ownership in the proposed facility. See example table provided below:

**List of All Persons Having Over 20% Ownership in the Facility:**

Name	Title	Contact Information

**Property Owner Affidavit**

Provide a Property Owner Affidavit by using the appropriate format provided below.

**Signatory Name**

The name of the individual signing the affidavit. If the individual signing the affidavit is the property owner of record, enter the name on "Printed Signatory Name" line only and omit the "Signatory Capacity" and "Printed Name of Property Owner of Record" lines. Otherwise, provide all information requested below.

**Signatory Capacity**

Indicate under what authority the Signatory is signing on behalf of the property owner of record.

**Property Owner Of Record**

The person(s) who, according to public records, is/are the owner(s) of a particular property.

**For Landfills:**

<b>Property Owner Affidavit</b>	
"I/We, _____, (Printed Signatory Name)	as _____, (Signatory Capacity)
As authorized signatory for _____ (Printed Name of Property Owner of Record)	
<p>acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure and post-closure care of the facility. For a facility where waste will remain after closure, I acknowledge that I have a responsibility to file with the county deed records an affidavit to the public advertising that the land will be used for a solid waste facility prior to the time that the facility actually begins operating as a municipal solid waste landfill facility, and to file a final recording upon completion of disposal operations and closure of the landfill units in accordance with Title 30 Texas Administrative Code §330.19, Deed Restriction. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life and post-closure care period."</p>	
_____ (Property Owner's Signature)	_____ (Date)

**For Processing Facilities:**

<b>Property Owner Affidavit</b>	
"I/We, _____, (Printed Signatory Name)	as _____, (Signatory Capacity)
As authorized signatory for _____ (Printed Name of Property Owner of Record)	
<p>acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that I or the operator and the State of Texas shall have access to the property during the active life, and after closure for the purpose of inspection and maintenance, if required.</p>	
_____ (Property Owner's Signature)	_____ (Date)

**Evidence of Competency**

At a minimum, provide the information listed below to comply with 30 TAC §330.59(f) as applicable to the facility type for which the application is submitted:

List of all Texas solid waste sites that the owner and operator have owned or operated within the last ten years.

Site Name	Site Type	Permit/Reg. No.	County	Dates of Operation

List of all solid waste sites in all states, territories, or countries in which the owner and operator have a direct financial interest.



Site Name	Location	Dates of Operation	Regulatory Agency (Name & Address)

Names of the principals and supervisors of the owner's and operator's organization, together with previous affiliations with other organizations engaged in solid waste activities.

Name	Previous Affiliation	Other Organization

For landfill permit applications only, evidence of competency to operate the facility shall also include landfilling and earthmoving experience if applicable, and other pertinent experience, or licenses as described in 30 TAC Chapter 30 possessed by key personnel. The number and size of each type of equipment to be dedicated to facility operation should be specified in greater detail on Part IV of the application within the site operating plan.

Landfilling/Earthmoving Equipment Types	Personnel Experience or Licenses

For mobile liquid waste processing units, submit a list of all solid waste, liquid waste, or mobile waste units that the owner and operator have owned or operated within the past five years. Submit a list of any final enforcement orders, court judgments, consent decrees, and criminal convictions of this state and the federal government within the last five years relating to compliance with applicable legal requirements relating to the handling of solid or liquid waste under the jurisdiction of the commission or the United States Environmental Protection Agency. Applicable legal requirement means an environmental law, regulation, permit, order, consent decree, or other requirement.

Solid waste, liquid waste, or mobile waste units owned or operated within past 5 years	Texas and federal final enforcement orders, court judgments, consent decrees, and criminal convictions

## **Additional Attachments (as applicable)**

### **TCEQ Core Data Form(s)**

If the Site Operator (Permittee/Registrant) does not have a Customer Reference Number (CN Number), complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Site Operator (Permittee/Registrant) as the customer.

If Regulated Entity Reference Number (RN Number) has not been issued for the facility, complete a TCEQ Core Data Form (TCEQ-10400) and submit it with this application. List the Facility as the Regulated Entity.

If the Operator does not have a Customer Reference Number (CN Number), complete another TCEQ Core Data Form (TCEQ-10400) for the "Operator" and submit it with this application. List the Operator as the customer.

Only under the following circumstances should a TCEQ Core Data Form be submitted:

- Your information is not yet in the Central Registry database or is incomplete
- Your information has changed from what is currently in the Central Registry database
- It is requested by the agency. You can check the status of your information in Central Registry on-line at <http://www.tceq.texas.gov/goto/centralregistry/>.

### **Signatory Authority Delegation**

Provide documentation that the person signing the application meets the requirements of 30 TAC §305.44, Signatories to Applications. If the authority has been delegated, provide a copy of the document issued by the governing body of the Site Operator (Permittee/Registrant) or Operator authorizing the person that signed the application to act as agent for the owner or operator.

### **Fee Payment Receipt**

As indicated in the "Application Fees" section, include a photocopy of the check in the initial application submitted to the MSW Permits Section.

### **Confidential Documents**

The confidential information should be described in non-confidential terms throughout the application, cross-referenced, and submitted as a separate document or binder, and clearly marked "CONFIDENTIAL." Refer to Instructions, Section "Confidential Documents" for further detail.

### **Waste Storage, Processing and Disposal Ordinances**

If the facility is located in an area in which the governing body of the municipality or county has prohibited the disposal or processing of municipal or industrial solid waste, provide a copy of the ordinance.

**Final Plat Record of Property**

For the property that is platted, provide the county, book, and page number or other generally accepted identifying reference of the final plat record that includes the acreage encompassed in the application and a copy of the final plat (30 TAC §330.59(d)(1)(B)).

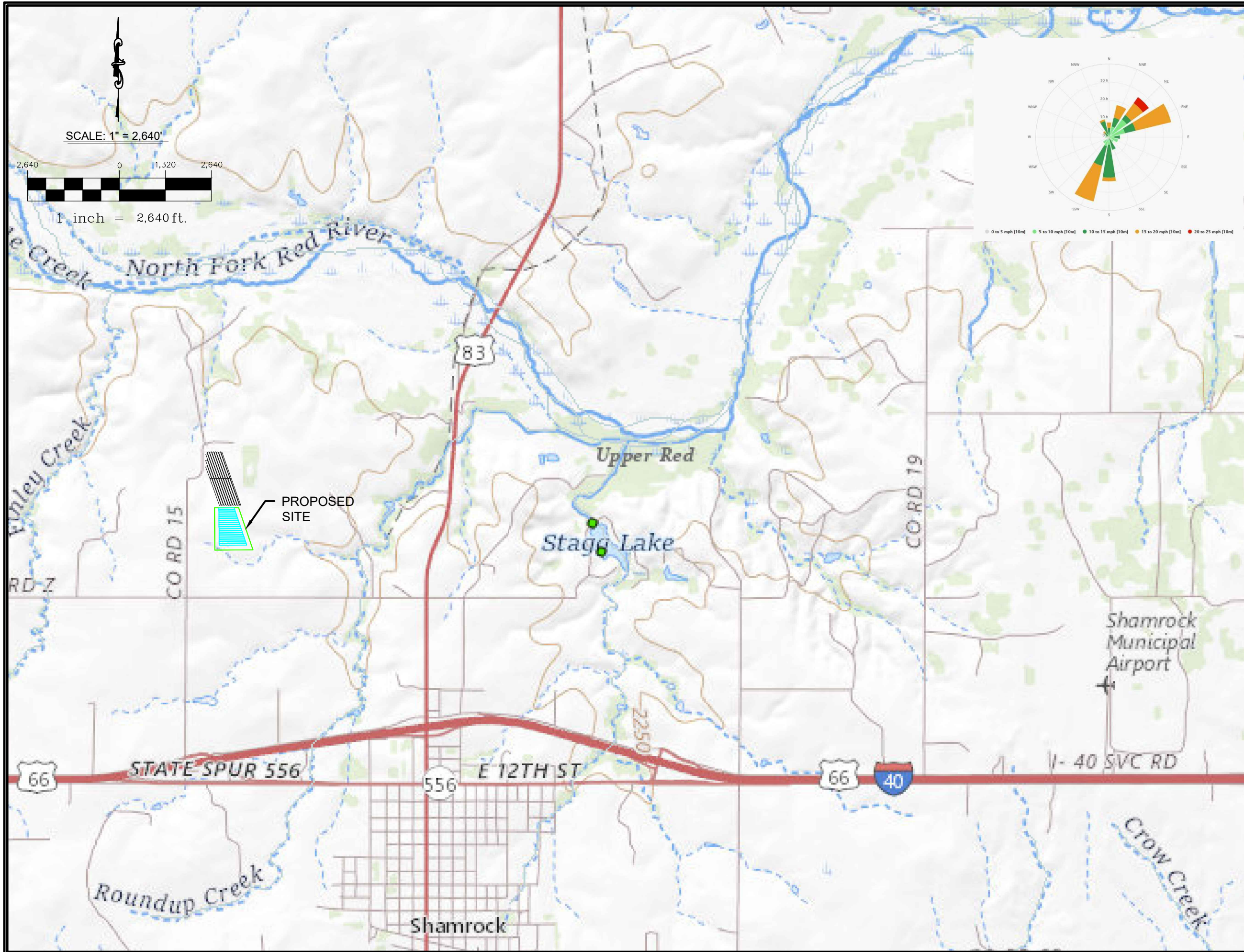
**Certificate of Fact (Certificate of Incorporation)**

The Site Operator/ (Permittee/Registrant) or Operator shall provide verification of their legal status. If you choose to provide a one-page certificate of incorporation (Certificate of Fact) issued by the secretary of state, provide it as an attachment here.

**Assumed Name Certificate**

If the Site Operator/ (Permittee/Registrant) or Operator is an individual and/or partnership doing business under an assumed name, it must attach to the application an assumed name certificate.





**OJD Engineering, L.P.**  
**The Benchmark**  
 Wellington | Amarillo | Wolfforth  
 www.OJDEngineering.com F-4393

**WELLINGTON**  
 P.O. Box 543  
 Wellington, TX 79085  
 (806) 447-2503

**WOLFFORTH**  
 502 N. Dowden Road, Ste 102  
 Wolfforth, TX 79382  
 (806) 791-2300

**AMARILLO**  
 2420 Lakewood Drive  
 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

GENERAL LOCATION MAP

STATE OF TEXAS  
 ★  
 CHE SHADLE  
 87046  
 LICENSED PROFESSIONAL ENGINEER  
 3/13/2020

Drawn By:	CCG	Drawing:
Checked By:	MCS	1
Scale:	1" = 2,640'	
Date:	March 2020	

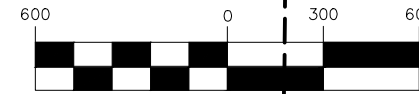


SCALE: 1" = 600'

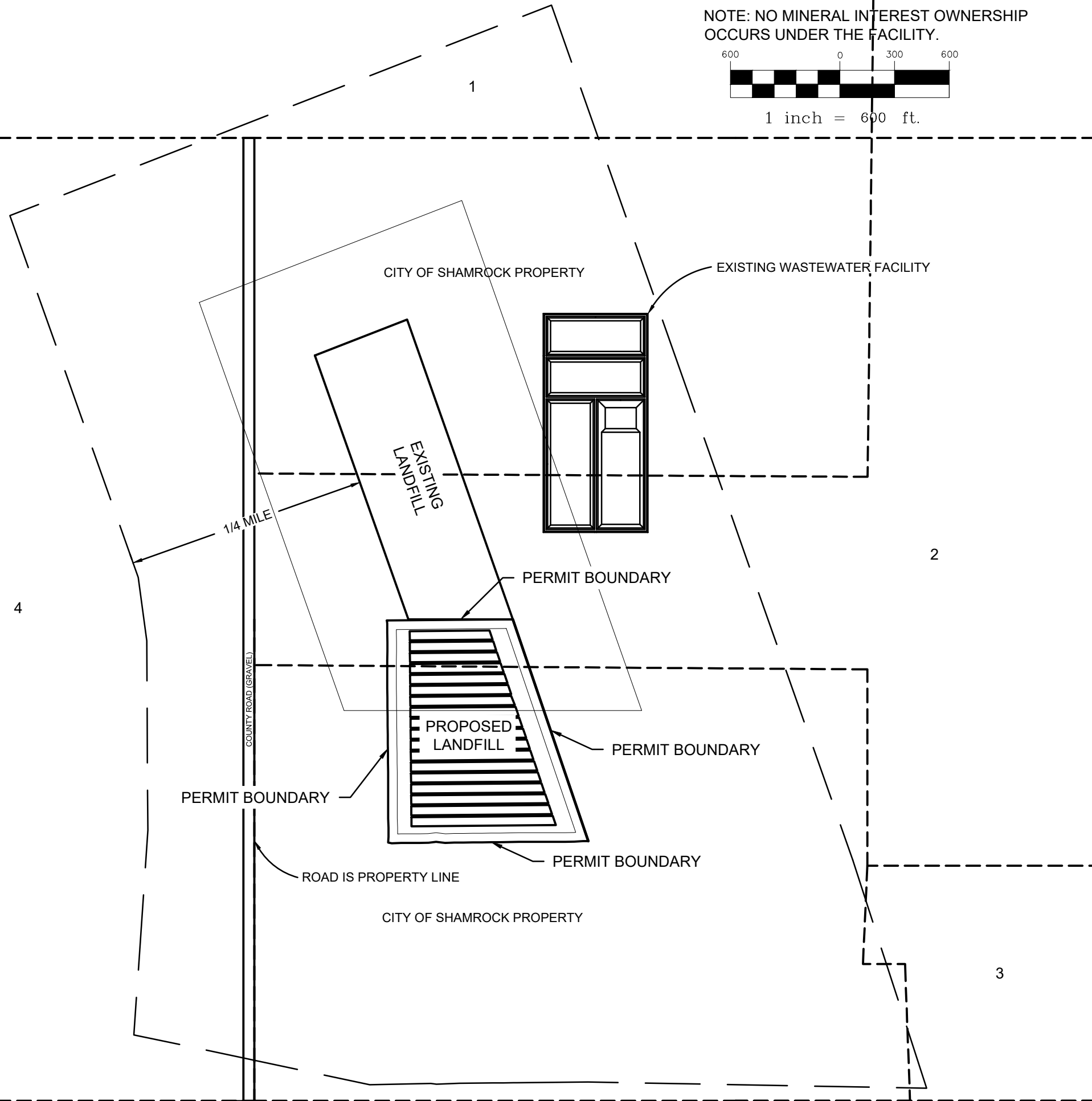
**LIST OF LANDOWNERS:**

1. DARREN RAY HEFLEY  
1604 ELLIS AVE  
WHEELER, TX 79096
2. MATTHEW & KATHERINE HINTON  
PO BOX 759  
PAMPA, TX 79066
3. MATTHEW & KATHERINE HINTON  
PO BOX 759  
PAMPA, TX 79066
4. BC BUCKINGHAM PROPERTIES LP  
16746 FM 2697  
WHEELER, TX 79096

NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.



1 inch = 600 ft.



**LEGEND**

- PROPERTY LINES
- LANDFILL
- 1/4 MILE BOUNDARY

**OJD Engineering, L.P.**  
*The Benchmark*  
 Wellington | Amarillo | Wolforth  
 www.OJDEngineering.com F-4393

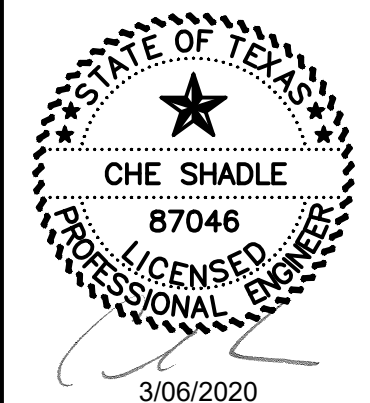
**WELLINGTON**  
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 (806) 447-2503

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 502 N. Dowden Road, Ste 102  
 Wolforth, TX 79382  
 (806) 791-2300

**AMARILLO**  
 2420 Lakewood Drive  
 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

LANDOWNERSHIP MAP

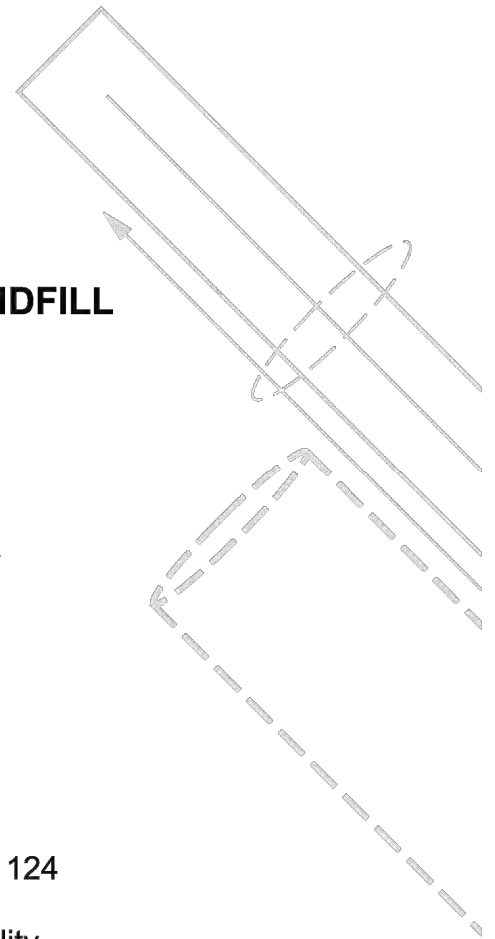


Drawn By: CCG  
 Checked By: MCS  
 Scale: 1" = 600'  
 Date: March 2020

Drawing: **2**







**CITY OF SHAMROCK MUNICIPAL LANDFILL**

116 W. 2<sup>nd</sup> Street  
Shamrock, Texas 79079

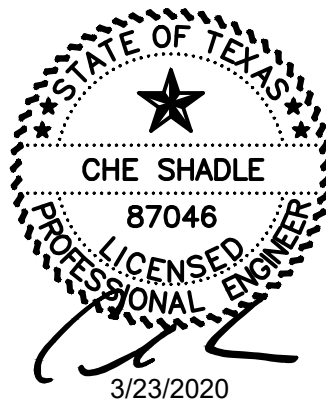
**TYPE IAE  
SOLID WASTE  
MUNICIPAL SOLID WASTE FACILITY  
PERMIT APPLICATION  
PART II**

Submitted on:  
December 2019  
March 2020 NOD

Submitted to:  
Municipal Solid Waste Permits Section, MC 124  
Waste Permits Division  
Texas Commission on Environmental Quality  
P.O. Box 13087  
Austin, Texas 78711-3087

Submitted for:  
City of Shamrock  
Lynn Ramsey, Mayor

Submitted by:  
Che Shadle, PE  
OJD Engineering, LP



**F-4393**

Wellington | Amarillo | Wolfforth

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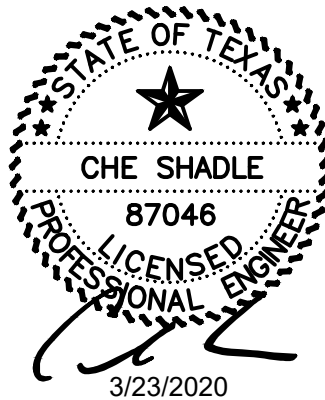
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## **PART II PERMIT APPLICATION**

### **a) EXISTING CONDITIONS SUMMARY**

The site is located 1 ½ miles northwest of the City of Shamrock. There are no structures or inhabitable buildings located within 500 feet of the proposed site. Schools, licensed day care facilities, churches, hospitals, cemeteries, lakes, and residential, commercial, and recreational areas are not within one mile of the site. One airport is located within a five-mile radius of the site. There are no drainage, pipeline, and utility easements within or adjacent to the site as well as archaeological sites, historical sites, and sites with exceptional aesthetic qualities.

### **b) WASTE ACCEPTANCE PLAN**

- 1) The type of waste to be received at the facility shall be municipal solid waste, grease, oil, sludge, Class II Industrial Waste, and Special Wastes as outlined in the Site Operating Plan. Class I Industrial Waste, RCAM, and Hazardous Wastes shall not be accepted at the facility.
  - A) The population that will be contributing to the facility is approximately 3,000 people. The collection rate is approximately 5.0 pounds per capita per day. As a general rule, 10,000 people with a per capita collection rate of five pounds per day dispose of 10 to 15 acre-feet of solid waste in one year. Comparing this to a population of 3,000 people, the volume disposed will be approximately 3 - 5 acre-feet per year.
  - B) The proposed facility is not a transfer station.
  - C) Due to the facility being located in a remote area with minimal population growth, the facility will likely see a minimal increase from year to year in the annual waste acceptance rate over the next 5 years. The population for Wheeler County from 2010 to 2015 grew 1.05%. Population projections and growth trend models show to have no effect on the proposed municipal solid waste landfill.
- 2) In accordance with §330.9, the proposed facility qualifies as a permit.

### **c) MAPS**

General Location Maps. All maps that are provided in this application include all the requirements set forth in §330.59(c)

- 1) A wind rose with the prevailing wind direction has been provided on the General Location Map - Appendix 7.
- 2) A map has been provided as Appendix 12, Figure 1 – Well Map that provides the locations of all known water wells within 500 feet of the proposed permit boundary with the state well numbering system designator for Water Development Board “located wells”.
- 3) There are no structures or inhabitable buildings within 500 feet of the proposed facility.
- 4) There are no schools, licensed day care facilities, churches, hospitals, cemeteries, lakes, residential, commercial, and recreational areas located within one mile of the proposed site. There are two (2) ponds located within a mile of the proposed facility. A Site Development Plan has been provided as Appendix 12 to show the location of the two (2) ponds.
- 5) The site is accessible to the citizens of Shamrock by the use of the westbound access road of I-40 and a paved county road that leads directly to the site. These roads are all-weather roads, and should provide a safe and expedient roadway any time of year. Also, the site is approachable from the east and west via an unpaved county road. The road will be adequate for dry conditions. The locations of the roads are shown in Appendix 7.
- 6) The latitude for the site is 100° 16’ 19.13” W and the longitude for the site is 35° 14’ 53.99” N.
- 7) Roundup Creek is located approximately 1,450’ east of the proposed site. The location of the creek is shown in Appendix 7.
- 8) The Shamrock Municipal Airport is located 4.6 miles east of the proposed landfill. The location of the airport is shown in General Location Map as Appendix 7.
- 9) The property boundary of the proposed facility is shown in the Survey in Appendix 14.
- 10) There are no drainage easements within one mile of the facility. There are no pipeline and utility easements located within one mile of the facility. However, there are two gas lines that are located on the property. One of the lines is a 3.5” line that runs northwest to southeast and is located in the northwest corner of the proposed site. The other line is a 4.5” line that runs north and south and is located on the west side of the proposed site. These gas lines were installed in the late 1930’s, therefore, there are no easements for them.

- 11) The facility access control features include a fence and other security measures. These are inspected on a semi-annual basis. The facility must be secure enough to eliminate unauthorized entry. Any damages to the fencing and security will be noted, and repaired as soon as possible. The City of Shamrock commits to maintaining the fences, gates, and security locks through the life of the facility.
- 12) There are no archaeological sites, historical sites, or sites with exceptional aesthetic qualities adjacent to the proposed facility.

**d) FACILITY LAYOUT MAPS**

- 1) A map showing the outline of the landfill units is shown in Site Layout Plan as Appendix 15.
- 2) A map showing the interior facility roadways, the general locations of main interior facility roadways that will provide access to fill areas is shown in Site Layout Plan as Appendix 15.
- 3) A map showing the locations of gas probes has been provided as Appendix 15, Drawing 6.
- 4) A map showing the locations of buildings has been provided in Land Use Landowner Map as Appendix 8
- 5) Graphic representations or marginal explanatory notes necessary to communicate the proposed construction sequence of the facility have been provided as seen necessary.
- 6) Fencing location for the facility has been shown in Site Layout Plan as Appendix 13
- 7) There are no natural windbreaks, such as greenbelts, where they will improve the appearance and operation of the facility and, where appropriate, plans for screening the facility from public view;
- 8) The site entrance from the public access road is shown in Site Layout Plan as Appendix 13
- 9) Landfill Units
  - A) Sectors with appropriate notations to communicate the types of wastes to be disposed of in individual sectors; the type of waste to be received at the facility shall be municipal solid waste, Class II Industrial Waste,

Class III Industrial Wastes, and Special Wastes outlined in the Site Operating Plan. Class I Industrial Waste, RCAM, and Hazardous Wastes shall not be accepted at the facility.

- B) The general sequence of filling operations; the City proposed to use a trench system to dispose of waste at the facility.
- C) Sequence of excavations and filling; cover material will come from the new pits that are to be constructed once the previous pit is at capacity. The final pit to be installed on the property shall have final cover applied from another on-site source.
- D) The dimensions of the cells or trenches will vary in length from 791' to 438' and be a width of 50';
- E) The City of Shamrock will install a final cover system that adheres to the rules in §330.457

**e) GENERAL TOPOGRAPHIC MAPS**

A United States Geological Survey 7 1/2-minute quadrangle sheets or equivalent for the facility has been provided as Appendix 21.

**f) AERIAL PHOTOGRAPH**

- A) An aerial photograph approximately nine inches by nine inches with a scale within a range of one-inch equals 1,667 to one-inch equals 3,334 feet and showing the area within at least a one-mile radius of the site boundaries has been provided as Aerial Layout Appendix 22;
- B) Aerial photographs have been provided as Aerial Layout Appendix 22 to show growth trends. Population projections and growth trend models show to have no effect on the proposed municipal solid waste landfill.

**g) LAND-USE MAP**

This a map constructed of the facility showing the boundary of the facility and any existing zoning on or surrounding the property and actual uses (e.g., agricultural, industrial, residential, etc.) both within the facility and within one mile of the facility. The owner or operator shall make every effort to show the locations of residences, commercial establishments, schools, licensed day-care facilities, churches, cemeteries, ponds or lakes, and recreational areas within one mile of the facility boundary. Drainage, pipeline, and utility easements within the facility shall be shown. Access roads serving the facility shall be shown. A land-use map

has been provided as Appendix 16. A zoning map has been provided as Appendix 38. The boundary of the proposed site is shown on Drawing 6 of Appendix 15. The land is currently being used as natural pastureland.

#### **h) IMPACT ON SURROUNDING AREA**

A primary concern is that the use of any land for a municipal solid waste facility not adversely impact human health or the environment. The owner or operator shall provide information regarding the likely impacts of facility on cities, communities, groups or property owners, or individuals by analyzing the compatibility of land use, zoning in the vicinity, community growth patterns, and other factors associated with the public interest. To assist the commission in evaluating the impact of the site on the surrounding area, the owner or operator shall provide the following:

- 1) The site will not be subject to any zoning requirements. The proposed landfill site is situated so that it will not adversely impact human health or the environment.
- 2) The surrounding land uses within one mile of the proposed facility are primarily agriculture applications.
- 3) Population projections and growth trend models show to have no effect on the proposed municipal solid waste landfill.
- 4) There are nine residences are located within one mile of the site. The nearest residence is approximately 1,463' southwest of the proposed landfill.
- 5) There are no wells that exist within 500 feet of the site. Well locations are shown on the well map. A map for wells is shown as Appendix 12 of this report.

#### **i) TRANSPORTATION**

- 1) The site is accessible to the citizens of Shamrock by the use of the westbound access road of I-40 and a paved county road that leads directly to the site. These roads are all-weather roads, and should provide a safe and expedient roadway any time of year. Also, the site is approachable from the east and west via an unpaved county road. The road will be adequate for dry conditions. The locations of the roads are shown in Appendices 7 and 23.

- 2) The volume of traffic on the roads leading to the proposed facility will be very minimal. Traffic, as it stands now, is comprised of the small number of farmers and ranchers that have land near the site, and the City crew working on the City's property. The traffic to the site will have no adverse effects on the surrounding area.
- 3) The expected volume of traffic to be generated by the facility on the access roads within one mile of the proposed facility is minimal. The existing facility that will be adjacent to the proposed facility currently has minimal traffic, therefore, an increase in traffic to access roads within one mile of the proposed facility is unexpected.
- 4) Improvements to the existing public roadway will be unnecessary, as the proposed facility will have a minimal impact on current roadway conditions. Coordination with the Texas Department of Transportation has been provided in Appendix 16.
- 5) The proposed Shamrock Municipal Solid Waste Landfill is not located within 10,000 feet of any airport runway end used by turbojet aircraft or within 5,000 feet of any airport runway end used by only piston-type aircraft. A copy of coordination with the Federal Aviation Administration has been provided in Appendix 25.

**j) GENERAL GEOLOGY AND SOILS STATEMENT**

- 1) On-site or local soil conditions that may result in significant differential settling:  
The site and vicinity soils are from the Lutie Series. This series consists of deep moderately permeable soils on uplands. These soils formed in loamy, red-bed material. These areas are irregular in shape and average about 50 acres in size. These are stable soils with low shrink-swell potential. Site excavations over the years have shown these soils to be firm and stable. There are no indications on the site or in the soil record that these soils are or will be subject to significant differential settling.

On-site or local geologic or geomorphologic features:

There are no unusual geologic features on or near the site that would produce unstable conditions. The site is gently sloping terrain, so the probability of erosion due to water is slight. However, without the proper amount of vegetative cover, this soil has a high probability of erosion due to wind. Even if unchecked, this erosion would be very moderate, and would not represent a surface or foundation stability hazard. Scattered gypsum rock deposits may be found in the area, at times shallow enough to be encountered in landfill operations. These deposits are not

considered likely to create unstable foundation conditions. They should be removed and segregated from cover material if encountered during pit excavation.

On-site or local human-made features or events, both surface and subsurface:

There are no known or observed on-site or local human-made features that would create unstable conditions on the site. Prior to use as a landfill site, the tract was pastureland. No significant structures have been constructed on the site prior to or since its use as a landfill site.

- 2) There are no known or observed fault areas located at or near the proposed landfill expansion area. Therefore, all landfilling operations will be in compliance with operating procedures regarding fault areas. A USGS map with fault areas has been provided in Appendix 40.
- 3) Certification regarding this section is not required by 30 TAC 330.557, but in the interest of completeness data was collected to verify if the proposed City of Shamrock Landfill site was within an area with a 10% or greater probability that the maximum horizontal acceleration in rock, expressed as a percentage of the earth's gravitational pull, will exceed 0.10g in 250 years. The data available for this area expresses peak acceleration as a percentage of "g" with 10 % probability of exceedance in 50 years. USGS was contacted to determine how this data would compare with 250-year exceedance data. They replied that the two were virtually the same, since in geologic time 50 years and 250 years are both relatively short periods. The mathematics upon which the data is based uses a standard 2500-year return period value, which assumes that the seismic environment does not change in the 50 years or 250 years. The 10%/50-year number for Shamrock is slightly over 1%g. Thus, the proposed Shamrock Landfill expansion site is not located within a seismic impact zone as defined in 30 TAC 330.557. A FEMA seismic hazard map has been provided as Appendix 41, Drawing 17.
- 4) Section 330.559 defines an unstable area as a location that is susceptible to natural or human-induced events or forces capable of impairing the integrity of some or all of a landfill's structural components responsible for preventing releases from the landfill. Examples of such areas are locations with poor foundation conditions, areas susceptible to mass movement, and karst terrains. The following factors were considered in our evaluation of the proposed City of Shamrock landfill site with regard to this section using information obtained from USGS and FEMA.

**k) GROUNDWATER AND SURFACE WATER**

- 1) Information concerning site specific ground water is shown in Appendix 18 of Parts I & II of the permit application.
- 2) There are no surface waters on or near the site. A site visit was conducted to locate any springs on or near the site. No springs were located during the inspection.
- 3) In compliance with the provisions of Clean Water Act §402, as amended, the location of the proposed Shamrock Municipal Solid Waste Landfill will comply with applicable Texas Pollutant Discharge Elimination System (TPDES)
  - A) a certification statement indicating the owner/operator will obtain the appropriate TPDES permit coverage when required is provided in Appendix 18.

**I) ABANDONED OIL AND WATER WELLS**

- 1) There are no abandoned oil or water wells located on the proposed site.
- 2) There are no oil and gas wells production wells on the proposed site.

**m) FLOODPLAINS AND WETLANDS STATEMENT**

- 1) The proposed Shamrock Municipal Solid Waste Landfill site is bordered to the north and west by a seasonal creek channel. This Channel is an unnamed Tributary to North Fork Red River. The facility is located outside a FEMA study area. Flood Hazard Boundary Maps for unincorporated areas of Wheeler County have not been published by FEMA. The proposed new site for the municipal solid waste landfill is at the top of a hill. The 100-year flood elevation was computed at a point on Roundup Creek southeast of the site, where the county road crosses the creek. OJD Engineering performed a preliminary stormwater runoff analysis to determine an estimated elevation of the 100-year storm event. Rainfall frequency and duration data were taken from the Storm Water Management Criteria Manual-City of Amarillo, Texas. Drainage area topography and site topography was taken from a USGS 7½-minute series topographic map. The analysis was performed using the SCS Method and the Rational Method for determining rainfall runoff. The Manning formula was used to estimate the water surface elevation when stream flow equals the maximum discharge for the 100-year storm event. Channel geometry was measured at a point in Roundup Creek. To obtain



a more precise floodplain elevation for this drainage area, more detailed topographic data would be required, and a dynamic stream profile analysis would be necessary. These steps are considered to be more detailed than required for the purpose of this certification. The results of the calculations are shown in Table 1.

**Table 1. 100-Year Flood Zone Calculations**

Drainage Area:	2267 acres
100-Year Storm Event:	3.61 inches/hour
Source: Intensity duration frequency curves Storm Water Management Criteria Manual City of Amarillo, Texas	
Peak Discharge:	922 cfs
100-Year Storm Depth:	1.75 ft
Dry Weather Channel Bottom Elevation:	2260.00 ft
100-Year Flood Elevation:	2261.75 ft
Site Elevation:	2280.00 ft

Landfill operations do not take place within the 100-year flood zone. The proposed City of Shamrock landfill will not restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain, or result in washout of solid waste so as to pose a hazard to human health and the environment.

- 2) A review of the National Wetlands Inventory Maps was conducted, and concluded that it did not indicate a presence of wetlands in the area of the proposed site. Therefore, all landfill operations will be in compliance with all regulations regarding wetlands.
- 3) There are no wetlands located within the facility boundary.

Drainage Plan and Flow Data are provided in Appendix 26

**n) ENDANGERED OR THREATENED SPECIES**

- 1) The proposed facility will not have an adverse impact upon endangered or threatened species. The facility and the operation of the facility will not result in the destruction or adverse modification of the critical habitat of endangered or threatened species, or cause or contribute to the taking of any endangered or threatened species.
- 2) A letter was written to the Texas Parks and Wildlife Department requesting information on endangered species. The agency sent a letter confirming that no federally listed threatened or endangered species are known to occur in the action area. Additionally, a review of National Wetlands Inventory maps does not indicate the presence of wetlands. The letter from the agency is shown in Appendix 20 of this report.

**o) TEXAS HISTORICAL COMMISSION REVIEW**

A review letter has been submitted to the Texas Historical Commission documenting compliance with the Natural Resources Code, Chapter 191, Texas Antiquities Code. A response was received from the Texas Historical Commission on May 17, 2019 that no survey was required, project may proceed.

**p) COUNCIL OF GOVERNEMENTS AND LOCAL GOVERNEMENT REVIEW**

A review letter, as well as Parts I and II of the application have been submitted to the Panhandle Regional Planning Commission documenting compliance with the local solid waste plans.

## LIST OF ATTACHMENTS

Appendix 2	Transportation Data and Coordination Report
Appendix 7	General Location Map
Appendix 10	TWDB Well and Data Report
Appendix 12	Well Map
Appendix 13	Site Development Plan
Appendix 14	Survey
Appendix 15	Site Layout Plan
Appendix 16	Land Use Map
Appendix 17	TxDOT Letter
Appendix 18	Ground Water Information
Appendix 19	TPDES Permit Coverage
Appendix 20	Texas Parks & Wildlife Letter
Appendix 21	USGS Map
Appendix 22	Aerial Map
Appendix 23	Public Access Road
Appendix 24	TxDOT Map
Appendix 25	FAA Letter
Appendix 26	Drainage Plan and Flow Calculations
Appendix 38	Zoning Map



# Texas Commission on Environmental Quality

## Transportation Data and Coordination Report Form for Municipal Solid Waste Type I Landfills

This form is for use by applicants or site operators of Municipal Solid Waste (MSW) Type I landfills to provide data and information to address the availability and adequacy of access roads to a landfill site, the volume of vehicular traffic on and generated by the facility on area roadways, and to provide coordination information as required under 30 TAC §330.61(i). Roadways that provide primary access to a landfill facility must be adequate and possess appropriate design capacity to safely accommodate the additional volumes and weights of traffic generated or expected to be generated by this landfill facility during its active life. Data provided in this form should correspond with data contained in the coordination documents submitted to the Texas Department of Transportation or other agency that has jurisdiction over affected area roads.

If you need assistance in completing this form, please contact the Municipal Solid Waste Permits Section of the Waste Permits Division at (512) 239-2335.

### I. General Information

Facility Name: City of Shamrock Landfill

MSW Permit No.: 2281

Site Operator/Permittee Name and Mailing Address: Tommye Cole/City of Shamrock Landfill 116 W. 2<sup>nd</sup> Street Shamrock, TX 79079

### II. Documentation of Coordination with the Texas Department of Transportation (TXDOT) for Traffic and Location Restrictions

1. A traffic study document and cover letter was submitted to TXDOT as Coordination for traffic and location restrictions for the subject facility and a copy of the documents submitted to TXDOT is attached herein:  Yes  No

If you checked "No", provide explanation: The volume of traffic on the roads leading to the proposed facility will be very minimal. Traffic, as it stands now, is comprised of the small number of farmers and ranchers that have land near the site, and the City crew working on the City's property. The traffic to the site will have no adverse effects on the surrounding area.

2. Date of submission of the coordination documents to TXDOT: 4/18/2019
3. TXDOT's response received?  Yes  No
4. If "No" is checked in response to Item I.3 above, complete Items I.4 and I.5 below only after TxDOT's response is received.

Facility Name: City of Shamrock Landfill

Revision No.: \_\_\_\_\_

Permit No: 2281

Date: 1/17/2019

5. Did TxDOT’s response include recommendation of improvements to any of the roadways or intersections that lead to the site?  Yes  No
6. If you checked “Yes” in Item I.5 above, proceed to Section III., TxDOT’s Recommended Roadway
7. y or Intersection Improvements (as applicable).
8. If you checked “No” in Item I.5 above, provide TxDOT’s response to the traffic and location restrictions compliance coordination for the subject site: *(Enter TxDOT’s response to coordination correspondence)*

**III. TxDOT Recommended Roadway or Intersection Improvements (as applicable)**

Enter TxDOT’s recommendations for improvement of roadways or intersections that lead to the site:

1. N/A
- 2.
- 3.

**IV. Documentation of Coordination of Improvement Designs of Public Roadways (e.g., Turning Lanes, Storage Lanes, Acceleration/Deceleration Lanes, etc.) at and Near the Site Entrances with Agencies that Exercise Maintenance Responsibility**

1. Complete Table 1 with information regarding documentation of coordination of improvement designs for existing and proposed roads.

*Table 1: Public Roadway Improvements Coordination*

Existing and Proposed Roads Associated with the Site Entrance(s)	Agency Exercising Maintenance Responsibility	Date of Coordination Correspondence from the Applicant or Site Operator to the Agency Responsible	Date of the Coordination Response Letter from the Agency Responsible	Did the Agency Responsible Require Improvements to the Roadway(s) Associated with the Site Entrance(s) (check Yes or No as applicable)
County Road 15	Wheeler County			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Existing and Proposed Roads Associated with the Site Entrance(s)	Agency Exercising Maintenance Responsibility	Date of Coordination Correspondence from the Applicant or Site Operator to the Agency Responsible	Date of the Coordination Response Letter from the Agency Responsible	Did the Agency Responsible Require Improvements to the Roadway(s) Associated with the Site Entrance(s) (check Yes or No as applicable)
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

2. If you checked "Yes" in the last column of Table 1, indicating that improvements are required, address the following:
  - (a) Briefly describe the improvements proposed for the public roadway(s) associated with the site entrance(s):
  - (b) A copy of the proposed improvement design submitted to the agency exercising maintenance responsibility over the roadway is attached herein:  Yes    No. If you checked "No" please explain:
  - (c) A copy of the response letter from the agency exercising maintenance responsibility over the roadway(s) associated with the site entrance(s) approving the improvement design is attached herein:  Yes    No. If you checked "No" please explain:

**V. Facility Location and Operation Information Used in Estimating Transportation Data**

1. Facility Location Information

The site for the proposed landfill is located 1 ½ miles northwest of the City limits, on property owned by the City of Shamrock. The Vicinity Map for the proposed site is shown as Attachment 2 of Parts I & II of the MSWLF permit application.

2. Waste Acceptance Rates

- (a) Initial Waste Acceptance Rate: 3 tons/day 3 – 5 acre-feet per year

Transportation Data and Coordination Report for MSW Type I Landfills

Facility Name: City of Shamrock Landfill

Revision No.: \_\_\_\_\_

Permit No: 2281

Date: 1/17/2019

- (b) Estimated Maximum Waste Acceptance Rate at any Time During Facility Life:  
3 – 5 acre-feet per year

3. Hours of Operation and Site Life

- (a) a. Operating Hours: The facility may be operated any time between the hours of 7:00 am and 7:00 pm, seven days a week.
- (b) b. Waste Acceptance Hours: 7:00 am and 7:00 pm, seven days a week
- (c) c. Estimated Site Life: 51 years

4. Other Information Used or Assumed in Estimating Transportation Data:

**VI. Facility Daily Traffic Volume Data**

1. Complete Table 2 with estimated existing daily volume of traffic generated by the facility.

*Table 2: Estimated Existing Daily Volume of Traffic Generated*

Vehicle Type	Traffic Volume to Facility (vehicles per day, vpd)	Traffic Volume from Facility (vpd)
Trucks	5	5
Employee Vehicles	2	2
Visitors Vehicles	10	10
Other Vehicles	3	3
<b>Summation of Daily Volume of Traffic to and from the Facility</b>		
Total Daily Volume of Traffic	20	20

- (a) Describe the source(s) of or method(s) used to obtain the existing daily volume of traffic generated by the facility: Previous permit and current facility activity.
- (b) Location(s) of traffic counts (if applicable): County Road 15

2. Complete Table 3 with estimated future daily volume of traffic generated by the facility.

*Table 3: Estimated Future Daily Volume of Traffic Generated*

Vehicle Type	Traffic Volume to Facility (vpd)	Traffic Volume from Facility (vpd)
Trucks	12	12
Employee Vehicles	5	5
Visitors Vehicles	25	25
Other Vehicles	8	8
<b>Summation of Daily Volume of Traffic to and from the Facility</b>		
Total Daily Volume of Traffic	50	50

3. Describe the method(s) used to obtain the estimated future daily volume of traffic generated by the facility, including dates, traffic growth rates, and sources of the growth rates: Previous permit and current facility activity based on life expectancy of facility.



Transportation Data and Coordination Report for MSW Type I Landfills

Facility Name: City of Shamrock Landfill

Revision No.: \_\_\_\_\_

Permit No: 2281

Date: 1/17/2019

4. Maps showing the facility boundary and roads within 1 mile of the facility that provide access to the site are attached herein. Yes  No . If you checked "No" please explain:

**VII. Availability and Adequacy of Roads**

- Complete Table 4 with information regarding the primary access roadways.

*Table 4: Roadway Characteristics of the Primary Access Roadways*

List the roads that the owner or operator will use as primary access to the site	Existing Annual Average Daily Traffic on Roadway (vpd)	Expected Annual Average Daily Traffic on Roadway (vpd)	Existing Roadway Capacity	Expected Roadway Capacity	Max Gross Weight Allowed (lbs)	Max/Min Posted Speed Limit (mph)	Min Vertical Clearance (ft)	Surface Type and No. of Lanes	Level of Service	Existing Traffic Generated by the Facility on Each Roadway	Expected Traffic Generated by the Facility on Each Roadway
County Road 15	10	20	2	2	80K	N/A	N/A	Dirt/2	N/A	20	50

- Complete Table 5 with information regarding other access roadways within one mile.

*Table 5: Roadway Characteristics of Other Access Roadways within One Mile of the Facility Boundary*

List other access roadways within 1 mile of the facility	Existing Annual Average Daily Traffic on Roadway	Expected Annual Average Daily Traffic on Roadway	Existing Roadway Capacity	Expected Roadway Capacity	Max Gross Weight Allowed (lbs)	Max/Min Posted Speed Limit (mph)	Min Vertical Clearance (ft)	Surface Type and No. of Lanes	Level of Service	Existing Traffic Generated by the Facility on Each Roadway	Expected Traffic Generated by the Facility on Each Roadway
County Road 15	10	20	2	2	80K	N/A	N/A	Dirt/2	N/A	20	50
County Road Z	10	20	2	2	80K	N/A/	N/A	Dirt/2	N/A	20	50

- Complete Table 6 with information regarding access roadway intersections within one mile.

*Table 6: Roadway Intersection Characteristics*

Please list major (signalized) roadway intersections for access roads within 1 mile of facility	Existing Capacity	Existing Level of Service
County Road 15 and County Road Z	20 vehicles/day	50 vehicles/day

Facility Name: City of Shamrock Landfill

Revision No.: \_\_\_\_\_

Permit No: 2281

Date: 1/17/2019

Please list major (signalized) roadway intersections for access roads within 1 mile of facility	Existing Capacity	Existing Level of Service

4. (For applicants that conducted traffic counts) Peak period traffic counts were conducted at critical intersections and roadways in the area:  Yes  No

If "No" is checked, please explain: The volume of traffic on the roads leading to the proposed facility will be very minimal. Traffic, as it stands now, is comprised of the small number of farmers and ranchers that have land near the site, and the City crew working on the City's property. The traffic to the site will have no adverse effects on the surrounding area.

**VIII. Conclusions on the availability and adequacy of roads to be used for accessing the facility**

Enter conclusions regarding the availability and adequacy of roads to be used for accessing the facility using information obtained from access roadway data; data on the volume of existing and expected vehicular traffic on the access roads within one mile of the facility; and the projection of the volume of traffic expected to be generated by the facility on the access roads:

The volume of traffic on the roads leading to the proposed facility will be very minimal. Traffic, as it stands now, is comprised of the small number of farmers and ranchers that have land near the site, and the City crew working on the City's property. The traffic to the site will have no adverse effects on the surrounding area.

**IX. Highway Beautification**

Enter facility distance from interstate or primary highways and screening information as required by 30 TAC 330.23(a).

1. Distance of Facility from Interstate or Primary Highway: 1.33 miles from I-40
2. Type of Facility Screening Provided, if applicable: N/A

**X. Analysis of the Impact of the Facility upon Airports**

Enter the Part, Appendix, Attachment, Section, and Page Number of the application where analysis of the impact of the facility upon airports is provided: Part IV, 6. Special FAA Provisions, Page 13

**XI. Documentation of Coordination with the Federal Aviation Administration for Compliance with Airport Location Restrictions**

1. Applicant has submitted written information to FAA describing the facility location, maximum height of waste units, type of waste accepted at the facility, and other facility-relevant data and information as required:  Yes  No

(a) Enter Date of Coordination Letter to FAA: April 18, 2019

(b) Enter Date of FAA Response: June 14, 2019

2. Indicate FAA Response and Final Action:

FAA Acknowledged No Adverse Impact.

FAA Recommended Safety Improvements. (Complete Section XII if you check this item.)

3. A copy of the Documentation of Coordination with FAA for compliance with airport location restrictions is attached herein.  Yes  No. If you checked "No" please explain:

Part II, Appendix 24

**XII. FAA Recommended Changes or Improvements for Airport Safety, (as applicable)**

Enter FAA's recommended changes or improvements to the facility for airport safety or for compliance with airport location restrictions. If your organization is planning to sponsor any construction or alterations that may affect navigable airspace, you must file FAA Form 7460-1 electronically via <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>

The site must be properly supervised to assure that bird populations are not increasing and that appropriate control procedures are being followed.

Any increases in bird activity that might be hazardous to safe aircraft operations will result in prompt mitigation actions and/or closure of the site.

**XIII. Attachments**

- Maps showing the facility boundary and roads within 1 mile of the facility.
- Documentation of coordination of all designs of proposed public roadway improvements associated with site entrances with the agency exercising maintenance responsibility of the public roadway involved; and the response letter received from the agency, as applicable.

Transportation Data and Coordination Report for MSW Type I Landfills

Facility Name: City of Shamrock Landfill

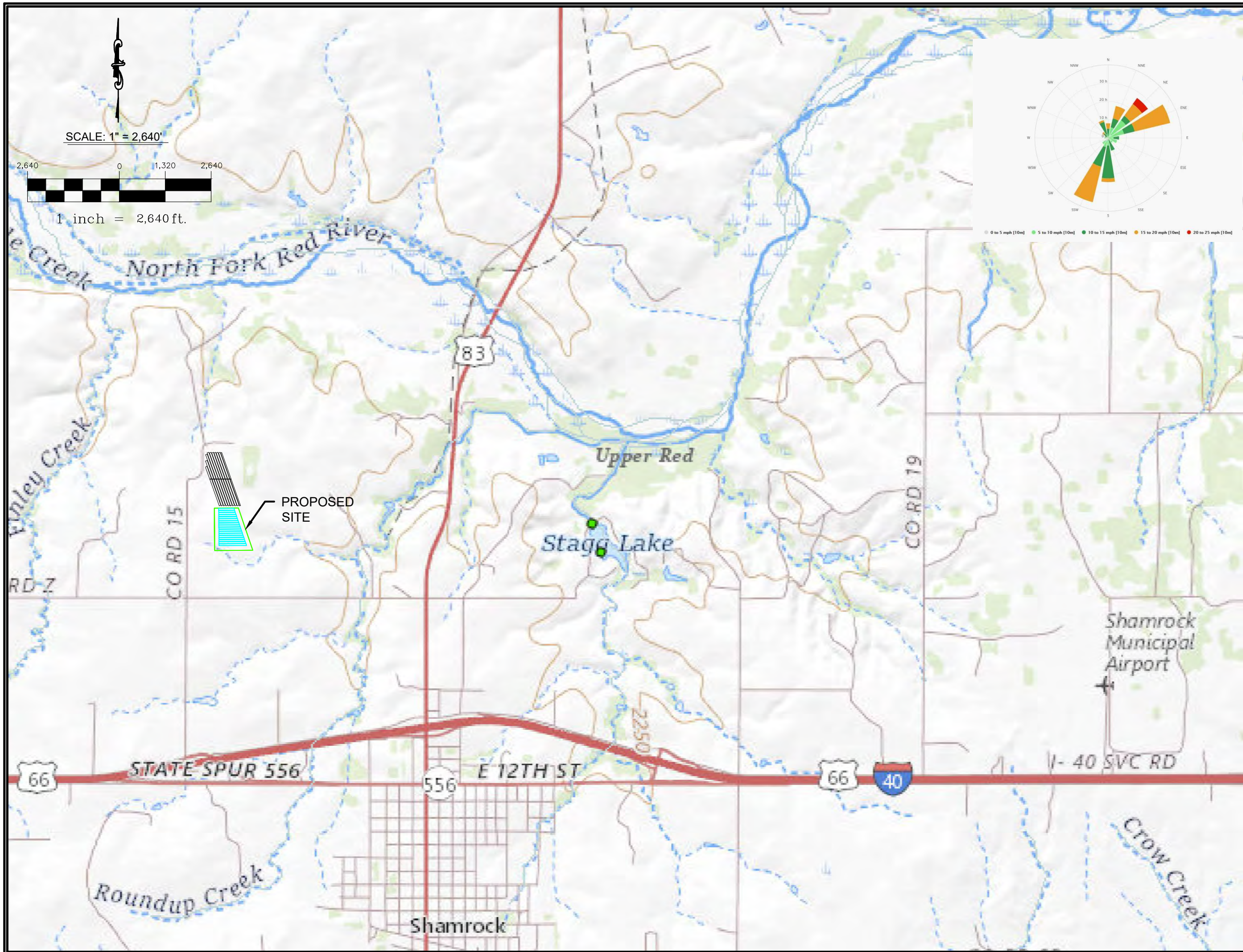
Revision No.: \_\_\_\_\_

Permit No: 2281

Date: 1/17/2019

- Documentation of coordination with the Texas Department of Transportation (TxDOT) for traffic and location restrictions, including any traffic study report; and the response letter received from TxDOT.
- Documentation of coordination with the Federal Aviation Administration for compliance with airport location restrictions; and the response letter received from FAA.
- Other documents attached:





**OJD Engineering, L.P.**  
 The Benchmark

Wellington | Amarillo | Wolfforth  
 www.OJDEngineering.com F-4393

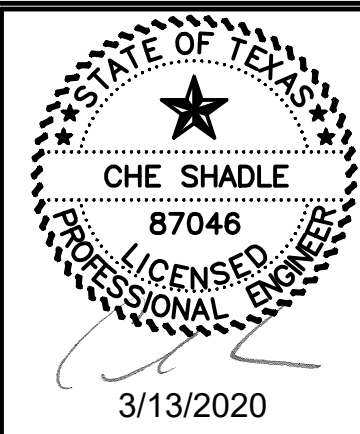
**WELLINGTON**  
 P.O. Box 543  
 Wellington, TX 79085  
 (806) 447-2503

**WOLFFORTH**  
 502 N. Dowden Road, Ste 102  
 Wolfforth, TX 79382  
 (806) 791-2300

**AMARILLO**  
 2420 Lakewood Drive  
 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

GENERAL LOCATION MAP



Drawn By:	CCG	Drawing:	
Checked By:	MCS		1
Scale:	1" = 2,640'		
Date:	March 2020		



## WELL DATA REPORT

### Site Location

The proposed Shamrock, Texas Municipal Solid Waste Landfill (MSWLF) will be located north west of Shamrock approximately 1.5 miles. The land surrounding the site is primarily pasture land, except for a 13-acre area 628 feet northeast, which is occupied by the City's wastewater treatment facility. The North Fork of the Red River is approximately one mile north of the proposed site.

### Wells and Springs in the Site Vicinity

A site visit was made to locate existing wells and springs within a one-mile radius of the proposed site. Two wells were found to exist within the one-mile radius. A map showing the location of each well is attached to this report as Figure 1. The inventoried wells were developed in a minor aquifer known as the Blaine Aquifer. Attached to this report is a map obtained from the Texas Water Development Board labeled *Minor Aquifers of Texas*. This map is shown as Figure 2. The Blaine Aquifer consists of gypsum interbedded with anhydrite, shale, and dolomite. Porosity is primarily the result of solution cavities developed in gypsum beds. Total thickness ranges up to about 250 feet. Water in the aquifer is of relatively poor quality, generally ranging from 2,000 to more than 5,000 mg/L TDS (Texas Water Development Board, Report 376, Water Quality in the Blaine Aquifer of Texas, May 2011). There are no known springs to exist in the vicinity of the proposed site.

The wells are numbered 1 and 2 on the map. A limited amount of information exists for the wells. Water well logs for wells 1 and 2 are attached to this report; however, these wells are not available for testing. Well 1 is a windmill well, and well 2 is a private well. Well 1 and 2 are owned by individuals and are unavailable for testing. Data from Texas Water Development Board for wells 1 and 2 are shown in Table 1.

**Table 1. Well Depth Information**

	<u>Well No. 1</u>	<u>Well No. 2</u>
Depth (ft)	63'	103'
Static level (ft)	50.2'	51.9'
Ground surface elev.	2275	2325
Water surface elev.	2224.8	2273.1
Well bottom elev.	2212	2222

**Water Gradient**

The ground-water gradient, as determined by comparing the static water level elevations, flows from the south to the north toward the North Fork of the Red River. This is illustrated in the map. Well 1 is a windmill well and the only well likely to be down gradient of the proposed landfill, and the other well is up gradient. Considering this, well appears to be in the ideal location for testing ground-water downstream of the proposed landfill.

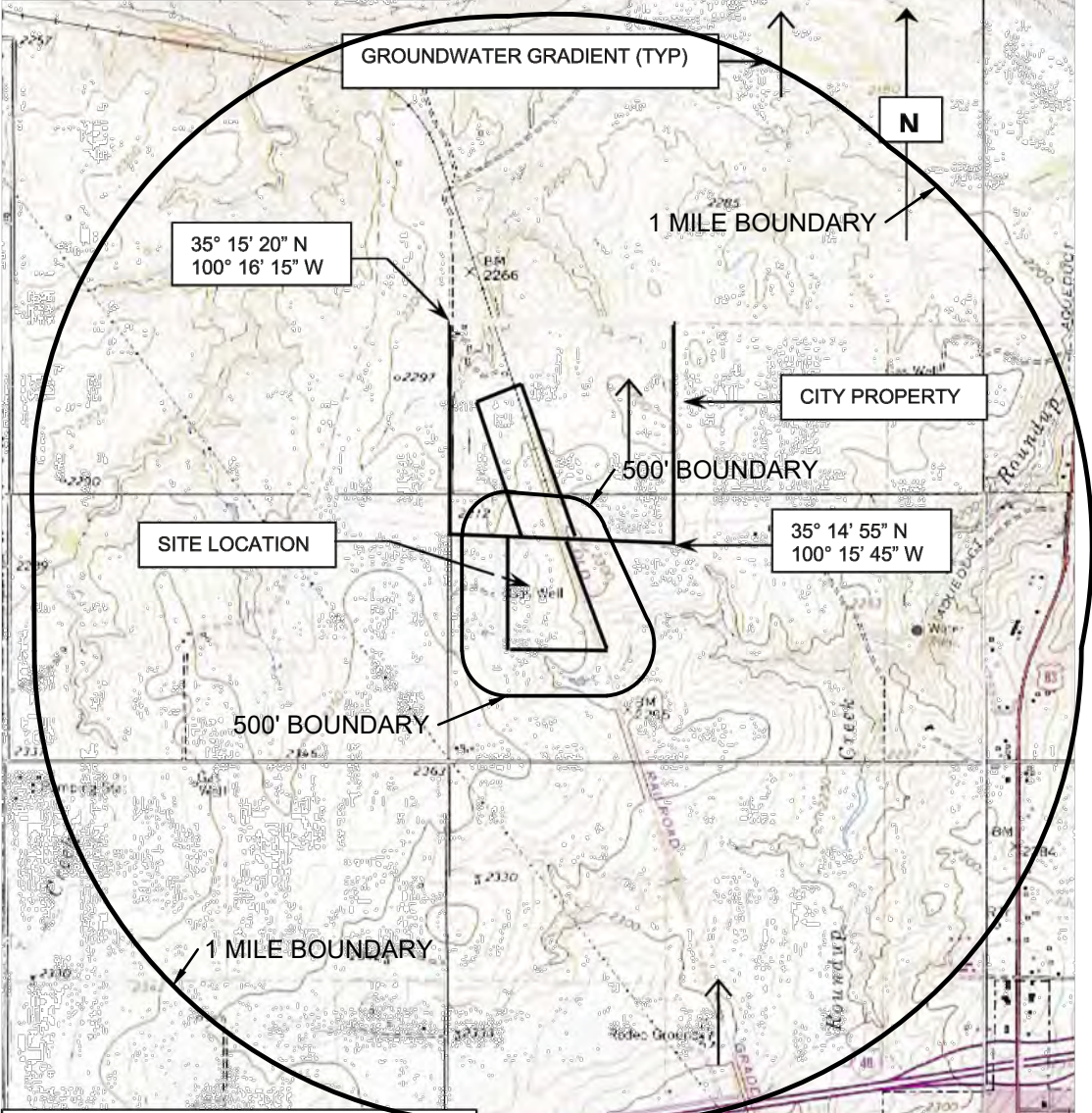
**Well Sampling Data**

Water samples are unavailable for wells 1 and 2, as they're both private wells



**BASE MAP SOURCE:**

1. USGS QUAD Shamrock West, Tex 1963, Photo Revised 1978.
2. USGS Quad Wheeler SE, Tex 1962



**FIGURE 1 - WELL MAP  
CITY OF SHAMROCK LANDFILL**

Date Submitted: April 15, 2019  
 Date Revised: March 11, 2020  
 Drawn By: CCG  
 Scale: 1" = 2000'  
 Drawing No:

# Minor Aquifers of Texas

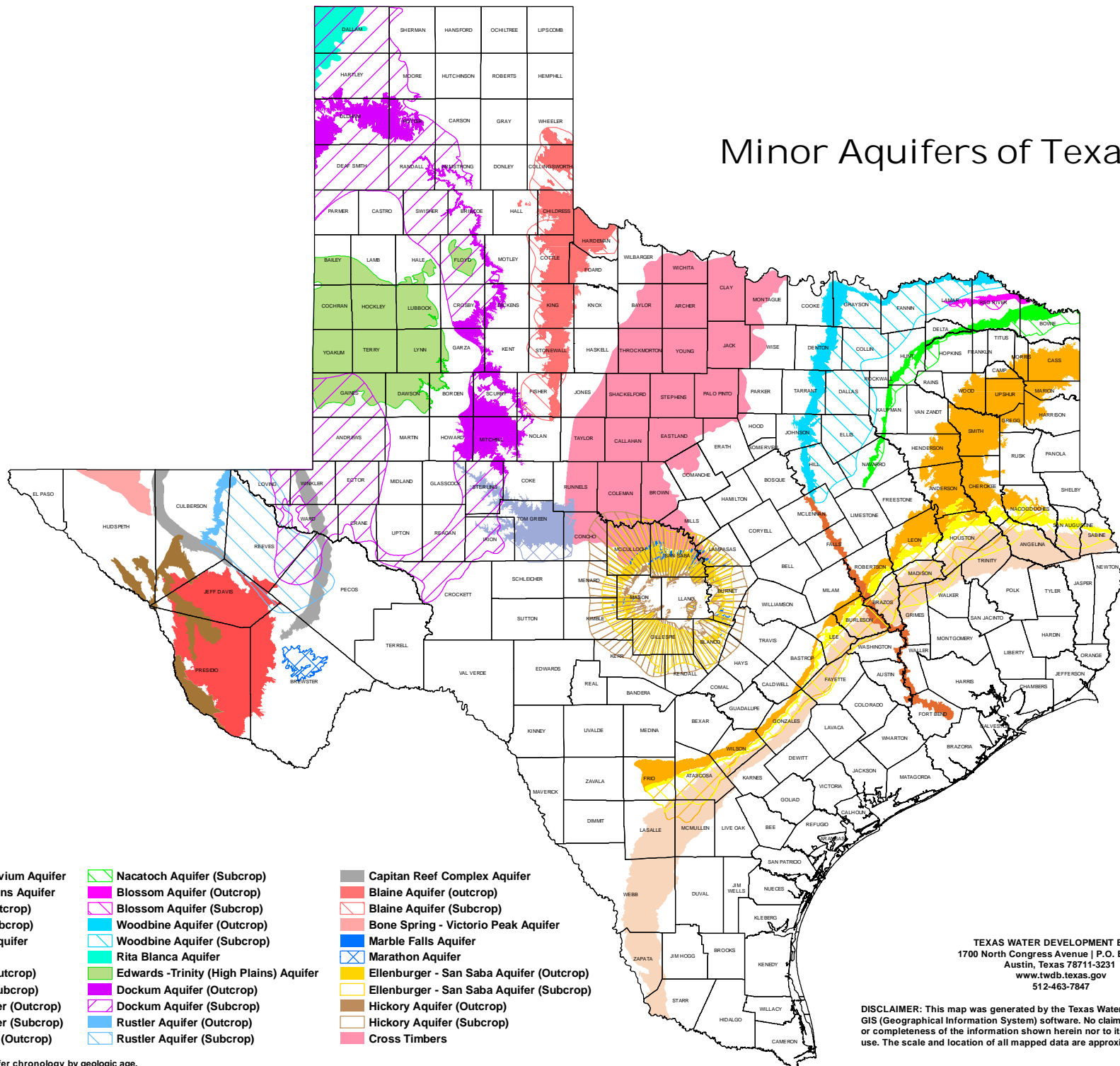


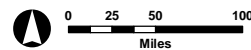
Figure 2

- |                               |  |  |
|-------------------------------|--|--|
| Brazos River Alluvium Aquifer | Nacatoch Aquifer (Subcrop)             | Capitan Reef Complex Aquifer             |
| West Texas Bolsons Aquifer    | Blossom Aquifer (Outcrop)              | Blaine Aquifer (outcrop)                 |
| Lipan Aquifer (Outcrop)       | Blossom Aquifer (Subcrop)              | Blaine Aquifer (Subcrop)                 |
| Lipan Aquifer (Subcrop)       | Woodbine Aquifer (Outcrop)             | Bone Spring - Victorio Peak Aquifer      |
| Yegua Jackson Aquifer         | Woodbine Aquifer (Subcrop)             | Marble Falls Aquifer                     |
| Igneous Aquifer               | Rita Blanca Aquifer                    | Marathon Aquifer                         |
| Sparta Aquifer (Outcrop)      | Edwards -Trinity (High Plains) Aquifer | Ellenburger - San Saba Aquifer (Outcrop) |
| Sparta Aquifer (Subcrop)      | Dockum Aquifer (Outcrop)               | Ellenburger - San Saba Aquifer (Subcrop) |
| Queen City Aquifer (Outcrop)  | Dockum Aquifer (Subcrop)               | Hickory Aquifer (Outcrop)                |
| Queen City Aquifer (Subcrop)  | Rustler Aquifer (Outcrop)              | Hickory Aquifer (Subcrop)                |
| Nacatoch Aquifer (Outcrop)    | Rustler Aquifer (Subcrop)              | Cross Timbers                            |

TEXAS WATER DEVELOPMENT BOARD  
 1700 North Congress Avenue | P.O. Box 13231  
 Austin, Texas 78711-3231  
 www.twdb.texas.gov  
 512-463-7847

DISCLAIMER: This map was generated by the Texas Water Development Board using GIS (Geographical Information System) software. No claims are made to the accuracy or completeness of the information shown herein nor to its suitability for a particular use. The scale and location of all mapped data are approximate. Map date: DEC-2017

- Aquifer chronology by geologic age.
- Solid colors indicate OUTCROP areas (portion of a water-bearing rock unit exposed at the land surface).
- Hatch colored lines indicate SUBCROP areas (portion of a water-bearing rock unit existing below other rock units).
- The Edwards-Trinity (High Plains) Aquifer and the Rita Blanca Aquifer are both entirely subsurface.



MISSION: The Texas Water Development Board's (TWDB) mission is to provide leadership, planning, financial assistance, information, and education for the conservation and responsible development of water for Texas.

# Well #1



Texas Water Development Board (TWDB)  
Groundwater Database (GWDB)  
Well Information Report for State Well Number  
05-46-901



[GWDB Reports and Downloads](#)

**Well Basic Details**

[Scanned Documents](#)

State Well Number	0546901
County	Wheeler
River Basin	Red
Groundwater Management Area	1
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Panhandle GCD
Latitude (decimal degrees)	35.255556
Latitude (degrees minutes seconds)	35° 15' 20" N
Longitude (decimal degrees)	-100.271667
Longitude (degrees minutes seconds)	100° 16' 18" W
Coordinate Source	+/- 1 Second
Aquifer Code	313DCKB - Dog Creek Shale and Blaine Gypsum
Aquifer	Blaine/Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	2275
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	63
Well Depth Source	Unknown
Drilling Start Date	
Drilling End Date	
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Stock
Water Level Observation	Miscellaneous Measurements
Water Quality Available	Yes
Pump	Piston
Pump Depth (feet below land surface)	
Power Type	Windmill
Annular Seal Method	
Surface Completion	
Owner	C.E. Harbour
Driller	
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	
Created Date	6/17/1994
Last Update Date	6/17/1994

Remarks

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
6	Blank					

**Well Tests - No Data**

**Lithology - No Data**

**Annular Seal Range - No Data**

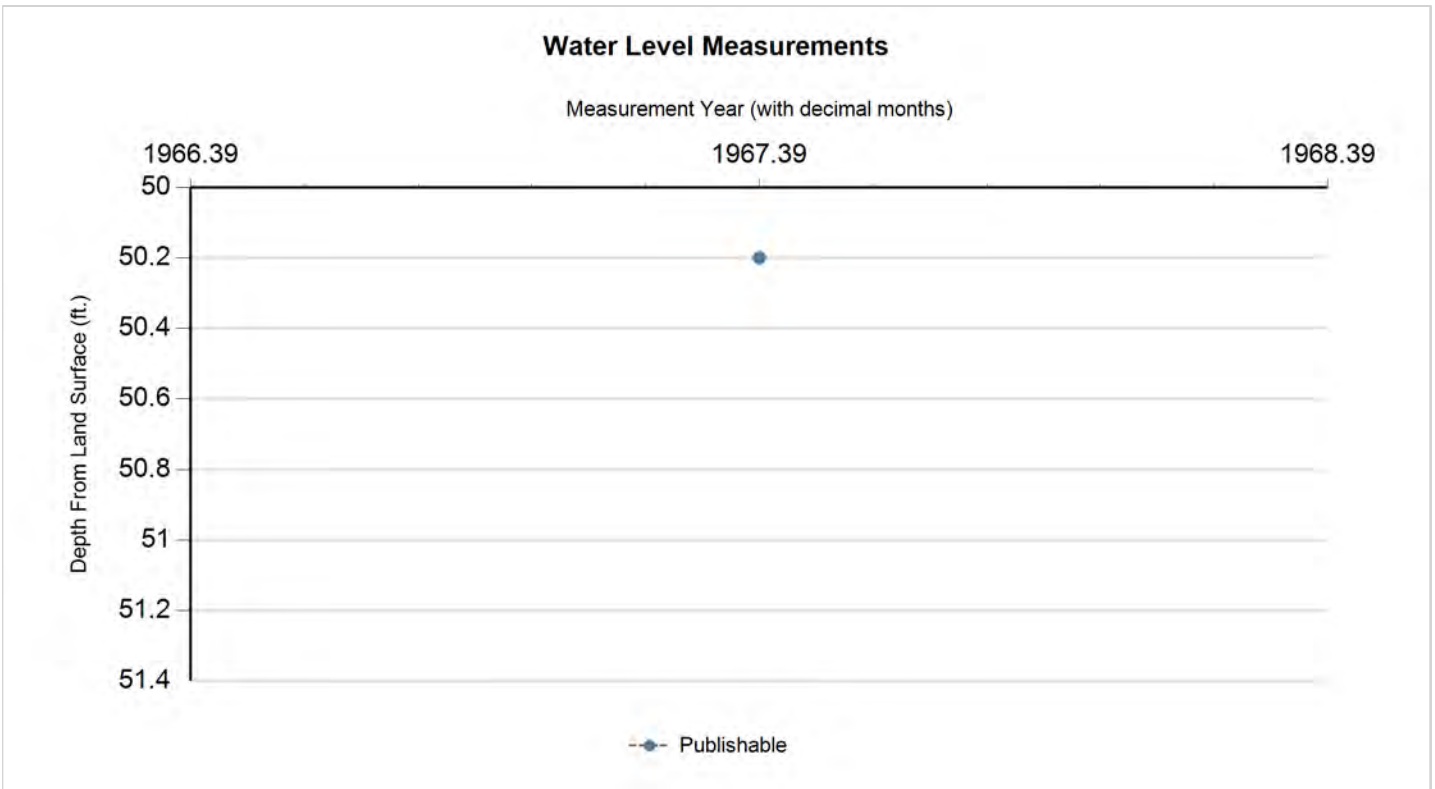
**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**





Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	5/23/1967		50.2		2224.8	1	U.S. Geological Survey	Steel Tape		

#### Code Descriptions

Status Code	Status Description
P	Publishable

### Water Quality Analysis

**Sample Date:** 8/8/1967    **Sample Time:** 0000    **Sample Number:** 1    **Collection Entity:** U.S. Geological Survey

**Sampled Aquifer:** Dog Creek Shale and Blaine Gypsum

**Analyzed Lab:** U.S. Geological Survey Lab

**Reliability:** Collected from pumped well, but not filtered or preserved

**Collection Remarks:** No Data

Parameter Code	Parameter Description	Flag	Value*	Units	Plus/Minus
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		0	mg/L	
00410	ALKALINITY, TOTAL (MG/L AS CaCO3)		167.21	mg/L	
00440	BICARBONATE ION, CALCULATED (MG/L AS HCO3)		204	mg/L	
00910	CALCIUM (MG/L)		568	mg/L	
00445	CARBONATE ION, CALCULATED (MG/L AS CO3)		0	mg/L	
00940	CHLORIDE, TOTAL (MG/L AS CL)		128	mg/L	
00950	FLUORIDE, DISSOLVED (MG/L AS F)		0.8	mg/L	
00900	HARDNESS, TOTAL, CALCULATED (MG/L AS CaCO3)		1680	mg/L	
00920	MAGNESIUM (MG/L)		63	mg/L	
71851	NITRATE NITROGEN, DISSOLVED, CALCULATED (MG/L AS NO3)		17	mg/L	
00400	PH (STANDARD UNITS), FIELD		7.5	SU	
00937	POTASSIUM, TOTAL (MG/L AS K)		3	mg/L	
71860	RESIDUAL SODIUM CARBONATE, CALCULATED		0		
00955	SILICA, DISSOLVED (MG/L AS SiO2)		17	mg/L	
00931	SODIUM ADSORPTION RATIO, CALCULATED (SAR)		0.83		
00932	SODIUM, CALCULATED, PERCENT		9	PCT	
00929	SODIUM, TOTAL (MG/L AS NA)		78	mg/L	
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM AT 25C)		2730	MICR	
00945	SULFATE, TOTAL (MG/L AS SO4)		1460	mg/L	
00010	TEMPERATURE, WATER (CELSIUS)		19	C	
70301	TOTAL DISSOLVED SOLIDS , SUM OF CONSTITUENTS (MG/L)		2435	mg/L	

\* Value may not display all significant digits for parameter in results, check Scanned Documents for laboratory paperwork..

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# Well # 2



## Texas Water Development Board (TWDB) Groundwater Database (GWDB) Well Information Report for State Well Number 05-54-307



[GWDB Reports and Downloads](#)

**Well Basic Details**

[Scanned Documents](#)

State Well Number	0554307
County	Wheeler
River Basin	Red
Groundwater Management Area	1
Regional Water Planning Area	A - Panhandle
Groundwater Conservation District	Panhandle GCD
Latitude (decimal degrees)	35.243611
Latitude (degrees minutes seconds)	35° 14' 37" N
Longitude (decimal degrees)	-100.269167
Longitude (degrees minutes seconds)	100° 16' 09" W
Coordinate Source	+/- 1 Second
Aquifer Code	313DCKB - Dog Creek Shale and Blaine Gypsum
Aquifer	Blaine/Other
Aquifer Pick Method	
Land Surface Elevation (feet above sea level)	2325
Land Surface Elevation Method	Interpolated From Topo Map
Well Depth (feet below land surface)	103
Well Depth Source	Driller's Log
Drilling Start Date	
Drilling End Date	4/0/1965
Drilling Method	
Borehole Completion	

Well Type	Withdrawal of Water
Well Use	Irrigation
Water Level Observation	GCD Current Observation Well
Water Quality Available	No
Pump	Turbine
Pump Depth (feet below land surface)	
Power Type	Natural-Gas Engine
Annular Seal Method	
Surface Completion	
Owner	R.C. Hawk
Driller	Billy Troxell
Other Data Available	
Well Report Tracking Number	
Plugging Report Tracking Number	
U.S. Geological Survey Site Number	
Texas Commission on Environmental Quality Source Id	
Groundwater Conservation District Well Number	
Owner Well Number	
Other Well Number	
Previous State Well Number	
Reporting Agency	Groundwater Conservation District
Created Date	6/10/2003
Last Update Date	6/10/2003

Remarks

**Casing**

Diameter (in.)	Casing Type	Casing Material	Schedule	Gauge	Top Depth (ft.)	Bottom Depth (ft.)
13	Blank				0	67

**Well Tests - No Data**

**Lithology - No Data**

**Annular Seal Range - No Data**

**Borehole - No Data**

**Plugged Back - No Data**

**Filter Pack - No Data**

**Packers - No Data**



**Texas Water Development Board (TWDB)**  
**Groundwater Database (GWDB)**  
**Well Information Report for State Well Number**  
**05-54-307**

Status Code	Date	Time	Water Level (ft. below land surface)	Change value in ( ) indicates rise in level	Water Elevation (ft. above sea level)	Meas #	Measuring Agency	Method	Remark ID	Comments
P	1/14/2016		51.7	(5.40)	2273.3	1	Groundwater Conservation District	Electric Line		
P	11/20/2017		51.9	0.20	2273.1	1	Groundwater Conservation District	Electric Line		windmill not being used right now.

**Code Descriptions**

Status Code	Status Description
P	Publishable
Q	Questionable

Remark ID	Remark Description
2	Pumping-level measurement
4	Well pumped recently
10	Inconsistent or spotty tape mark due to wet or leaking casing



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Water Quality Analysis - No Data Available

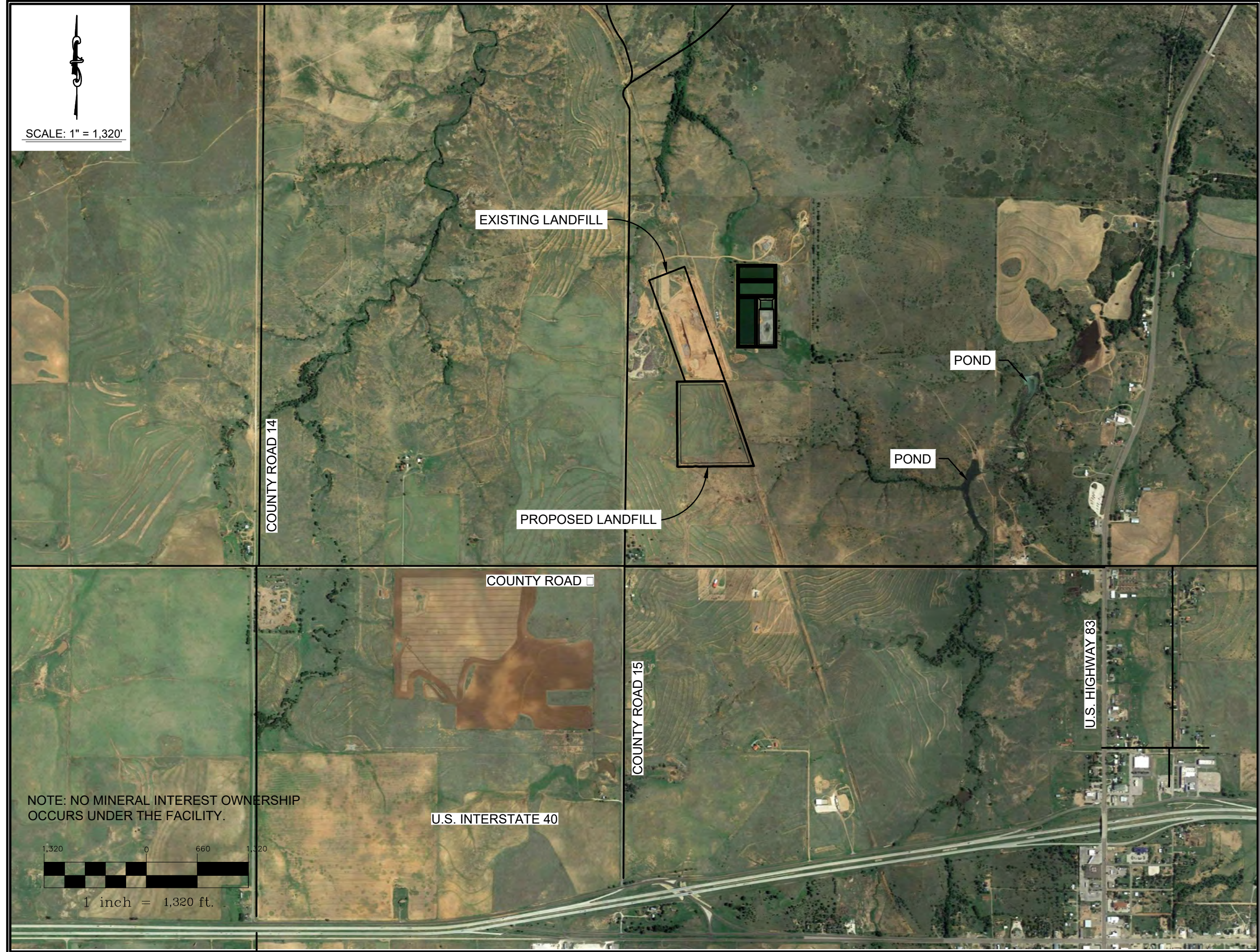
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*GWDB DISCLAIMER: Except where noted, all of the information provided in the Texas Water Development Board (TWDB) Groundwater Database (<http://www.twdb.texas.gov/groundwater/data/gwdb.rpt.asp>) is believed to be accurate and reliable; however, the TWDB assumes no responsibility for any errors appearing in rules or otherwise. Further, TWDB assumes no responsibility for the use of the information provided. PLEASE NOTE that users of these data are responsible for checking the accuracy, completeness, currency and/or suitability of all information themselves. TWDB makes no guarantees or warranties as to the accuracy, completeness, currency, or suitability of the information provided via the Groundwater Database (GWDB). TWDB specifically disclaims any and all liability for any claims or damages that may result from providing GWDB data or the information it contains. For additional information or answers to questions concerning the TWDB GWDB, contact the Groundwater Data Team at [GroundwaterData@twdb.texas.gov](mailto:GroundwaterData@twdb.texas.gov).*





SCALE: 1" = 1,320'



EXISTING LANDFILL

PROPOSED LANDFILL

POND

POND

COUNTY ROAD 14

COUNTY ROAD

COUNTY ROAD 15

U.S. HIGHWAY 83

U.S. INTERSTATE 40

NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.



1 inch = 1,320 ft.



**OJD Engineering, L.P.**  
*The Benchmark*  
 Wellington | Amarillo | Wolfforth  
 www.OJDEngineering.com F-4393

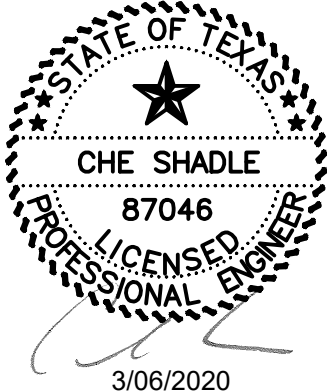
**WELLINGTON**  
 P.O. Box 543  
 Wellington, TX 79085  
 (806) 447-2503

**WOLFFORTH**  
 502 N. Dowden Road, Ste 102  
 Wolfforth, TX 79382  
 (806) 791-2300

**AMARILLO**  
 2420 Lakeview Drive  
 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

SITE DEVELOPMENT PLAN



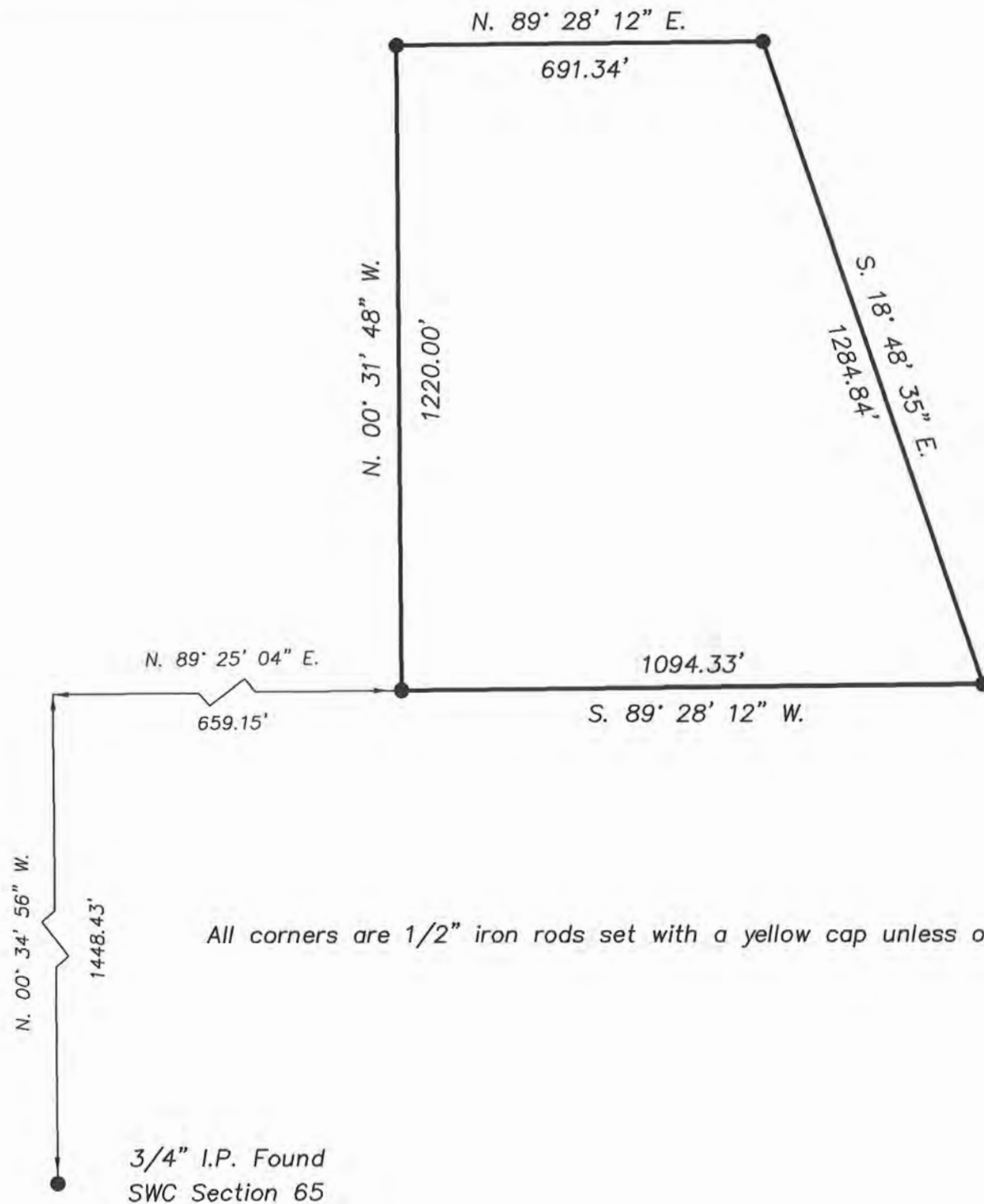
STATE OF TEXAS  
 ★  
 CHE SHADLE  
 87046  
 LICENSED ENGINEER  
 3/06/2020

Drawn By: CCG  
 Checked By: MCS  
 Scale: 1" = 1,320'  
 Date: March 2020

Drawing:  
**4**



25.00 Acres



Bearings based on U.S. State Plane of 1983  
"Texas North Zone" - #4201  
Distances are Grid Distances

STATE OF TEXAS : KNOW ALL MEN BY THESE PRESENTS,  
COUNTY OF COLLINGSWORTH : that I, Richard E. Johnson, Registered Professional Land Surveyor, do hereby certify that I did cause to be surveyed on the ground the tract of land shown on this plat, and to the best of my knowledge and belief, the said description is true and correct.

IN WITNESS THEREOF, my hand and seal, this the 17th day of April, A.D., 2019.



Richard E. Johnson  
Registered Professional  
Land Surveyor #4263

A Plat of 25.00 acres out of the southwest quarter of Section 65, Block 17, H. & G. N. Ry. Co. Survey, Wheeler County, Texas.

SCALE: 1" = 300'	APPROVED BY:	DRAWN BY:
DATE: 04/17/19		FILE NAME:

 **OJD Engineering, L.P.**  
Consulting Engineers & Surveyors

806-447-2503  
P.O. Box 543  
Wellington, Texas 79095

Firm No. 10090900

DRAWING NUMBER

5

FIELD NOTES for a 25.00 acre tract of land out of the southwest quarter of Section 65, Block 17, H. & G. N. Ry. Co. Survey, Wheeler County, Texas.

BEGINNING at 1/2" iron rod set with a yellow cap (hereafter referred to as an OJD cap) which bears N. 00° 34' 56" W. a distance of 1448.43 feet and N. 89° 25' 04" E. a distance of 659.15 feet from a 3/4" iron pipe found at the southwest corner of said Section 65 for the southwest corner of this tract.

THENCE N. 00° 31' 48" W. a distance of 1220.00 feet to an OJD cap set for the northwest corner of this tract.

THENCE N. 89° 28' 12" E. a distance of 691.34 feet to an OJD cap set for the northeast corner of this tract.

THENCE S. 18° 48' 35" E. a distance of 1284.84 feet to an OJD cap set for the southeast corner of this tract.


THENCE S. 89° 28' 12" W. a distance of 1094.33 feet to the place of BEGINNING and containing 25.00 acres of land.

\* \* \* \* \*

STATE OF TEXAS : KNOW ALL MEN BY THESE PRESENTS,  
that I, Richard E. Johnson,  
COUNTY OF COLLINGSWORTH : Registered Professional Land  
Surveyor, do hereby certify that  
I did cause to be surveyed on the ground the above described  
tract of land, and to the best of my knowledge and belief, the  
said description is true and correct.

IN WITNESS THEREOF, my hand and seal, this the 17th day of April,  
A.D., 2019.



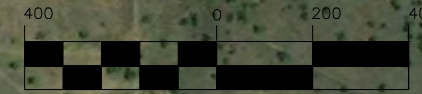
  
Richard E. Johnson  
Registered Professional  
Land Surveyor #4263

OJD ENGINEERING, LP \* WELLINGTON, TEXAS \* Firm #10090900



SCALE: 1" = 400'

NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.



1 inch = 400 ft.

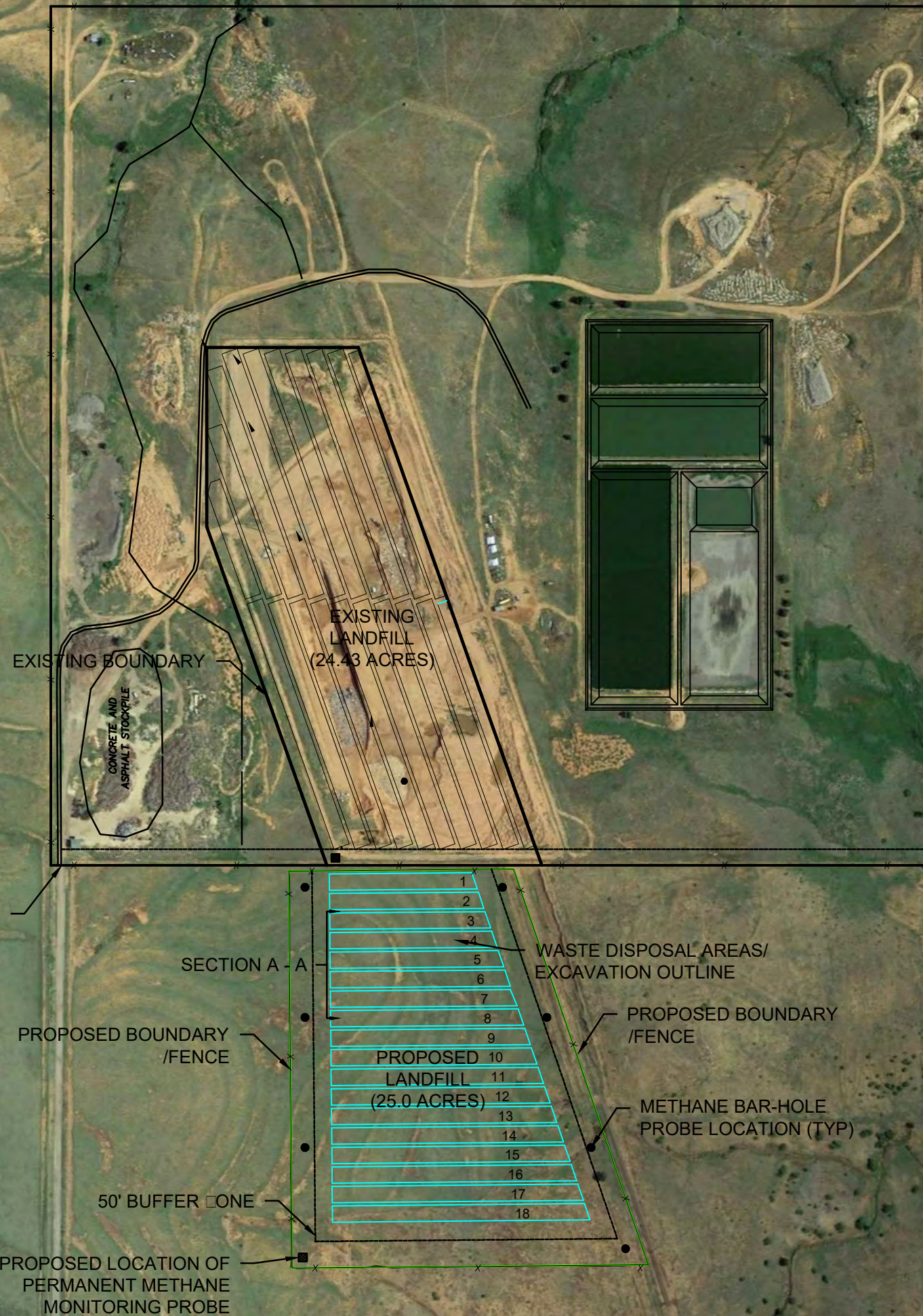


TYPICAL BERM DETAIL  
NTS

LEGEND:

DETAIL SHOWN ABOVE. CONSTRUCTION OF THE BERM IS REQUIRED TO PREVENT RUNOFF FROM BECOMING CONTAMINATED.

- NATURAL DRAINAGE OF THE AREA WILL NOT BE AFFECTED BY THE CONSTRUCTION OF THE PITS. RUNOFF WILL FLOW AROUND THE BERMS SURROUNDING THE PITS AND CONTINUE ON ITS NATURAL COURSE.
- OFF-SITE RUNOFF WILL NOT CROSS THE PERMITTED BOUNDARIES BECAUSE OF THE FACILITY'S LOCATION ON TOP OF A HILL. SEE APPENDIX 4 (USGS TOPOGRAPHIC MAP) OF PARTS I&II OF THE APPLICATION.
- THE WORST CASE DEPTH OF RUNOFF AFFECTING THE PITS WILL BE FROM THE WITHIN THE PERMITTED BOUNDARIES ONLY. INCLUDED IN THIS ATTACHMENT ARE CALCULATIONS USED TO DETERMINE THE DEPTH OF FLOW FOR THE WORST CASE RUNOFF SCENARIO. THE DEPTH OF FLOW CALCULATED IS 0.05 FEET ALONG THE EDGE OF THE MOST NORTH WESTERLY PIT. THIS IS WELL BELOW THE 2 FEET DESIGN HEIGHT OF THE BERM AS SHOWN ABOVE IN THE TYPICAL BERM SECTION.
- 100-YEAR AND 25-YEAR FLOW CALCULATIONS ARE INCLUDED AS PART OF THIS ATTACHMENT. THE 100 YEAR FLOOD ZONE CALCULATIONS ARE SHOWN IN APPENDIX 8 (LOCATION RESTRICTIONS) OF PARTS I&II OF THE APPLICATION.
- RAINFALL INTENSITY/FREQUENCY CURVES WERE GENERATED USING RAINFALL DATA FROM THE U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU, RAINFALL FREQUENCY ATLAS OF THE UNITED STATES.
- ADJOINING OFF-SITE CONTOURS ARE NOT PROVIDED BECAUSE FLOW FLOW FROM THESE AREAS DO NOT AFFECT THE LANDFILL BOUNDARIES.



**OJD Engineering, L.P.**  
**The Benchmark**  
 Wellington | Amarillo | Wolfforth  
 www.OJDEngineering.com F-4393

**WELLINGTON**  
 P.O. Box 543  
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**AMARILLO**  
 2420 Lakewood Drive  
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 (806) 352-7117

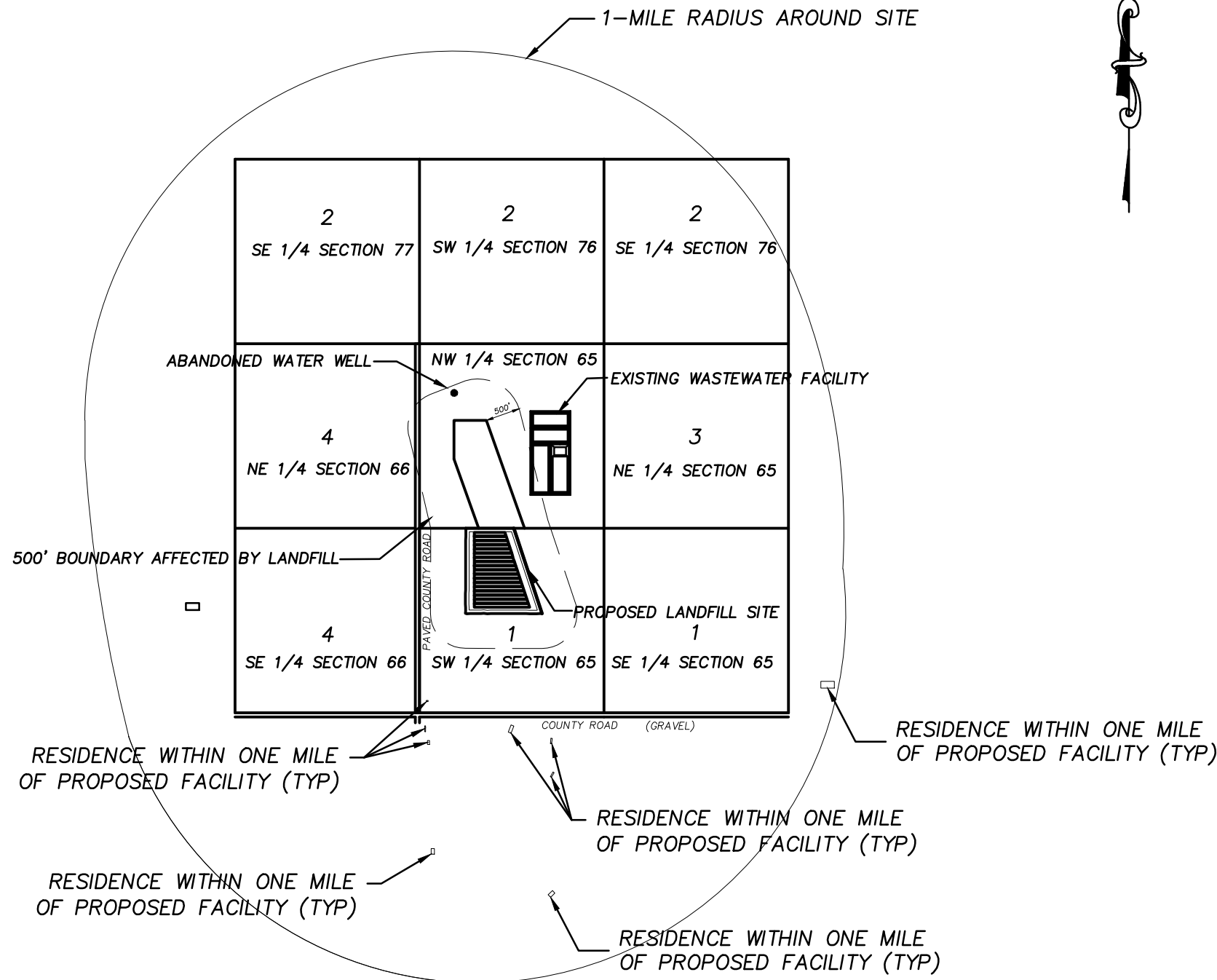
CITY OF SHAMROCK LANDFILL

SITE LAYOUT PLAN

STATE OF TEXAS  
 ★  
 CHE SHADLE  
 87046  
 LICENSED PROFESSIONAL ENGINEER  
 3/13/2020

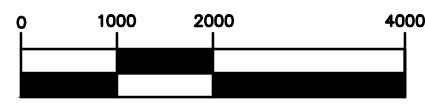
Drawn By: CCG	Drawing: 6
Checked By: MCS	
Scale: 1" = 400'	
Date: March 2020	





NOTES:

1. DUE TO THE LANDFILL'S REMOTE LOCATION, ZONING IS NOT A FACTOR.
2. EACH ADJACENT PROPERTY OWNER USES THE LAND FOR AGRICULTURAL PURPOSES.
3. THERE ARE NINE RESIDENCES WITHIN ONE MILE OF THE SITE. THERE ARE NO COMMERCIAL ESTABLISHMENTS, SCHOOLS, LISCENSED CHILD CARE FACILITIES, CHURCHES, CEMETERIES, PONDS OR LAKES, OR RECREATIONAL AREAS WITHIN ONE MILE OF THE FACILITY.
4. THERE ARE NO DRAINAGE PIPELINE OR UTILITY EASEMENTS WITHIN ONE MILE OF THE FACILITY.
5. THER IS ONE KNOWN WELL WITHIN 500 FEET OF THE SITE. THIS WELL IS SHOWN ON THIS ATTACHMENT.
6. GROWTH TRENDS WILL NOT EFFECT THE SITE.
7. THE LANDFILL WILL HAVE NO ADVERSE IMPACTS UPON HUMAN HEALTH OR THE ENVIRONMENT.



LIST OF LANDOWNERS:

- |  |   |  |  |
|--|---|--|--|
| 1. MATTHEW & KATHERINE HINTON<br>PO BOX 759<br>PAMPA, TX 79066 | 2. DARREN RAY HEFLEY<br>1604 ELLIS AVE<br>WHEELER, TX 79096 | 3. MATTHEW & KATHERINE HINTON<br>PO BOX 759<br>PAMPA, TX 79066 | 4. B.C. BUCKINGHAM PROPERTIES LP<br>16746 FM 2697<br>WHEELER, TX 79096 |
|--|---|--|--|

<b>CITY OF SHAMRCOK LANDUSE/LANDOWNER MAP</b>		
SCALE: 1" = 2000'	REVISION DATE:	DRAWING NUMBER
DATE: March 2020		7
<b>OJD Engineering, L.P.</b> Consulting Engineers & Surveyors		806-352-7117 2420 Lakeview Drive Amarillo, TX 79109



**OJD Engineering**

*The Benchmark*

PH-4393



April 18, 2019

Martin R. Smith, P.E.  
District Engineer  
Texas Department of Transportation  
7599 US 287  
Childress, TX 79201

Re: City of Shamrock  
Municipal Solid Waste Landfill  
Wheeler County, Texas

Dear Mr. Smith:

The City of Shamrock is in the process of obtaining a permit to operate and municipal solid waste landfill. We are requesting that you look over draft Part I and the location map that are attached to this letter, and inform us if this landfill would cause any problems due to traffic or any other matter associated with TxDOT.

Please call me if you have any questions.

Sincerely,

Clint Green

Attachments

Wellington | Amarillo | Wolfforth

ph: 806.352.7117

2420 Lakeview Dr. Amarillo, TX 79109

fax: 806.352.7188

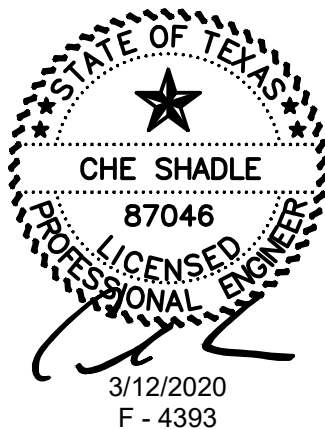
[www.OJDEngineering.com](http://www.OJDEngineering.com)

APPENDIX 17



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## **GROUNDWATER AND SURFACE WATER PLAN AND DRAINAGE PLAN**

### **1. INTRODUCTION**

#### **1.1 Facility Description**

The proposed site is located approximately one- and one-half miles northwest of the City of Shamrock. It is situated on 25.00 acres of land in Wheeler County, Texas.

The City will use a trench fill system to dispose of waste. Each trench will be 791 to 455 feet long, 50 feet wide, and 20 feet deep. The facility will be used to dispose of municipal solid waste, limbs, construction demolition, and white goods.

The site is located at the top of a hill. External flow will not enter the site. The only flow across the site will be sheet flow generated within the permitted boundary. Flow across the site is such that drainage channels, culverts, holding ponds, and storm sewers are not necessary. Contaminated water will not enter or leave the permitted boundary; therefore, eliminating the need for any special surface water protection facilities. Groundwater will be protected through the use of the clay cover installed over the pit. The City of Shamrock will operate the landfill as a Type 1-AE facility, thus eliminating the need for a leachate collection system. Any leachate generated will be minimal, and considering the fact that the bottom of the trenches on this site will be a clay material, most of it will remain in the pit.

#### **1.2 Regulations**

The Groundwater and Surface Water Protection Plan and Drainage Plan is generated to ensure that the groundwater and surface water is protected in and around the landfill. This plan is designed pursuant §330.03 of the TCEQ rules and regulations.

### **2. DRAWING**

#### **2.1 General**

A drawing is attached to this report and is labeled Drainage Plan. This drawing demonstrates the drainage areas relative to the permitted boundary. The offsite drainage area that contributes to the entire watershed, where the 100-Year flood zone was calculated, is not shown because it does not enter the permitted boundary.

## **2.2 Berms**

Temporary Berms will be constructed around each open pit to keep onsite runoff from entering the active face of the facility. A cross-section of the berm is shown on the attached drawing. A more detailed drawing of berm locations and cross-sections is shown in Appendix 14 Drawing 6.

## **2.3 100-Year Floodplain**

The 100-Year floodplain is not shown on the map because it is not located within the permitted boundary. Attached to this plan are the calculations for the 100-Year floodplain. All operations are located outside of the 100-Year floodplain.

# **3. DRAINAGE AND RUNOFF CONTROL ANALYSIS**

## **3.1 Hydrologic Method and Calculations**

### **3.1.1 100-Year Flood Plain Elevation**

The proposed Shamrock Municipal Solid Waste Landfill site is bordered to the north and west by a seasonal creek channel. This Channel is an unnamed Tributary to North Fork Red River. The facility is located outside a FEMA study area. Flood Hazard Boundary Maps for unincorporated areas of Wheeler County have not been published by FEMA. The proposed new site for the municipal solid waste landfill is at the top of a hill. The 100-year flood elevation was computed at a point on a tributary to the North Fork Red River, where the watershed, including the landfill site, enters the creek. See Appendix 31 of Parts I&II (USGS Topographic Map) for the location of the watershed and the watershed outfall. OJD Engineering performed a preliminary storm water runoff analysis to determine an estimated elevation of the 100-year storm event. Rainfall frequency and duration data were taken from the U.S. Department of Commerce Rainfall Frequency Atlas of the United States, Technical Paper No. 40. The analysis was performed using Rational Method for determining rainfall runoff. The Manning formula was used to estimate the water surface elevation when stream flow equals the maximum discharge for the 100-year storm event. Channel geometry was measured at a point in the Creek. To obtain a more precise floodplain elevation for this drainage area, more detailed topographic data would be required, and a dynamic stream profile analysis would be necessary. These steps are considered to be more detailed than required for the purpose of this certification considering the landfill site is located on top of a hill. The results of the calculations are shown in Table 1.

Table 1. 100-Year Flood Zone Calculation Results

---

Drainage Area:	25 acres
100-Year Storm Event:	3.61 inches/hour
Source: U.S. Department of Commerce Weather Bureau Rainfall frequency Atlas	
Peak Discharge:	179.80 cfs
100-Year Storm Depth:	1.75 ft
Dry Weather Channel Bottom Elevation:	2266.41 ft
100-Year Flood Elevation:	2268.16 ft
Site Elevation:	2286.41 ft

---

Attached to this plan are the calculations used to generate the results listed above (100-Year Flood Zone Data and Calculations).

### 3.1.2 Flow Rate Calculations for Temporary Berms

Flow rate calculations were performed to verify that the two feet temporary berms would be sufficient to keep water from entering the active pit. The rational method was used to calculate the flow rate for the given drainage area. The drainage area used is the largest area that contributes to the flow affecting the berms. The worst-case scenario used for the design was for pit No. 15 (See Appendix 11, Drawing 4, Site Development Plan). This particular pit was selected because more runoff will affect it than any other pit. The calculations showed that the two feet berms were capable of handling the flow associated with the 100-Year storm. See calculations attached to this plan labeled Flow Rate Calculations for Temporary Berms.

### 3.1.3 On-Site Flow Rate Calculations

Flows exiting the site are shown on the attached drawing titled Drainage Plan. Four separate areas within the permitted boundary contribute to flows exiting the site. The calculations were performed using the Rational Method. The results of the calculations for each area are attached to this plan, and are labeled Flow Rate Calculations for Area I-IV.

### **3.2 Rainfall Intensity**

The rainfall intensity used for the design of the facility was generated for a 100-Year storm event. The regulations call for a design using a 25-Year storm event; however, given the fact that there is no offsite run-on, and the permitted boundary is relatively small, a 100-Year storm event was used in the design to obtain a more decisive flow to check against the berm heights surrounding the active pit. The source for the rainfall frequency and intensity data comes from the U.S. Department of Commerce Weather Bureau, NOAA Atlas 14, Volume 11, Version 2.

### **3.3 Hydrologic Calculations for Collection Facilities**

There are no collection, drainage, or detention facilities required for the landfill site.

### **3.4 Natural Drainage**

The natural drainage of the site within the permitted boundary will not be significantly altered as a result of the landfill development. The final contours will match the existing contours when the landfill is filled to capacity. The berms that surround the active pits will fall along with the natural topography, thus allowing flow to proceed around the pit without greatly affecting the natural drainage.

### **3.5 Erosion and Sedimentation Control**

Erosion will be controlled on site by maintaining the vegetation on all unused portions of the landfill, and installing a vegetative cover on the filled areas once they are closed. Sedimentation will be controlled in same manner used to control erosion. By having the vegetative covering in place at all times, sedimentation will be limited to the areas directly adjacent to the active pit. This sedimentation will be removed as the pit is filled and covered.



**OJD Engineering**

*The Benchmark*

PH-4393



April 18, 2019

Julie Wicker  
Texas Parks and Wildlife Department  
Wildlife Division  
Wildlife Habitat Assessment Program  
4200 Smith School Road  
Austin, TX 78744-3291

Re: City of Shamrock  
Municipal Solid Waste Landfill  
Wheeler County, Texas

Dear Ms. Wicker:

The City of Shamrock is requesting information on sensitive species and natural communities within or near the proposed landfill in Wheeler County. A site map is attached to this letter.

Please call me if you have any questions.

Sincerely,

Clint Green

Attachments

Wellington | Amarillo | Wolfforth

ph: 806.352.7117

2420 Lakeview Dr. Amarillo, TX 79109

fax: 806.352.7188

[www.OJDEngineering.com](http://www.OJDEngineering.com)

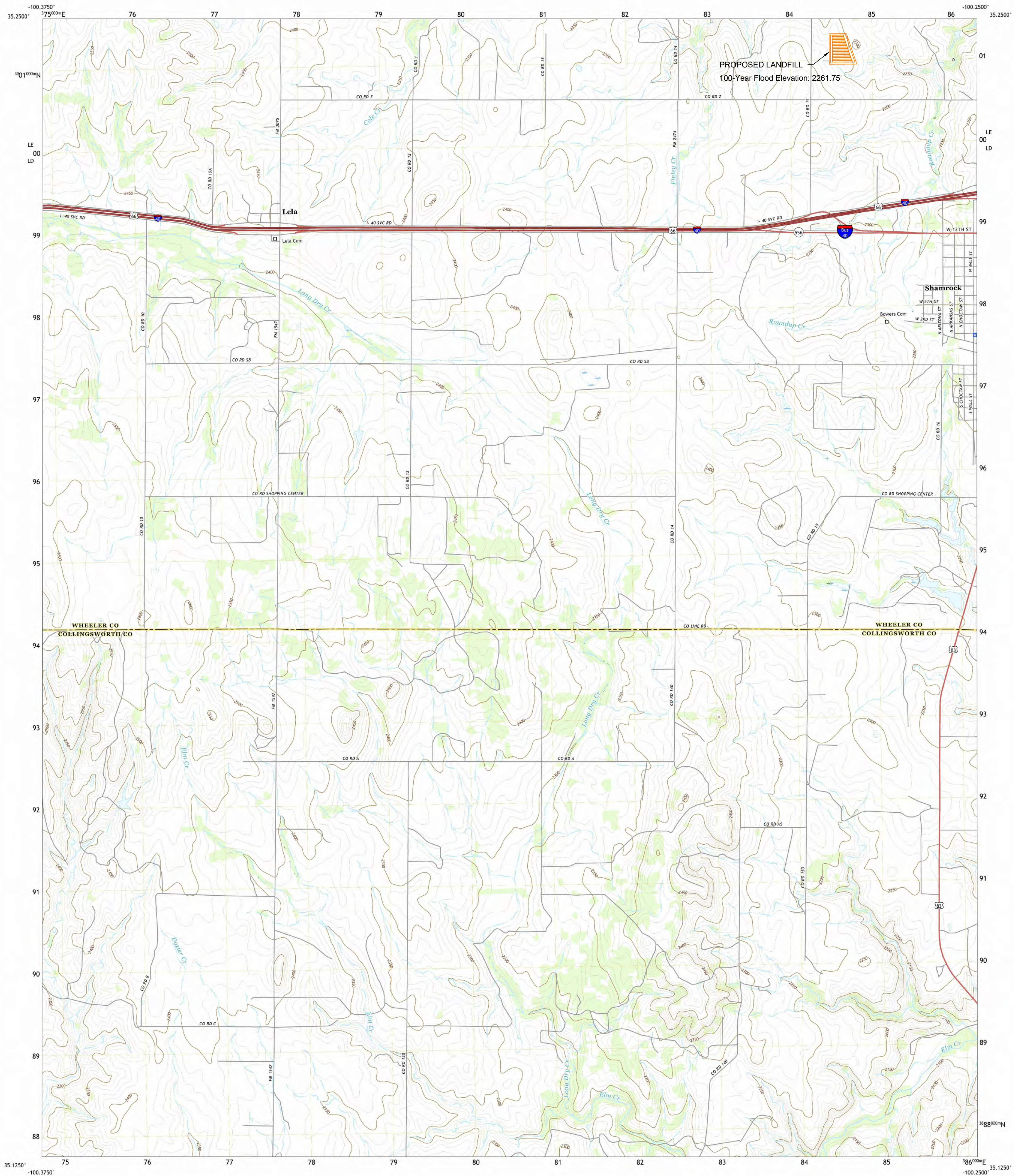




U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

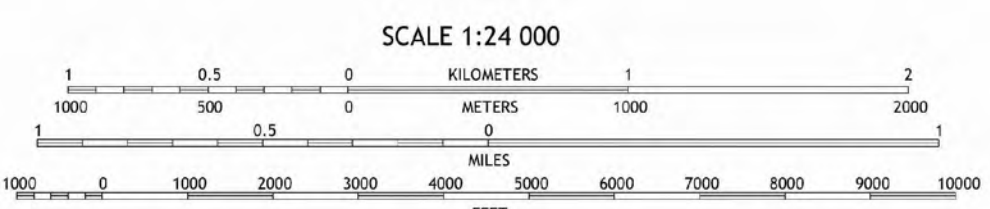
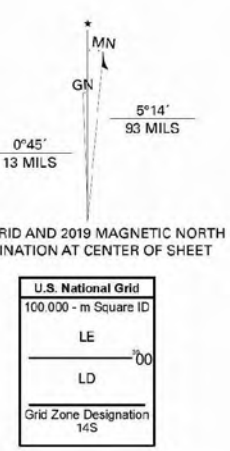


SHAMROCK WEST QUADRANGLE  
TEXAS  
7.5-MINUTE SERIES



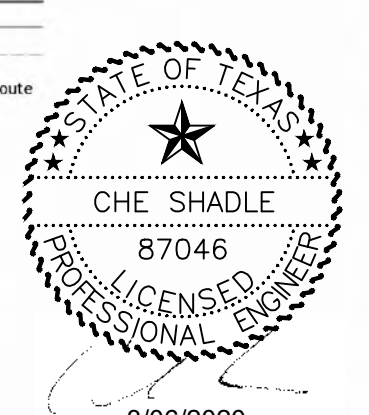
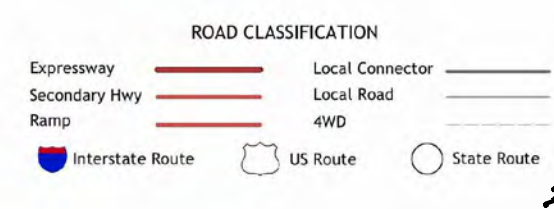
Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1:000-meter grid/Universal Transverse Mercator, Zone 14S  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands with government  
reservations may not be shown. Obtain permission before  
entering private lands.

Imagery.....NAP, September 2016 - November 2016  
Roads.....U.S. Census Bureau, 2015 - 2018  
Names.....GNS, 1979 - 2018  
Hydrography.....National Hydrography Dataset, 2004 - 2018  
Contours.....National Elevation Dataset, 2002  
Boundaries.....Multiple sources; see metadata file 2016 - 2017  
Wetlands.....FWS National Wetlands Inventory 1977 - 2008



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES



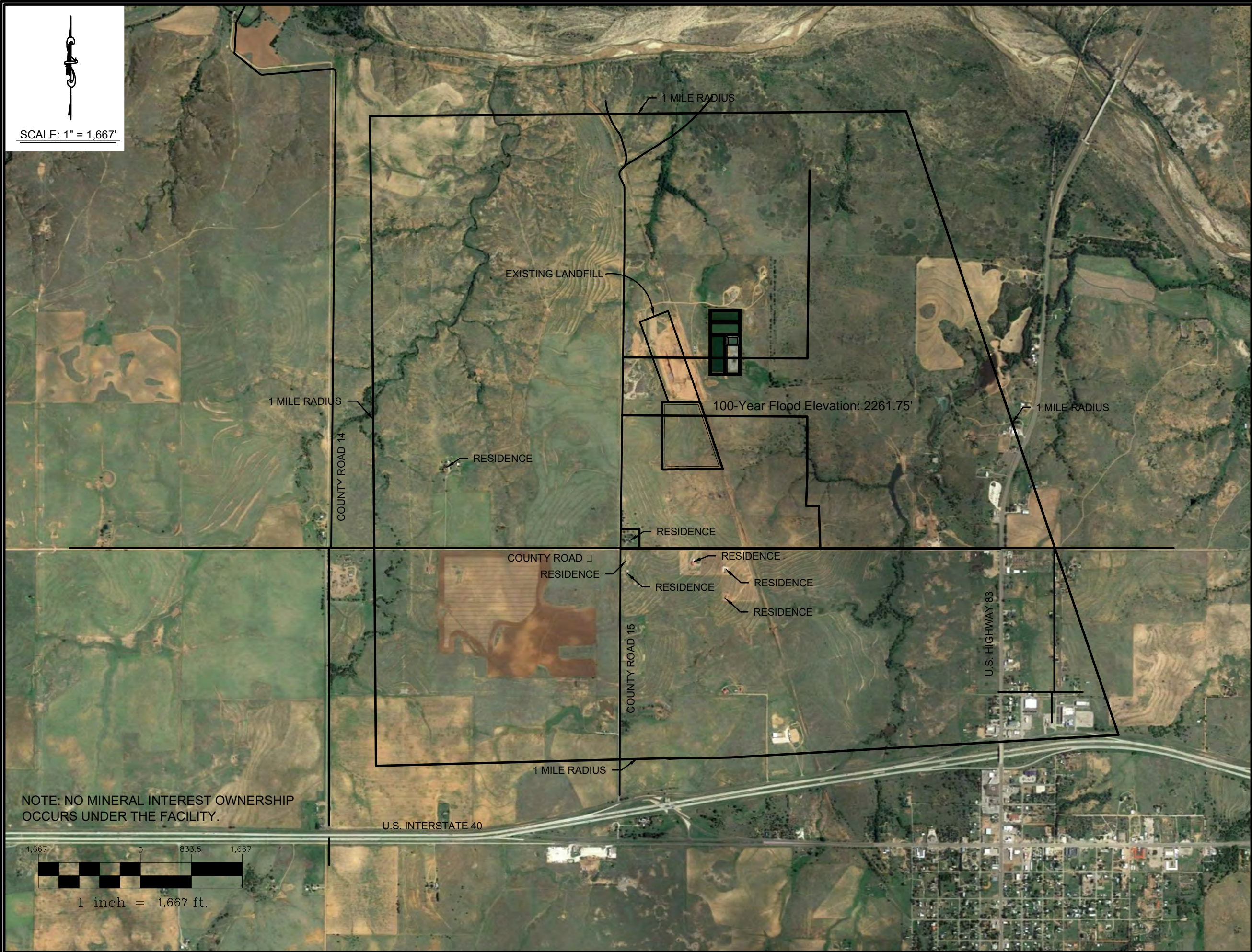
SHAMROCK WEST, TX  
2019



A Appendix 21  
Drawing 8

3/06/2020





NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.

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*The Benchmark*  
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 www.OJDEngineering.com F-4393

**WELLINGTON**  
 P.O. Box 543  
 Wellington, TX 79095  
 (806) 447-2503

**WOLFFORTH**  
 502 N. Dowden Road, Ste 102  
 Wolfforth, TX 79382  
 (806) 791-2300

**AMARILLO**  
 2420 Lakewood Drive  
 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

AERIAL MAP

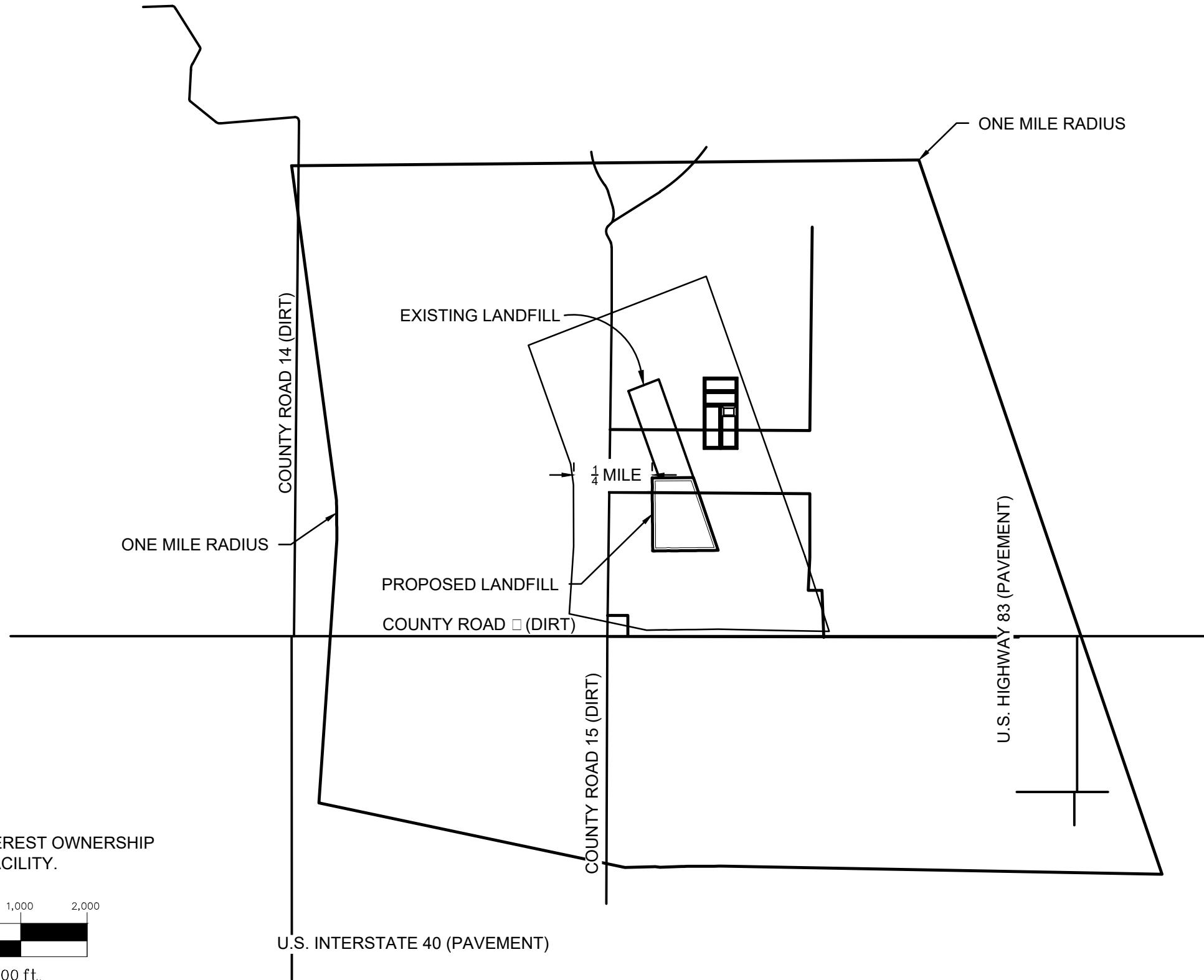
STATE OF TEXAS  
 ★  
 CHE SHADLE  
 87046  
 LICENSED PROFESSIONAL ENGINEER  
 3/13/2020

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Checked By: MCS	9
Scale: 1" = 1,667'	

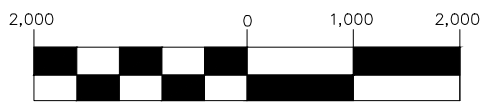




SCALE: 1" = 2,000'



NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.



1 inch = 2,000 ft.

**OJD Engineering, L.P.**  
*The Benchmark*  
 Wellington | Amarillo | Wolforth  
 www.OJDEngineering.com F-4393

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 Wellington, TX 79085  
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**AMARILLO**  
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 Amarillo, TX 79109  
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CITY OF SHAMROCK LANDFILL

PUBLIC ACCESS ROADS

STATE OF TEXAS  
 CHE SHADLE  
 87046  
 LICENSED PROFESSIONAL ENGINEER  
 3/13/2020

Drawn By:	CCG	Sheet:
Checked By:	MCS	10
Scale:	1" = 2,000'	

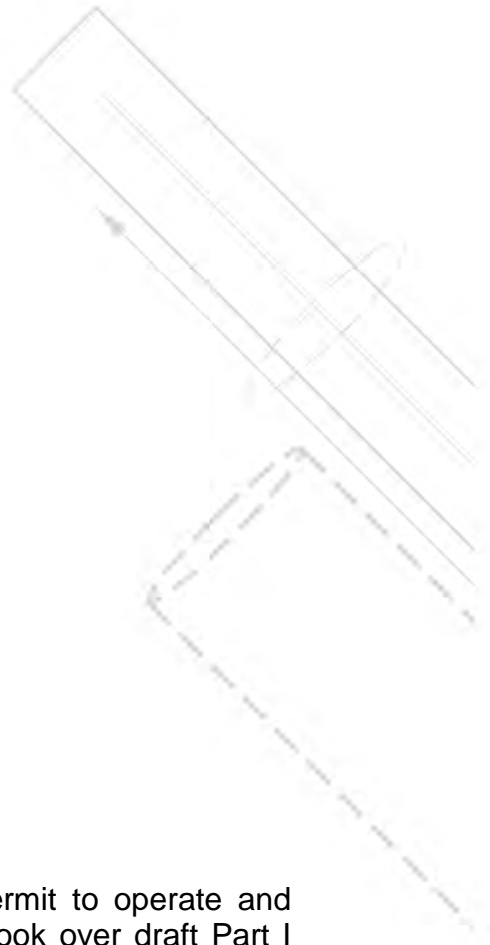




**OJD Engineering**

*The Benchmark*

F#-4393



April 18, 2019

Terry Biggio  
FAA  
Southwest Region  
10101 Hillwood Parkway  
Fort Worth, TX 76177-1524

Re: City of Shamrock  
Municipal Solid Waste Landfill  
Wheeler County, Texas

Dear Mr. Biggio:

The City of Shamrock is in the process of obtaining a permit to operate and municipal solid waste landfill. We are requesting that you look over draft Part I and the location map that are attached to this letter, and inform us if this landfill would conflict with anything of interest to the FAA.

Please call me if you have any questions.

Sincerely,

Clint Green

Attachments

Wellington | Amarillo | Wolfforth

ph: 806.352.7117

2420 Lakeview Dr. Amarillo, TX 79109

fax: 806.352.7188

[www.OJDEngineering.com](http://www.OJDEngineering.com)



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Southwest Region

10101 Hillwood Parkway  
Fort Worth, TX 76177

**JUN 14 2019**

Clint Green  
OJD Engineering, Inc.  
2420 Lakeview Drive  
Amarillo, TX 79109

Dear Mr. Green:

This is in response to your April 18, 2019, correspondence concerning the proposed municipal solid waste landfill in Shamrock, Texas. You requested information regarding conflicts with anything of interest to the Federal Aviation Administration (FAA).

As set forth in Title 14 of the Code of Federal Regulations Part 77, Objects that Affect the Navigable Airspace, the prime concern of the Federal Aviation Administration is the effect of certain proposed construction on the safe and efficient use of the navigable airspace.

To accomplish this mission, aeronautical studies are conducted based on information provided by sponsors on FAA Form 7460-1, Notice of Proposed Construction or Alteration. If your organization is planning to sponsor any construction or alterations that may affect navigable airspace, you must file FAA Form 7460-1 electronically via <https://oeaaa.faa.gov/oeaaa/external/portal.jsp>.

For additional information and assistance, please feel free to contact the Obstruction Evaluation Group at 10101 Hillwood Parkway, Fort Worth, Texas 76177 or (817) 222-5934.

Sincerely,

*for Terry L. Biggio*

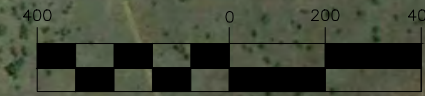
Terry L. Biggio  
Regional Administrator,  
Southwest Region

CC: Obstruction Evaluation Group, AJV-15

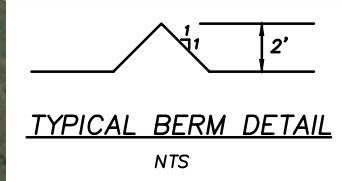
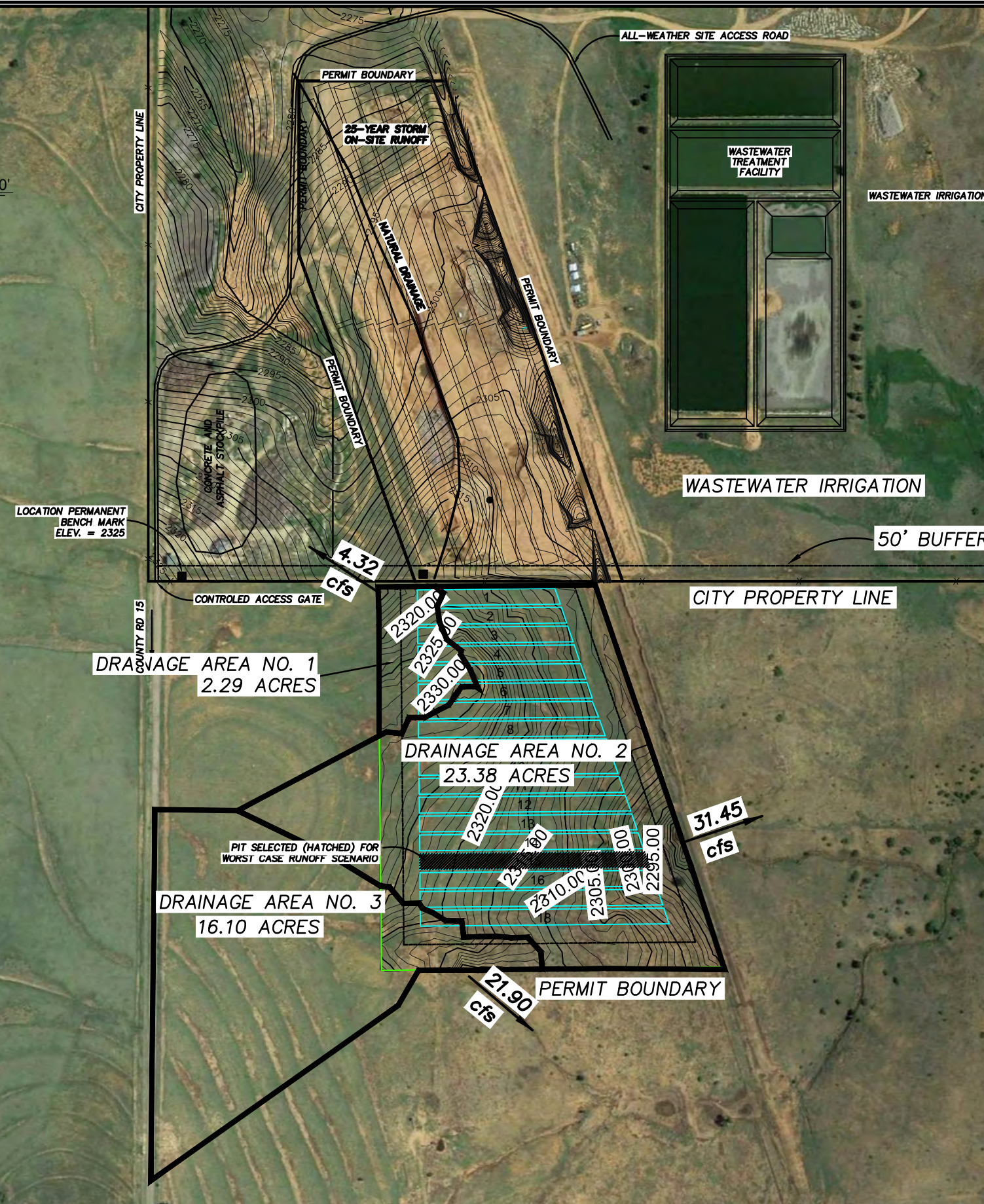


SCALE: 1" = 400'

NOTE: NO MINERAL INTEREST OWNERSHIP OCCURS UNDER THE FACILITY.



1 inch = 400 ft.



**NOTES:**

1. BERMS SHALL BE CONSTRUCTED AROUND ACTIVE PIT PER DETAIL SHOWN ABOVE. CONSTRUCTION OF THE BERM IS REQUIRED TO PREVENT RUNOFF FROM BECOMING CONTAMINATED.
2. NATURAL DRAINAGE OF THE AREA WILL NOT BE AFFECTED BY THE CONSTRUCTION OF THE PITS. RUNOFF WILL FLOW AROUND THE BERMS SURROUNDING THE PITS AND CONTINUE ON ITS NATURAL COURSE.
3. THE WORST CASE DEPTH OF RUNOFF AFFECTING THE PITS WILL BE FROM THE WITHIN THE PERMITTED BOUNDARIES ONLY. INCLUDED IN THIS ATTACHMENT ARE CALCULATIONS USED TO DETERMINE THE DEPTH OF FLOW FOR THE WORST CASE RUNOFF SCENARIO. THE DEPTH OF FLOW CALCULATED IS 0.05 FEET ALONG THE EDGE OF THE SELECTED PIT (SEE THIS SHEET). THIS IS WELL BELOW THE 2 FEET DESIGN HEIGHT OF THE BERM AS SHOWN ABOVE IN THE TYPICAL BERM SECTION.
4. 100-YEAR AND 25-YEAR FLOW CALCULATIONS ARE INCLUDED AS PART OF THIS ATTACHMENT. THE 100 YEAR FLOOD ZONE CALCULATIONS ARE SHOWN IN APPENDIX 8 (LOCATION RESTRICTIONS) OF PARTS I&II OF THE APPLICATION.
5. RAINFALL INTENSITY/FREQUENCY CURVES WERE GENERATED USING RAINFALL DATA FROM THE U.S. DEPARTMENT OF COMMERCE, WEATHER BUREAU, RAINFALL FREQUENCY ATLAS OF THE UNITED STATES.

**OJD Engineering, L.P.**  
The Benchmark

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**AMARILLO**  
2420 Lakeview Drive  
Amarillo, TX 79109  
(806) 352-7117

CITY OF SHAMROCK LANDFILL

DRAINAGE PLAN

STATE OF TEXAS

CHE SHADLE  
87046  
PROFESSIONAL ENGINEER

3/06/2020

Drawn By:	HMM	Sheet:
Checked By:	MCS	12
Scale:	1" = 400'	
Date:	March 2020	



**Flow Calculations**  
**Post Drainage Calculations**  
**Rational Method**  
**Drainage Area No. 1**

$$Q=C_fCIA$$

Time of Concentration Calculations

$$t_t=.828(NL/S^{0.5})^{0.467}$$

S= 0.04 ft/ft  
L= 483 ft  
N= 0.40 Average Grass  
t<sub>t</sub>= 20.81 min

Frequency Factors for the Rational Formula

Recurrence Interval (Years)	Adjustment Factor, Cf
25 yr =	1.10
100 yr =	1.25

Runoff Coefficient C= 0.2

Wheeler County Intensity based on Calculated Time of Concentration

I <sub>25yr</sub> =	2.62	in/hr
I <sub>100yr</sub> =	7.54	in/hr

Drainage Area  
A= 2.29 acres

Flowrate: Rational Method

$$Q=C_fCIA$$

Q <sub>25yr</sub> =	<b>1.32</b>	cfs
Q <sub>100yr</sub> =	<b>4.32</b>	cfs

**Drainage Area No. 2**

$$Q=C_fCIA$$

Time of Concentration Calculations

Time of Concentration: Overflow

$$t_i = 0.828(NL/S^{0.5})^{0.467}$$

S= 0.04 ft/ft  
L= 1000 ft  
N= 0.40 Average Grass  
t<sub>i</sub>= 28.32 min

Time of Concentration: Channelized Flow

$$t_c = L/(60V)$$

L = 698 ft  
V = 1.36 Average Grass  
t<sub>ch</sub> = 8.55 min

Total Time of Concentration

$$t_c = 36.87 \text{ min}$$

Frequency Factors for the Rational Formula

Recurrence Interval (Years)	Adjustment Factor, Cf
25 yr =	1.10
100 yr =	1.25

Runoff Coefficient C= 0.2

Wheeler County Intensity based on Calculated Time of Concentration

I<sub>25yr</sub>= 1.83 in/hr  
I<sub>100yr</sub>= 5.38 in/hr

Drainage Area

A= 23.38 acres

Flowrate: Rational Method

$$Q=C_fCIA$$

Q<sub>25yr</sub>= **9.41** cfs  
Q<sub>100yr</sub>= **31.45** cfs

**Drainage Area No. 3**

$$Q=C_fCIA$$

Time of Concentration Calculations

Time of Concentration: Overflow

$$t_i = .828(NL/S^{0.5})^{0.467}$$

S= 0.02 ft/ft  
L= 541 ft  
N= 0.40 Average Grass  
t<sub>i</sub>= 25.73 min

Time of Concentration: Channelized Flow

$$t_c = L/(60V)$$

L = 587 ft  
V = 0.93 Average Grass  
t<sub>ch</sub> = 10.52 min

Total Time of Concentration

$$t_c = 36.25 \text{ min}$$

Frequency Factors for the Rational Formula

Recurrence Interval (Years)	Adjustment Factor, Cf
25 yr =	1.10
100 yr =	1.25

Runoff Coefficient C= 0.2

Wheeler County Intensity based on Calculated Time of Concentration

I<sub>25yr</sub>= 1.85 in/hr  
I<sub>100yr</sub>= 5.44 in/hr

Drainage Area

A= 16.10 acres

Flowrate: Rational Method

$$Q=C_fCIA$$

Q<sub>25yr</sub>= **6.55** cfs  
Q<sub>100yr</sub>= **21.90** cfs



### Flow Rate Calculations for Temporary Berms

#### Assumptions

Worst Case: proposed pit with largest runoff area

Pit Selected: Hatched Pit (See Drainage Plan)

Runoff all drains toward the pit at 45° angles to its length

Pit Length = 715 feet, Half of the pit will have the largest runoff = 358 feet

Runoff at the berm approximates a channel 358 feet wide

Drainage Area No. 2  $Q_{100yr} = 31.45$  cfs

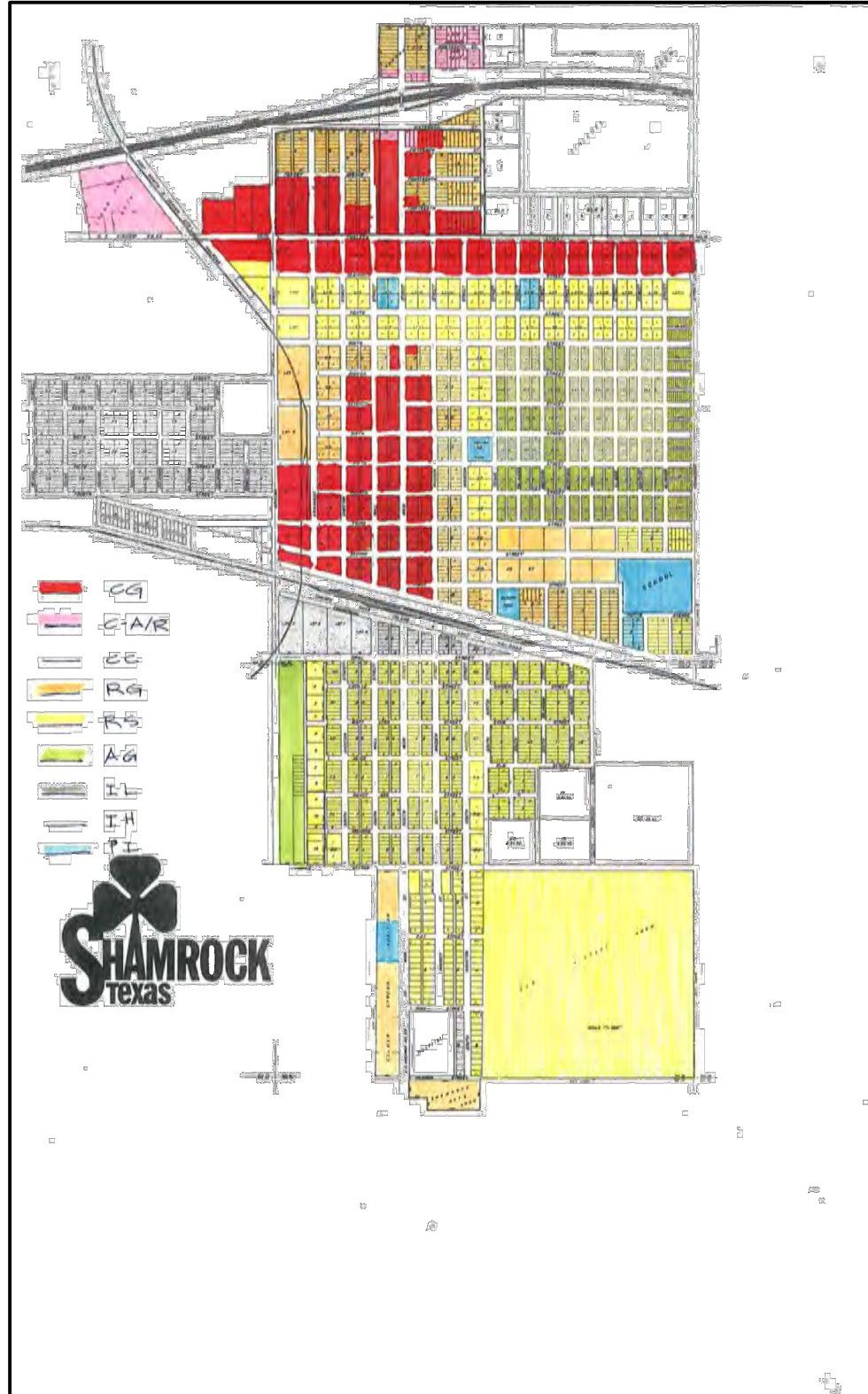
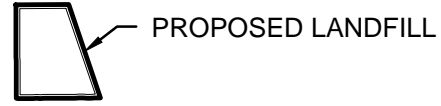
Calculated Depth at the edge of the pit berm

$Q = (1.49/n) \cdot A \cdot R^{2/3} \cdot S^{1/2}$	31.45
n = roughness coefficient	0.025
D = runoff water depth at berm	D feet
W = runoff channel width	358 feet
A = runoff channel cross-section area	358 x D square feet
R = runoff channel hydraulic radius = A/P	
P = wetted perimeter = channel width for wide channels	358 feet
R = 358 x D/358	D feet

$Q = (1.49/n) \cdot A \cdot R^{2/3} \cdot S^{1/2}$   
 $D = [Q / \{(1.49/n) \cdot 358 \cdot S^{1/2}\}]^{0.6}$   
D = **0.05 feet**

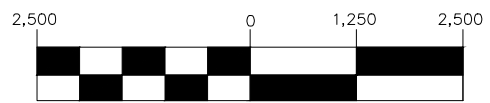


SCALE: 1" = 2,500'



- General Commercial
- Automotive & Commercial Recreation
- Convenience Commercial
- General Residential
- Single Family Residential
- General Agricultural
- Light Industrial
- Heavy Industrial
- Public Use

- CG
- CCAR
- CC
- RG
- RS
- AG
- IL
- IH
- PU



1 inch = 2,500 ft.

**OJD Engineering, L.P.**  
*The Benchmark*  
 Wellington | Amarillo | Wolforth  
 www.OJDEngineering.com F-4393

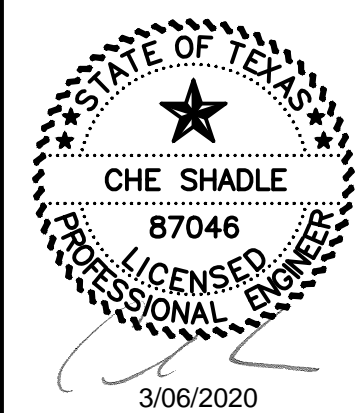
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 Amarillo, TX 79109  
 (806) 352-7117

CITY OF SHAMROCK LANDFILL

ZONING MAP



Drawn By:	CCG	Drawing:	14
Checked By:	MCS	Scale:	1" = 2,500'
Date:	March 2020		



*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 5**

**Permit Application Review for Type V Medical Waste  
Treatment Facility, Diversified Waste Management, Inc.**

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## a. PLAN CONFORMANCE/PERMIT REVIEW

All MSW facilities proposed for siting in the Panhandle must conform to the regional solid waste management plan. This is a condition of the TCEQ's MSW facility permitting requirements and other applicable state statutes (§363.066, Texas Health and Safety Code and §330.566 Subchapter O).

As such, one of the primary functions of the Regional Solid Waste Advisory Committee (RSWMAC) is to review permit and registration applications being filed from this region to assess their conformance to the Panhandle Regional Solid Waste Management Plan. The findings of the RSWMAC are then presented to the Texas Commission on Environmental Quality (TCEQ). The RSWMAC's comments or recommendations will be considered by the Commission when it decides whether or not to grant the permit or registration request.

In the Panhandle region, the following procedures will be followed by the RSWMAC when asked to review a permit or registration application for regional plan conformance.

**Timing of a Review Request:** Applicants may only request a conformance review of their registration or permit application after Part 1 and Part 2 of the filing forms have been fully completed. These documents will be submitted to the PRPC as part of the review process.

**Additional Required Filing Information:** In addition to submitting Part 1 and Part 2 of the permit application, applicants will also be required to submit a completed Panhandle Regional Solid Waste Plan Conformance Checklist (shown as Exhibit A to this planning document). Subchapter E of the TCEQ's permitting procedures (§ 330.51 (10)) states that it is the responsibility of the applicant to demonstrate conformance with the regional solid waste plan. This then is the purpose of the regional plan checklist. The applicant will complete the form to the best of his or her ability to indicate how the proposed facility will help in promoting the goals and objectives of the regional plan. The chief administrative officer of the applicant organization must sign the form to attest to the accuracy and truthfulness of the information presented.

**Requesting a Registration or Application Review:** When requesting a review, applicants will submit the following documents to the PRPC:

1. Two (2) full copies of Part 1 and Part 2 of the application form;
2. One (1) originally signed copy of the Panhandle Regional Solid Waste Plan Conformance Checklist; and
3. One (1) copy of any other information which the applicant may view as helping to facilitate the RSWMAC review process.

This information must be submitted under a cover letter which lists the following information.

1. The chief contact person for the application;
2. The contact information for that individual;
3. The name of the engineer representing the applicant;
4. The contact information for the applicant's engineer; and
5. The contact information for the TCEQ staff person to whom all review-related correspondence should be sent.

The submission documents and cover letter must be addressed and delivered to the PRPC's Regional Solid Waste Management Coordinator at the following address:

**Mailed Requests:**

PRPC  
Attn: SW Program Coordinator  
P.O. Box 9257  
Amarillo, TX 79105

**Hand-Delivered Request:**

PRPC  
Attn: SW Program Coordinator  
415 West Eighth Avenue  
Amarillo, TX 79101

No RSWMAC review requests will be considered until all the required information has been submitted in its completed form.

Once it has been determined all information has been properly filed, the PRPC Regional Solid Waste Coordinator, will confirm its receipt in writing to the applicant and schedule a meeting of the RSWMAC to review the application at the earliest possible date. Applicants will be notified in writing of the application review date and are strongly encouraged to attend that RSWMAC meeting to present their application to the committee.

**RSWMAC's Conformance Review Considerations:** The RSWMAC will consider the following factors when determining how a proposed facility will or will not conform to the regional solid waste plan.

1. The information provided on the applicant's Panhandle Regional Solid Waste Plan Conformance Checklist; and
2. The general compatibility of the proposed facility to existing surrounding land use.

The second of these two factors is not intended to supercede or take the place of the land use compatibility determination that will ultimately be made by the TCEQ. The TCEQ requires that the RSWMAC make some judgment, outside that which will be made by the Commissioners, as to the appropriateness of the proposed facility in relation to the existing surrounding land use.

The types of information that will be considered with regard to general land use compatibility will include but may not be limited to:

**For landfills:** The proposed fill height of the facility and how it will eventually impact the existing appearance of the surrounding area.

**For landfills:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For landfills:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.

**For transfer facilities:** The measures that will be taken, if necessary, to blend the appearance and operation of the proposed facility in with its surroundings.

**For transfer facilities:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For transfer facilities:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.

**For other MSW Facilities:** The measures that will be taken, if necessary, to blend the appearance and operation of the proposed facility in with its surroundings.

**For other MSW Facilities:** If the proposed facility is within an area covered by a set of local zoning requirements, applicant must demonstrate that the proposed facility will be conformance with those zoning standards.

**For other MSW Facilities:** How the proposed facility will impact existing traffic patterns in and adjacent to the proposed facility.

Unless the property adjacent to the proposed facility site has been purchased, zoned and/or platted for future development at the time the permit/registration application is submitted for review, the RSWMAC will generally not consider future growth patterns as a factor of the conformance review. As a pre-existing facility, the RSWMAC would consider the rights of the MSW facility to hold precedence over the rights of the individual or entity that might elect to develop that adjacent property in the future.

The RSWMAC reserves the right to solicit letters of comment from individuals and organizations located within the proposed facility's impact area when considering the general land use compatibility factor.

**RSWMAC's Conformance Review Findings:** There are four responses the RSWMAC may consider when determining the conformance of a proposed facility to the regional solid waste management plan. Those are:

1. A finding that additional information will be required before a final recommendation can be rendered.
2. A finding of conformance with the plan prompting a recommendation to the TCEQ that the application be approved as presented.
3. A finding of non-conformance, citing the areas where the non-conformance occurs, prompting a recommendation to the TCEQ that the permit or registration not be granted until the noted deficiencies are corrected.
4. A finding of incompatibility with existing surrounding land use, prompting a recommendation to the TCEQ that a land use compatibility hearing be held before the granting of the permit or registration is considered.

It should be noted that this review is not an application approval or disapproval process. It is merely a means by which the RSWMAC can voice its qualified opinion of how the proposed facility conforms to the regional solid waste management plan to the body that will eventually approve or disapprove the application.

**Communicating the RSWMAC's Conformance Review Findings:** The PRPC's Regional Solid Waste Program Coordinator will be responsible for communicating the RSWMAC's findings in writing to all affected parties. Those findings will be communicated as follows.

An original copy of the RSWMAC's recommendation letter, signed by the current year RSWMAC chairperson, will be sent to the individual identified in the applicant's cover letter as being the appropriate TCEQ contact person. The letter will be mailed seven days following the meeting during which the RSWMAC recommendation was made allowing the applicant time, if necessary, to appeal the recommendation of the RSWMAC

A copy of the letter will be sent to the person identified in the applicant's cover letter as being the chief contact person for the application. The letter will be mailed immediately following the meeting during which the RSWMAC recommendation was made.

A copy of the letter will be sent to the person identified in the applicant's cover letter as being the engineer representing the applicant. The letter will be mailed immediately following the meeting during which the RSWMAC recommendation was made.

**Appeals Process:** The RSWMAC is an Advisory Committee to the Panhandle Regional Planning Commission's Board of Directors. The PRPC Board has vested the responsibility for MSW facility application review with the RSWMAC. In general, the recommendations of the RSMAC will be final.

An applicant may appeal the disposition of its application **only** if the application review is not processed and treated in accordance with the procedures set forth in this section.

All appeals, including the specific alleged procedural violation(s), must be submitted to the PRPC Executive Director in writing. The Executive Director may then take one of the following actions:

1. Investigate the allegation and determine that the appeal is not valid. In such case, the applicant will receive in writing the basis for the decision to reject the applicant's appeal. In such case, the decision of the Executive Director is final.
2. If there is some validity to the appeal, the Executive Director will place the appeal on the agenda of the PRPC Board of Directors. The protesting applicant will be notified of the time and date of the meeting during which the Board of Directors will consider the appeal. The applicant will be given the opportunity to present his/her case directly to the PRPC Board of Directors. The Board of Directors will then render a decision on the appeal of the protesting applicant. All decisions made by the PRPC Board of Directors will be final.

An appeal can be filed at any time during the seven calendar-day period following the date on which the RSWMAC developed its recommendation. The appeal must be received by the PRPC during that timeframe. Any appeals received after that date will not be considered and the RSWMAC recommendation letter will be immediately forwarded to the TCEQ.

**Voluntary Pre-Application Review:** A potential permit or registration applicant may, at their discretion, ask to meet with the PRPC Regional Solid Waste Program Coordinator to discuss their impending application. The PRPC Solid Waste Program Coordinator will provide the potential applicant with his/her observations of the proposed facility in relation to the regional solid waste management plan. In so doing, this may help to ensure the ultimate conformance of the proposed facility with the regional plan.

## PANHANDLE REGIONAL SOLID WASTE PLAN CONFORMANCE CHECKLIST

This checklist is designed to assist the MSW facility permit or registration applicant in meeting the TCEQ's application requirements. Subchapter E (§ 330.51 (10)) of the Texas Administrative Code states that it is the **applicant's** responsibility to demonstrate conformance with the regional solid waste management plan.

The TCEQ requires the Panhandle Regional Solid Waste Management Advisory Committee (RSWMAC) review your application to determine if the proposed facility will conform to the Panhandle Regional Solid Waste Management Plan. The questions below pertain to the goals and objectives of that plan. Your response to these questions will provide the RSWMAC with a perspective on how your proposed facility will support the plan's goals.

All questions relating to the type of facility being permitted or registered must be answered. A response of "Not Applicable" or "N/A" **will not** be acceptable. This checklist must be fully completed and submitted to the PRPC, along with Parts 1 and 2 of your facility application, before the local conformance review process can be initiated. The certification box must be signed by the chief administrative officer of the applicant entity indicating that the information provided herein is accurate and true.

### Section 1: General Applicant Information

1.1. Applicant's Name Diversified Waste Management, Inc.

1.2. Is this a permit or a registration application?  
(please check the appropriate box and provide the application number.)

Permit No. \_\_\_\_\_  
 Registration No. 40307 \_\_\_\_\_

1.3. What type of MSW facility is being registered or permitted?  
(please check the appropriate box)

- |   |   |
|---|---|
| <input type="checkbox"/> Type I Landfill    | <input type="checkbox"/> Type IV AE Landfill        |
| <input type="checkbox"/> Type I AE Landfill | <input checked="" type="checkbox"/> Type V Facility |
| <input type="checkbox"/> Type IV Landfill   | <input type="checkbox"/> Other (please describe)    |

Describe "Other" below:

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1.4. What types of waste(s) will be accepted at your facility? Please specify any special wastes.

Medical waste as defined in 30 TAC §326.3(23), trace chemotherapeutical waste, and non-hazardous pharmaceutical waste.

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1.5. What entity(ies) in the Panhandle region is this facility intended to serve?



Health care-related facilities – please refer to 25 TAC §1.134 for specific facilities and services. Also, the facility will accept exempt, household wastes similar to those that is approved in the facility’s registration.

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**Regional Solid Waste Plan  
Performance Checklist**

- 1.6 Do you plan to accept out-of-state waste at your facility? If Yes, what percent of your projected waste stream will be from out-of-state? ~25%  Yes  No

**Section 2: Regional Planning Goal Conformance**

Please provide information as to how your proposed facility will help to support or conform with the goals and/or objectives of the Panhandle Regional Solid Waste Management Plan

**Panhandle Regional Solid Waste Plan Goal #1**

Develop programs to facilitate the development and maintenance of local source reduction, waste minimization, recycling, and composting programs within the region, thus, conserving disposal capacity and resources to the extent technically and economically feasible. (NOTE: Recycling includes yard waste composting)

- 2.2.1. Will your facility divert for recycling or beneficial reuse any of the following items? (if additional space is needed, attached an additional sheet titled "Planning Goal #2.1.1" in the upper right-hand corner of the page)

- |  |   |
|--|---|
| <input type="checkbox"/> White Goods         | <input type="checkbox"/> Yard Waste                         |
| <input type="checkbox"/> Scrap Metal         | <input type="checkbox"/> Construction/Demolition Debris     |
| <input type="checkbox"/> Tree limbs or brush | <input checked="" type="checkbox"/> Other (please describe) |

Describe "Other" below:

This facility will process reusable sharps containers before returning the cleaned containers to the client for reuse.

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- 2.2.2. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.1.2")

Yes, by processing reusable sharps containers and returning them to the clients, this waste stream will be diverted from landfill disposition.

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**Panhandle Regional Solid Waste Plan Goal #2**

Develop regional cost-effective, efficient and environmentally-suitable solid waste management systems.

- 2.2.1. Per your operating plan, describe how you will achieve environmentally-suitable cost effectiveness and efficiency with your facility? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.1.")

This facility will operate in a cost-effective, efficient and environmentally-suitable manner. Some examples include, operating new, minimal emissions equipment; practicing safe and efficient waste management to prevent spills; and minimizing excess transportation to and from the facility. Based on observed trends created by the current pandemic, the owner/operator foresees increased demand for medical waste management and will provide competitive rates and efficient processing and storage before disposal at an authorized facility.

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- 2.2.2. How will your facility customer base benefit from any efficiencies or cost effectiveness? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.2.")

The facility's customer base will benefit from the efficiencies and cost-effectiveness through competitive waste management rates, timely waste pick-ups, and proper waste disposition. The facility will be able to efficiently manage the anticipated increase in medical waste generation.

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- 2.2.3. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.2.3.")

**Regional Solid Waste Plan  
Performance Checklist**

Yes, the facility will be strategically operated to minimize environmental impacts, improve efficiency for customers' waste management needs, and provide competitive waste management rates to customers. The facility will be able to manage the anticipated increase in medical waste.

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**Panhandle Regional Solid Waste Plan #3**

Develop programs to assist regional and local entities in controlling and stemming illegal and improper disposal practices.

- 2.3.1. What measures will you take to make your services conveniently accessible to the public? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.1.")

The facility will have a process in place for visitors producing less than 50 pounds/month of facility-accepted waste to transport their waste to the facility; sign-in and sign a waiver ensuring that they are bringing only accepted wastes to the facility; and the visitors will be directed to an unloading area where the accepted, exempt household wastes similar to those waste managed at the facility will be screened by facility personnel and accepted by the facility for processing and disposal.

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- 2.3.2. As part of your operating plan, would you be willing to accept waste from locally-sponsored litter and illegal dumping clean-up projects at no cost or at significantly reduced costs? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.2.")

Yes, the operators of the facility would be willing to accept waste, as approved by the registration, from locally-sponsored litter and illegal dumping clean-up projects at no cost or at significantly reduced costs. The operators of the facility are willing to assist with litter and illegal dumping clean-up projects when circumstances arise in order to give back to the local community.

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**Regional Solid Waste Plan  
Performance Checklist**

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2.3.3. Do you believe your facility will support this regional planning goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.3.3.")

Yes, we believe that the facility will support this regional planning goal by providing a service that will reduce landfill injuries caused by household-disposed sharps and ensuring that exempt household wastes are properly processed and disposed that would otherwise end up in the landfill, unprocessed or inefficiently managed. Increased capacity will ensure treatment cost control and availability of proper treatment, reducing the likelihood of improper waste management.

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**Panhandle Regional Solid Waste Plan #4 (Land Use Compatibility)**

Maintain administrative structures that will ensure at least some measure of local control over future systems operations and provide an element of control over siting of future landfills in the region.

2.4.1. Is the site of your proposed facility in an area that has been zoned by one of the region's local governments?  Yes  No

2.4.2. If Yes, which local government zoning standards will this facility have to comply with? Also, attached documentation from the zoning entity indicating that the proposed facility is in compliance with the standards.

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2.4.3. Describe the current land use within 1/2 mile of the proposed facility site? Please refer to Attachment 3, Land Use Map, of the registration application.



**Regional Solid Waste Plan  
Performance Checklist**

To the North:	Primarily agricultural; undeveloped residential approximately 0.4 miles from facility
To the South:	Primarily agricultural; sparse governmental and residential at 0.1 to 0.2 miles from facility
To the East:	Industrial, residential, agricultural
To the West:	Industrial, residential, agricultural, commercial

2.4.4. If the proposed facility is a landfill, what will be the maximum fill height of the facility?

\_\_\_NA\_\_\_ Feet above grade

2.4.5. When the maximum fill height is reached, how will the facility compare to surrounding elevation features (surrounding meaning, "within a two-mile circumference of the facility")? Will this be the most prominent elevation feature within a 2-mile radius? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.5.")

NA

2.4.6. If the proposed facility is a transfer station or some "Other" type of MSW facility, how will it be built and operated to correspond with the way the property adjacent to the proposed facility site is currently being used? (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.6.")

The facility will be designed and operated in an industrial area which corresponds well with the property adjacent to the east and west of the facility is currently used for industrial operations and to the north and south which is used for transportation (Interstate-40 to south) and agriculture (north).

2.4.7. Will vehicular traffic into and out of the proposed facility disrupt or impact the area's existing traffic patterns? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.7.")

**Regional Solid Waste Plan  
Performance Checklist**

Vehicular traffic into and out of the proposed facility is not expected to disrupt or impact the area's existing traffic patterns. If disruptions occur, the operator will coordinate with the Potter County Road and Bridge Dept. and/or Texas Dept. of Transportation.

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Only minor increases in traffic are expected as shown in Attachment 3 - Land Use Map and Section 2.2, Table 2 of the registration application.

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- 2.4.8. To the best of your knowledge, is there **any** pre-existing, planned development of the property adjacent to the proposed facility site? If Yes, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.4.8.")  Yes  No

All waste processing will be conducted within the existing structure on the property. The medical waste treatment and storage operations will be conducted in a portion of the structure that is separated from other industrial operations which are operated by the same owner. The owner/operator owns the property to the east and west of the proposed registration boundary which provides additional buffer between medical waste operations and residences. The structure will provide adequate visual screening between the medical operations and the public.

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- 2.4.9. Do you believe your proposed facility is compatible with the current land uses surrounding the proposed site? Please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #4.8")

Yes, the primary land use within 0.5 miles of the facility is agricultural with limited industrial, commercial, and residential use. With all processing operations conducted within the structure and adequate buffer area around the structure, there should be minimal influence of the operations on surrounding properties.

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**Regional Solid Waste Plan  
Performance Checklist**

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**Panhandle Regional Solid Waste Plan Goal #5**

Regionally, ensure continued, adequate disposal capability

2.5.1. If the proposed facility is other than a landfill, where will the stored or processed wastes be taken for disposal?

Stored or processed waste will be taken to authorized treatment, storage, and/or disposal facilities depending on the nature of the waste (treated medical waste or wastewater).

2.5.2. If the proposed facility is other than a landfill, what, if any, type of measures will be taken to minimize, reduce, or recycle the waste before it is hauled off for disposal?

Processed waste will be shredded and compacted for volume reduction before disposal. Also, reusable sharps containers will be returned to clients after they are cleaned.

2.5.3. If the proposed facility is a landfill, what type of measures will be taken to compact the landfilled waste? What is your projected compaction ratio? \_\_\_\_\_ pounds per cubic yard. What type of equipment will you use to achieve this compaction ratio?

NA

2.5.4. Do you plan on using Alternative Daily Cover materials or other space-savings measures that might extend the useful life of your landfill? If "Yes", please explain.

NA

**Regional Solid Waste Plan  
Performance Checklist**

2.5.5. Do you believe that your proposed facility will contribute toward this regional goal? If so, please explain. (if additional space is needed, attached an additional sheet and provide the information under a heading titled "Planning Goal #2.5.5.")

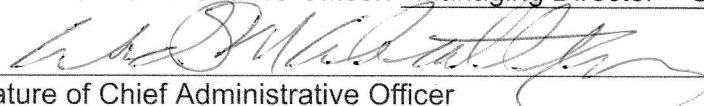
Yes, the facility will ensure that all wastes are transported to authorized treatment, storage and/or disposal facilities in an efficient manner. Waste will be transported to disposal facilities after it has been shredded and compacted to reduce volume.

**Section 3: Certifications**

I hereby certify that the information contained herein is, to the best of my knowledge complete and accurate and that the information in fact represents the MSW facility for which this entity is requesting a TCEQ registration or permit.

Name of Applicant' Chief Administrative Officer: Wade Wheatley (Delegated signatory authority per Section 6 of the original Registration Application, dated 01/06/2020)

Title of Chief Administrative Officer: Managing Director – GDS Associates, Inc.

  
Signature of Chief Administrative Officer

03/24/2020  
Date

**NOTE:**

PLEASE COMPLETE THIS FORM AS FULLY AND AS ACCURATELY AS POSSIBLE. YOUR COMPLETED CHECKLIST WILL BE SUBMITTED TO THE PERMITS SECTION OF THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY ALONG WITH THE REGIONAL SOLID WASTE MANAGEMENT ADVISORY'S COMMITTEE'S CONFORMANCE REVIEW ASSESSMENT.

**Texas Commission on Environmental Quality**  
**Application for a Medical Waste Registration**  
**Diversified Waste Management**  
**Registration 40307**  
**Amarillo, Potter County, Texas**

January 6, 2020

Revision Date: March 12, 2020

Prepared for

Diversified Waste Management, Inc.

13511 Indian Hill Road

Amarillo, Texas 79124-2637

Prepared by

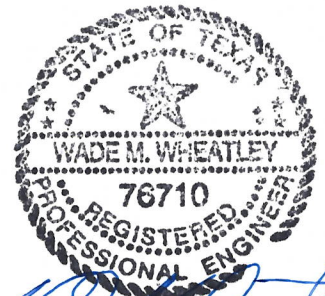
Wade M. Wheatley, P.E., Managing Partner

GDS Associates, Inc.

Texas-Registered Engineering Firm No. F-4089

919 Congress Avenue, Suite 1110

Austin, Texas 78701



*Wade M. Wheatley*  
03/12/2020

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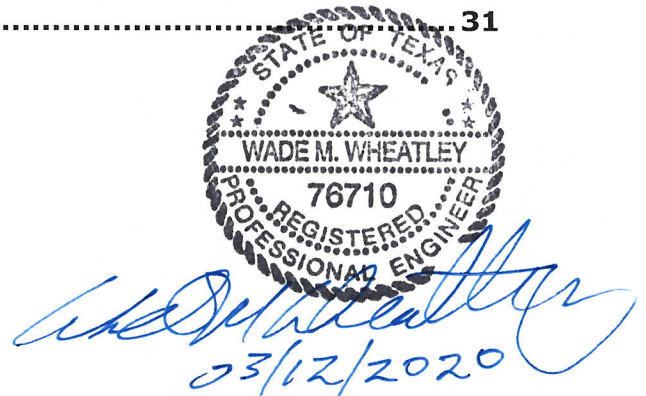
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## Section 1—General Information

### 1.1 Facility Information (must match regulated entity information on Core Data Form)

Facility Name: Diversified Waste Management

Regulated Entity Reference No. (if issued): RN \_\_\_\_\_

Physical or Street Address (if available): 13511 Indian Hill Road

City: Amarillo County: Potter State: TX Zip Code: 79124

(Area Code) Telephone Number: 806-371-0120 Email Address: jana@diversifiedwaste.net

Latitude (Degrees, Minutes, Seconds, or Decimal Degrees): N 35° 11' 27.5"

Longitude (Degree, Minutes, Seconds, or Decimal Degrees): W 101° 59' 46.4"

Activities Conducted at the Facility (check all that apply)

Storage     Treatment     Transfer     Other: \_\_\_\_\_

Describe the location of the facility with respect to known or easily identifiable landmarks:

Approximately 0.8 miles east of the intersection of I-40 and Arnot Road (Exit 60); north of I-40 Frontage Road and south of Indian Hill Road.

Detail access routes from the nearest United States or state highway to the facility:

Less than 1 mile from the intersection of I-40 and Arnot Road (west of facility).

### 1.2 Applicant Information

The owner of a facility is the applicant, to whom the registration would be issued.

#### Owner of Facility (must match customer information on Core Data Form)

Owner Name: Diversified Waste Management, Inc.

Contact Person's Name: Brandon Brown Title: President

Customer Reference No. (if issued): CN604112805

Mailing Address: 13511 Indian Hill Road

City: Amarillo County: Potter State: TX Zip Code: 79124

(Area Code) Telephone Number: 806-371-0120 Email Address: jana@diversifiedwaste.net

**Operator of Facility (if not the same as Owner of Facility)**

Operator Name: Same as Owner

Contact Person's Name: \_\_\_\_\_ Title: \_\_\_\_\_

Customer Reference No. (if issued): CN \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ County: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

(Area Code) Telephone Number: \_\_\_\_\_ Email Address: \_\_\_\_\_

**Consultant (if applicable)**

Firm Name: GDS Associates, Inc.

Texas Board of Professional Engineers Firm Registration Number: F-4089

Contact Person's Name:  
Wade M. Wheatley, P.E. Title: Managing Director

Texas Board of Professional Engineers License Number (if applicable): 76710

Mailing Address: 919 Congress Ave. Suite 1110

City: Austin County: Travis State: TX Zip Code: 78701

(Area Code) Telephone Number: 512-494-0369 Email Address:  
wade.wheatley@gdsassociates.com

**1.3 Governmental Entities Information**

**Texas Department of Transportation**

District: Amarillo

District Engineer's Name: Brian Crawford, P.E.

Street Address or P.O. Box: 5715 Canyon Drive

City: Amarillo County: Randall State: TX Zip Code: 79110

(Area Code) Telephone Number: 806-356-3200 Email Address:  
Brian.Crawford@txdot.gov

**Local Government Authority Responsible for Road Maintenance (if applicable)**

Agency Name: Potter County Road and Bridge Department

Contact Person's Name: Sebastin Ysaquarre, Department Head

Street Address or P.O. Box: 2419 Willow Creek

City: Amarillo County: Potter State: TX Zip Code: 79107

Initial Application Submittal Date 1/6/2020  
Revision Date: January 15, 2020

(Area Code) Telephone Number: 806-383-2273 Email Address:  
SebastinYsaquirre@co.potter.tx.us

**City Mayor**

City Name: City of Amarillo

City Mayor's Name: Ginger Nelson

Mailing Address: 601 South Buchanan Street

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-378-3014 Email Address:  
ginger.nelson@amarillo.gov

**Council of Governments (COG)**

COG Name: Panhandle Regional Planning Commission

COG Representative's Name: Kyle Ingham

COG Representative's Title: Executive Director

Street Address or P.O. Box: 415 SW 8<sup>th</sup> Ave., POB 9257

City: Amarillo County: Moore State: TX Zip Code: 79105

(Area Code) Telephone Number: 806-372-3381 Email Address: kingham@theprpc.org

**Local Government Jurisdiction**

Is the facility located outside the territorial limits or extraterritorial jurisdiction of a city or town? (30 TAC §326.67(a)) Yes  No

If yes, and county requires a license, you must obtain a license from the county, and the county must send a copy of the license to the appropriate TCEQ regional office.

**City Health Authority (if applicable)**

Agency Name: City of Amarillo Public Health

Contact Person's Name: \_\_\_\_\_

Street Address or P.O. Box: 1000 Martin Road

City: Amarillo County: Potter State: TX Zip Code: 79107

(Area Code) Telephone Number: 806-680-8980 Email Address: \_\_\_\_\_

**County Judge Information**

County Judge's Name: Nancy Tanner

Street Address or P.O. Box: 500 South Fillmore, Suite 103

City: Amarillo County: Potter State: TX Zip Code: 79101

Initial Application Submittal Date 1/6/2020

(Area Code) Telephone Number: 806-379-2250 Email Address: \_\_\_\_\_

**County Health Authority (if applicable)**

Agency Name: City of Amarillo Public Health

Contact Person's Name: \_\_\_\_\_

Street Address or P.O. Box: 1000 Martin Road

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-379-2250 Email Address: \_\_\_\_\_

**State Representative**

House District Number: 87

Representative's Name: Representative Four Price

District Office Address: 500 S. Taylor Street

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-374-8787 Email Address: \_\_\_\_\_

**State Senator**

Senate District Number: 31

State Senator's Name: Senator Kel Seliger

District Office Address: 410 S. Taylor, Suite 1600

City: Amarillo County: Potter State: TX Zip Code: 79101

(Area Code) Telephone Number: 806-374-8994 Email Address: \_\_\_\_\_

**1.4 Posting of Application on Website [30 TAC §326.69(e)]**

Provide the web address (URL) of the publicly accessible internet website where the application and all revisions will be posted:

<https://www.gdsassociates.com/txprojects/>

**1.5 Copy of Application for Public Viewing**

Name of the Public Place: Southwest Amarillo Public Library

Physical Address: 6801 Southwest 45<sup>th</sup> Street

City: Amarillo County: Potter State: TX Zip Code: 79109

(Area Code) Telephone Number: (806) 359-2094

**1.6 Notice of Opportunity to Request Public Meeting**

**Notice Requirement**

The owner or operator is required by 30 TAC §326.73 to provide notice of the opportunity to request a public meeting, and to post notice signs.

Indicate the party responsible for publishing notice:

Applicant (Owner or Operator)       Consultant

**1.7 Application Fee**

Indicate how the application fee was paid. Attach a photocopy of the check or a copy of the electronic payment receipt.

Check       Online

If paid online, e-Pay confirmation number: 582EA000370536\_\_\_\_\_

**1.8 Facility Supervisor's License [30 TAC §326.71(c)]**

Indicate the type of license that the Solid Waste Facility Supervisor (as defined in 30 TAC Chapter 30), will obtain prior to commencing facility operations:

Class A       Class B

(either a Class A or a Class B)

## Section 2—Facility Design Information

### 2.1 Impact on Surrounding Area [30 TAC §326.71(a)(5)(A) & (B)]

**This section addresses the facility's impacts on cities, communities, groups of property owners, or individuals (attach additional pages to answer the following questions, if necessary):**

**Describe the character of the surrounding area land uses within one mile of the facility:**

Information about the character of surrounding land uses are shown on the Land Use Map, presented as **Attachment 3**. This Facility will be located within the Extraterritorial Jurisdiction of the City of Amarillo. Land uses immediately adjacent to the Facility are industrial and agricultural. The primary land use within one mile of the Facility is agricultural with parcels of industrial, commercial, residential, and governmental uses. Activities associated with the parcels within one mile of the Facility include, but are not limited to, agriculture, transportation and vehicle maintenance, landscaping equipment staging, metal plating, gas station services, residential, and county services. Land use within the property boundary is industrial.

**Identify growth trends within five miles of the facility with directions of major development:**

The population of the City of Amarillo grew at an annual rate of 0.53% during 2017 and an annual rate of 0.00% during 2018 and for the Amarillo Metro Area at an annual rate of 0.61% during 2017 and 0.37% during 2018, according to population estimates published by the United States Census Bureau. Additionally, the population of Potter County declined at a rate of -0.25% during 2017 and by -0.72% during 2018, according to the United States Census Bureau. Based on historical aerial imagery, directions of major residential and commercial development appears to be to the west, southwest, southeast, and east of the proposed Facility.

**Indicate the approximate number of residences and other uses (e.g. schools, churches, cemeteries, historic structures and commercial sites, etc.) within one mile of the facility:**

As illustrated on the Land Use Map, presented as **Attachment 3**, within one mile of the proposed Facility, there are no schools, cemeteries, historic structures, day-care facilities, or hospitals recorded. There are approximately 50 developed residences and 90 undeveloped residences within one mile of the Facility, not including an RV park located approximately 3,330 feet to the southwest that has the capacity for approximately 200 RVs. The nearest property boundary of a single-family house is located approximately 405 feet west of the registration boundary. A single-family home subdivision is located approximately 5,025 feet east of the site and as stated above, the land approximately 2,000 feet north of the proposed Facility is currently being developed as a single-family house subdivision. The Potter County Justice of Peace is located approximately 500 feet south of the proposed Facility and there are two commercial establishments located approximately 3,900 feet west. The predominant land use designation within one mile of the proposed Facility is agricultural.



**Indicate the distance to the nearest residence(s):** 405  feet  miles

**Provide directions to the nearest residence(s)**

Single family house property boundary is located approximately 405 feet west of the registration boundary. The nearest residential structure is approximately 630 feet west of the closest waste management area.

**Indicate the distance to the nearest commercial establishment(s):** 3,900  feet  miles

**Provide directions to the nearest commercial establishment(s):**

The nearest commercial establishments are approximately 3,900 feet to the west of the proposed Facility, as illustrated on the Land Use Map, presented as **Attachment 3**.

**2.2 Transportation [30 TAC §326.71(e)]**

**Access Roads**

Complete Table 1 regarding the roads that will be used to access the site.

**Table 1. Roads That Will be Used to Access the Site.**

The main roadways located within one mile of the Facility that provide access to the Facility are listed in the table below.

Name of Road	Surface Type and Number of Lanes
Interstate 40 (I-40)	Asphalt, 4-lane, divided
I-40 Frontage Road	Asphalt, 2-lane, undivided
Arnot Road	Asphalt, 2-lane, undivided
Hope Road	Asphalt, 2-lane, undivided
Dowell Road	Asphalt, 2-lane, undivided
Indian Hill Road	Asphalt, 2-lane, undivided

**Daily Traffic Volume**

Complete Table 2 regarding existing and expected volume of vehicular traffic on access roads within one mile of the facility, and the projected volume of traffic expected to be generated by the facility on access roads within one mile of the facility.

**Table 2. Traffic Volume.**

Road	Volume (Vehicles per Day)		Projected Vehicle Traffic Generated by Facility	
	Existing Vehicle Traffic (2018)	Expected Vehicle Traffic (5% annual growth) (FY 2030)	Total Employee (average per day)	Total Waste (average per day)
N I-40 Frontage Rd., E of Arnot Rd.	1,750	2,851	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
N I-40 Frontage Rd., W of Arnot Rd.	1,931	3,145	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
S I-40 Frontage Rd., E of Arnot Rd.	2,316	3,773	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
S I-40 Frontage Rd., W of Arnot Rd.	1,315	2,142	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
S I-40 Frontage Rd., W of Hope Rd.	1,318	2,147	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
N I-40 Frontage Rd., W of Hope Rd.	2,185	3,559	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
N I-40 Frontage Rd., E of Dowell Rd.	709	1,155	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
Dowell Rd.	460 (2015)	749	1 (Phase I) 2 (Phase II)	1 (Phase I) 2 (Phase II)
<b>All Roads</b>	<b>11,984</b>	<b>19,521</b>	<b>8 (Phase I) 16 (Phase II)</b>	<b>8 (Phase I) 16 (Phase II)</b>

I-40, west of facility annual average daily traffic: 19,850 (Expected by FY 2030: 32,334)  
I-40, east of facility annual average daily traffic: 22,173 (Expected by FY 2030: 36,117)  
FY: Fiscal Year

**Describe the source of or method used to obtain the volumes (attach additional pages to answer this question if necessary):**

The Texas Department of Transportation (TXDOT) provides annual average daily traffic counts and growth statistics through the Traffic Count Database System (TCDS) and 2019 District Traffic Web Viewer. Annual growth rate derived from City of Amarillo, Market Guide (2018).

**If traffic volume was determined by counts in the field, indicate the locations where the counts were conducted (attach additional pages to answer this question if necessary):**

NA

### 2.3 Floodplain and Wetlands [30 TAC §326.71(f)]

In accordance with §326.71(f)(1) & (2), this existing facility has been constructed, maintained, and operated to manage run-on and run-off during the peak discharge 25-year rainfall event and will prevent the off-site discharge of all waste and feedstock material, including, but not limited to, in-process and/or processed materials. This facility will continue to maintain and operate in this manner. Surface water drainage in and around the facility will be controlled to minimize surface water running onto, into, or off the treatment area.

**Will the facility be located within a 100-year floodplain?**

Yes  No  Identify the floodplain zone Zone X

**Attach a copy of the Federal Emergency Management Administration administrator (FEMA) flood map for the area.**

A copy of the FEMA flood map for the area is presented as **Attachment 13**.

**If the facility will be within a 100-year floodplain, attach documentation demonstrating that the facility is designed and will be operated in a manner to prevent washout of waste during a 100-year storm event, or that the facility has obtained a conditional letter of map amendment from the FEMA.**

**Will the facility be located in wetlands?**

Yes  No

**If yes, attach documentation to the extent required under Clean Water Act, §404 or applicable state wetlands laws.**

### 2.4 Buffer Zones and Easement Protection [30 TAC §326.71(h)(3)]

**Is the buffer zone in any location at the facility less than 25 feet wide?**

Yes  No

**If yes, describe your alternative buffer zone and how it will allow access for emergency response and maintenance (attach additional pages to answer this question if necessary):**

### 2.5 Waste Management Unit Designs [30 TAC §326.71(i)]

**Waste Management Unit Details**

**List each waste management unit in Table 3. Include attachments documenting manufacturer specifications.**

Manufacturer specifications for the equipment listed in **Table 3** are provided as **Attachment 19**.

**Table 3. Design Details and Manufacturer Specifications for Waste Management Units.**

<b>Unit Type</b>	<b>Minimum Number of Units</b>	<b>Design Details</b>	<b>Approximate Dimensions</b>	<b>Approximate Capacity per Unit</b>
Mark-Castello Autoclave Processing Unit (or equivalent)	1 (up to 2)	Fully insulated, double door	24'-0" L 6'-1" W 5'-3" H	1,125 pounds or 7.5 cubic yards per 1-hour cycle
Hurst Boiler w/ feedwater system (or equivalent)	1	100 HP, 150 psig, 3.3 MBtu/hr	12'-8" L 6'-0" W 6'-3" H	564 gallons 100-gallon feedwater system
ARE Standard Flow Thru Washer (or equivalent)	1	Conveyor belt loading, wash area 36" W x 48" H	31'-0" L 7'-0" W 7'-0" H	370 square feet
Vecoplan Shredder (or equivalent)	1	Rotary-style or knife-style	10'-7" L 9'-7" W 5'-0" H	6.4 cubic yards 2,400 pounds per 1-hour
WasteEquip Compactor (or equivalent)	1	Self-Contained Compactor	20'-0" L 8'-6" W 8'-4" H	25 cubic yards
3,000-gallon Wastewater Tank (or equivalent)	1	Polyethylene, Plastic, Double-walled, Storage Tank	8'-6" Diameter 12'-0" H	3,000 gallons
Endura-Veyor Conveyor (or equivalent)	1	Slider bed belt conveyor, 2 HP, 120 feet/min.	20'-0" L 2'-3" W 1'-5" H	254 pounds
Mark-Costello Waste Cart Tipper (or equivalent)	1	10 HP	9'-2" L 6'-4" W 13'-5" H	4,500 pounds
Trench Drain – General Construction Information	1	Sub-grade, covered by grate, approx. slope: 1/4":12"	55'-0" L (total: 70'-0") 1'-0" W 0'-11" H	620 gallons
Refrigerated Tractor Trailer (or equivalent)	1	Common Standard Freight Trailer	28', 48', or 53' L 8' to 8'-6" W 12'-6" to 13'-6" H	22,000 (28') to 44,000 (53') pounds

Unit Type	Minimum Number of Units	Design Details	Approximate Dimensions	Approximate Capacity per Unit
Spill Response Kit	1	Absorbent, large dustpan, and broom	NA	1 Spill

### Foundations and Supports

**Provide a generalized description of construction materials for slab and subsurface supports of all storage and processing components (attach additional pages to answer this question if necessary):**

Medical waste processing, transfer, and storage will be conducted inside of an existing building on-site. The building is supported on a concrete slab-on-grade foundation capable of supporting the building, including processing and waste storage units, and proposed operations. The waste processing units will sit directly on the building foundation.

### Contaminated Water Management

**Describe how storage and processing areas will be designed to control and contain spills and prevent contaminated water from leaving the facility. For unenclosed containment areas, also account for precipitation from a 25-year, 24-hour storm (attach additional pages to answer this question if necessary):**

Medical waste processing units will be controlled and contained in an enclosed building. Treated waste storage will be contained in fully enclosed units (i.e. compactor container). Any free liquids received at the facility shall be packaged with sufficient sorbent material to absorb 100% of the free liquids within the package in accordance with 49 Code of Federal Regulations (CFR) 173.197(c)(2). Therefore, there will be no free liquids generated during potential spills. Contaminated waters are prevented from leaving the facility by collection in trench drains. Within the enclosed building, trench drains will be used to manage wastewater and direct wastewater to an on-site storage tank with secondary containment. Accumulated wastewater will be disposed off-site at a TCEQ-authorized facility.

## 2.6 Treatment Requirements [30 TAC §326.71(j)]

**Attach a written procedure for the operation and testing of any equipment used, and for the preparation of any chemicals used in treatment.**

See **Attachment 9** for Treatment Requirements and Procedures.

## Section 3—Facility Closure

### 3.1 Closure Plan [30 TAC §326.71(k)]

**The operator must comply with the closure requirements listed in 30 TAC §326.71(k).**

**List other activities that the facility will conduct during closure, if any (attach additional pages to answer this question if necessary):**

Upon closure, all waste, waste residues, and any recovered materials will be removed from the Facility by the owner or operator. Waste processing units will be decontaminated, dismantled and removed from the site. The owner or operator will evacuate all material on-site to an authorized facility and disinfect all processing areas and post-processing areas. The owner or operator will complete closure of the facility within 180 days following the last acceptance of processed or unprocessed materials, unless otherwise directed or approved in writing by the executive director. No later than 90 days prior to the initiation of Facility closure, the owner or operator will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the Facility, provide public notice for final Facility closure. The notice will include the name, address, and physical location of the Facility; the permit, registration, or notification number, as appropriate, and the number of copies of the approved final closure and post-closure plans for public access and review. The owner or operator will also provide written notification to the executive director of the intent to close the Facility and will place this notice of intent in the operating record. In addition to notification of the executive director, a minimum of one sign will be posted at the main entrance and all other frequently used points of access for the Facility, notifying all persons who may utilize the facility of the date of closing for the entire Facility and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers will be installed at all gates and access points to adequately prevent the unauthorized dumping of waste at the closed Facility. Within ten days of completing final closure activities at the Facility, the owner and operator will submit a certification, signed by an independent licensed professional engineer, verifying that final Facility closure has been completed in accordance with the approved Closure Plan. The owner or operator will submit to the executive director all applicable documentation necessary for certification of final Facility closure. Upon final closure of this Facility, the owner or operator will request a voluntary revocation of the facility registration.

### 3.2 Closure Cost Estimate [30 TAC §326.71(m)]

**Provide itemized closure cost estimates in Table 4. The cost estimates must meet the requirements listed in 30 TAC §326.71(m).**

The closure cost estimates are in accordance with 30 TAC §326.71(m). Closure cost estimates provided are based on hiring a third party that is not affiliated with the owner or operator. The closure cost estimates are based on phased development of the Facility.

*Phase I:* One processing unit (autoclave), one boiler, one shredder, one compactor, one container wash system, and one wastewater container; as described in **Section 2.5** of this



application. Maximum amount of waste to be received daily: 18 tons /day and maximum amount of waste to be stored at any point in time: 36 tons.

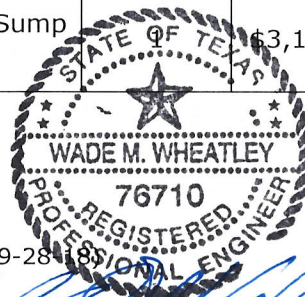
**Phase II:** Two processing units (autoclave), one boiler, one shredder, one compactor, one container wash system, and one wastewater container; as described in **Section 2.5** of this application. Maximum amount of waste to be received daily: 36 tons /day and maximum amount of waste to be stored at any point in time: 72 tons.

**Attach documents detailing any additional unit closure costs not itemized. Enter the total of those additional unit closure costs on line 13 of the closure cost worksheet in Table 4.**

**Table 4. Closure Cost Estimates Worksheet.**

Phase I:

Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
1	Site Evaluation and Engineering Review	Hour	10	\$145	\$1,450
2	Bid Document and Procurement	Hour	8	\$90	\$720
3	Contract Award and Administration	Hour	10	\$120	\$1,200
4	Clean-Up, Removal and Transport of Waste Stored On-Site	Ton	36	\$225	\$8,100
5	Disposal of Waste at an Authorized Facility	Ton	36	\$35	\$1,260
6	Waste Treatment	Ton	36	\$235	\$8,460
7	Process Units Dismantling	Hour	24	\$70	\$1,680
8	Wash Down and Disinfection of Facility and Processing Units	Hour	24	\$70	\$1,680
9	Vector Control	Lump Sump	1	\$120	\$120
10	Site Security	Lump Sump	1	\$120	\$120
11	Signs, Newspaper Notice and TCEQ Notice	Lump Sump		\$3,180	\$3,180

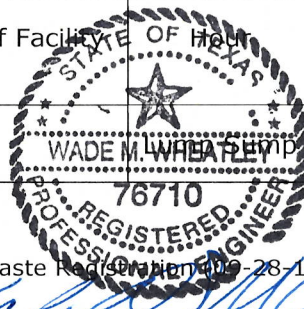


*Wade M. Wheatley*  
03/12/2020

Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
12	Facility Inspection and Closure Certification by Licensed Engineer	Lump Sump	1	\$1,180	\$1,180
13	Loading, Transport, and Disposal of 3,000-gallon Tank & 615 gallons in Trench Drain	Gallon	3,615	\$0.65	\$2,350
14	Storage and Processing Unit Closure Costs Subtotal	NA	NA	NA	\$31,500
15	Contingency Cost (15%)	NA	NA	NA	\$4,725
16	Total Closure Cost Estimate	NA	NA	NA	\$36,225

*Phase II:*

Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
1	Site Evaluation and Engineering Review	Hour	12	\$145	\$1,740
2	Bid Document and Procurement	Hour	8	\$90	\$720
3	Contract Award and Administration	Hour	10	\$120	\$1,200
4	Clean-Up, Removal and Transport of Waste Stored On-Site	Ton	72	\$225	\$16,200
5	Disposal of Waste at an Authorized Facility	Ton	72	\$35	\$2,520
6	Waste Treatment	Ton	72	\$235	\$16,920
7	Process Units Dismantling	Hour	28	\$70	\$1,960
8	Wash Down and Disinfection of Facility and Processing Units	Hour	28	\$70	\$1,960
9	Vector Control	Hour	1	\$120	\$120



*Wade M. Wheatley*  
03/12/2020

Item No.	Item Description	Unit of Measurement	Quantity	Unit Cost	Total Cost
10	Site Security	Lump Sump	1	\$120	\$120
11	Signs, Newspaper Notice and TCEQ Notice	Lump Sump	1	\$3,180	\$3,180
12	Facility Inspection and Closure Certification by Licensed Engineer	Lump Sump	1	\$1,180	\$1,180
13	Loading, Transport, and Disposal of 3,000-gallon Tank & 615 gallons in Trench Drain	Gallon	3,615	\$0.65	\$2,350
14	Storage and Processing Unit Closure Costs Subtotal	NA	NA	NA	\$50,170
15	Contingency Cost (15%)	NA	NA	NA	\$7,525
16	Total Closure Cost Estimate	NA	NA	NA	\$57,695



*Wade M. Wheatley*  
03/12/2020

## Section 4—Site Operating Plan

### 4.1 General [30 TAC §326.75(a)]

**Provide the function and minimum qualifications for each category of key personnel to be employed at the facility including supervisory personnel in the chain of command (attach additional pages to answer this question if necessary):**

The facility will employ three categories of key personnel for day-to-day operations. These categories include:

Manager - The Treatment Facility is managed by a Facility Manager; who is directly responsible to the owner or operator. The Facility Manager oversees the responsibilities for the “day to day” operations of the Facility and is experienced and trained in the handling and disposal of medical waste, including the actual handling of the medical waste (transfer and storage operations); the medical waste processing and treatment operations; the regulatory documentation of the operation; the physical and environmental safety of the Facility; and safety training of Facility personnel. The Facility Manager will receive at least 16 contact hours (2 days) per year of educational classes relating to regulatory and industry procedures concerning medical waste handling, disposal, and safety issues. The classes are sponsored by waste industry organizations, regulatory agencies, and professional engineering/management societies. The Facility Manager will be required to have at a minimum a Class B License in accordance with 30 TAC §30.213.

The Facility Manager hires all necessary personnel to work at the Facility. The various requirements of the Facility will include personnel involved with the collection, handling, transfer, treatment, processing, and weighting of the medical waste; and office personnel involved with regulatory documentation and general office functions. The number of personnel working at the Facility at any given time will vary with the quantity of waste to be handled.

Waste Handlers - The Waste Handlers function in daily operations is to control facility access and screens incoming waste. The Waste Handler operates the facility in compliance with the TCEQ-approved Site Operating Plan as well as the company’s Standard Operating Procedures which do not require a TCEQ authorization. Items under the Waste Handler’s purview includes but is not limited to: equipment operation, manages waste flow, container flow and facility housekeeping. The Waste Handler may act as Records Administrator or Manager if the need warrants. The minimum qualification for Waste Handlers is general facility and regulatory knowledge.

Records Administrators -The Records Administrator controls recordkeeping and reporting. Assists with maintaining the facility operating record as described in §326.75(e). The Records Administrator may act as the Waste Handler or Manager if the need warrants. The minimum qualification for Records Administrators is general facility and regulatory knowledge.

**Describe the procedures that the operating personnel will follow for the detection and prevention regarding the receipt of prohibited wastes, including random**

**inspections of packaging of incoming loads, records, and training (attach additional pages to answer this question if necessary):**

Various procedures to detect and control the receipt of prohibited wastes will be implemented at the facility. These procedures include but are not limited to: 1) Contracts with customers specifically detaining allowable and prohibited wastes. 2) random inspections of packaging for incoming loads; 3) record and manifest inspections and inspection results; 4) training of facility personnel responsible for inspecting or observing loads to recognize prohibited waste and informing facility customers of prohibited wastes. Facility personnel may inform waste transportation drivers of facility requirements and screening for prohibited wastes. Information regarding the prohibited wastes may be posted on facility signs or provided as a written list to customers and drivers.

If facility personnel identify prohibited waste or portions of prohibited waste within a collection vehicle, that vehicle or portions of waste within that vehicle will be rejected and immediately sent back to the waste generator.

**4.2 Waste Acceptance [30 TAC §326.75(b)]**

**Describe all sources and characteristics of medical wastes to be received for storage and processing or disposal (attach additional pages to answer this question if necessary):**

The proposed Type V Medical Waste Processing Facility will accept and process medical waste as defined in §326.3(23), including animal waste, bulk blood, bulk human blood, bulk human body fluids, pathological waste, and sharps or other healthcare-related items that have come into contact with body fluids and/or blood. Additionally, the facility may accept, and process trace chemotherapeutic waste and non-hazardous pharmaceutical waste. Regulated hazardous wastes and regulated radioactive will not be accepted or processed at the Facility. Untreated waste in storage for 72 hours or more will be refrigerated to at least 45 degrees Fahrenheit. Acceptable medical waste will generally originate from health care institutions, hospitals, physician's offices, clinics, labs, and veterinary facilities. All medical waste will be transported by either the owner or operator or other properly registered haulers per §326.53. Waste received by the Facility will be accompanied by an approved manifest identifying the generator, address of origin, and number of containers. Reusable sharps containers will be collected and transported from healthcare providers to the Facility for storage and processing. Sharps containers will be emptied, and the contents will be stored and processed as medical waste. Once emptied, the sharps containers will be stored and washed before they are returned to the generator. Medical waste; including trace chemotherapeutic waste, non-hazardous pharmaceutical waste, and sharps; will be stored and processed as a single waste stream.

Trained staff will inspect each load of incoming waste to prevent prohibited wastes from being accepted at the Facility. If unacceptable wastes are identified (such as radioactive or hazardous) via inspection or detection equipment, they will be refused and returned to their place of origin for proper handling.

There are no waste constituents or characteristics that could be a limiting parameter that may impact or influence the design and operation of this Facility, thus no parameter limitations are specified herein.

Additionally, the owner/operator will allow small quantity generators (SQGs) [generators of less than 50 pounds of untreated medical waste per month] to purchase United States Department of Transportation-approved disposable and reusable sharps containers from the owner/operator. Purchased containers may be used for transporting used or unused sharps to the Facility for processing and container treatment services. The SQGs may transport sharps, sharps containers, and medical waste to the Facility for treatment and disposal after acknowledging and signing an owner/operator-provided form stating all accepted and prohibited wastes of the Facility. This waste stream will be screened and accepted or rejected as described above. The visitor sign-in location and unloading area for exempt household wastes of similar character to the wastes authorized to be managed at this facility, are illustrated on **Attachment 2B**. Trained staff will ensure that loading and storage areas are secure from inadvertent human exposure.

**Describe the sources and characteristics of recyclable materials, if applicable, to be received for storage and processing (attach additional pages to answer this question if necessary):**

Not applicable. The facility will use reusable contains that will be washed before being returned to customers for reuse.

<b>Maximum amounts of waste</b>	<b><i>Phase I</i></b>	<b><i>Phase II</i></b>	<b>Units</b>
Maximum amount of waste to be received daily:	18	36	Tons/day
Maximum amount of waste to be stored at any point in time:	36	72	Tons

**Maximum length of time waste is to remain at the facility:** 30  hours  days

**Specify the maximum time that unprocessed and processed wastes will be allowed to remain on-site:**

**Processed:** 7  hours  days

**Unprocessed:** 72  hours  days, if unrefrigerated, or 30  hours  days in refrigeration

**Identify the intended disposition of processed and unprocessed waste received at the facility (attach additional pages to answer this question if necessary):**

Treated waste will be sent to a TCEQ approved municipal solid waste landfill for disposal. Untreated medical waste will be managed in accordance with 25 TAC Subchapter K and applicable sections found in 30 TAC Chapter 326.

**4.3 Generated Waste [30 TAC §326.75(c)]**

**Describe how all liquids and solid waste resulting from the facility operations will be disposed of in a manner that will not cause surface water and groundwater pollution (attach additional pages to answer this question if necessary):**

All process and wash water (including autoclave condensate) will be generated indoors over impervious floors with trench drains and either placed back into the processing unit or will be



managed and directed into an on-site wastewater storage container (as described in **Section 2.5, Table 3**) by the trench drains until transported by an authorized transporter to be properly disposed at a TCEQ-authorized facility. No wastewaters will be discharged from the Facility. Management of process water will be in accordance with Local, State, and Federal requirements. All processed waste will be stored in an on-site compactor (as described in **Section 2.5, Table 3**) prior to transport to and disposal at an authorized facility. All necessary authorizations and approvals will be obtained and retained within the operating record at the site and a copy will be provided to the TCEQ. All solid waste resulting from the operation of the facility will be disposed of in a manner that will not cause surface water or groundwater pollution. All solid waste generated by the Facility will be processed and disposed at an authorized solid waste management facility in accordance with §326.75(r).

#### **4.4 Access Control [30 TAC §326.75(g)]**

**Describe how public access to the facility will be controlled (attach additional pages to answer this question if necessary):**

Access to the Facility will be controlled by a minimum six (6) foot tall chain-link fence with entrance gates that will be locked when the facility is not in operation. The building has lockable doors and bay doors, which will be closed and locked when not in use. An attendant shall be on-site during operating hours and when waste is being loaded or unloaded to/ from vehicles. Waste storage units, including refrigeration units and transport units storing waste will be located within the perimeter fencing, but not within the buffer zone or any easements or right-of-way crossing the facility.

**Describe how access roads and parking areas will be maintained to control dust and prevent mud from being track off-site (attach additional pages to answer this question if necessary):**

Due to all-weather surfaces at the Facility, dust from on-site and other access roadways becoming a nuisance to surrounding areas is not anticipated. In the event that there is a problem related to windblown dust, water will be used to control windblown dust. Within the Facility boundary, a standard garden hose connected to an on-site water source (private water well) may be sufficient to apply water.

All on-site and other access roadways will be maintained on a regular basis to minimize depressions, ruts, and potholes, as appropriate. Off-site access roads and their repairs are under the jurisdiction of Potter County and/or the Texas Department of Transportation.

**Access to the facility will be controlled by a perimeter fence, with lockable gates. Identify or describe the type of fence that will be installed at the facility:**

- A four-foot-high barbed wire fence;
- A six-foot-high chain-link fence; or
- Other: \_\_\_\_\_

#### **4.5 Operating Hours [(30 TAC §326.75(i)]**

**Provide the operating hours of the facility; include justification for hours outside of 7:00 a.m. to 7:00 p.m., Monday through Friday:**

Requested waste acceptance and transfer hours for the Facility and commercial waste transportation companies are 24 hours per day, 7 days per week. Operating hours for waste processing units is 24 hours per day, 7 days per week. The owner or operator may conduct operations for maintenance and housekeeping, as needed, 24 hours per day, 7 days per week. Customer and business needs necessitate the operating hours requested (i.e. customers often require the collection of waste after normal operating hours).

Requested waste acceptance hours of exempt household waste of similar character to the wastes authorized to be managed at this facility are 7:00am to 7:00 pm, Monday through Friday. See **Section 4.2** for operation details.

Initial Application Submittal Date 1/6/2020  
Revision Date: March 12, 2020

**List the alternative operating hours, if any, of up to five days in a calendar-year period:** Not applicable.

## **Section 5—Other Site Operating Plan, Financial Assurance, and Closure Requirements**

**Attach additional pages describing how the facility will comply with the following requirements.**

- **30 TAC §326.75(d), Storage**

All medical waste will be stored in a manner that does not create a nuisance. All medical waste materials remain in sealed containers or bags as they are placed in the processing unit. All waste processing will be conducted inside the building, separate from waste storage.

Untreated medical waste may need to be temporarily stored on site. Any untreated medical waste requiring storage for a period longer than 72 hours will be placed in refrigerated storage at a temperature of 45 degrees Fahrenheit or less. Once waste has been treated, it will be shredded and placed in an enclosed waste compactor and hauled to a TCEQ-permitted landfill facility for disposal, no longer than 7 days after processing. The treated waste may be contained in appropriate containers which are leak proof and will be kept securely closed to prevent spillage. Control of odors, vectors, and windblown waste from the storage area will be maintained. Storage areas are designed to manage waste volumes of Phase I and Phase II.

The stationary compactor will be operated and maintained in such a way as not to create a public nuisance through material loss or spillage, odor, vector breeding or harborage, or other condition. The sealed compactor will contain materials in such a manner that does not provide exposure, therefore eliminating the potential for the introduction of vectors and material loss or spillage. In addition, the compactor will be hauled to a permitted landfill on a regular basis.

Wastewater generated on-site will be stored in an on-site container (as described in **Section 2.5, Table 3**) until transported by an authorized transporter to an authorized disposal facility.

- **30 TAC §326.75(e), Recordkeeping and Reporting**

A copy of the registration, the approved registration application, and any other required plan or other related document, including as-built construction specifications and drawings, will be maintained at this Facility at all times as part of the Facility Operating Record. These documents will be available for inspection by agency representatives.

The operator will record and maintain the information required in §326.75(e)(2)(A-E) in their Facility Operating Record.

The owner or operator will sign all reports and other information requested by the executive director (per §305.44(a) relating to Signatories to Applications and 30 TAC §326.75(e)(3)) or by an authorized representative of the owner or operator.

Should there be a change in an individual or position, a new authorization satisfying the requirements of §326.75(e)(3) will be submitted to the executive director prior to or together with, any reports, information, or applications to be signed by an authorized representative, in accordance with §326.75(e)(3)(B).

All information contained in the Operating Record will be furnished upon request to the executive director and shall be made available during the Facility's operating hours for inspection by the executive director and other times mutually agreeable to the TCEQ and the operator.

The owner or operator shall retain all information contained within the operating record and the different plans required for the facility for the life of the facility.

The owner or operator will retain all information contained within the Operating Record and the various plans required for the Facility for the life of the operation.

Each load of untreated medical waste is reviewed upon receipt to ensure the proper documentation has been provided and that the Facility referred to in this registration application is named as the designated facility to receive the waste. Shipping documents are signed and at least one copy is provided to the transporter. The owner or operator will retain a copy for the Facility Operating Record and within 45 days after the delivery is received, a written or electronic copy of the shipping document is returned to the generator, including the total weight of waste received and a statement that the medical waste was treated in accordance with 25 TAC §1.136.

- **30 TAC §326.75(f), Fire protection Plan**

An adequate supply of water under pressure will be provided on-site via storage container that is supplied by an on-site water well and water brought to the site by the local firefighting authority, as needed. The operator has coordinated with the local firefighting authority and will continue to maintain adequate firefighting resources in accordance with local fire regulations.

Firefighting equipment will be readily available and accessible. Fire extinguishers will be located throughout the Facility building. Fire extinguishers are typically 5-pound ABC type. In addition, a standard water hose will be available for initial firefighting.

A Fire Protection Plan is included as **Attachment 20A**. Employees will be trained in its contents and use. The Fire Protection Plan includes the measures for fire protection, procedures for using fire protection measures, employee training and safety procedures, notification protocol, etc. The Fire Protection Plan is in compliance with local fire codes.

- **30 TAC §326.75(g)(2), Access Roads, Vehicle Parking, and Safety Measures**

The access roads to the Facility are all paved roadway, as detailed in **Section 2.2** of the Application for a Medical Waste Registration. The entrance and exit for the Facility are on Indian Hill Road, which is a two-lane thoroughfare leading to roadways connected to Interstate 40 (I-40). The Facility provides safe on-site access for commercial vehicles, and for employees and visitors. The on-site roads include adequate turning radii according to the vehicles that will be utilized at the facility and disruption of normal traffic patterns will be avoided. The Facility provides adequate parking for equipment, employees, and visitors. Safety bumpers at hoppers will be provided, where applicable. On-site roads are constructed of well-graded gravel and will be maintained to prevent airborne dust and mud.

- **30 TAC §326.75(g), Access Control**

Public access control will be maintained through several means. When the facility is operating, process operators control access to the Facility building which houses the processing areas. No processing occurs outside of the Facility building. Traffic is controlled by vehicle signage and established access roads. The Facility building is locked and secured during non-operational hours. The perimeter of the facility is equipped with 6-foot chain-link fencing and a locking gate at the site entrance and exit.

The access roads to the Facility are all paved roadway, as detailed in **Section 2.2** of the Application for a Medical Waste Registration. The entrance and exit for the Facility are on Indian Hill Road, which is a two-lane thoroughfare leading to roadways connected to Interstate 40 (I-40). The Facility provides safe on-site access for commercial vehicles, and for employees and

visitors. The on-site roads include adequate turning radii according to the vehicles that will be utilized at the facility and disruption of normal traffic patterns will be avoided. The Facility provides adequate parking for equipment, employees, and visitors. Safety bumpers at hoppers will be provided, where applicable. On-site roads are constructed of well-graded gravel and will be maintained to prevent airborne dust and mud.

The operating/processing area is housed in the enclosed Facility structure. Access to the building is controlled via process operator attendance, boundary fencing, and locking doors and gates. The Facility has a 6-foot chain link no-climb perimeter fence which encloses the facility building and parking areas, as show, on the Facility Access and Layout Maps, presented as **Attachment 2A** and **Attachment 2B**, respectively. An attendant will be on-site during operating hours.

- **30 TAC §326.75(h), Unloading of Waste**

The unloading of medical waste will be confined to the loading docks, as shown on **Attachment 2B**. An attendant will monitor all incoming loads of waste. Signage and/or Facility personnel will direct vehicles to the appropriate unloading areas. This Facility is not required to accept any medical waste that may cause problems in maintaining compliance with the Site Operating Plan. If unacceptable wastes are identified they will be refused and returned to their place of origin for proper handling. Pathological, non-hazardous pharmaceutical, and trace chemotherapeutic wastes may be stored and processed at the Facility. Untreated waste in storage for 72 hours or more will be refrigerated to at least 45 degrees Fahrenheit.

The unloading of waste in areas not specified for this activity, as shown on **Attachment 2B**, will be prohibited. Should any waste be deposited in an unauthorized area, it will be removed immediately and treated, stored, or disposed of properly.

The unloading of prohibited wastes at the Facility will not be allowed. Prohibited waste will be returned immediately to the transporter or generator of the waste or transported to an appropriately permitted facility.

To prevent the exceedance of the requested maximum waste storage volume, all excess waste will be diverted/transferred to a TCEQ-approved facility for treatment, storage, or disposal.

- **30 TAC §326.75(i)(3), Recording of Applicable Alternative Hours (if used)**

Not applicable

- **30 TAC §326.75(j), Signs at Facility Entrances**

The owner/operator will display a sign at the entrance to the Facility which measures at least four feet by four feet with letters at least three inches in height stating the following the Facility Name; type of facility; hours and days of operation; authorization number of the Facility; and Facility rules.

- **30 TAC §326.75(k), Control of Windblown Material and Litter**

Windblown litter is not anticipated at this Facility. Processing and storage areas of the Facility are completely enclosed. Any waste stored outside of the building will be stored in completely enclosed transportation trailers. However, site personnel will regularly patrol the Facility property for litter and any identified litter will be cleaned up the same day.

- **30 TAC §326.75(l), Facility Access Roads**



All off-site access roads are paved, all-weather roads and on-site roads are constructed of well-graded gravel to ensure access and integrity in all weather conditions. Although mud is not anticipated on the Facility roadways or parking areas, if mud is present, Facility personnel will implement measures to minimize the tracking of mud and debris onto public roadways. Airborne dust is not anticipated to be a nuisance at the Facility; however, if airborne dust is observed, Facility personnel will implement measures, such as wetting of on-site roadways to prevent dust from becoming airborne.

On-site roads/parking areas are maintained by the owner/operator. Off-site access roads are maintained by the property authority (municipal or state entities). The owner/operator will coordinate with the entity exercising maintenance responsibility of the public roadway, as necessary, to ensure that depressions, ruts, and potholes are addressed.

- **30 TAC §326.75(m), Noise Pollution and Visual Screening**

All processing and storage except enclosed vehicle storage of waste to be processed on-site or transported to an off-site facility will be conducted inside of an enclosed building to prevent potential noise and visual impacts. All other activities, such as transportation and maintenance activities, are not anticipated to produce noise pollution or adverse visual impacts. Buffer zones will aid in mitigation of noise and add to visual screening. Additionally, the owner/operator owns the properties directly to the east and west of the facility that further abates noise pollution and provides additional visual screening.

- **30 TAC §326.75(n), Overloading and Breakdown**

The design capacity of the processing unit(s), as described in **Section 2.5, Table 3**, and waste acceptance and storage volumes, as stated in **Section 4.2**, will not be exceeded. The Facility will not accumulate medical waste in quantities that cannot be processed within such time that would allow for the creation of odors, insect breeding and harborage of other vectors. A process flow diagram and narrative of the Facility's operations are provided as **Attachment 8**.

There are several measures employed by the owner/operator that ensure that waste is stored properly and processed in a timely manner:

1. The Facility has sufficient storage capacity for incoming waste to accommodate the requested volume of medical waste allowable in storage which would allow for sufficient time to repair equipment malfunctions.
2. Incoming wastes stored <72 hours will be stored in an enclosed unit or in appropriate closed containers and, once processed, will not attract vectors or create odors. Wastes stored >72 hours will be stored in an enclosed, refrigerated unit (45 degrees Fahrenheit or less) until processed or transferred to a TCEQ-approved off-site facility, in the event of prolonged work stoppage. Designated processing and storage areas are depicted on **Attachment 2A** and **2B**.
3. Incoming waste shipments can be delayed, or sent to alternative, authorized storage, processing, or disposal facilities, if necessary.

If significant work stoppage should occur due to mechanical breakdown or other causes, the Facility will restrict the receipt of waste accordingly. Under such circumstances, incoming waste deliveries will be delayed or diverted to an authorized processing or disposal facility. If the work stoppage is anticipated to last long enough to create objectionable odors, insect breeding or harborage of vectors, steps shall be taken to remove the accumulated medical waste from the Facility to a TCEQ-approved treatment, storage, or disposal facility.

The owner or operator will have alternative processing or disposal procedures for the solid waste in the event that the facility becomes inoperable for periods longer than 24 hours.

Treated waste will be hauled to a TCEQ-approved facility for disposal.

- **30 TAC §326.75(o), Sanitation**

Potable water and sanitary facilities for all employees and visitors will be provided, as shown on **Attachment 2A** and **2B**.

All working surfaces that come in contact with wastes will be washed down regularly at the completion of processing. Washing and cleaning activities will be conducted as needed, at least twice weekly. The operator may use an Environmental Protection Agency (EPA)-approved disinfectant for cleaning of all surfaces that come into contact with untreated medical waste in the event of a spill. Wash waters are not allowed to accumulate on site in order to prevent the creation of odors or attract vectors. Additionally, all wash waters will be collected and disposed of in an authorized manner (see **Section 4.3** for details).

- **30 TAC §326.75(p), Ventilation and Air Pollution Control**

This Facility will comply with all applicable regulations regarding air emissions and will obtain any required authorization from the TCEQ, Air Permits Division. This Facility will operate under 30 TAC §330 Subchapter U and 30 TAC §106.183.

- **30 TAC §326.75(q), Health and Safety**

Please see **Attachment 20B**.

- **30 TAC 326.75(r), Disposal of Treated Medical Waste (if applicable)**

As provided by §326.75(r), treated microbiological waste, blood, blood products, body fluids, laboratory specimens of blood and tissue, and animal bedding may be disposed of in a permitted landfill. The owner/operator processes reusable medical waste containers at the Facility using a specialized wash system, and containers will therefore not be disposed. The owner/operator will shred treated medical waste prior to disposing of it in a permitted landfill. Any markings that identify the waste as a medical waste will therefore be obscured and illegible after the shredding process.

Any markings that identify the waste as a medical waste will be covered with a label that identifies the waste as treated medical waste before disposal. The identification of the waste as treated may be accomplished by the use of color-coded, disposable containers for the treated waste or by a label that states that the contents of the disposable container have been treated in accordance with the provisions of 25 TAC §1.136.

Treated waste will be accompanied by a shipping document that includes a statement that the medical waste was treated in accordance with 25 TAC §1.136 (relating to Approved Methods of Treatment and Disposition).

- **30 TAC §326.71(n); Financial Assurance**

The value of financial assurance for this Facility will be based on phased growth of the Facility's operations, as stated in **Section 3.2** of this registration application.

A copy of the documentation required to demonstrate financial assurance as specified in Chapter 37, Subchapter R of this title (relating to Financial Assurance for Municipal Solid Waste Facilities)

shall be submitted 60 days prior to the initial receipt of waste for Phase I and prior to increased waste receipts for operation under Phase II. Continuous financial assurance coverage for closure must be provided until all requirements of the final closure plan, presented as **Attachment 20C**, have been completed and the facility is determined to be closed in writing by the executive director.

In accordance with 30 TAC §326.77(j) & (k), after construction and prior to accepting waste, a pre-opening inspection will be conducted by the executive director within 14 days of notification by owner or operator that all construction activities have been completed, accompanied by representatives of the owner or operator and the engineer.

- **30 TAC §326.71(I)(1); provide notice for final facility closure and information for the public and executive director no later than 90 days prior to initiating final closure.**

Once the decision is made to close, and no later than 90 days prior to the closure, the operator will place a public notice in the newspaper with the largest circulation in the area. The announcement will have the facility name, contact address and physical location, registration number, notification number, and intended closure date. The operator will also make available an adequate number of copies of the approved final closure plan for public access and review. A written notice will be sent to the executive director of the TCEQ of the intent to close the treatment facility. Additional notices will be mailed to current customers. Copies of all correspondence will be placed in the site operating record.

This Closure Plan, presented as **Attachment 20C**, provides for the conclusion of all operations and the termination of the requirements for a State of Texas Medical Waste Treatment Facility Registration at the location. In order to close the Facility, all on-site medical waste and related wastes would need to be transferred to a treatment, storage, or disposal facility, the containers used for the transfer of the medical waste would need to be cleaned and sanitized, the Facility floors in the storage and processing/treatment areas would need to be cleaned and sanitized, and the Treatment Facility equipment would need to be removed from the Facility property.

- **30 TAC §326.71(I)(2); install signs and barriers upon notification of final closure to the executive director.**

Upon facility closure notification to the executive director, the required signs will be posted at the main entrance and all other frequently used points of access for the Facility, notifying all parties that may utilize the facility about the proposed closing date. The signs will state that after the closing date, acceptance of waste at the facility will be prohibited. After the date of closure, the gates will be shut, or barriers installed to prevent unauthorized dumping.

- **30 TAC §326.71(I)(3); provide certification of closure, and a request for voluntary revocation of facility registration within 10 days after completion of final closure of the facility.**

Within ten days of completion of final closure activities, the operator or the operator's agent will submit to the executive director of the TCEQ a closure certification and a request for registration revocation. The closure certification will be signed by a Texas-licensed professional engineer and will verify that the final facility closure was completed in accordance with the approved closure plan. The engineer's certification may state that:

(A) Certification

A certification, signed by an independent licensed professional engineer, verifying that final facility closure has been completed in accordance with the approved closure plan. The submittal

Initial Application Submittal Date 1/6/2020  
Revision Date: March 12, 2020

to the executive director shall include all applicable documentation necessary for certification of final facility closure; and

(B) Request for Voluntary Revocation

A request for voluntary revocation of the facility registration will be made at the time of closure.

**Section 6—Applicant Certification and Signature**

*The applicant is the person or entity who would be the owner of the facility and in whose name the registration would be issued. If the application is signed by an authorized representative for the applicant, the applicant must complete the delegation of signature authority.*

**Certification by Applicant or Authorized Signatory [30 TAC §305.44]**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of applicant, or other person authorized to sign: Wade Wheatley, P.E.

Title of person signing: Managing Director

Signature:  Date: 03/12/2020

**Notarization**

SUBSCRIBED AND SWORN to before me by the said \_\_\_\_\_

On this 12<sup>th</sup> day of March, 2020.

My commission expires on the 03 day of May, 2022.

Notary Public in and for Texas County, Texas



**Applicant's Delegation of Signature Authority [30 TAC §305.43]**

I hereby delegate the person named below as my representative and hereby authorize said representative to sign any application, submit additional information as may be requested by the Commission; and appear for me at any hearing or before the Commission in conjunction with this request for a Texas Water Code or Texas Solid Waste Disposal Act permit. I further understand that I am responsible for the contents of this application, for oral statements given by my authorized representative in support of the application, and for compliance with the terms and conditions of any permit which might be issued based upon this application.

Name of applicant's representative: \_\_\_\_\_

Name of person who is the applicant, or officer or official representing corporation or public agency that is the applicant: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**Notarization**

SUBSCRIBED AND SWORN to before me by the said \_\_\_\_\_

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

My commission expires on the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

Notary Public in and for \_\_\_\_\_ County, Texas

**Section 7—Property Owner Affidavit**

**Affidavit [30 TAC §326.71(b)]**

*This section must be completed by the owner of the property on which the facility would be located.*

I am the owner of the land on which the proposed facility would be located. I acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and after closure for the purpose of inspection and maintenance.

Property owner name: Frank Shane Ward and Bobby Brandon Brown

Signature: [Handwritten Signature] Date: January 3, 2020

**Notarization**

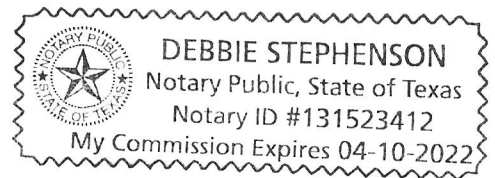
SUBSCRIBED AND SWORN to before me by the said President - Brandau Brown

On this 3<sup>rd</sup> day of January, 2020.

My commission expires on the 10<sup>th</sup> day of April, 2022.

[Handwritten Signature: Debbie Stephenson]  
Notary Public in and for

Randall County, Texas





## Attachments

**Table Att-1. Required Attachments**

Attachments	Attachment No.
General Location Map	1
Facility Access Map	2A
Facility Layout Map	2B
Land Use Map	3
Land Ownership Map	4A
Land Ownership List	4B
Land Ownership Hard Copy and Electronic Mailing List or Mailing Labels	4B
Metes and Bounds Drawing and Description	5
Property Owner Affidavit	6
Copy of Authorization to Discharge Wastewater to a Treatment Facility	7
Process Flow Diagram and Narrative	8
Procedures for Operation and Testing of Treatment Equipment, if applicable	9
Procedures for Preparation of any Chemical used in Treatment, if applicable	9
Verification of Legal Status	10
Texas Department of Transportation Coordination Letters	11
Entity Exercising Maintenance Responsibility of Public Roadway, if applicable	12
FEMA Map	13
<input type="checkbox"/> Facility Design Demonstration for Flood Management, or <input type="checkbox"/> Conditional Letter of Map Amendment from FEMA, if applicable	14

Wetland Documentation, if applicable	15
Council of Governments Review Request Coordination Letters	16

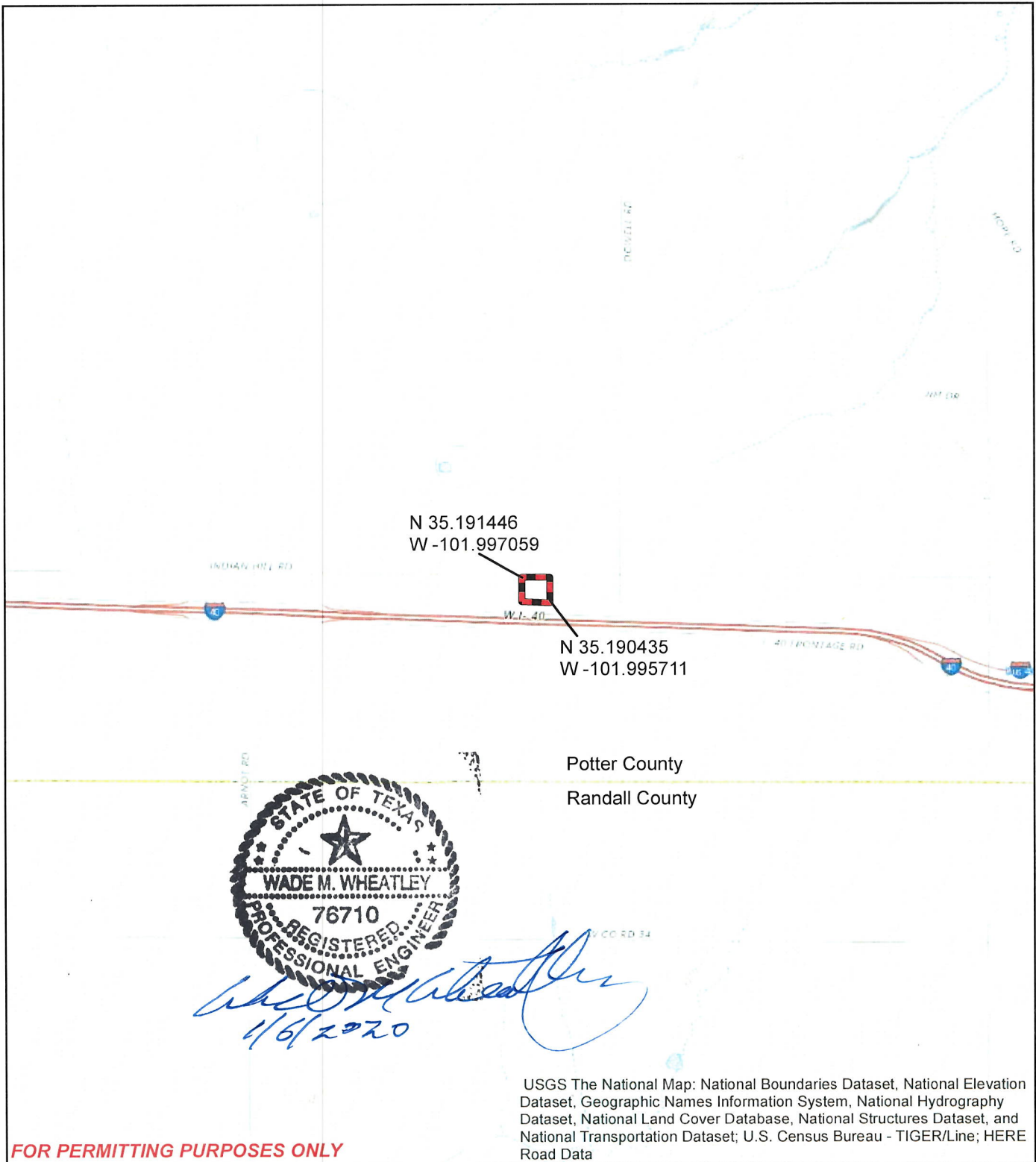
**Table Att-2. Additional Attachments; check all that apply.**

<b>Attachments</b>	<b>Attachment No.</b>
<input checked="" type="checkbox"/> TCEQ Core Data Form(s)	17
<input checked="" type="checkbox"/> Fee Receipt or copy of check	18
<input type="checkbox"/> Published Zoning Map	NA
<input type="checkbox"/> Delegation of Signatory Authority	NA
<input checked="" type="checkbox"/> Manufacturer Specifications for Waste Management Units	19
<input type="checkbox"/> Additional Storage and Processing Unit Closure Cost Items	NA
<input type="checkbox"/> Confidential Documents	NA
<input checked="" type="checkbox"/> Section 5 – Other Site Operating Plan, Financial Assurance, and Closure Requirements	20A, 20B, & 20C

---

**ATTACHMENT 1**  
**GENERAL LOCATION MAP**


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USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data

**FOR PERMITTING PURPOSES ONLY**

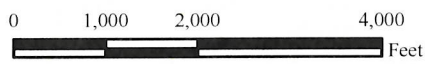
Legend

 Approximate Site Boundary

Notes:

1. Approximate coordinates data from Google Maps Imagery, 2019

Drawn by: JDS	Reviewed by: WMW
Date: 12-23-2019	
Project No.: 44634-002	



SCALE: 1" = 2,000'

**Attachment 1  
General Location Map**

Diversified Waste Management, Inc.  
Amarillo, Texas

**GDS Associates, Inc.**  
*Engineers and Consultants*



919 Congress Avenue, Suite 1110  
Austin, Texas 78701  
Texas Register of Engineering Firm  
F-4089




---

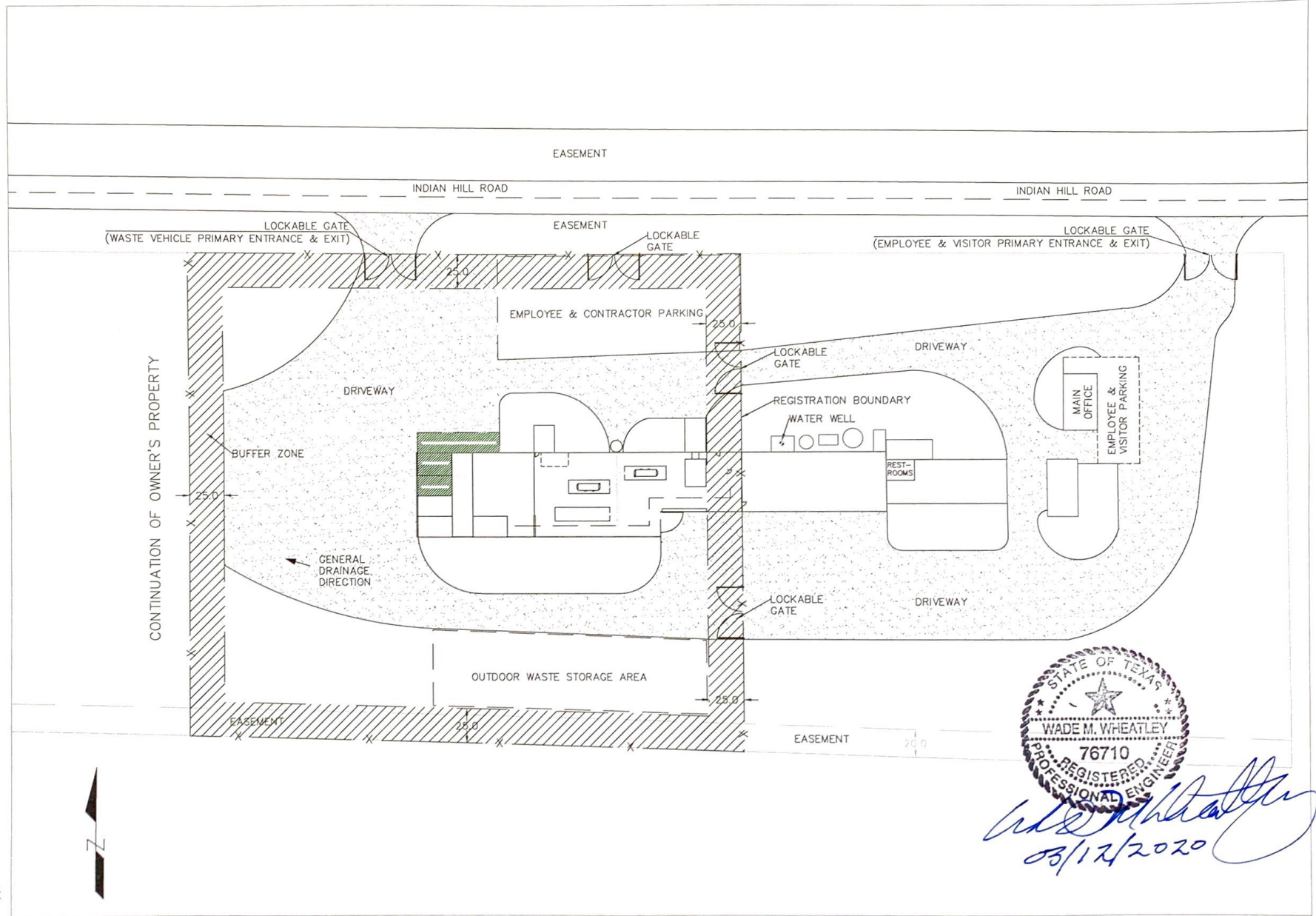
**ATTACHMENT 2A**  
**FACILITY ACCESS MAP**

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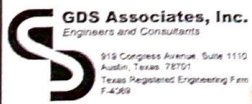
**FOR PERMITTING PURPOSES ONLY**

**NOTES**

1. MEDICAL WASTE PROCESSING WILL BE CONDUCTED ONLY IN DESIGNATED WASTE PROCESSING AREA.
2. NO SOLID WASTE UNLOADING, LOADING, OR PROCESSING WILL OCCUR WITHIN ANY EASEMENT, BUFFER ZONE, OR RIGHT-OF-WAY.
3. THE BUFFER ZONE WILL BE MAINTAINED TO PROVIDE SAFE PASSAGE OF FIRE FIGHTING AND OTHER EMERGENCY VEHICLES.
4. VISITOR PARKING AND SIGN-IN IS LOCATED AT THE MAIN OFFICE.
5. AUTHORIZATION FOR 10-DAY HAZARDOUS WASTE TRANSFER AREAS WILL BE MAINTAINED THROUGH TCEQ - NOT AUTHORIZED BY THIS REGISTRATION.
6. PHASE I WILL INCLUDE AUTOCLAVE NO. 1 AND PHASE II WILL INCLUDE BOTH AUTOCLAVE NO. 1 & 2 (SEE ATTACHMENT 2B).
7. INDIAN HILL ROAD CONSISTS OF ASPHALT AND ALL ON-SITE ROADS CONSIST OF COMPACTED, WELL-GRADED GRAVEL.
8. DRAINAGE IS GENERALLY TO THE WEST.
9. THE SURFACE TYPE OF ALL ROADS WITHIN ONE-MILE OF THE FACILITY THAT WILL NORMALLY BE USED BY THE OWNER/OPERATOR FOR FACILITY INGRESS/EGRESS IS ASPHALT. ROADS ARE DEPICTED IN ATTACHMENT 3 - LAND USE MAP.



STATE OF TEXAS  
 WADE M. WHEATLEY  
 76710  
 REGISTERED PROFESSIONAL ENGINEER  
*Wade M. Wheatley*  
 03/17/2020



DRAWN BY: JDS	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
APPROVED BY: WAW	#1	02/25/20	JDS	REVISED NOTE NO. 2, ADDED NOTE NOS. 5, 6, 7, 8, AND 9
DATE: 02-25-2020	#2	02/25/20	JDS	ADDED EASEMENT ALONG SOUTHERN REGISTRATION BOUNDARY
SCALE: AS SHOWN	#3	02/25/20	JDS	ADDED GENERAL DRAINAGE DIRECTION
	#4	--	--	--
	#5	--	--	--
	#6	--	--	--

FACILITY ACCESS MAP  
 ATTACHMENT 2A  
 DIVERSIFIED WASTE MANAGEMENT, INC.  
 AMARILLO, TEXAS

GDS PROJECT NUMBER: 44634-002	DIVERSIFIED WASTE MANAGEMENT, INC.
DATE: 02-25-2020	FIGURE NUMBER: 2A



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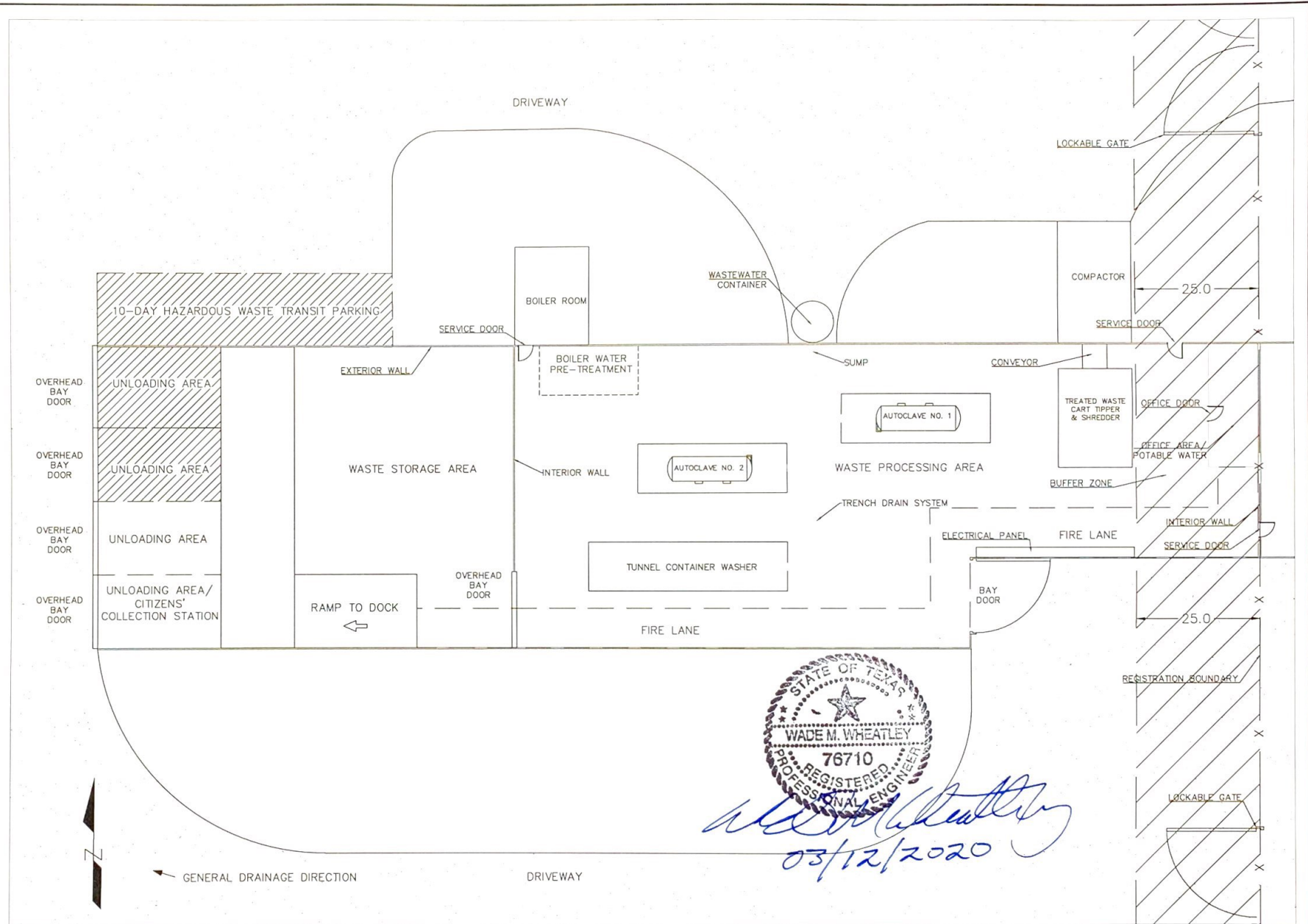
**ATTACHMENT 2B**  
**FACILITY LAYOUT MAP**

---

**FOR PERMITTING PURPOSES ONLY**

**NOTES**

1. MEDICAL WASTE PROCESSING WILL BE CONDUCTED ONLY IN DESIGNATED WASTE PROCESSING AREA.
2. NO SOLID WASTE UNLOADING, LOADING, OR PROCESSING WILL OCCUR WITHIN ANY EASEMENT, BUFFER ZONE, OR RIGHT-OF-WAY.
3. THE BUFFER ZONE WILL BE MAINTAINED TO PROVIDE SAFE PASSAGE OF FIRE FIGHTING AND OTHER EMERGENCY VEHICLES.
4. VISITOR PARKING AND SIGN-IN IS LOCATED AT THE MAIN OFFICE.
5. AUTHORIZATION FOR 10-DAY HAZARDOUS WASTE TRANSFER AREAS WILL BE MAINTAINED THROUGH TCEQ - NOT AUTHORIZED BY THIS REGISTRATION.
6. PHASE I WILL INCLUDE AUTOCLAVE NO. 1 AND PHASE II WILL INCLUDE BOTH AUTOCLAVE NO. 1 & 2.
7. INDIAN HILL ROAD CONSISTS OF ASPHALT AND ALL ON-SITE ROADS CONSIST OF COMPACTED, WELL-GRADED GRAVEL.
8. DRAINAGE IS GENERALLY TO THE WEST.
9. THE SURFACE TYPE OF ALL ROADS WITHIN ONE-MILE OF THE FACILITY THAT WILL NORMALLY BE USED BY THE OWNER/OPERATOR FOR FACILITY INGRESS/EGRESS IS ASPHALT. ROADS ARE DEPICTED IN ATTACHMENT 3 - LAND USE MAP.



DRAWN BY:	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
JDS	#1	02/25/20	JDS	REVISED NOTE NO. 2, ADDED NOTE NOS. 5, 6, 7, 8, AND 9
APPROVED BY: WMW	#2	02/25/20	JDS	ADDED GENERAL DRAINAGE DIRECTION AND AUTOCLAVE NAMES
DATE: 02-25-2020	#3	-	-	-
SCALE: AS SHOWN	#4	-	-	-
	#5	-	-	-
	#6	-	-	-

FACILITY LAYOUT MAP  
ATTACHMENT 2B  
DIVERSIFIED WASTE MANAGEMENT, INC.  
AMARILLO, TEXAS

GDS PROJECT NUMBER: 44634-002	DIVERSIFIED WASTE MANAGEMENT, INC.
DATE: 02-25-2020	FIGURE NUMBER: 2B

---

**ATTACHMENT 3**

**LAND USE MAP**

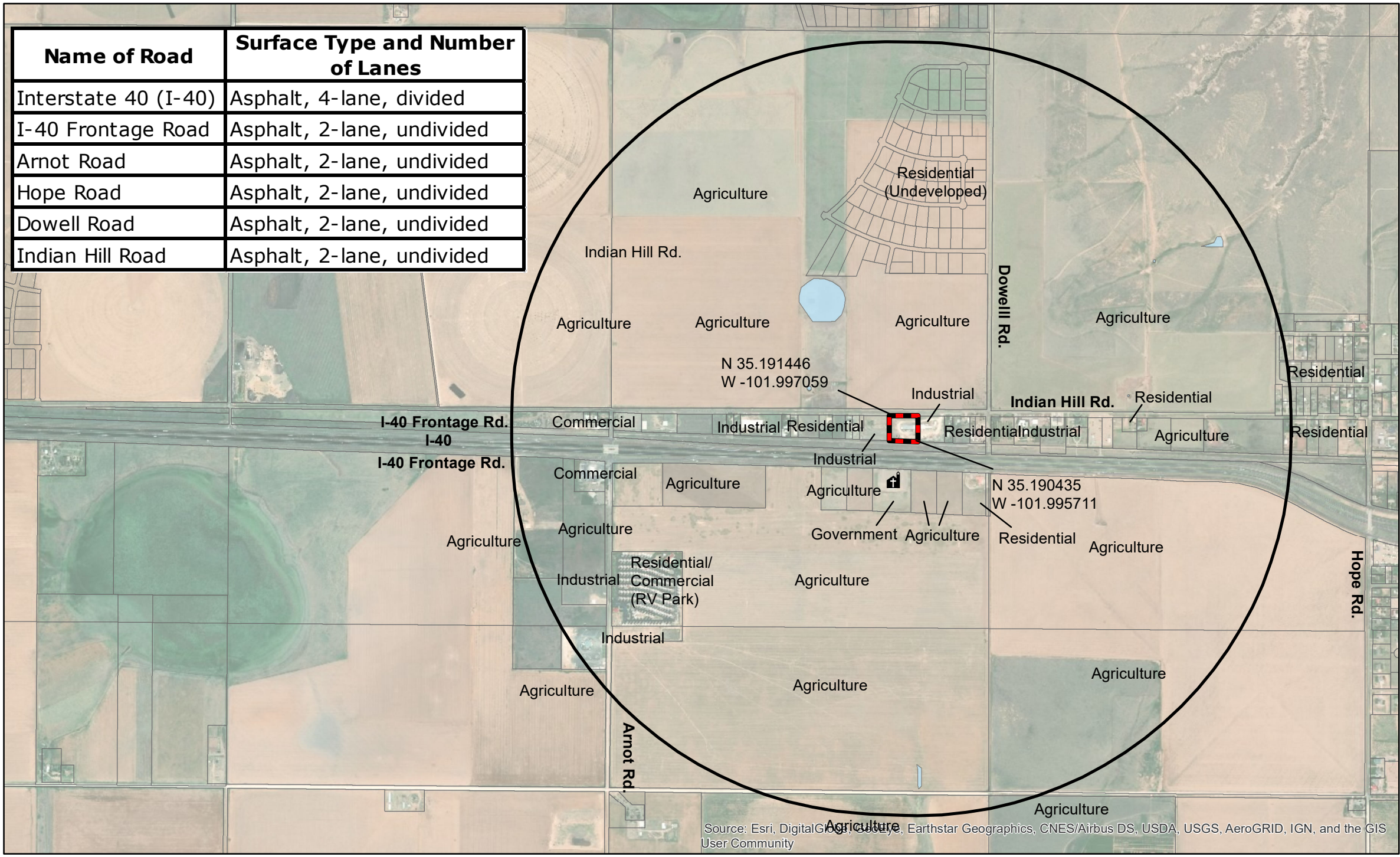
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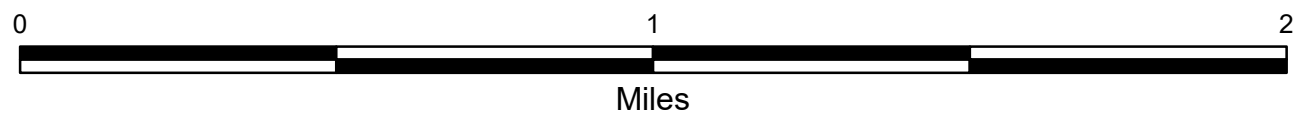
Name of Road	Surface Type and Number of Lanes
Interstate 40 (I-40)	Asphalt, 4-lane, divided
I-40 Frontage Road	Asphalt, 2-lane, undivided
Arnot Road	Asphalt, 2-lane, undivided
Hope Road	Asphalt, 2-lane, undivided
Dowell Road	Asphalt, 2-lane, undivided
Indian Hill Road	Asphalt, 2-lane, undivided

- Legend**
- Approximate Site Boundary
  - 1-Mile Radius
  - Potter County Justice of Peace
  - Surface Water
  - Parcel Boundary

- Notes:**
1. Approximate coordinates data from Google Maps Imagery, 2019.
  2. Land Use labels determined from November 2019 site visit and Google Maps Aerial Imagery, 2019.
  3. Surface water locations from USGS The National Map: National Boundaries Dataset, National Elevation Dataset, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; U.S. Census Bureau - TIGER/Line; HERE Road Data and from Google Maps Imagery, 2019.
  4. Parcel data from Potter-Randall County Appraisal District, 2019
  5. RV: Recreational vehicle



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**FOR PERMITTING PURPOSES ONLY**

GDS Associates, Inc.  
 Texas Registered Engineering Firm  
 F-4089  
**FOR PERMITTING PURPOSES ONLY**

**GDS Associates, Inc.**  
 Engineers and Consultants  
 919 Congress Avenue, Suite 1110  
 Austin, Texas 78701  
 Texas Registered Engineering Firm  
 F-4089  
 gdsassociates.com

DRAWN BY:	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
JDS	#1	03-04-2020	JDS	Add Site's land use and road details table and labels.
APPROVED BY: WMW	#2	03-04-2020	JDS	Add labels: "(RV Park)" and "(Undeveloped)."
DATE: 03-04-2020	#3	03-04-2020	JDS	Add Note no. 5, adjust data frame.
SCALE: AS SHOWN				

**LAND USE MAP  
 ATTACHMENT 3  
 DIVERSIFIED WASTE MANAGEMENT, INC  
 AMARILLO, TEXAS**

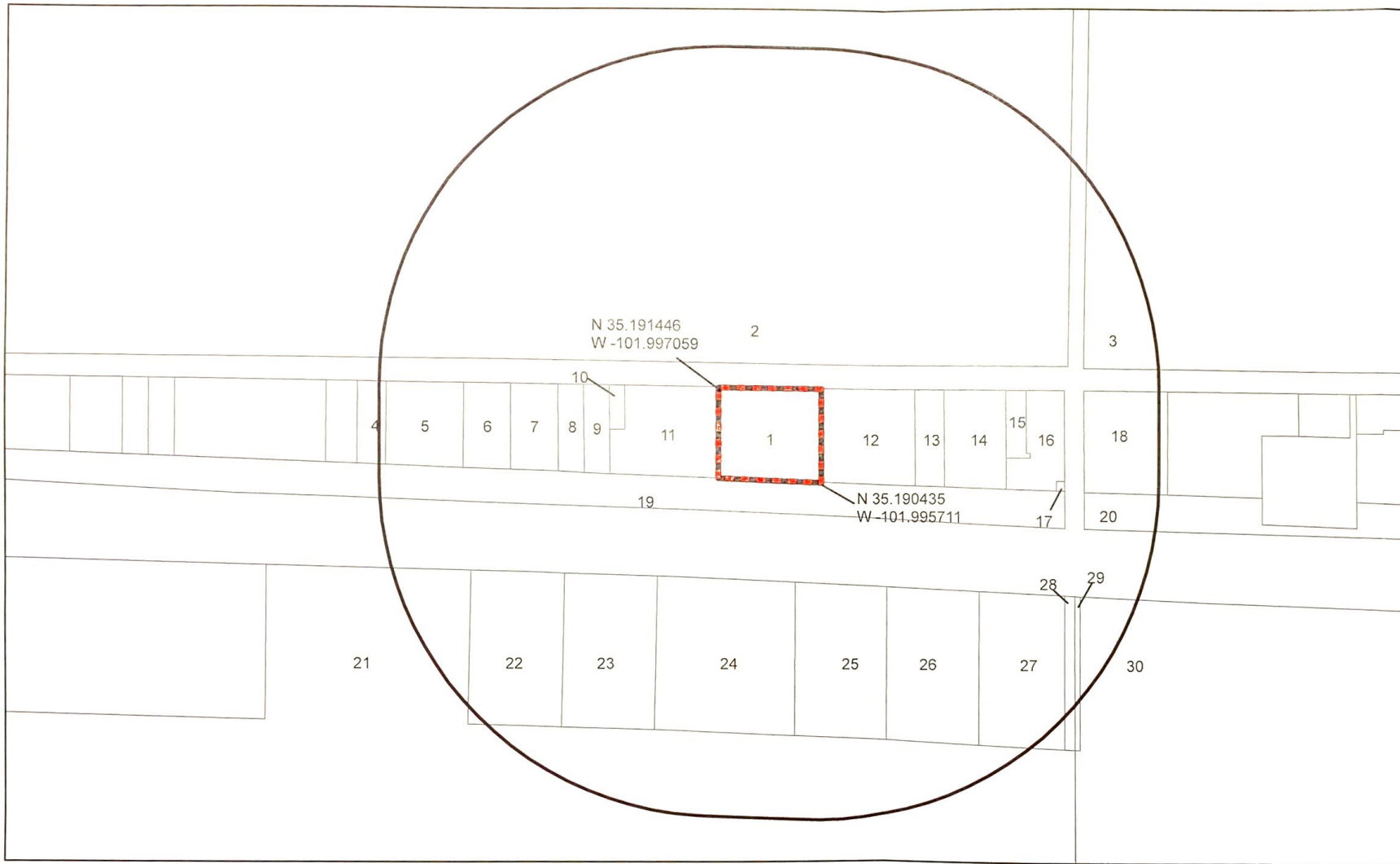
<b>DIVERSIFIED WASTE MANAGEMENT</b>	<b>PROJECT NUMBER:</b> 44634-002
<b>SHEET NUMBER:</b> 1 OF 1	<b>ATTACHMENT NUMBER:</b> 3

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**ATTACHMENT 4A**  
**LAND OWNERSHIP MAP**

---

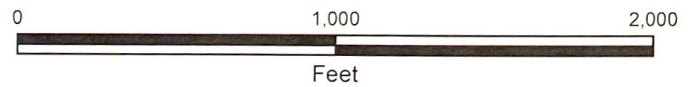
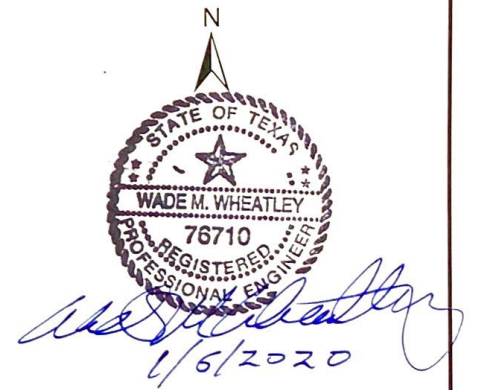




**Legend**

- Approximate Site Boundary
- 0.25-Mile Radius
- Parcel Boundary
- 10 Parcel ID for Landowner Information Purposes

- Notes:**
1. Parcel data source: Potter-Randall County Appraisal District, 2019
  2. Approximate coordinates data from Google Maps Imagery, 2019.
  3. See associated Landowners List for parcel owner and mailing address information - Attachment 4B.



**FOR PERMITTING PURPOSES ONLY**

GDS Associates, Inc.  
Texas Registered Engineering Firm  
F-4089  
**FOR PERMITTING PURPOSES ONLY**

**GDS Associates, Inc.**  
Engineers and Consultants

919 Congress Avenue, Suite 1110  
Austin, Texas 78701  
Texas Registered Engineering Firm  
F-4089

[gdsassociates.com](http://gdsassociates.com)

DRAWN BY:	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
JDS	#1	NA	NA	NA
APPROVED BY: VMW	#2	NA	NA	NA
DATE: 12-23-2019	#3	NA	NA	NA
SCALE: AS SHOWN				

**LANDOWNER MAP  
ATTACHMENT 4A  
DIVERSIFIED WASTE MANAGEMENT, INC.  
AMARILLO, TEXAS**

DIVERSIFIED WASTE MANAGEMENT	PROJECT NUMBER: 44634-002
SHEET NUMBER: 1 OF 1	ATTACHMENT NUMBER: 4A



---

**ATTACHMENT 4B**  
**LAND OWNERSHIP LIST**

---

**LANDOWNER LIST**  
**ATTACHMENT 4B**

1	WARD F SHANE, BROWN B BRANDON 11910 INTERSTATE 27 AMARILLO, TX 79119-2527
2	SV DEVELOPERS LLC 6013 SHADY BROOK DR AMARILLO, TX 79124-1326
3	EMENY 59 LTD PO BOX 1230 AMARILLO, TX 79105-1230
4	NOT AVAILABLE
5	MCCARTY LYNDA 4502 SW 2ND AVE AMARILLO, TX 79106-5206
6	WILLIAMS THOMAS G 13825 INDIAN HILL RD AMARILLO, TX 79124-2603
7	CARROLL THOMAS GERALD 902 SW 10TH ST SEMINOLE, TX 79360-5235
8	SANDERS RANDELL L, SANDERS SHERRI A 13775 INDIAN HILL RD AMARILLO, TX 79124-2602
9	SANDERS RANDELL L, SANDERS SHERRI A 13775 INDIAN HILL RD AMARILLO, TX 79124-2602
10	MARKLE STEEL CO PO BOX 1886 ODESSA, TX 79760-1886
11	WARD F SHANE, BROWN B BRANDON 11910 INTERSTATE 27 AMARILLO, TX 79119-2527
12	WARD F SHANE, BROWN B BRANDON 11910 INTERSTATE 27 AMARILLO, TX 79119-2527
13	TERRY CHARLES 13375 INDIAN HILL RD AMARILLO, TX 79124-2601
14	RANGEL ARTURO 13345 INDIAN HILL RD APT 3 AMARILLO, TX 79124-2616
15	MORO REBECCA 13245 INDIAN HILL RD AMARILLO, TX 79124-2600

16	PENDLEY RONALD G 2010 S DOWELL RD AMARILLO, TX 79124-3619
17	PENDLEY RONALD G 2010 S DOWELL RD AMARILLO, TX 79124-3619
18	KRAUSE LANDSCAPE CONTRACTORS INC PO BOX 10241 AMARILLO, TX 79116-0241
19	KAREN CORP 2319 HAWTHORNE DR AMARILLO, TX 79109-3411
20	KAREN CORP 2319 HAWTHORNE DR AMARILLO, TX 79109-3411
21	BOYCE WILLIAM C JR TRUST, BOYCE SUZANNE TRUSTEE, % AMARILLO NATIONAL BANK PO BOX 1 AMARILLO, TX 79105-0001
22	WOLFLIN PLACE LLC 2607 WOLFLIN AVE # 197 AMARILLO, TX 79109-1825
23	LOHMAN WILLIAM H 43027 PARTRIDGE RANCH RD HEMET, CA 92544-6523
24	POTTER COUNTY, % POTTER COUNTY JUDGE 900 S POLK ST STE 716 AMARILLO, TX 79101-3412
25	NORTHCUTT FRANCINE, MORALES MELANIE A 7719 WHITE PLAINS AVE AMARILLO, TX 79121-1773
26	NORTHCUTT FRANCINE, MORALES MELANIE A 7719 WHITE PLAINS AVE AMARILLO, TX 79121-1773
27	ROBERTS NIHLA J, ROBERTS BILLY GREG 5118 YALE ST AMARILLO, TX 79109-5831
28	A TO Z BILLBOARDS INC 7415 PARK RIDGE DR AMARILLO, TX 79119-6419
29	A TO Z BILLBOARDS INC 7415 PARK RIDGE DR AMARILLO, TX 79119-6419
30	EMELINE BUSH OBRIEN/MARSH TRUST, MARSH STANLEY IV CO-TRUSTEE, DAVIDSON ELIZABETH MARSH CO-TRUSTEE 3700 W AMARILLO BLVD AMARILLO, TX 79106-7021

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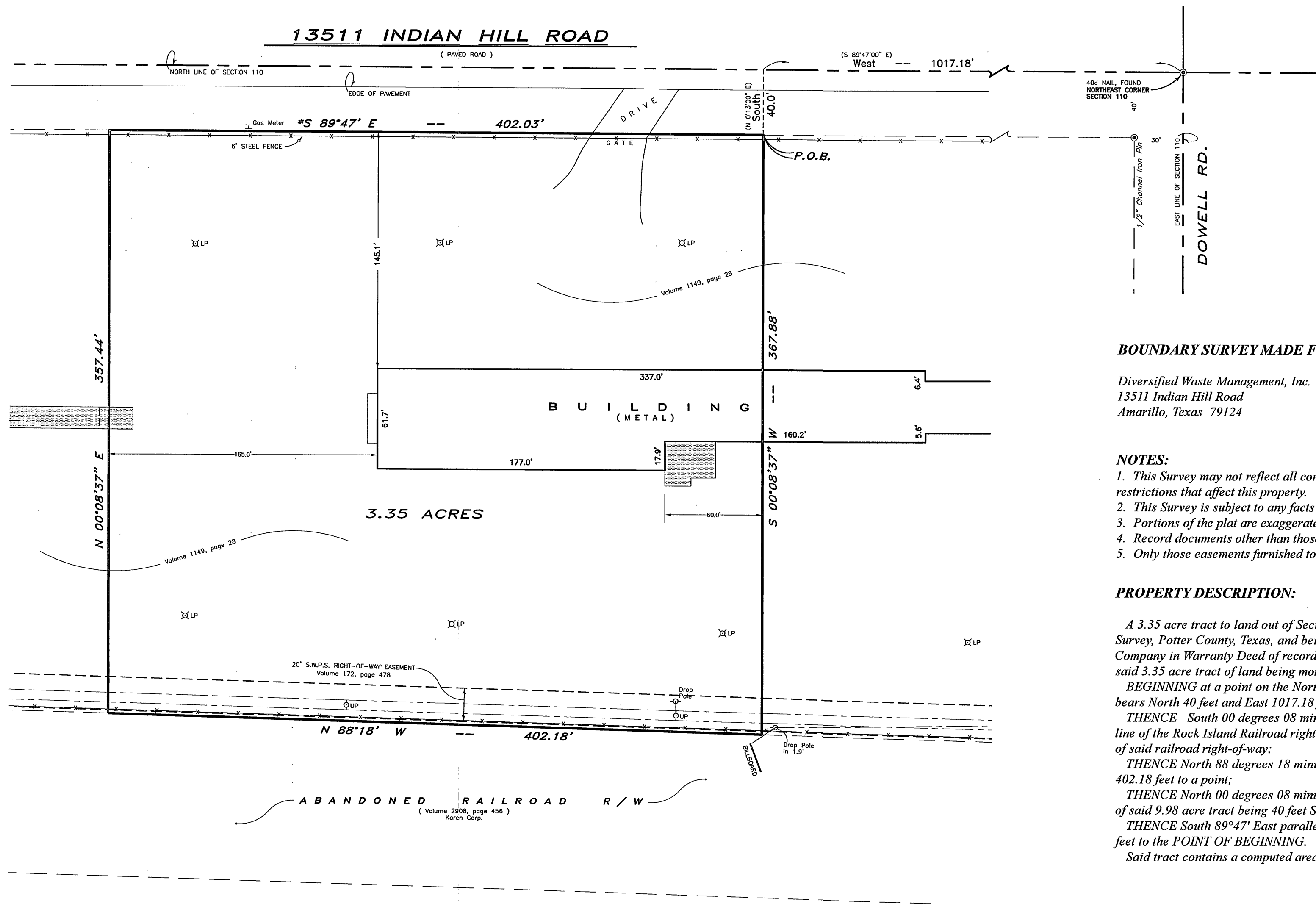
**ATTACHMENT 5**

**METES AND BOUNDS DRAWING AND DESCRIPTION**

---

" SURVEY PLAT "

Section 110, Block 9  
B.S. & F. SURVEY  
POTTER COUNTY, TEXAS



**BOUNDARY SURVEY MADE FOR:**

Diversified Waste Management, Inc.  
13511 Indian Hill Road  
Amarillo, Texas 79124

**NOTES:**

1. This Survey may not reflect all conditions that are contained in the covenants and/or restrictions that affect this property.
2. This Survey is subject to any facts which may be disclosed by a full and accurate title search.
3. Portions of the plat are exaggerated for clarity.
4. Record documents other than those shown may affect this tract.
5. Only those easements furnished to the surveyor are shown hereon.

**PROPERTY DESCRIPTION:**

A 3.35 acre tract to land out of Section One Hundred Ten (110), Block No. Nine (9), BS&F Survey, Potter County, Texas, and being a portion of a 9.98 acre tract of land as conveyed to Markle Steel Company in Warranty Deed of record in Volume 1149, page 28 of the Deed Records of Potter County, Texas, said 3.35 acre tract of land being more particularly described by metes and bounds as follows:

BEGINNING at a point on the North line of said 9.98 acre tract whence the Northeast corner of Section 110 bears North 40 feet and East 1017.18 feet;

THENCE South 00 degrees 08 minutes 37 seconds West, a distance of 367.88 feet to a point in the North line of the Rock Island Railroad right-of-way, said point being 50 feet North of the center line of said railroad right-of-way;

THENCE North 88 degrees 18 minutes West with the North line of said railroad right-of-way, a distance of 402.18 feet to a point;

THENCE North 00 degrees 08 minutes 37 seconds East a distance of 357.44 feet to a point in the North line of said 9.98 acre tract being 40 feet South of the North line of said Section 110;

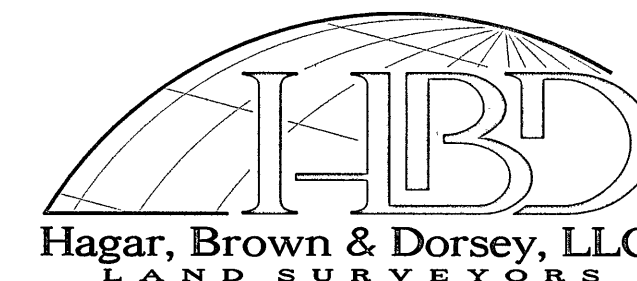
THENCE South 89°47' East parallel with the North line of said Section 110, a distance of 402.03 feet to the POINT OF BEGINNING.

Said tract contains a computed area of 3.35 acres of land.

**LEGEND** = Concrete Area

- = 3/8" Iron Rod set with HBD cap
- ⊙ = Control Monument found as noted.
- \* = Base Bearing from Record Deed
- X— = Existing Fence

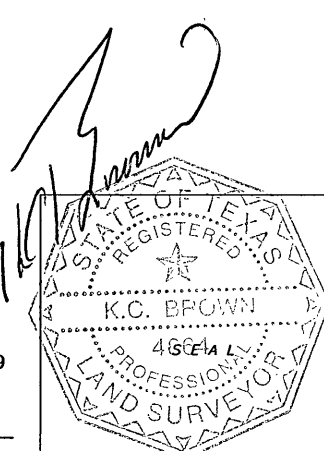
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AMARILLO  
4713 S. Western St.  
Amarillo, Texas 79109  
(806) 352-1007  
Texas Firm No. 10027300

hbd2@hbdsurveyors.us

HEREFORD  
235 E. 2nd St.  
Hereford, Texas 79045  
(806) 364-6084  
Texas Firm No. 10027301



Plat Date: 12/23/2019  
Plat No: A11538a.dwg

---

**ATTACHMENT 6**

**PROPERTY OWNER AFFIDAVIT**

---



**Section 7—Property Owner Affidavit**

**Affidavit [30 TAC §326.71(b)]**

*This section must be completed by the owner of the property on which the facility would be located.*

I am the owner of the land on which the proposed facility would be located. I acknowledge that the State of Texas may hold me either jointly or severally responsible for the operation, maintenance, and closure of the facility. I further acknowledge that the facility owner or operator and the State of Texas shall have access to the property during the active life and after closure for the purpose of inspection and maintenance.

Property owner name: Frank Shane Ward and Bobby Brandon Brown

Signature: [Handwritten Signature] Date: January 3, 2020

**Notarization**

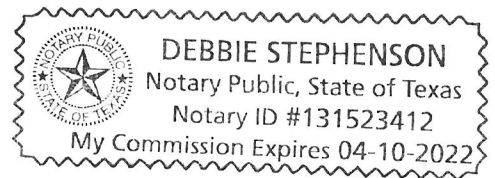
SUBSCRIBED AND SWORN to before me by the said President - Brandau Brown

On this 3<sup>rd</sup> day of January, 2020.

My commission expires on the 10<sup>th</sup> day of April, 2022.

[Handwritten Signature: Debbie Stephenson]  
Notary Public in and for

Randall County, Texas



---

**ATTACHMENT 7**

**COPY OF AUTHORIZATION TO DISCHARGE WASTEWATER TO A  
TREATMENT FACILITY**

---

**NOT APPLICABLE**

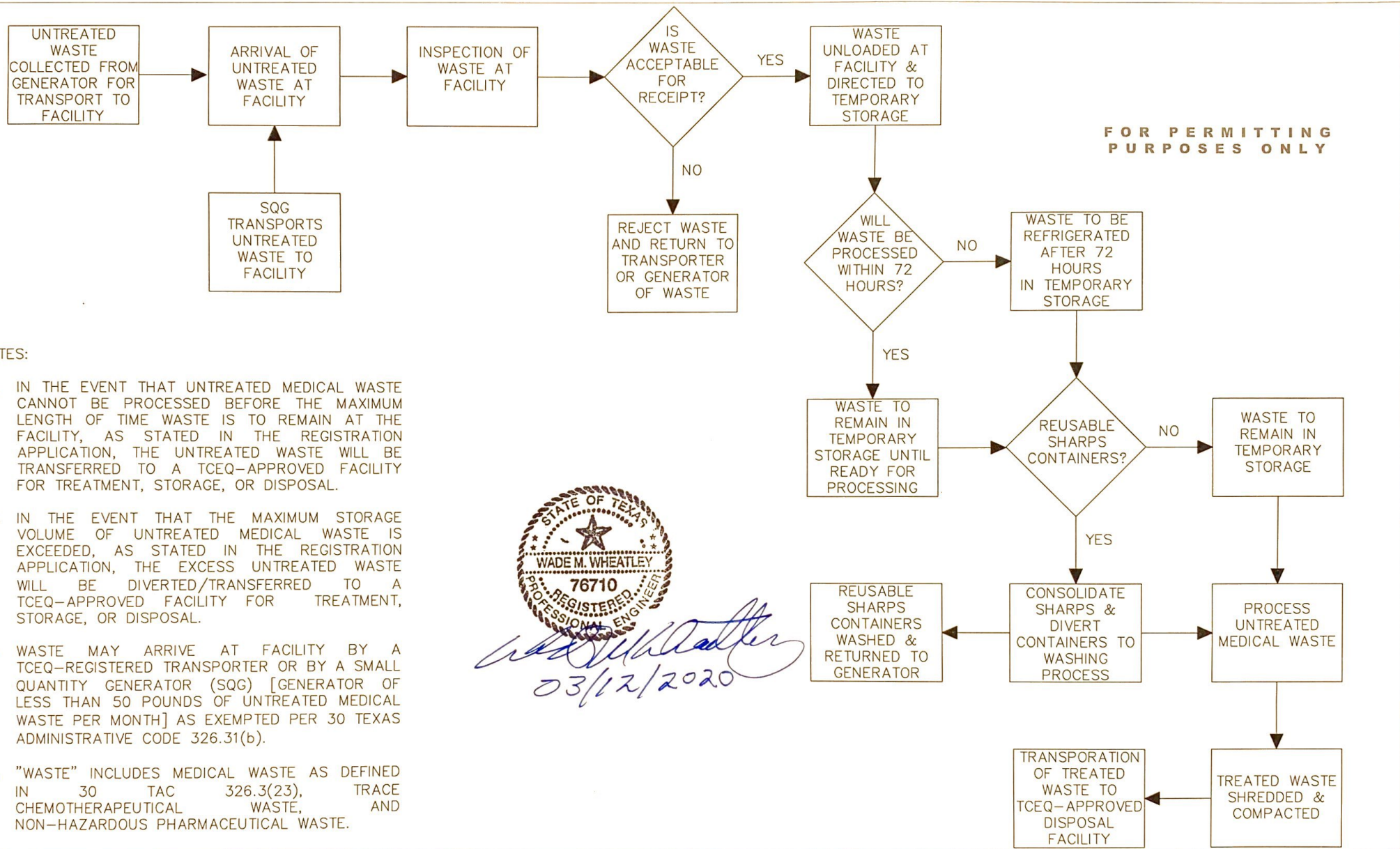
**ALL WASTEWATER WILL BE CONTAINERIZED ON-SITE AND  
TRANSPORTED OFF-SITE FOR DISPOSAL AT A TCEQ-APPROVED  
FACILITY**

---

**ATTACHMENT 8**

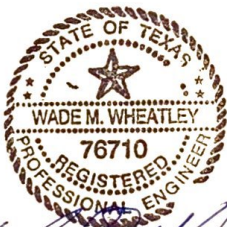
**PROCESS FLOW DIAGRAM AND NARRATIVE**

---



NOTES:

1. IN THE EVENT THAT UNTREATED MEDICAL WASTE CANNOT BE PROCESSED BEFORE THE MAXIMUM LENGTH OF TIME WASTE IS TO REMAIN AT THE FACILITY, AS STATED IN THE REGISTRATION APPLICATION, THE UNTREATED WASTE WILL BE TRANSFERRED TO A TCEQ-APPROVED FACILITY FOR TREATMENT, STORAGE, OR DISPOSAL.
2. IN THE EVENT THAT THE MAXIMUM STORAGE VOLUME OF UNTREATED MEDICAL WASTE IS EXCEEDED, AS STATED IN THE REGISTRATION APPLICATION, THE EXCESS UNTREATED WASTE WILL BE DIVERTED/TRANSFERRED TO A TCEQ-APPROVED FACILITY FOR TREATMENT, STORAGE, OR DISPOSAL.
3. WASTE MAY ARRIVE AT FACILITY BY A TCEQ-REGISTERED TRANSPORTER OR BY A SMALL QUANTITY GENERATOR (SQG) [GENERATOR OF LESS THAN 50 POUNDS OF UNTREATED MEDICAL WASTE PER MONTH] AS EXEMPTED PER 30 TEXAS ADMINISTRATIVE CODE 326.31(b).
4. "WASTE" INCLUDES MEDICAL WASTE AS DEFINED IN 30 TAC 326.3(23), TRACE CHEMOTHERAPEUTICAL WASTE, AND NON-HAZARDOUS PHARMACEUTICAL WASTE.

  
*Wade M. Wheatley*  
 03/12/2020

**GDS Associates, Inc.**  
 Engineers and Consultants

919 Congress Avenue, Suite 1110  
 Austin, Texas 78701  
 Texas Registered Engineering Firm  
 F-4089

gdsassociates.com



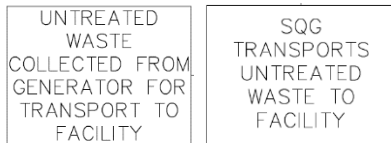

DRAWN BY: JDS	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
APPROVED BY: WMW	#1	02/25/20	JDS	ADDED NOTE NO. 4
DATE: 02/25/2020	#2	--	--	--
SCALE: AS SHOWN	#3	--	--	--
	#4	--	--	--
	#5	--	--	--
	#6	--	--	--

PROCESS FLOW DIAGRAM  
 ATTACHMENT 8  
 DIVERSIFIED WASTE MANAGEMENT, INC.  
 AMARILLO, TEXAS

GDS PROJECT NUMBER: 44634-002	DIVERSIFIED WASTE MANAGEMENT, INC.
DATE: 02-25-2020	FIGURE NUMBER: 8

## Process Flow Narrative

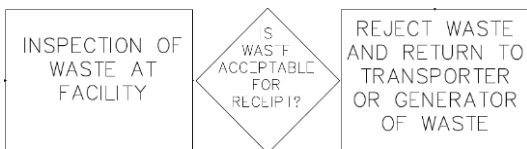
The storage, processing, transferring, and disposal sequences for the medical waste (including medical waste, as defined in 30 TAC §326.3(23), trace chemotherapeutic waste, and non-hazardous pharmaceutical waste) and other various types of waste anticipated at the proposed facility are shown on the Process Flow Diagram, also presented in **Attachment 8**.



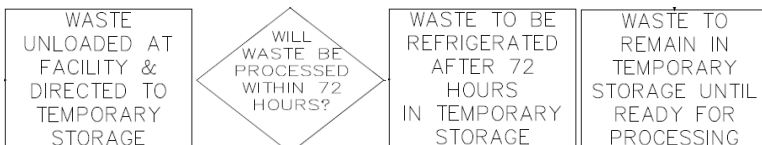
Untreated medical waste is collected from a waste generator by a TCEQ-registered medical waste transporter for transportation to the processing facility, or a small quantity generator (SQG) [generator of less than 50 pounds of untreated medical waste per month] may transport untreated medical waste to the facility without a TCEQ authorization; as stated in 30 Texas Administrative Code (TAC) 326.31(b).



Untreated medical waste arrives at the facility via TCEQ-registered medical waste transporter or SQG.

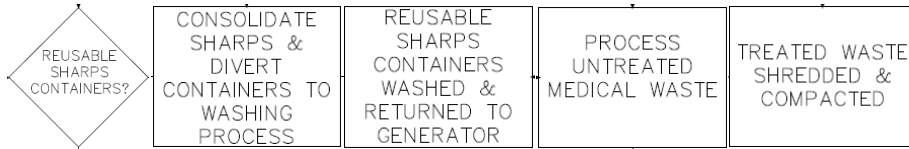


Waste acceptance procedures are described in **Section 4.2** of the "Application for a Medical Waste Registration, Diversified Waste Management" (registration application).



Incoming waste will be transferred from transport vehicle to temporary storage before processing. If untreated medical waste is not processed within 72 hours of receipt, the waste will be refrigerated at temperatures at or below 45 degrees Fahrenheit. Waste will not be

stored, processed, or transferred in buffer zones and will not be managed outside of designated areas, as shown on **Attachments 2A** and **2B**. See **Section 5.0** of the registration application for additional details of medical waste storage.



Received sharps and sharps containers will be diverted as a separate waste stream. Untreated sharps and sharps containers will be treated as untreated medical waste and will be stored accordingly. Prior to processing, sharps containers will be emptied of their contents before processed in a container washing system. The contents and all untreated medical waste will be processed via steam sterilization. All treated medical waste will be shredded prior to compaction with the exception of reusable sharps containers which will be returned to the generator. Additional details regarding treatment of medical waste are provided as **Attachment 9**.



Treated medical waste will be processed as municipal solid waste and transported to a TCEQ-approved facility for proper disposal.



---

**ATTACHMENT 9**

**PROCEDURES FOR OPERATION AND TESTING OF TREATMENT  
EQUIPMENT**

---

**PROCEDURES FOR PREPARATION OF ANY CHEMICAL USED IN  
TREATMENT (NOT APPLICABLE)**

## TREATMENT REQUIREMENTS AND PROCEDURES

Diversified Waste Management, Inc. (owner/operator) will treat medical waste in accordance with the provisions of Title 25 TAC Section 1.136 using steam disinfection. Section 1.136 refers to the approved methods of treatment and disposition within Title 25 (relating to Health Services) TAC Part 1 (relating to the Department of State Health Services) Chapter 1 (relating to Texas Board Health) Subchapter K (relating to Definition, Treatment, and Disposition of Special Medical Waste from Health Care-Related Facilities). Section 1.136 allows for various methods of treatment for various types of medical waste.

The owner/operator will treat medical waste to at least the minimum parametric standards of steam disinfection according to Title 25 TAC Section 1.133 (relating to Scope, Covering Exceptions and Minimum Parametric Standards for Waste Treatment Technologies Previously Approved by the Texas Department of Health).

Treated waste will be managed as municipal solid waste and will be transported to and disposed at a TCEQ-permitted landfill or disposal facility in accordance with 30 TAC §326.75(r) and 25 TAC §1.136.

Waste treatment, by autoclave, procedures are summarized below (equipment further described in **Attachment 19**):

1. Untreated waste is loaded into carts manufactured for autoclave use and the carts are loaded into the processing unit treatment chamber.
2. Once the door is closed and sealed, the steam disinfection operational parameters are set, and the treatment process is started.
3. Upon treatment cycle completion, treated waste is removed from the treatment chamber and handled as municipal solid waste.
4. The carts containing treated waste will be emptied into a shredder, the treated waste will be shredded and then compacted before the treated waste is transported to and disposed at a TCEQ-permitted landfill or disposal facility in accordance with 30 TAC §326.75(r) and 25 TAC §1.136.

Reusable containers washing, by wash system, procedures are summarized below (equipment further described in **Attachment 19**):

1. The wash settings are set on the machine before treatment begins.

2. Empty waste management containers and reusable sharps containers are manually loaded onto the machine's conveyor belt.
3. The conveyor belt transports the empty containers through the wash system within the machine.
  - a. High-pressure, high-temperature wash
4. Containers exit the system on the conveyor belt after washing.

**(1) Operator Demonstration of Minimum Four Log Ten Reduction**

The operator shall demonstrate a minimum four log ten reduction as defined in 25 TAC §1.132 (relating to Definitions) on routine performance testing using appropriate Bacillus species biological indicators (as defined in 25 TAC §1.132).

**(2) Weekly Testing**

The operator shall conduct weekly testing.

**(3) Minimum Parametric Standard Compliance**

In accordance with 25 TAC §1.133(b)(4), steam disinfection, the sole treatment method at the Facility, shall meet all of the following requirements. To allow for sufficient steam access to or penetration of the waste based on waste packing and capacity limits of the steam disinfection equipment. Waste will be subjected to temperatures reaching at least 121 degrees Celsius and pressures of least 15 pounds per square inch for at least 30 minutes. The steam disinfection equipment will be operated according to the manufacturer's instructions. The operator will maintain records of operating parameters and reagent strength for three years.

**(4) Quality Control – Single Use Units**

Single-use, disposable treatment units will not be stored, processed, or disposed at the Facility.

**(5) Potable Water Contamination Prevention**

30 TAC §326.71(j)(5) requires that operators of medical waste treatment equipment shall use backflow preventers on any potable water connections to prevent contamination of potable water supplies. This rule is not applicable at this Facility as treatment equipment will not be connected to a potable water supply.

**(6) Medical Waste Incinerators**

The owner/operator will not have any incinerators associated with their facility.

**(7) Alternative Treatment Technologies**

Alternative treatment technologies will not be utilized at the Facility.

---

**ATTACHMENT 10**

**VERIFICATION OF LEGAL STATUS**

---



## Office of the Secretary of State

### CERTIFICATE OF FILING OF

DIVERSIFIED WASTE MANAGEMENT, INC.  
File Number: 801521417

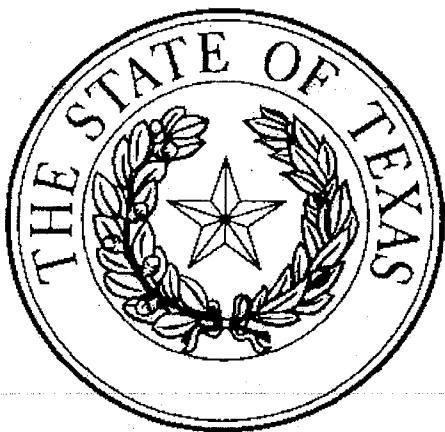
The undersigned, as Secretary of State of Texas, hereby certifies that a Certificate of Formation for the above named Domestic For-Profit Corporation has been received in this office and has been found to conform to the applicable provisions of law.

ACCORDINGLY, the undersigned, as Secretary of State, and by virtue of the authority vested in the secretary by law, hereby issues this certificate evidencing filing effective on the date shown below.

The issuance of this certificate does not authorize the use of a name in this state in violation of the rights of another under the federal Trademark Act of 1946, the Texas trademark law, the Assumed Business or Professional Name Act, or the common law.

Dated: 12/15/2011

Effective: 12/15/2011



A handwritten signature in black ink, appearing to read "Hope Andrade".

Hope Andrade  
Secretary of State

---

**ATTACHMENT 11**

**TEXAS DEPARTMENT OF TRANSPORTATION COORDINATION  
LETTERS**

---





Wade Wheatley, P.E.  
Managing Director  
wade.wheatley@gdsassociates.com

GDS Associates, Inc.  
Engineers and Consultants

Ph: 512.494.0369  
Fax: 866.611.3791

January 6, 2020

Mr. Brian Crawford, P.E.  
Texas Department of Transportation  
Amarillo District  
5715 Canyon Drive  
Amarillo, Texas 79110

Re: Type V Medical Waste Treatment Facility Registration Application Coordination  
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Mr. Crawford:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please refer to the enclosed General Location Map. The facility anticipates receiving 10-15 waste transport vehicles a day and 10-15 employee or visitor vehicles per day.

This letter is to request coordination with the Texas Department of Transportation for traffic and location restrictions in accordance with requirements set forth in the TCEQ, Medical Waste Regulations, 30 TAC §326.71(e)(4). The information will be used to document coordination with your agency, to show adequate road service for the facility and to show that traffic associated with the facility will not adversely affect the roadways. Information regarding the adequacy of the roads in the area as well as traffic counts for roads that are under the Texas Department of Transportation jurisdiction is appreciated. Your response can be mailed to my attention at 919 Congress Ave, Suite 1110, Austin, TX 78701 or sent electronically to [Wade.Wheatley@GDSAssociates.com](mailto:Wade.Wheatley@GDSAssociates.com).

Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at [Jack.Simmons@GDSAssociates.com](mailto:Jack.Simmons@GDSAssociates.com) or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure

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**ATTACHMENT 12**

**ENTITY EXERCISING MAINTENANCE RESPONSIBILITY OF  
PUBLIC ROADWAY**

---



Wade Wheatley, P.E.  
Managing Director  
wade.wheatley@gdsassociates.com

GDS Associates, Inc.  
Engineers and Consultants

Ph: 512.494.0369  
Fax: 866.611.3791

January 6, 2020

Mr. Sebastin Ysaguirre – Department Head  
Potter County Road and Bridge Department  
2419 Willow Creek  
Amarillo, Texas 79107

Re: Type V Medical Waste Treatment Facility Registration Application Coordination  
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Mr. Ysaguirre:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please refer to the enclosed General Location Map. The facility anticipates receiving 10-15 waste transport vehicles per day and 10-15 employee or visitor vehicles per day.

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Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at [Jack.Simmons@GDSAssociates.com](mailto:Jack.Simmons@GDSAssociates.com) or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure

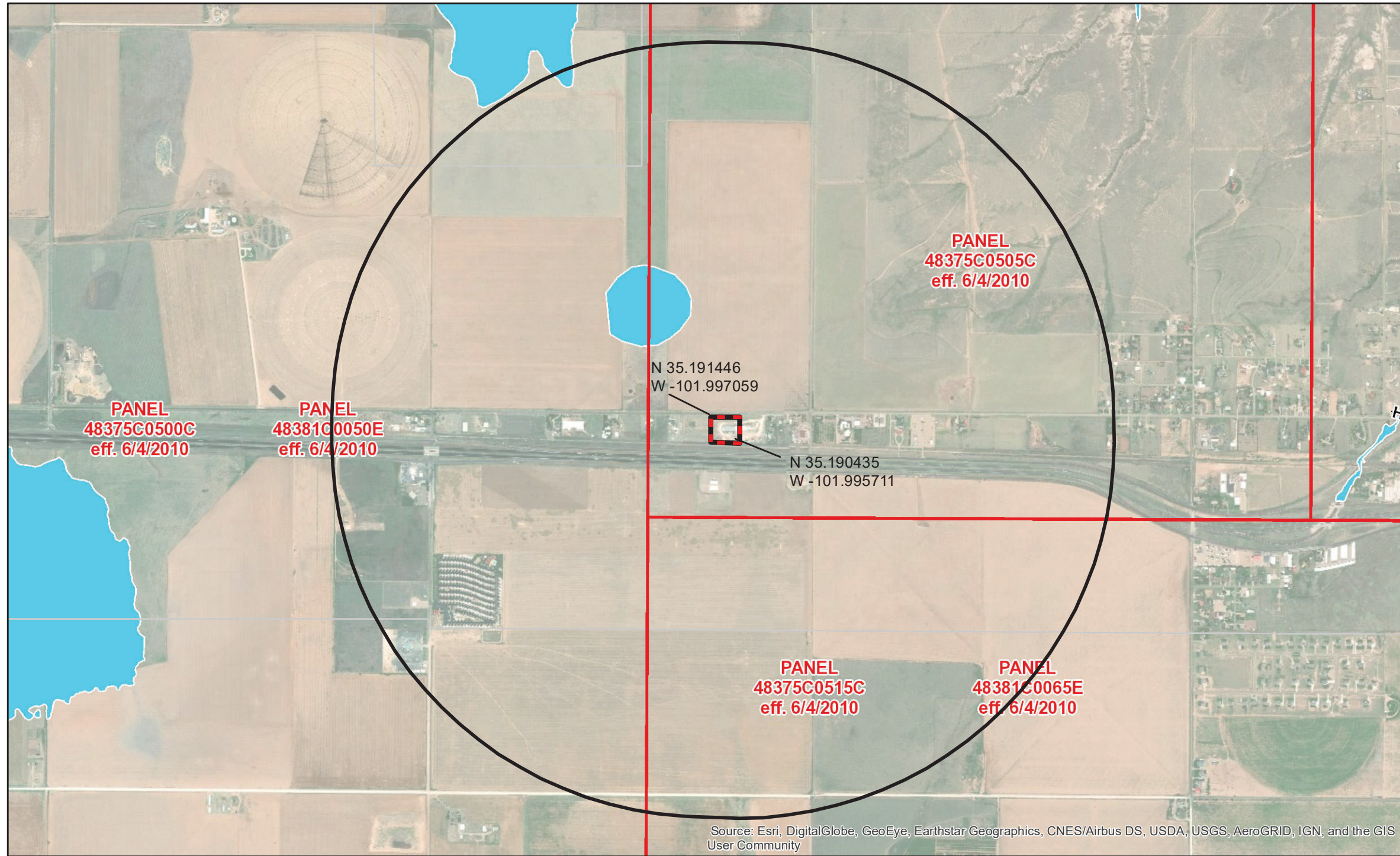
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**ATTACHMENT 13**

**FEMA MAP**

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**Legend**

- Approximate Site Boundary
- 1-Mile Radius
- FIRM Panels
- Cross-Sections
- Flood Hazard Boundaries**
- Other Boundaries
- Line Type**
- Limit Lines
- SFHA / Flood Zone Boundary
- Flood Hazard Zones**
- Zone Type**
- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- Special Floodway
- Area of Undetermined Flood Hazard
- 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard
- Area with Reduced Risk Due to Levee

- Notes:**
1. Approximate coordinates data from Google Maps Imagery, 2019.
  2. FEMA: Federal Emergency Management Agency
  3. FEMA data from ArcGIS Online (<https://hazards.fema.gov/gis/nfhl/services>)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**FOR PERMITTING PURPOSES ONLY**

GDS Associates, Inc.  
Texas Registered Engineering Firm  
F-4089

**FOR PERMITTING PURPOSES ONLY**

**GDS Associates, Inc.**  
Engineers and Consultants

919 Congress Avenue, Suite 1110  
Austin, Texas 78701  
Texas Registered Engineering Firm  
F-4039

[gdsassociates.com](http://gdsassociates.com)

DRAWN BY:	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
JDS	#1	03-10-2020	JDS	Add 1-mile radius.
APPROVED BY: WMW	#2	NA	NA	NA
DATE: 03-10-2020	#3	NA	NA	NA
SCALE: AS SHOWN				

**FEMA MAP  
ATTACHMENT 13  
DIVERSIFIED WASTE MANAGEMENT, INC  
AMARILLO, TEXAS**

<b>DIVERSIFIED WASTE MANAGEMENT</b>	<b>PROJECT NUMBER:</b> 44634-002
<b>SHEET NUMBER:</b> 1 OF 1	<b>ATTACHMENT NUMBER:</b> 13

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**ATTACHMENT 14**

**FACILITY DESIGN DEMONSTRATION FOR FLOOD  
MANAGEMENT, OR CONDITIONAL LETTER OF MAP  
AMENDMENT FROM FEMA**

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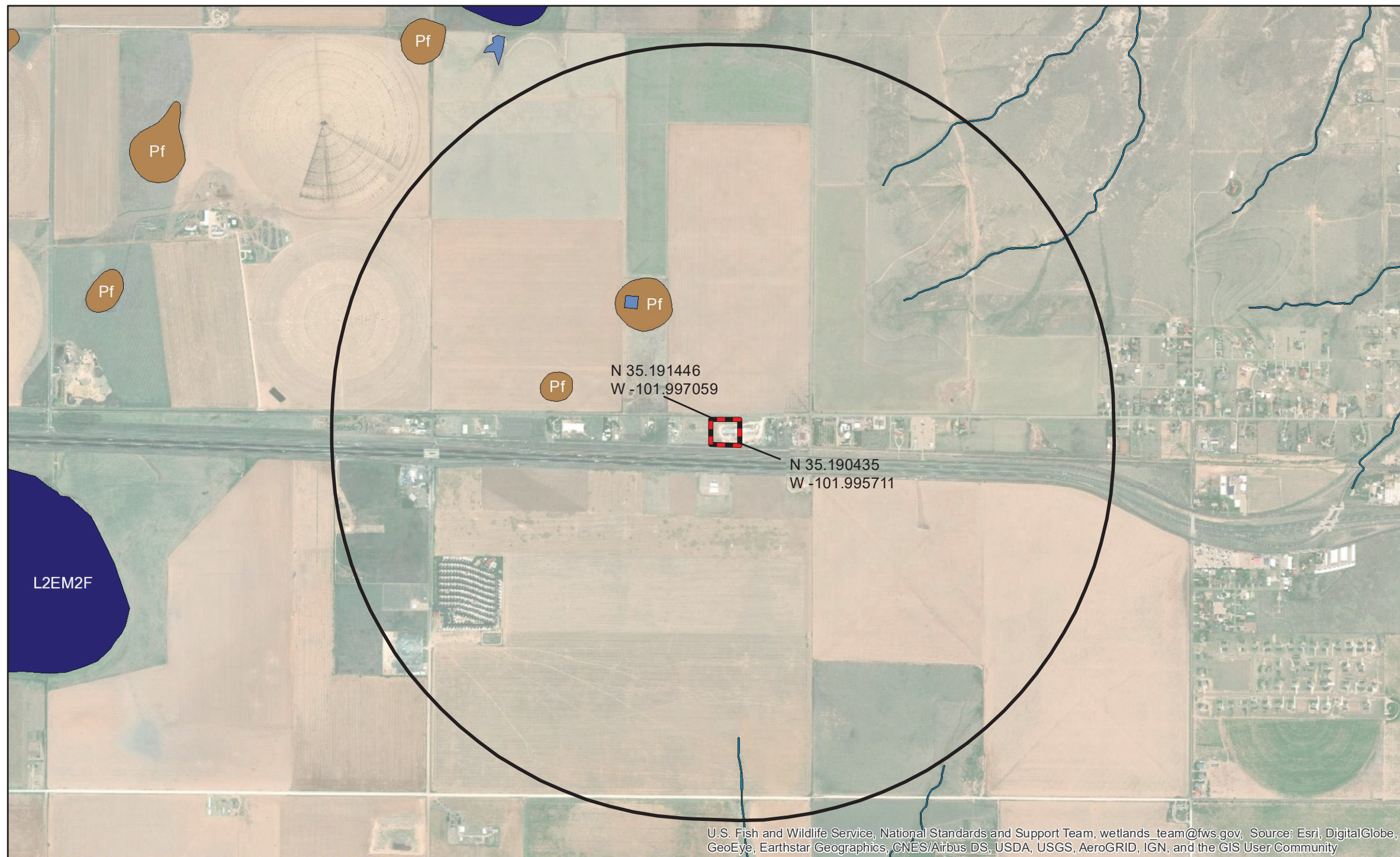
**NOT APPLICABLE**



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**ATTACHMENT 15**  
**WETLAND DOCUMENTATION**

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**Legend**

- Approximate Site Boundary
- 1-Mile Radius

**Wetlands**

**WETLANDS**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

- Notes:**
1. Approximate coordinates data from Google Maps Imagery, 2019.
  2. Wetlands data from ArcGIS Online, U.S. Fish & Wildlife Services (<https://fwspubliicservices.wim.usgs.gov/server/services>)
  3. Pf: Other - Palustrine, farmed
  4. L2EM2F: Lake - Lacustrine, littoral, emergent, semipermanently flooded



U.S. Fish and Wildlife Service, National Standards and Support Team, wetlands\_team@fws.gov, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



**FOR PERMITTING PURPOSES ONLY**

GDS Associates, Inc.  
Texas Registered Engineering Firm  
F-4089

**FOR PERMITTING PURPOSES ONLY**

**GDS Associates, Inc.**  
Engineers and Consultants

919 Congress Avenue, Suite 1110  
Austin, Texas 78701  
Texas Registered Engineering Firm  
F-4039

[gdsassociates.com](http://gdsassociates.com)

DRAWN BY:	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
JDS	#1	03/10/2020	JDS	Add 1-mile radius and notes no. 3 and 4
APPROVED BY: WMW	#2	NA	NA	NA
DATE: 03-10-2020	#3	NA	NA	NA
SCALE: AS SHOWN				

**WETLANDS MAP  
ATTACHMENT 15  
DIVERSIFIED WASTE MANAGEMENT, INC  
AMARILLO, TEXAS**

DIVERSIFIED WASTE MANAGEMENT	PROJECT NUMBER: 44634-002
SHEET NUMBER: 1 OF 1	ATTACHMENT NUMBER: 15

---

**ATTACHMENT 16**

**COUNCIL OF GOVERNMENTS REVIEW REQUEST  
COORDINATION LETTERS**

---





Wade Wheatley, P.E.  
Managing Director  
wade.wheatley@gdsassociates.com

GDS Associates, Inc.  
Engineers and Consultants

Ph: 512.494.0369  
Fax: 866.611.3791

January 6, 2020

Lori Gunn, Regional Services Program Coordinator  
Panhandle Regional Planning Commission  
415 Southwest Eight Ave.  
POB 9257  
Amarillo, Texas 79105

Re: Type V Medical Waste Treatment Facility Registration Application Coordination  
Diversified Waste Management, Inc. Amarillo, Potter County, Texas

Dear Ms. Gunn:

On behalf of our client, Diversified Waste Management, Inc., GDS Associates, Inc. would like to take this opportunity to inform you that we are preparing a registration application for the Texas Commission on Environmental Quality (TCEQ) for a Type V Registration for the operation of a medical waste processing facility. The facility will be located at 13511 Indian Road, Amarillo, Texas. Please review the Registration Application online at <https://www.gdsassociates.com/txprojects/>, at your convenience. In accordance with 30 Texas Administrative Code (TAC) §326.71(g), the owner or operator shall submit documentation that the application was submitted for review to the applicable council of governments for compliance with regional solid waste plans.

If the Panhandle Regional Planning Commission has any comments or concurrence that the facility complies with the regional solid waste plan, please send them to me in writing via mail to 919 Congress Ave, Suite 1110, Austin, Texas 78701, or at [Wade.Wheatley@GDSAssociates.com](mailto:Wade.Wheatley@GDSAssociates.com). Any comments or concurrence will be included as a supplement to the application. If the project will be considered at a meeting of the Panhandle Regional Planning Commission solid waste advisory committee, please advise as soon as possible so that arrangements can be made to attend.

Thank you for your time and assistance. If you have any questions or need any additional information, please contact the Assistant Project Manager, Jack Simmons at 512-541-3131 or via e-mail at [Jack.Simmons@GDSAssociates.com](mailto:Jack.Simmons@GDSAssociates.com) or you may contact me at 512-541-3160.

Sincerely,

Wade M. Wheatley, P.E.

Enclosure

---

**ATTACHMENT 17**  
**TCEQ CORE DATA FORM**

---



TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)		
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)		
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other	
<b>2. Customer Reference Number (if issued)</b>	<a href="#">Follow this link to search for CN or RN numbers in Central Registry**</a>	<b>3. Regulated Entity Reference Number (if issued)</b>
CN 604112805		RN

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates (mm/dd/yyyy)</b>	
<input type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Diversified Waste Management, Inc.			
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
0801521417	32046040120	90078047	
<b>11. Type of Customer:</b>	<input checked="" type="checkbox"/> Corporation	<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other	<input type="checkbox"/> Sole Proprietorship	<input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following:			
<input type="checkbox"/> Owner		<input type="checkbox"/> Operator	
<input type="checkbox"/> Occupational Licensee		<input type="checkbox"/> Responsible Party	
<input checked="" type="checkbox"/> Owner & Operator		<input type="checkbox"/> Voluntary Cleanup Applicant	
<input type="checkbox"/> Other:			
<b>15. Mailing Address:</b>	13511 Indian Hill Rd.		
	City	Amarillo	State TX
	ZIP	79124	ZIP + 4
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number</b> (if applicable)	
( 806 ) 371-0120		( ) -	

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<b>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC.)</b>	
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)	
Diversified Waste Management	



23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	13511 Indian Hill Rd.						
	City	Amarillo	State	TX	ZIP	79124	ZIP + 4
24. County	Potter						

**Enter Physical Location Description if no street address is provided.**

25. Description to Physical Location:								
26. Nearest City	Amarillo				State	TX	Nearest ZIP Code	79124
27. Latitude (N) In Decimal:	35.190972			28. Longitude (W) In Decimal:	-101.996222			
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds			
35	11	27.5	101	59	46.4			
29. Primary SIC Code (4 digits)	30. Secondary SIC Code (4 digits)	31. Primary NAICS Code (5 or 6 digits)		32. Secondary NAICS Code (5 or 6 digits)				
4953	4212	562219		562991				
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>								
Medical waste treatment, storage, and transfer								
34. Mailing Address:	13511 Indian Hill Rd.							
	City	Amarillo	State	TX	ZIP	79124	ZIP + 4	
35. E-Mail Address:								
36. Telephone Number		37. Extension or Code			38. Fax Number <i>(if applicable)</i>			
( 806 ) 371-0120					( ) -			

**39. TCEQ Programs and ID Numbers** Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input checked="" type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

**SECTION IV: Preparer Information**

40. Name:	Jack Simmons	41. Title:	Geoscientist
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 512 ) 541-3131		( ) -	jack.simmons@gdsassociates.com

**SECTION V: Authorized Signature**

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Diversified Waste Management, Inc.	Job Title:	Owner
Name (In Print):	<i>Brandon Dixon</i>	Phone:	( 806 ) 371-0120
Signature:		Date:	01/03/2020

---

**ATTACHMENT 18**

**FEE RECEIPT OR COPY OF CHECK**

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This e-mail transmission and any attachments are believed to have been sent free of any virus or other defect that might affect any computer system into which it is received and opened. It is, however, the recipient's responsibility to ensure that the e-mail transmission and any attachments are virus free, and the sender accepts no responsibility for any damage that may in any way arise from their use.

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**ATTACHMENT 19**

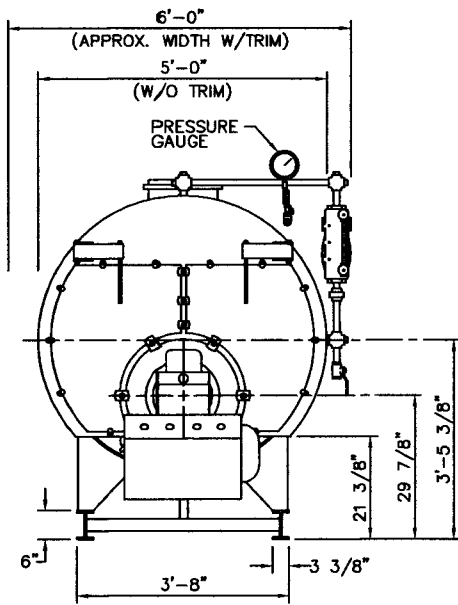
**MANUFACTURER SPECIFICATIONS FOR WASTE MANAGEMENT  
UNITS**

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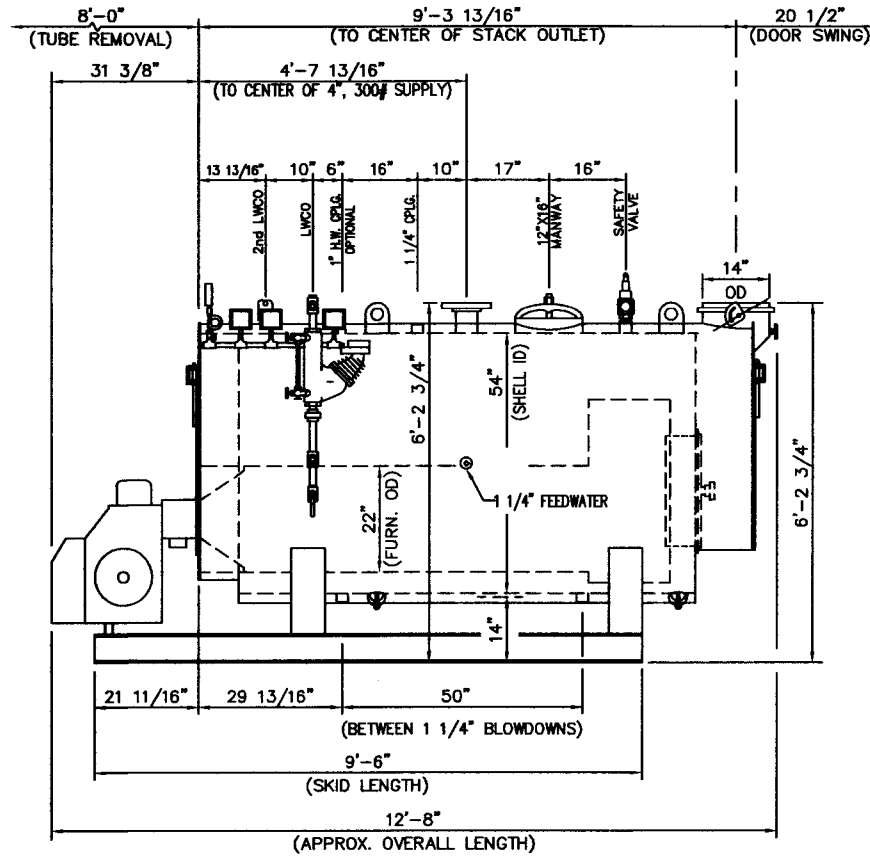
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**BOILER**

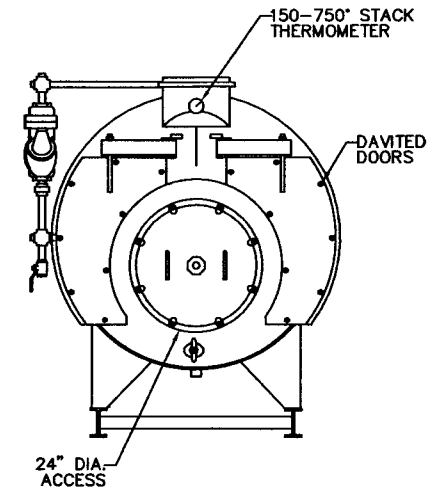
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FRONT VIEW



RIGHT SIDE VIEW



REAR VIEW

DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE.  
CONSULT FACTORY FOR CERTIFIED DRAWINGS.

**NOTE**  
OVERALL LENGTH MAY CHANGE DEPENDING ON BURNER USED

**HURST BOILER & WELDING CO., INC.**  
100 BOILERMAKER LANE, COOLIDGE, GA. 31738  
PHONE: 229-348-3545 FAX: 229-348-3874

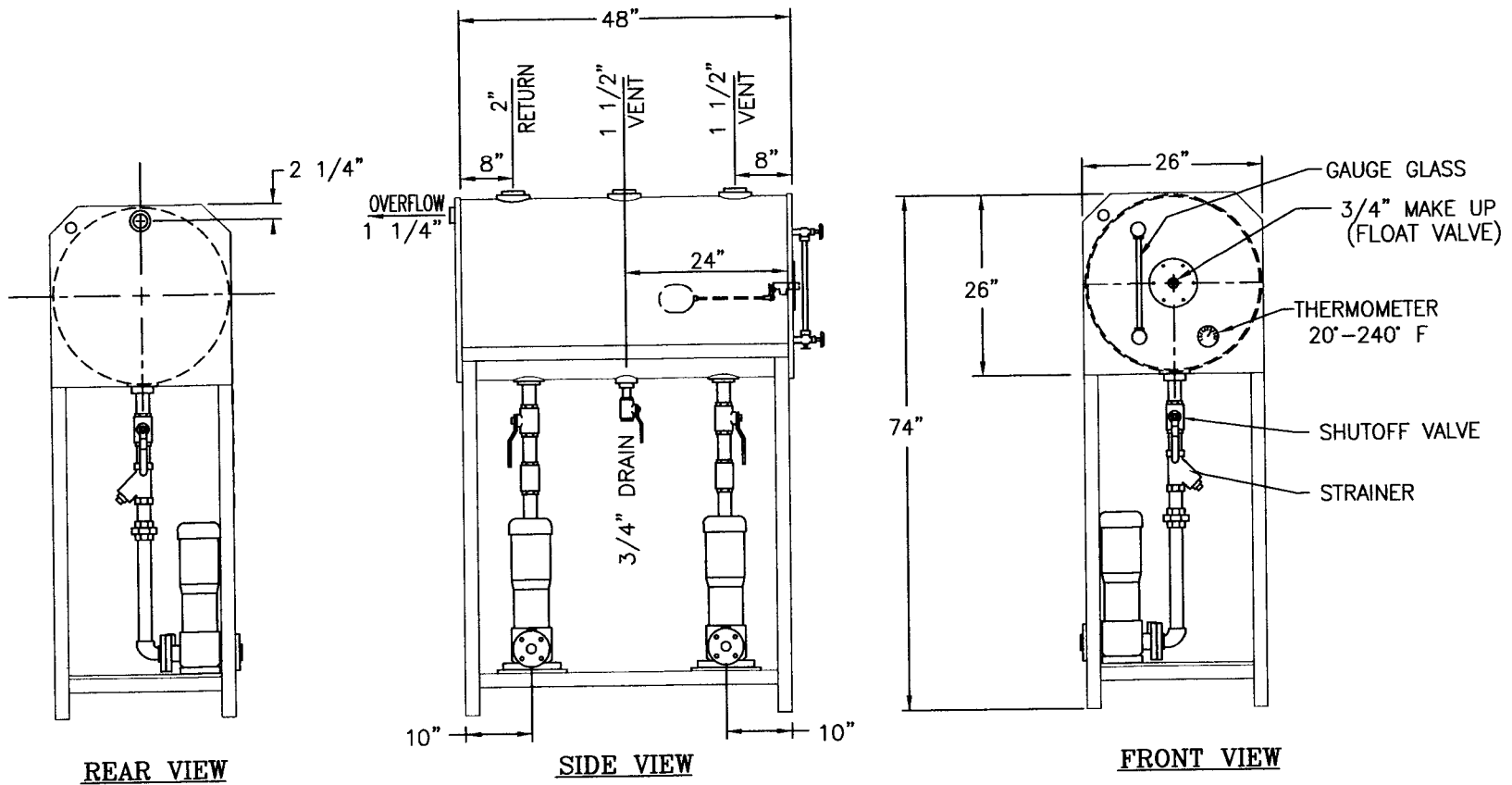
**SERIES 400, SECT. 1 STEAM, 100 HP, 150 PSI  
3 PASS WETBACK SCOTCH BOILER**

R	BY:	DATE:	CHG.	REASON FOR CHANGE

THIS DRAWING IS THE PROPERTY OF HURST BOILER AND WELDING CO., INC. AND MAY NOT BE COPIED OR REPRODUCED IN ANY WAY UNLESS AUTHORIZED IN WRITING BY HURST BOILER AND WELDING CO., INC. AND MUST BE RETURNED UPON REQUEST

DRAWING NO.:	R
S400_1S_0100_150	0





DIMENSIONS SUBJECT TO CHANGE WITHOUT NOTICE  
CONSULT FACTORY FOR CERTIFIED DRAWINGS

SHIPPING WEIGHT: 783 LBS

**HURST BOILER and WELDING CO., INC.**  
P.O. DRAWER 529, HIGHWAY 319 S., COOLIDGE, GA. 31738  
PHONE: 912-346-3545 FAX: 912-346-3874

**STANDARD DUPLEX  
150 PSI FEEDWATER SYSTEM  
100 GALLON TANK, 100 HP**

R	BY:	DATE:	CHK'D.	REASON FOR CHANGE

THIS DRAWING IS THE PROPERTY OF HURST BOILER AND WELDING CO., INC AND MAY NOT BE COPIED OR REPRODUCED IN ANY WAY UNLESS AUTHORIZED IN WRITING BY HURST BOILER AND WELDING CO., INC. AND MUST BE RETURNED UPON REQUEST

SCALE:	DWN. BY:	DATE:	CHK'D. BY:	DRAWING NO.:	R
24	DNC	1-1-99	JHO	FM-100-150	

**Series 400 Steam Boiler Sample Specifications (30-1500HP, 15-300 Psi)****1.0 Boiler Characteristics**

- 1.1 The boiler shall be Hurst Boiler & Welding Co., Inc., Series 400 100 hp designed for 150 psig. The boiler operating pressure shall be 120 psi.
- 1.2 The boiler shall have a maximum output of 3,348,000 Btu/hr, or 100 boiler horsepower when fired with oil or natural gas, 1,000 Btu/cu. ft. Electrical power available shall be 480 volt 60 hz cycle 3 phase.

**2.0 General Boiler Design**

- 2.1 The boiler shall be a three-pass wetback horizontal firetube type boiler with five (5) square feet of fireside heating surface per rated boiler horsepower. It shall be mounted on a heavy steel frame with integral forced draft burner and burner controls.
- 2.2 The boiler shall be completely preassembled, and fire tested at the factory. The unit shall be ready for immediate mounting on floor or simple foundation and ready for attachment of water, fuel, electrical, vent, and blowdown connections.
- 2.3 The boiler shall be built to comply with the following insurance and codes: UL, GE GAP, and ASME CSD-1.

**3.0 Pressure Vessel Construction**

- 3.1 Pressure Vessel shall provide for heavy metal thickness for increased boiler life and have a 0.5" thick shell, 0.75" thick tube sheet, 0.625" thick rear turn around and 12 gauge (0.105") thick tubes.
- 3.2 The pressure vessel is built in strict accordance with ASME code section I and to latest year of issue and addendas. Manufacturer's quality control department performs all tests of materials and fabrication with a licensed authorized inspector in accordance with the N.B.I.C. code. Completed pressure vessel is post weld heat-treated where required and shop hydrostatically tested to ASME code requirements and issued a national board number and an ASME P-2 data report which is furnished to the purchaser at time of shipment.
- 3.3 The boiler shall be furnished with four (4) 3" x 4" handholes in the boiler shell. One (1) 12" x 16" manhole is to be provided. Provide a plugged coupling in the front tube sheet to provide for furnace tube inspection. Two lifting lugs must be located on top of the boiler.

- 3.4 The front and rear doors shall be hinged and daviged on units 60 HP and larger. Doors are to be sealed with heat resistant gaskets and fastened using lugs and brass nuts. Design doors so front and rear tube sheets and all flues are fully accessible for inspection and cleaning when doors are open.
- 3.5 Provide a baffle in the boiler shell below the main steam outlet flange to provide for dry steam with no water carry over. Provide a baffle at the feedwater inlet to temper the water.
- 3.6 Provide the boiler for future use as a hot water boiler by including all vessel connections and provisions for future addition of hot water supply and return piping with a baffled connection, temperature controls, safety relief valves, and temperature and pressure gauges.
- 3.7 The exhaust gas vent shall be located at the front of the boiler and be capable of supporting 2,000 pounds. The boiler vent shall include a locking blade damper and a stack thermometer.
- 3.8 Provide observation ports at each end of the boiler for inspection of flame conditions. Provide a plugged test port at the rear of the furnace for testing of furnace backpressure.
- 3.9 Unit shall be provided with minimum 2" thick mineral wool insulation. The boiler shall be lagged with a 22-gauge thick carbon steel jacket. The boiler jacket shall feature a bottom side primer of polyurethane resin base coat of .2 mil. dry finish thickness and a final coat of .4 mil. dry finish thickness and a final coat of .8 mil. dry finish thickness of valspar polyurethane resin based paint. The application of the paint is to be automated roller type and is to be oven dried. The exterior finish of the boiler jacket shall have a limited warranty by the manufacturer for five (5) years from date of manufacture for chalking, fade, peeling, or blistering.
- 3.10 The entire boiler base frame and other components shall be factory painted before shipment using a hard-finish enamel coating.
- 3.11 Boilers with furnace diameter exceeding 34" must have a corrugated furnace constructed of not less than 0.355" thick steel. Furnace heat release shall not exceed \_\_\_\_\_ btu per cubic foot of furnace volume. Provide a refractory plug in rear turn around for inspection and access to the furnace.

#### **4.0 Steam Boiler Trim**

##### **4.1 Water Column**

A water column shall be located on the right-hand side of the boiler complete with gauge glass set, and water column blowdown valve. Provide a gauge glass protector.

- 4.2 **Low Water Cutoff**  
The low water cutoff shall be included and wired into the burner control circuit to prevent burner operation if the boiler water level falls below a safe operating level. Use a McDonnell & Miller 157 S.
- 4.3 **Auxiliary Low Water Cutoff**  
Auxiliary low water cutoff shall be included and wired to the burner control circuit. A manual reset device shall be used on this control. Use a McDonnell Miller 750-MT-120.
- 4.4 **Safety Valves**  
Safety valves of a type and size to comply with ASME Code requirements shall be shipped loose. Provide a drip pan elbow for each valve for installation by the installing contractor.
- 4.5 **Steam Pressure Controls**  
The steam pressure control to regulate burner operation shall be mounted near the water column. Controls shall be a high limit (manual reset), operating limit (auto reset), and firing rate control. Provide auto low fire hold aquastat with high pressure well.
- 4.6 **Boiler Valves**
- 4.6.1 Provide a ¾" stainless steel chemical feed quill with a built-in check valve, factory mounted on boiler.
- 4.6.2 Provide a 316 stainless steel water sample cooler, factory mounted on boiler.
- 4.6.3 Provide factory mounted feedwater stop and check valves.
- 4.6.4 Provide factory mounted and piped bottom blowdown assembly including two (2) quick opening and one (1) slow opening blowdown valves, all piped to a common blowdown header discharge at the rear of the boiler.
- 4.6.5 Provide a top mounted surface blowdown assembly including a factory supplied and mounted skimmer tube, and an automatic surface blowdown controller which opens and closes a motorized valve based on intermittent operator selected intervals measuring the conductivity of the boiler water.
- 4.6.6 A factory supplied main steam valve group shall include a reducing spool piece, stop-check, angle non-return valve, a free blow tapping and test valve, and an O S & Y gate valve. All shall be factory hydro tested with the boiler and included on the ASME P6 data report.

## 5.0 Burner General

5.1 The combination burner shall be of the forced draft annular port flame retention type suitable for burning natural or manufactured gas and air atomizing burning No. 2 oil. The burner shall burn the specified quantity of fuel without objectionable vibrations, noise, or pulsation with no CO in the products of combustion. The burner shall meet < 30 ppm Nox while firing on natural gas utilizing flue gas recirculation technology. The burner shall be factory installed and wired, shall bear the listing mark of Underwriters Laboratories, Inc. evidencing compliance with the requirements of the UL-796 for gas burners and UL-296 for oil burners. The entire boiler and burner shall be factory fire tested prior to shipment with a copy of the fire test being supplied to the owner.

### 5.2 Burner Design

A burner fan shall furnish all combustion air, which shall be an integral part of the burner. The burner fan and motor shall be mounted below the horizontal centerline of the boiler for ease of maintenance and inspection. The burner air controls louver shall be of the low-pressure drop, inlet type to allow visual checking of the louver settings, and ease of cleaning or adjustment. The burner shall have an air flow safety switch to prove combustion flow. The burner shall have an interrupted gas-electric ignition system with a 6,000-volt ignition transformer. An observation port shall be provided in the burner to provide observation of both the pilot and main flame.

### 5.3 Gas Pilot

The gas pilot shall be the premix type with automatic electric ignition, complete with electronic flame scanner to monitor the pilot so the primary fuel valve cannot open until pilot flame has been established. The gas pilot train is to consist of shut-off cock, pressure regulator, and automatic gas valve.

### 5.4 Gas Train

The main gas train shall be mounted on the boiler and shall include the following: A manually operated gas cock at the inlet to the train, a gas pressure reducing regulator, a motorized automatic gas valve, a second automatic gas valve, and a manually operated leak test cock, pressure regulator, and automatic gas valve.

## 6.0 Fuel Oil System

### 6.1 Oil Pump

The oil pump set shall consist of an oil pump with a capacity of twice the firing rate of the boiler, and motor mounted on a base. The oil pump assembly shall also have the following: oil pressure relief valve, suction strainer, vacuum and pressure gauge, and motor starter. The oil pump assembly shall ship loose for field installation.

## 6.2 Oil Piping

The oil burner piping shall include automatic oil safety valve, oil metering valve, fuel filter, and all necessary piping, and linkages for full modulation operation, all mounted and piped on the unit. Pressure gauge shall be provided to indicate oil pressure and air atomizing pressure. The unit shall have a low air pressure switch interlocked to prevent burner operation in the event of air pressure failure.

## 6.3 Control Panel

The factory pre-wired control panel should be mounted on the burner proper or on the side of the boiler to allow for ease of maintenance and troubleshooting. The control panel shall contain the following items: Electronic flame safeguard, control circuit transformer, motor starter, control circuit fuse, numbered terminal strips, and indicating lamps for major functions. The control panel shall include a manual-automatic selector switch and a damper motor positioning switch to permit automatic firing in accordance with load demand or manual control of the firing rate at any desired point between low fire and maximum rate. Changeover from one fuel to the other shall be accomplished by flipping a switch. No burner adjustment or linkage change shall be necessary when going from one fuel to the alternate fuel. The electronic flame safeguard shall be complete with all necessary accessories and devices to control ignition and starting and stopping of the burner, to provide pre-combustion purge and post-combustion purge, and to shut down the burner on failure of ignition, pilot, or main flame by the electronic scanner.

## 6.4 Codes and Standards

The boiler shall be inspected by an authorized inspector and be registered with the National Board of Boiler and Pressure Vessel Inspectors. The packaged boiler shall carry an Underwriters Laboratory label "B." The boiler-burner unit shall meet the requirements of U.L. (U.L. or F.M. or GE Global).

## 7.0 Efficiency Guarantee

7.1 The boiler must be guaranteed to operate at a minimum fuel-to-steam efficiency of 85 at 100% of rating when burning natural gas and n/a fuel-to-steam efficiency at 100% firing rate when burning oil.

## 8.0 Warranty

8.1 All equipment is to be guaranteed against defects in materials and/or workmanship for a period of 12 months from date of shipment.



**9.0 Execution**

**9.1 Tests**

The packaged boiler must receive factory tests to check the construction, controls, and operation of the unit. The purchaser, if desired may witness all tests.

**9.2 Start-up Service**

After boiler installation is completed; the manufacturer shall provide the services of a field representative for starting the unit and training the operator at no additional costs. A factory approved and authorized start-up report shall be submitted to the customer/user at the time of start-up.

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**AUTOCLAVE PROCESSING UNIT**

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## MC Mark-Costello Waste Sterilizers



- ✓ *Gravity OR Vacuum High Pressure Sterilizer Technology*
- ✓ *Designed for Low Maintenance and Low Operating Costs*
- ✓ *Pre-Treatment Shredding NOT Required*
- ✓ *MC Vapor Mist Proven Odor Control System*
- ✓ *Up to 3,000 lbs Capacity per Cycle Throughput*
- ✓ *Over 500 Clients Trust MC Sterilizers for Waste Sterilization*





# \*Waste Volume-System Capacities

## Standard Sterilizers

Interior Dimensions	Number of Carts	Cubic Yards	Total Pounds/kgs Approx
Model AS 23 2' diameter x 3' length	Hand Loaded	.333 cubic yards	50 pounds (22 kgs)
Model AS36 3' diameter x 6' length	Hand Loaded	1.5 cubic yards	225 pounds (102kgs)
Model AS47 4' diameter x 7' length	3 Standard Carts	3.0 cubic yards	450 pounds (204kgs)
Model AS58 5' diameter x 8' length	3 Standard Carts	3.75 cubic yards	565 pounds (256kgs)
Model AS510 5' diameter x 10' length	4 Standard Carts	5 cubic yards	750 pounds (340kgs)
Model AS513 5' diameter x 13' length	5 Standard Carts	6.25 cubic yards	938 pounds (425kgs)
Model AS515 5' diameter x 15' length	6 Standard Carts	7.5 cubic yards	1,125 pounds (510kgs)
AS515DD <u>Double Doors</u> 5' diameter x 15' length	3 High Volume Carts	7.5 cubic yards	1,125 pounds (510kgs)
Model AS520DD 5' diameter x 20' length	4 High Volume Carts	10 cubic yards	1,500 pounds (680 kgs)
Model AS525DD 5' diameter x 25' length	5 High Volume Carts	12.5 cubic yards	1,875 pounds (850 kgs)
Model AS530DD 5' diameter x 30' length	6 High Volume Carts	15 cubic yards	2,250 pounds (1,020 kgs)
Model AS620DD 6' diameter x 20' length	3 XL-High Volume Carts	12 cubic yards	1,800 pounds (816 kgs)
Model AS634DD 6' diameter x 34' length	5 XL-High Volume Carts	20 cubic yards	3,000 pounds (1,361 kgs)

Carbon or Stainless Steel Vessels-Carts Include Heat Resistant Casters

\*Waste based on 150 lbs. per yard-Carts heaped/mounded when loaded

## Mark-Costello Standard Features....

Exclusive Wedge-Lock Door Design

Front Mounted Sump Drain

Quadruple Door Lock Safety Mechanism

Silicon Door Gasket

U.L. Labeled Digital Recorder Controller

Stainless Steel Basket Strainer

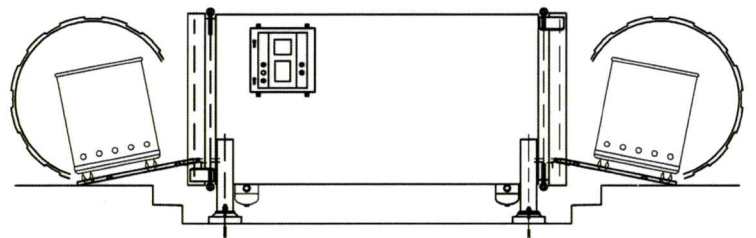
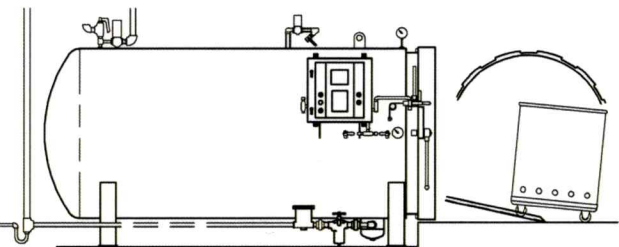
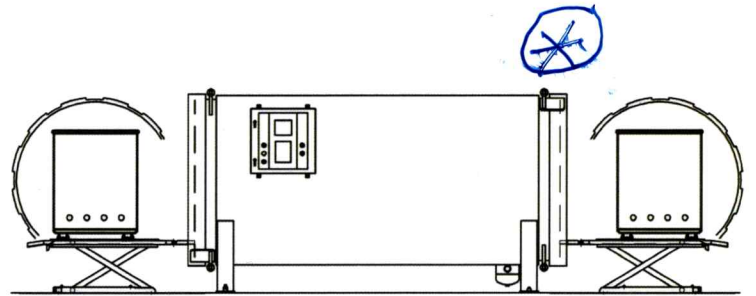
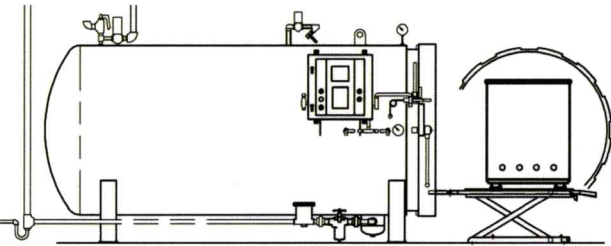
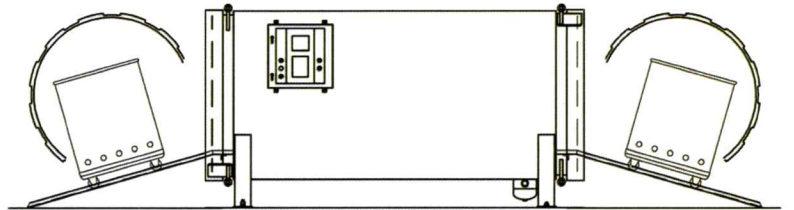
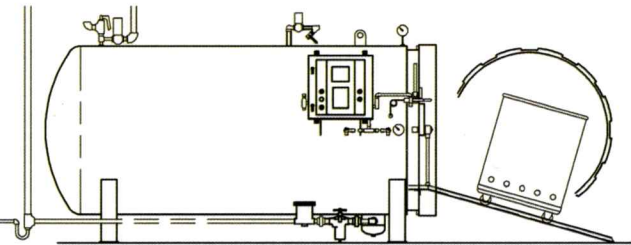
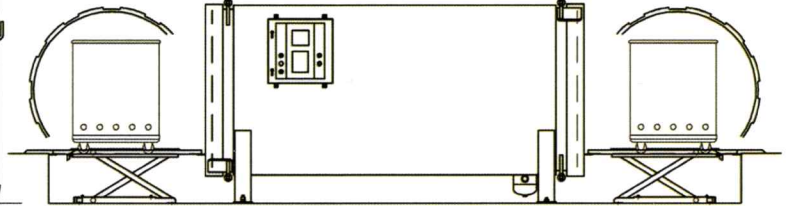
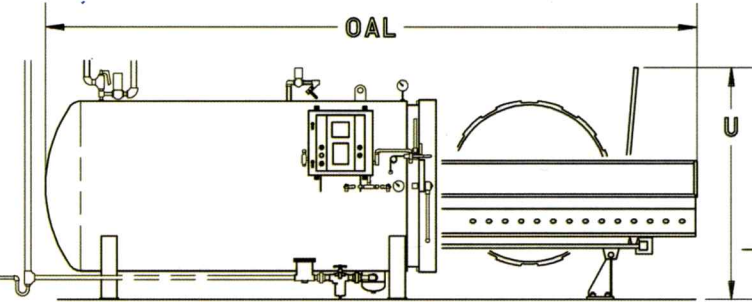
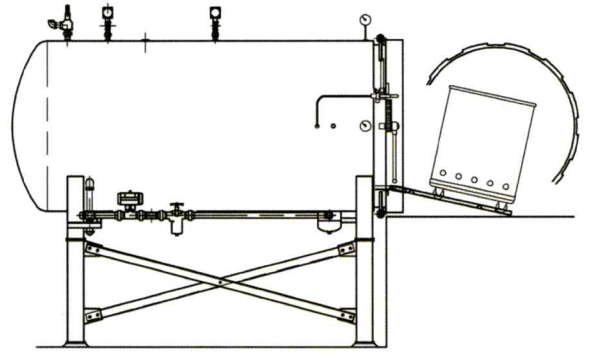
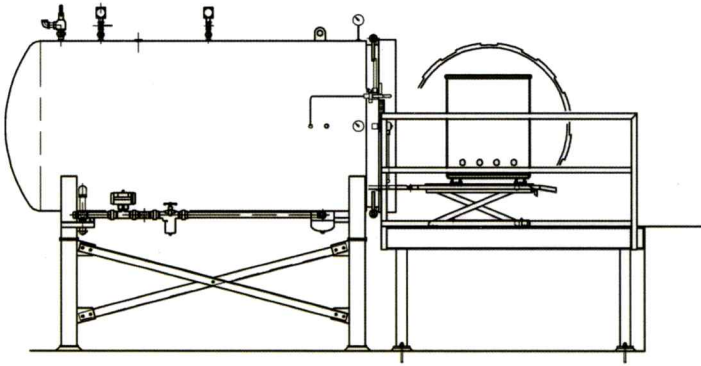
MC-Condensate Assembly

Fully Insulated

•SAFE •RELIABLE •ECONOMICAL •DURABLE

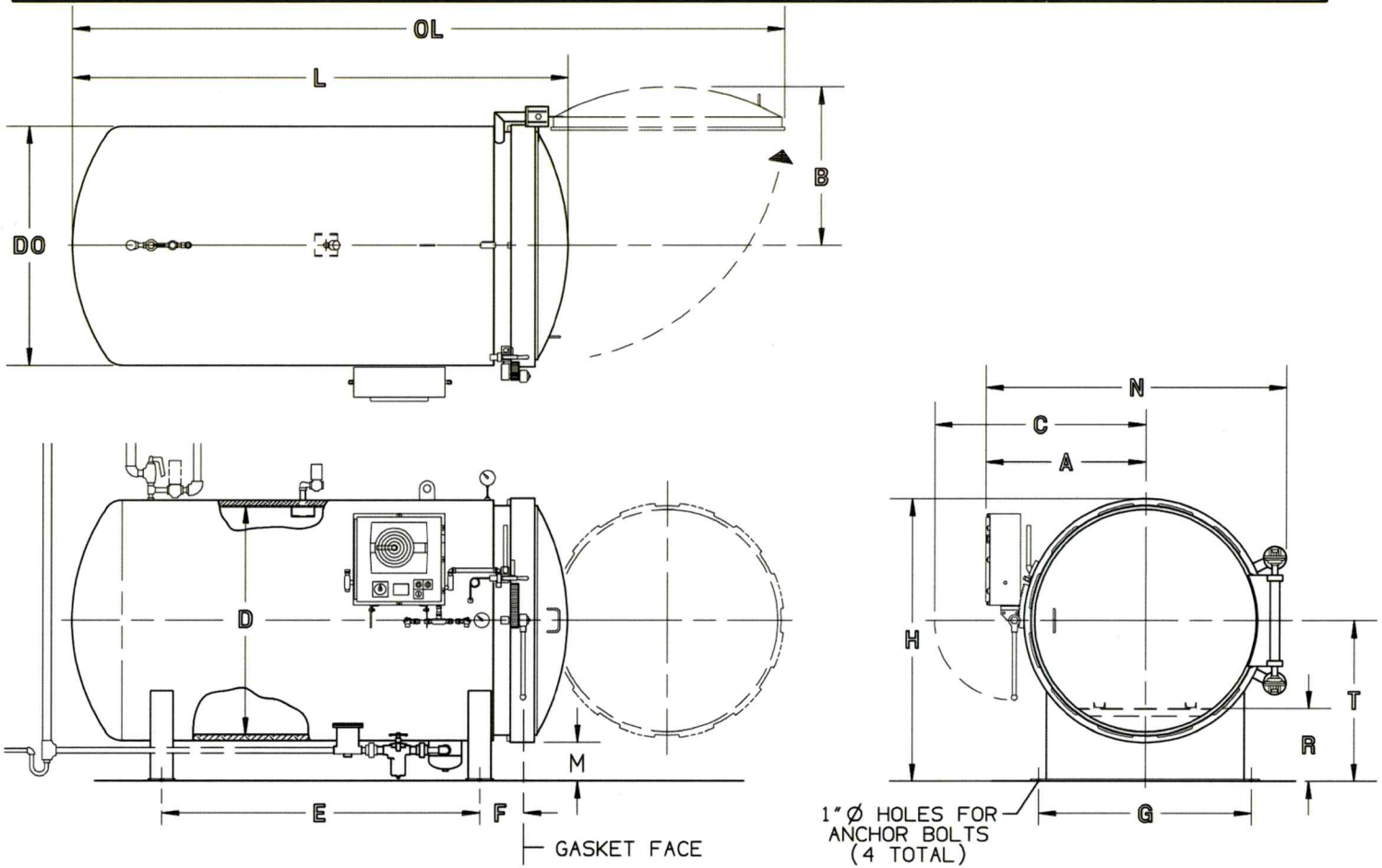


# TYPICAL INSTALLATION ARRANGEMENTS



# STANDARD MODEL DIMENSIONS

DIM (IN)	MODEL NUMBER						
	AS-46	AS-48	AS-58	AS-510	AS-512	AS-513	AS-515
A	36	36	42	42	42	42	42
B	36	36	43	43	43	43	43
C	49	49	55	55	55	55	55
D	48	48	60	60	60	60	60
E	59 1/2	83 1/2	83 1/2	107 1/2	131 1/2	143 1/2	167 1/2
F	10 5/8	10 5/8	11 1/2	11 1/2	11 1/2	11 1/2	11 1/2
G	45	45	56	56	56	56	56
H	62	62	75	75	75	75	75
L	102	126	131	155	179	191	215
M	10	10	11	11	11	11	11
N	66	66	78	78	78	78	78
R	17	17	20	20	20	20	20
T	36	36	43	43	43	43	43
U	72	72	87	87	87	87	87
DO	51	51	63	63	63	63	63
OL	148	172	187	211	235	247	271
OAL	172	202	218	250	262	-	-



STANDARD MODEL DIMENSIONS



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**TUNNEL CONTAINER WASHER**

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1922 W. Harry Ct.  
Wichita, KS 67213  
[www.areindustries.com](http://www.areindustries.com)



Phone: 316-943-5000  
Fax: 316-943-7518

Phone: 316-773-5400  
[www.esidirect.com](http://www.esidirect.com)



## Nord Sorenson

### Standard Flow Thru Washer

<b>Dimensions:</b>	31' L x 7' W x 7' H Belt load height 37"
<b>Wash and Rinse Area:</b>	36" W x 48" H
<b>Vestibules:</b>	2' 6" Entry - 8' Wash - 3' Cell - 5' Rinse - 2' 6" Exit
<b>Conveyor Belt:</b>	Heavy duty 36" W x 1" x 1" openings 100lbs per foot weight capacity
<b>Conveyor Drive:</b>	Variable gear reduction 1-3/4" shafts, 0-10' per minute
<b>Pumps:</b>	2 ea. Vertical 15hp. 220v 3 phase 1 ea. Vertical 5hp 220v 3 phase rinse pump
<b>Pump Capacity:</b>	150gpm / 5hp 90gpm
<b>Spray Manifolds:</b>	4 - Top / 7 - Sides / 4 - Bottoms 2" Plumbing throughout
<b>Spray Nozzles:</b>	90 Stationary brass nozzles / 45-60 psi 30 Stationary brass nozzles 35-45 psi

"Good service is remembered long after the price is forgotten"

<b>Spray Containment:</b>	7 – Neoprene baffle curtains
<b>Solution Heating:</b>	Pic Heater Steam Pressure must not exceed 125 psi or a regulator must be installed by customer
<b>Electrical:</b>	100-amp service required Safety disconnect Digital temperature gauge & control Emergency stops / entry and exit Safety switch on inspection door Automatic water fill Low water shut off Motors are double protected from overloads
<b>Cabinet Construction:</b>	7ga Steel insulated 1 ea. Cabinet inspection door
<b>Tank Construction:</b>	500 gallon reservoir (insulated) 350 gallon rinse reservoir (insulated) 7ga Steel Sloped bottom for sludge removal
<b>Ecology Package:</b>	2 ea. Manual sludge drag out chutes
<b>Options:</b>	Inline filter canister for wash pump 10' Extension in front UHMW belting strips Built in Steam exhaust 3 ea. guide rails 6 ft extension front and rear
<b>Shipping Weight:</b>	6,121 lbs. F.O.B. Wichita, KS 67213

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**WASTE SHREDDER**

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*Vecoplan*<sup>®</sup>



NEW GENERATION SHREDDERS

VAZ 1300 - 1600

*Vecoplan*<sup>®</sup>

# Vecoplan New Generation VAZ Shredders



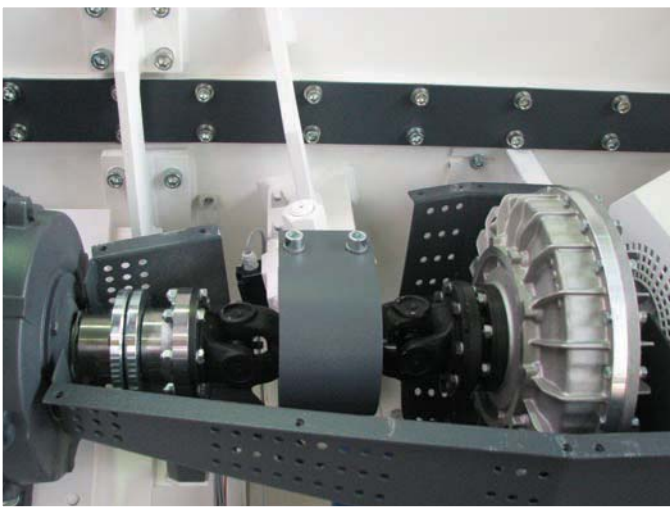
## The New Generation VAZ

Vecoplan's tradition of unrivaled quality, service and innovation continues with the latest in our line of low speed, high torque single shaft rotary shredders - the "New Generation" VAZ models.

Vecoplan's New Generation shredders incorporate a wide range of innovations that improve performance, increase durability and decrease maintenance time. These features and options include:

- Cardan Shaft Drives
- Double Sidewalls
- Reversible Counter Knives
- Rotatable Screens
- Optional Hydraulic Swing-Up Screen Carriages
- Optimal Externally Adjustable Counter Knives.

## Innovative Features - Standard



### Cardan Shaft Direct Drive

The unique and innovative cardan shaft drive replaces the traditional belt drive system. This direct drive system eliminates drive belts, lowers maintenance costs and decreases overall machine and machine base widths, provides vast improvements in efficiency, operation and maintenance:

- Lower maintenance costs and no tensioning of the "V-Belt"
- No risk of alignment failure
- No wear on the belt drive, eliminating the risk and cause of many fires
- Machine width is reduced giving the same capacity machine with a smaller footprint.
- Maintenance and clean-up around the base of the machine is simpler



## Double Side Walls

The double side wall design significantly reduces wear and abrasion on the machine by putting a gap between the end of the rotor and the machine side wall. The gap is sized to prevent material from getting stuck in between the rotor and the machine housing while also allowing any material that does get in there to easily fall-out or be removed during clean-out.

- Higher operational reliability and lower wear costs.
- Screwed wear rings at the rotor and in the side wall simplifies their replacement.
- No smearing of material between the two surfaces reduces risk of fire.
- No thermal transfer between the rotor and the bearings.
- Considerably easier and quicker clean-out.



## Reversible Bed Knife

Reversible counter knives located in the bed of the cutting chamber deliver twice the life while cutting replacement costs in half. No need to replace bedknives when they begin to wear - simply flip them to expose a completely new cutting surface.



## VECOPLAN'S "U" ROTOR

Developed and Patented by Vecoplan  
The industry's most successful cutting rotor design.



Heavy shelf over ram cavity to protect hydraulic cylinders from impact.

Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

Hardox™ "Process ram" provides precision feed of material to cutting rotor. Ram quickly adjusts to different load variables to maximize processing efficiency.

★ Hinged cover provides protection to ram drive cylinders and allows easy access for routine maintenance.

Heavy side walls, braces and reinforcements  
Robotically welded for stress-free construction.

The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance.

Rotors are available in several diameters dependent on throughput requirements.

Large infeed hopper for true Dump-And-Run operation.

Sizing screens from 3/8" to 6" add economical production of consistent sized particles in one pass.

★ Hinged clean-out access doors with safety switches to access screen and cutting rotor for routine maintenance.

Oversized, shaft-mounted reduction gearbox rated with extreme-duty service and safety factors.

Optional hydraulic assisted screen carriage for quick and easy screen changes and simplified maintenance.

★ Quick change oversized ram guide rails are removable from the exterior of the machine.

## AVAILABLE FILM / FIBER ROTOR

For Shredding Of Most Flexible, High-Tenacity Materials That Tend To "Self-Feed"



• **SURE CUT™** (patented) cutting system with built-in 2-stage auxiliary reduction

• Special reinforced, close tolerance screen

• Special "wedge" adjustable counter knife

High quality, premium efficiency drive motors.

★ Denotes A Vecoplan Exclusive

Direct drive provides more torque, a smaller footprint and less maintenance than belt-drive systems.

★ Torque arm with disc springs to "shock absorb" gearbox. Equipped with a "shut down" switch to limit damage from tramp metal.

### OPTIONS:

- Quick Disconnect & Quick Clean Screens
- Multiple Rotor Configurations
- Multiple Cutter Insert Sizes

Double sidewalls prevent bearing contamination and sidewall wear.

Flanged discharge to accommodate an assortment of pneumatic and mechanical conveyance systems.

Anvil has a replaceable counter knife plate with close tolerance profile. The anvil stabilizes and anchors the grinding process.

Reversible and adjustable counter knives deliver twice the operating life.

Optional externally adjustable counter knives to easily maintain tolerances.

High quality, double row, self-aligning spherical pendulum roller bearings mounted outboard for ease of maintenance and prevention of contamination.



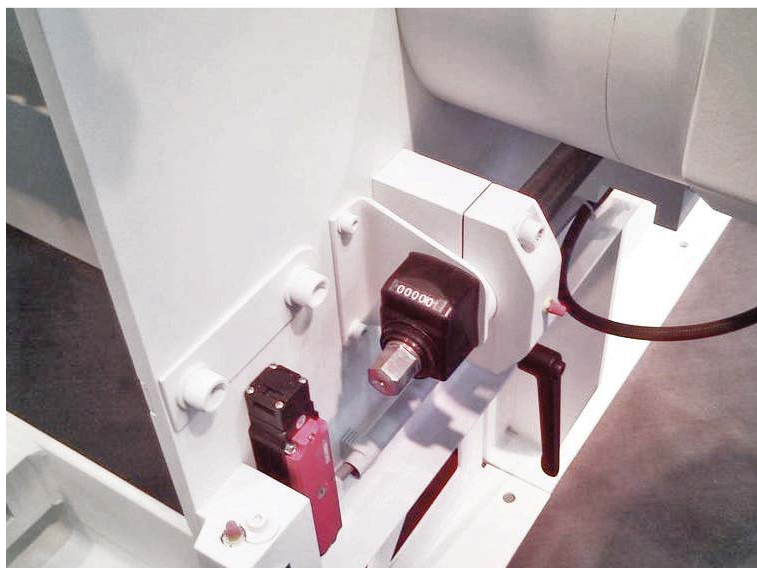
# Innovative Options



## Swing-Up Screens

Hydraulic swing-up screen carriages provide quick and easy access to rotor for cutter replacements, tramp metal removal, and other routine maintenance. Rotatable screens can be turned 180° increasing wear life by a factor of 1.5.

- Simple route to the heart of the machine
- Quick access to replace cutters
- Fast screen changes



## Externally Adjustable Bed Knife

Externally adjustable counter knives allow you to maintain optimal cutting tolerances quickly and easily. This is especially beneficial when shredding thin materials.

- Increased capacity
- Reduced wear costs
- Safer operation when processing thin material



***Vecoplan***<sup>®</sup>

P.O. Box 7224 • High Point, NC 27264 • Phone: (336) 861-6070 • Fax: (336) 861-4329

[vecoplanllc.com](http://vecoplanllc.com)



January 3, 2020

Shane Ward  
Diversified Waste Management Inc.  
13511 Indian Hill Road Amarillo TX, 79124  
806-433-5550  
fsward@shaneward.com

**Order Confirmation 20-0003**  
Proposal # MD1912164 Continued

Nord:

In accordance with your Purchase Order Number \_\_\_\_\_ and based on the information discussed, Vecoplan, LLC is pleased to confirm your order of the following equipment and services:

**Application Description:** Provide a factory refurbished Vecoplan shredder to process up to 2,400 pounds per hour of assorted and treated waste (including sharps and sharps containers) products from a customer-supplied autoclave. A screen size of 2" is required. Any large tramp metals will cause shredder stops and possible damage.

## Vecoplan Shredder VAZ 1300-M-XL

### **Infeed Hopper opening Machine Cutting Area Rotor Size**

### **Rotor Bearings Sidewall Configuration Infeed System**

### **Material Containment Rotor Rotor Cutters Stationary Cutters Drive System Standard Rotor Drive**

### **Ram Drive Motor HP Voltage Safety Consideration**

### **XL-Series Package**

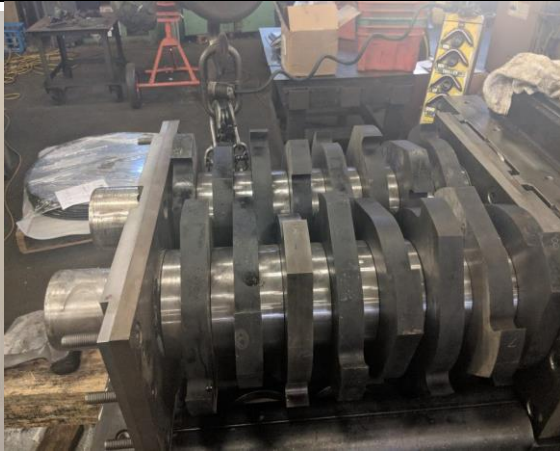
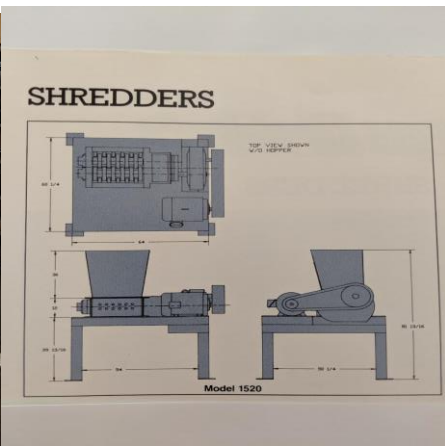
### **Machine Status**

- Up to 86" x 80", flared as required by customer
- 52" wide x 58" long with abrasion resistant top plate
- **20" diameter, 52" long** with full-load startup capability and rotating end discs to minimize material contamination and reduce heat generation
- Double spherical, tapered roller bearings in **solid steel housings** (NOT cast)
- **Double sidewall** for increased resistance to bearing contamination
- PLC controlled 2 speed & dual pressure hydraulic ram, external ram guides for bridge-free interior and simplified maintenance
- **External guiderails** and **spring-loaded ram wipers**
- High production & high torque setting, self-cooling profile
- 90, D-2 compound, 4-way indexable, fully supported
- 5-sections, **reversible** and individually adjustable
- **Driveshaft power transfer**
- 100 HP with fluid clutch connection
- Automatic shutoff when the machine runs empty
- 10 HP with **VFD speed control**
- 460 volts, 3 phase, 60 hertz
- This machine is fitted with Vecoplan's **exclusive rotating rotor end plates and double-walled cutting chamber**. This feature prevents material from rubbing against the inner sidewalls and creating excessive friction which can result in a fire hazard or sidewall wear.
- This unit has the Vecoplan XL-Series machine frame package. This machine includes an oversized 20" diameter cutting rotor, easy-access screen doors, thicker sidewalls, heavier reinforcing in the floor, ram and gussets and larger gearbox and hydraulics.
- Stock # V4636 was manufactured in 2017 as standard, non-medical waste unit. Prior to delivery, it will be fully refurbished, retooled, painted and tested. Vecoplan's standard Medical Waste package is not included.



MDU Tech services, LLC - Shredder

System / Unit	Design / style	Type / Model	Component / parameters	Specification
Shredder	MDU Tech Services	20 X 20 Medical waste	HP Rating Reversible Knife Thickness Punched screen Belts Electrical Power Req.	20 Hp Yes 1.17 2.2 -4.0 In round holes ,zero clearance 4 dodge 5Vx850 belts 480 VAC / 60Hz / 3 phase



---

**WASTE COMPACTOR**

---

# Clean-Pak™ Series Self-Contained Compactor



## Ideal for food waste recycling

### Clean-Pak™ Compactor

- Ideal for food recycling and medical waste applications
- Leading 5 year structural warranty
- 2 year parts warranty
- 1 year labor warranty

### Food Recycling

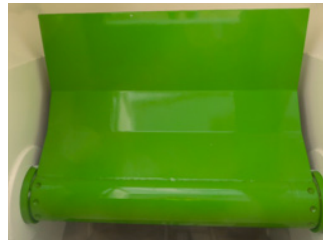
- Clean and safe when servicing
- Shielded hydraulic cylinders and hoses
- Eliminates cleaning behind the ram
- Lasts longer

### Medical Waste

- No contact with Blood Borne Pathogens (BBP)
- Prevents needle sticks



Easily accessible shielded hydraulic cylinders and hoses



Pivoting ram eliminates build up behind ram and is ideal for food recycling



Clean out port and internal hydraulic spill reservoir

### Advantages

- Safer for personnel when performing maintenance
- Never clean behind the ram again
- Hydraulic cylinders and hoses last longer

# Clean-Pak™ Compactor Specifications

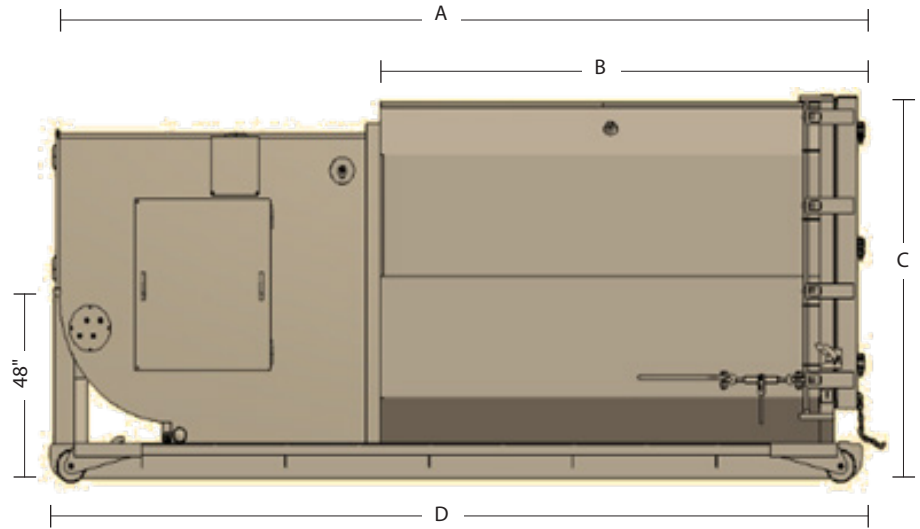
## FEATURES

### STANDARD

- Guardian Control System
- Automatic Maintenance Scheduler (AMS)
- NEMA 4 enclosure
- Controls in panel face
- 5-year structural warranty
- 38-second cycle time
- Full container light
- Low temperature oil
- Multi-cycle timer
- Operational and service manual
- Primed and painted in several colors

### OPTIONS

- Advance warning light
- Pressure gauge - color coded
- Controls on remote pendant in lieu of mounting in panel face
- Guide rails with stops
- Oil heater
- Photo electric eye
- Odor control system
- Container lifter



Models	CP model (cu. yds.)	Overall length (A) (in.)	Container length (B) (in.)	Overall height (C) (in.)	Floor length (D) (in.)*	Width (in.)	Weight (lbs.)
	20	208	110	100	207	102	8,550
	25	238	140		237		8,900

## SPECIFICATIONS

### Charge Box

- Wastequip rating - 1.5 cubic yards
- Wastec rating - 1.0 cubic yards
- Clear top opening - 36" Length x 39" Width

### Ram

- 3/16" Domex steel with engineered structural reinforcements

### Compactor Head

- Floor - 3/16" Domex steel 6" x 2" x 1/4" tube supports
- Sides - 3/16" steel plates with formed steel supports
- Sump - 12" height
- Side access panels, 12 ga, removable
- Pivotal wear UHMW collars

### Electrical

- Electric motor - 10 hp TEFC (Totally Enclosed Fan Cooled)
- Voltage - 208/230/460, 3 phase, 60 HZ (optional 575V)
- Power box - NEMA 4 rated, UL listed
- Automated cycle operation - push start button - ram extends, retracts and stops automatically

### Hydraulic Specifications

- Pump - 9.4 gpm
- Ram penetration - 3"
- Cycle time - 38 seconds
- Hydraulic cylinder - (2), cylinder bore - 3.5"
- Cylinder rod - 2.0"
- Hydraulic oil tank - 25 gallon reservoir
- Power unit location - remote

### Hydraulic Performance

#### Ram face pressure

- Normal - 27,500 lbs
- Maximum - 30,400 lbs

#### Ram psi Face Pressure

- Normal - 21.75 psi
- Maximum - 24.11 psi

#### Operating pressure

- Normal - 1,850 psi
- Maximum - 2,050 psi

### Container

- 7 gauge floor with 3" channel crossmember
- 6" x 2" x 1/4" tube rails, 36-1/2" I.D. between rails
- Solid steel bullnose and hook at both ends
- 4" diameter rollers, 4-1/2" long
- Length, Width and Height - see chart above

## Standard Color Choices\*



Colors shown are as accurate as printing allows. The actual color is subject to variation from the printed color sample. Color choices vary by plant location. Please contact your local sales representative for available colors. Custom colors are available upon request and are subject to an additional charge.



Tel: 877.468.9278 | sales@wastequip.com | www.wastequip.com

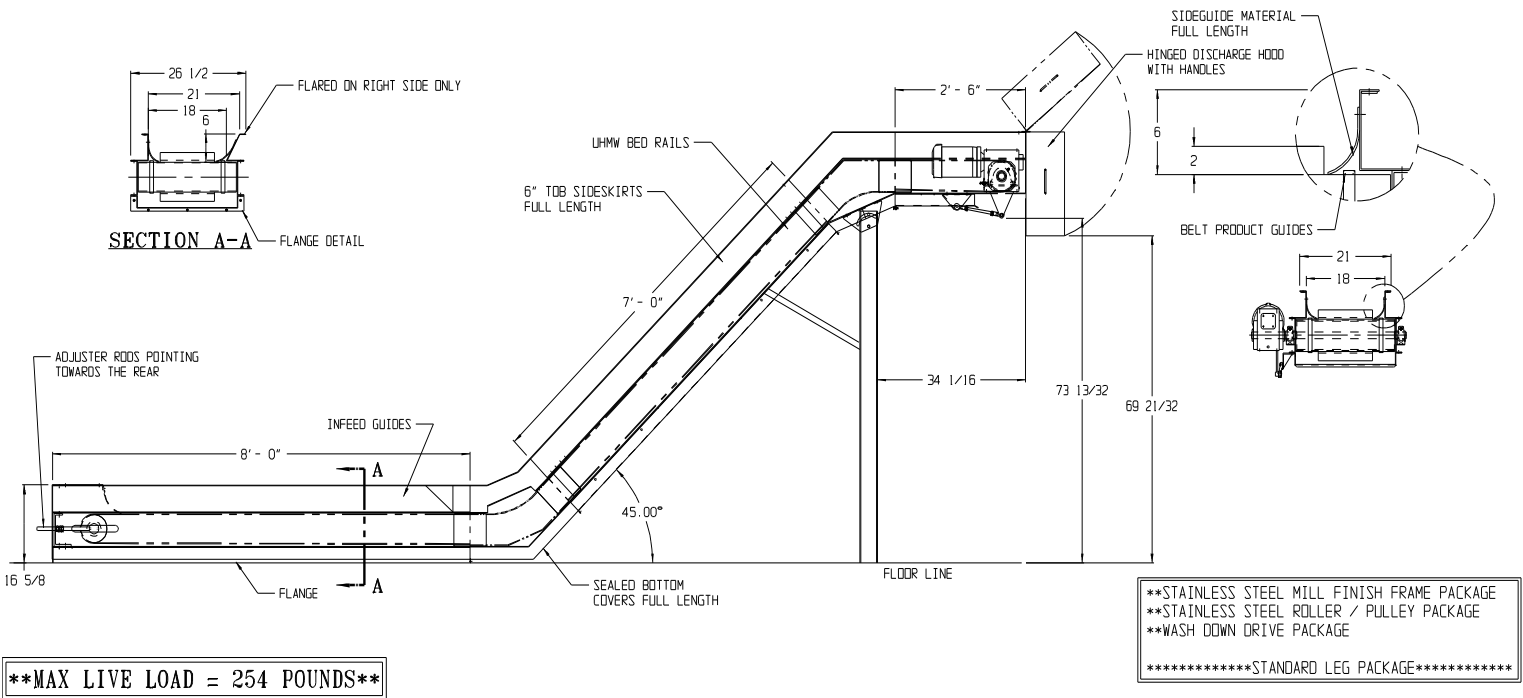
Wastequip is the leading North American manufacturer of waste and recycling equipment for collecting, processing and transporting recyclables and solid or liquid waste. April 2017 © Wastequip, all rights reserved. Specifications subject to improvement without notice. Equipment displayed should be operated by properly trained personnel. Operators should become familiar with OSHA, ANSI and any other applicable standards or laws for using this equipment. Improper use, misuse, or lack of maintenance could cause injury to people and/or property. Photos used in the literature are illustrative only. We assume no liability or responsibility for proper training/operation of equipment not manufactured by Wastequip. We reserve the right to make changes at any time without notice. Information contained within this literature is intended to be the most accurate available at time of printing.

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**WASTE CONVEYOR**

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## ENDURA-VEYOR MODEL 600-STYLE D CONVEYOR SPECIFICATIONS:



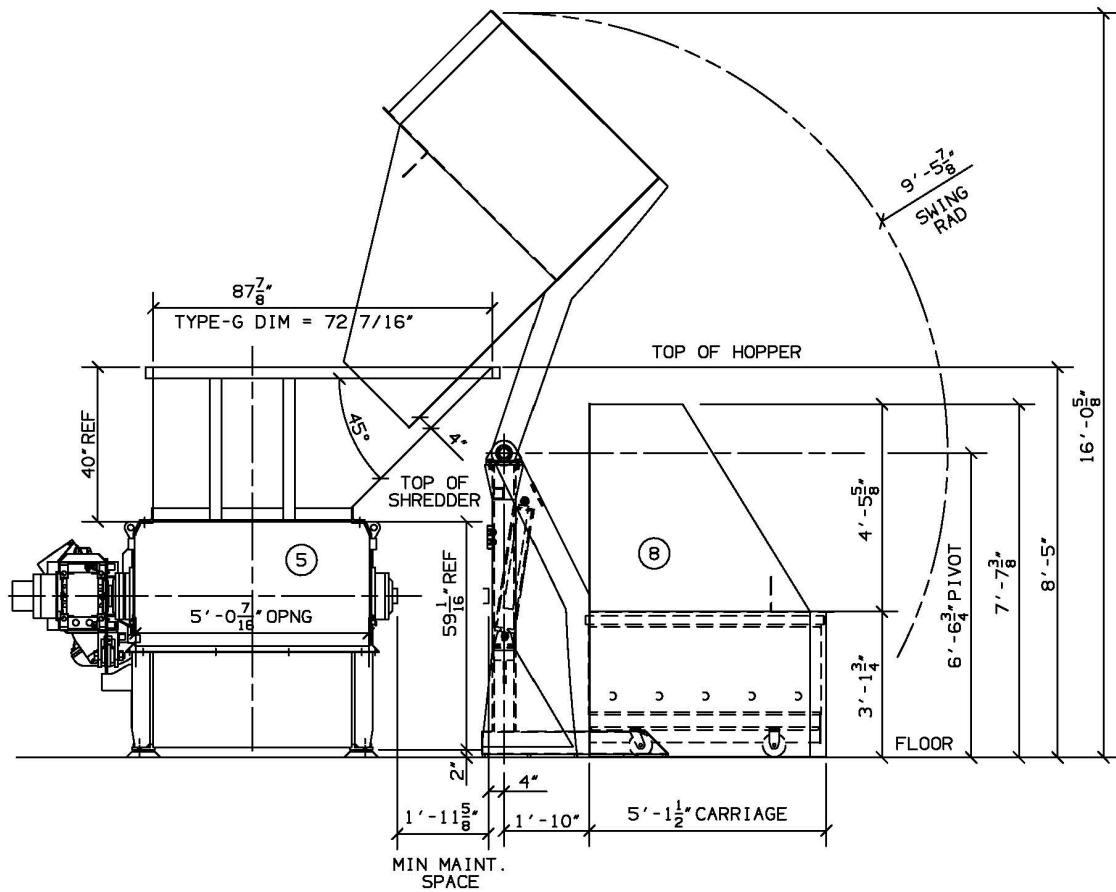
- \*SLIDER BED BELT CONVEYOR (MODEL 600, STYLE D)
- \*FRAME CONSTRUCTION: 10 GAUGE BOLT-TOGETHER
- \*PULLEY DIAMETER: 6 IN. DIAMETER
- \*LOWER HORIZONTAL: 8.0 FT. LG.
- \*INCLINE: 7 FT. LG.
- \*UPPER HORIZONTAL: 2.5 FT. LG.
- \*45 DEGREE CURVE
- \*EFFECTIVE WIDTH: 18 IN.
- \*BELT: BLACK RMV 150 COS
- \*CLEATS: HD 2-IN RECYCLER CLEATS @ 12 IN. CENTERS
- \*SIDE SKIRTS: 6 IN. HIGH TOB
- \*BELT SIDEGUIDES: YES
- \*BELT RETURNS: BOTTOM COVERS - SEALED
- \*PAINT COLOR: EVI SAFETY BLUE (LEGS ONLY)
- \*BELT SPEED: 120 FPM, FIXED SPEED
- \*DRIVE MOUNT/SIDE: SHAFT MOUNT, LEFT HAND SIDE
- \*DRIVE: 2 HP, 480V/3PH 60 HTRZ
- \*LIVE LOAD CAPACITY: 261 LBS. @ FIXED SPEED
- \*INFEED HEIGHT: 4 IN. (BOF)
- \*DISCHARGE HEIGHT: 85 IN. (BOF)
- \*CONVEYOR SUPPORT PROVIDED
- \*ADDITIONAL FEATURES:
  - UHMW BED RAILS
  - BELT PRODUCT GUIDES
  - GRINDER STYLE INFEED HOPPER W/ COVER (NO FLAIR)
  - HINGED DISCHARGE HOOD (SIM TO 76187)
  - STAINLESS STEEL ROLLER AND PULLEY PACKAGE
  - STAINLESS STEEL FRAME PACKAGE
  - WASH DOWN DRIVE
  - TAKE UP ADJ. FACING REAR OF CONVEYOR



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**AUTOCLAVE CART TIPPER**

---



STRUCTURAL

Tipper Legs	4" x 6" x 1/4" structural tubing
Tipper Arms	2 - reinforced 3/4" plates
Anchoring Plates	3/4" plate
Pivot Shaft	3" cold rolled rod

PERFORMANCE

Cycle Time	35 sec.
Motor HP	10 HP
Hydraulic Pump	10 GPM
Hydraulic Cylinders	Two (2) 4.5" Bore w/ 2.5" Rods
Cylinder Stroke	25" (varies per application)
Cylinder Cushions	Furnished, at both rod & piston ends
Pressure	1350 PSI
Load Weight Capacity	4500 lbs.
Controls	Manual-Valve Stem

---

**WASTEWATER CONTAINER**

---

# DOUBLE WALL TANK SYSTEMS



## THE ENGINEERED DIFFERENCE IN TANKS

P: 402.467.5221  
F: 402.465.1220  
[www.snydernet.com](http://www.snydernet.com)  
[sales@snydernet.com](mailto:sales@snydernet.com)



# DOUBLE WALL TANK SYSTEMS

## CAPTOR CONTAINMENT SYSTEM

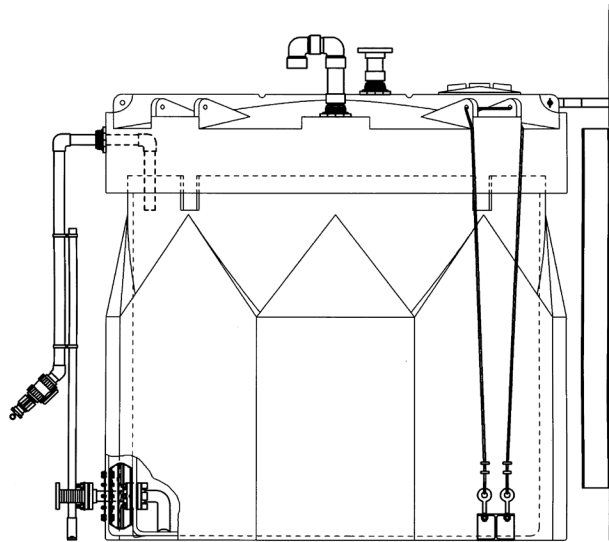
protects bulk storage profits without jeopardizing safety or the environment

**Flanged Outlets** and other fitting designs can be securely fastened and sealed to many of the large flat areas located on the top section of the tank (optional).

**Vent Assemblies** are available in a variety of sizes to relieve vacuum and pressure.

**Fill and/or Draw Pipe Assemblies** can be installed to facilitate different material loading or un-loading requirements (optional).

**U.F.O. (Unified Fitting Outlet)** is uniquely designed to mechanically seal fitting outlet through both the inner and outer tank walls. Material unloading is easier and more cost effective than pumping contents from the top of the tank (optional).



Patent No. 6,474,496

**Bolted and Threaded Manways** are available in sizes up to 24". Standard size is an 18" threaded manway.

**OSHA Compliant Ladders** are available with and without cages in fiberglass and steel construction.

**Molded in Tie-Down Lugs** interface with optional cable restraint system to meet seismic and 150 mph wind load requirements.

**Outer Containment Tank** provides 115-120% of inner tanks capacity for added safety factor. Complies with 40 CFR-264.193.

**Double Wall Tank Construction** encloses and interlocks outer and inner tank to prevent rain, snow, and debris from entering outer containment tank.

## SPECIFICATIONS

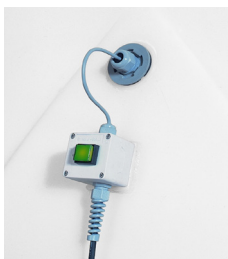
Part No.	Gallons	Diameter	Height
50400/50300	550	76"	65"
54700/54500	1,100	76"	104"
54900/54600	1,550	76"	136"
55700/55000	2,000	102"	103"
55800/55100	2,500	102"	122"
55900/55200	3,000	102"	142"
56000/55300	3,500	102"	158"
56100/55400	4,000	102"	178"
56200/55500	4,500	102"	197"
56300/55600	5,000	102"	216"
56600/56400	5,500	120"	172"
56700/56500	6,500	120"	199"
10064/10065	8,700	142"	197"
10066/10067	10,000	142"	226"
10311/10312	12,500	142"	274"

### Tank Material Options:

High Density linear polyethylene (HDPE) or cross-linked polyethylene (XLPE).

*All Snyder specific gravity ratings meet or exceed ASTM D-1998. Consult your Snyder representatives on material construction recommendations for your company's particular application.*

## ACCESSORIES



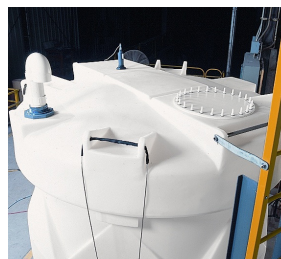
Leak Detection Sensor



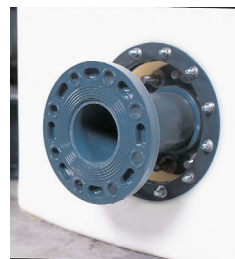
Level Indicator



Temperature Maintenance



Multiple Manway Options



Transition Fitting



Seismic Restraints & Ladders



# DOUBLE WALL TANK SYSTEMS

## DUAL CONTAINMENT TANK SYSTEMS

ideal for mini-bulk chemical delivery programs

**Top Draw-Tube Assembly** enables material contents to be safely dispensed from the top of the tank (optional).

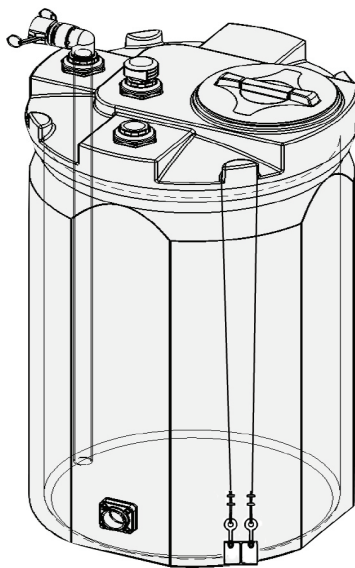
**Optional Vent** provides pressure and vacuum relief for interior tank.

**Available in XLPE and HDLPE** resin packages.

**Transition Fitting** allows sidewall safe installation and long-term sealing power through both walls of tank (optional).

**Forklift Channels** are available on 275, 360 and 500 gallon sizes.

**Flat Surface Areas** provides ample space on top for a variety of fitting sizes and styles.



Patent No. 6,474,496

**Two Tanks within one** design provide double-wall protection.

**Narrow Diameter** provides location versatility in that it can fit through most any doorway on sizes up to 250 gallons.

**Secondary Containment Tank** provides 115 - 120% of inner tank's capacity. Complies with 40 CFR-264.193.

**Molded in Tie-Down Lugs** interface with optional cable restraint system to meet seismic and 150 mph wind load requirements.

*All Other Snyder Industrial Product Fittings and accessories are available wherever applicable.*

## SPECIFICATIONS

Part No.	Gallons	Diameter	Height	Lid
1000112N--	35	22"	36"	6"
5680002N--	60	26"	41"	14"
5700102N--	120	34"	51"	14"
5710102N--	150	34"	62"	14"
5990502N--	250	34"	83"	14"
5740102N--	275	47"	63"	18"
5760102N--	360	53"	63"	18"
5780102N--	500	53"	81"	18"
5990102N--	1000	81"	69"	18"
5990302N--	1500	93"	77"	18"

### Tank Material Options:

High Density linear polyethylene (HDLPE) or cross-linked polyethylene (XLPE).

## ACCESSORIES



Leak Detection Sensor



Forklift & Pallet Jack Accessible Design



Level Gauge



Sidewall Transition Fitting



Temperature Maintenance



Other Fittings & Accessories



# DOUBLE STRENGTH PROTECTION

## Protect your liquid assets

Regulation is becoming increasingly stringent in the formulation and enforcement of chemical containment legislation. Berm and tank-in-a-basin containment systems, thought to be modern, are now found to be inadequate and not compliant.

There is an answer. Snyder's polyethylene tanks with secondary containment systems can safely store a wide range of hazardous chemicals. Our double wall (tank-in-a-tank) designs are being increasingly utilized as a supplement or alternative to secondary containment requirements. The design features built into Snyder's Captor and Mini-Captor Tank Systems increase safety and protect the environment without jeopardizing your profits.

### Consider the Benefits...

- Tank-in-a-tank design provides TOTAL containment protection in one space-saving unit.
- The system consists of a primary tank with a secondary outer containment tank with a capacity of 115%-120% of the inner tank's capacity, exceeding EPA standards.
- Double-wall construction is completely enclosed so that external matter such as rainwater, snow and debris is prevented from collecting in the outer containment tank making it ideal for outdoor chemical storage.
- Shipped fully-assembled on either a standard or wide-load flatbed trailer which reduces field assembly costs.
- Available in sizes ranging from 35 to 12,500 gallons.
- Available in High Density Linear Polyethylene (HDLPE) or Cross Link Polyethylene (XLPE) construction. Having a choice provides ultimate chemical compatibility and performance.
- Tanks designed with wall thickness equal to or greater than ASTM D-1998 standards.

### Your Snyder Double Wall Tank can be customized with these options...

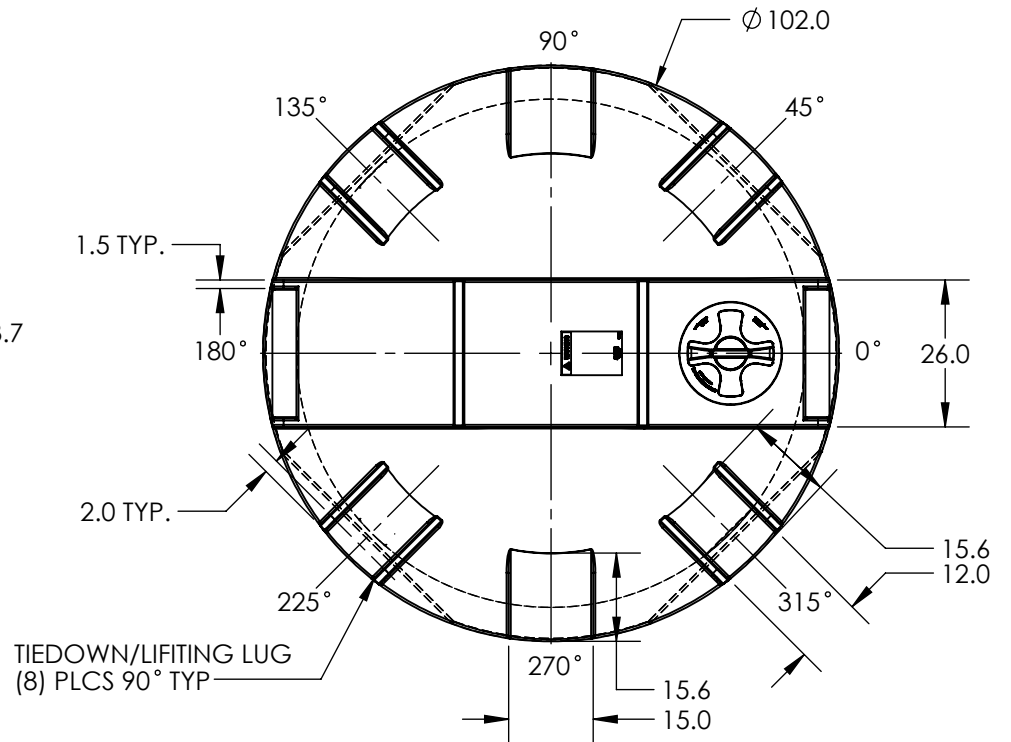
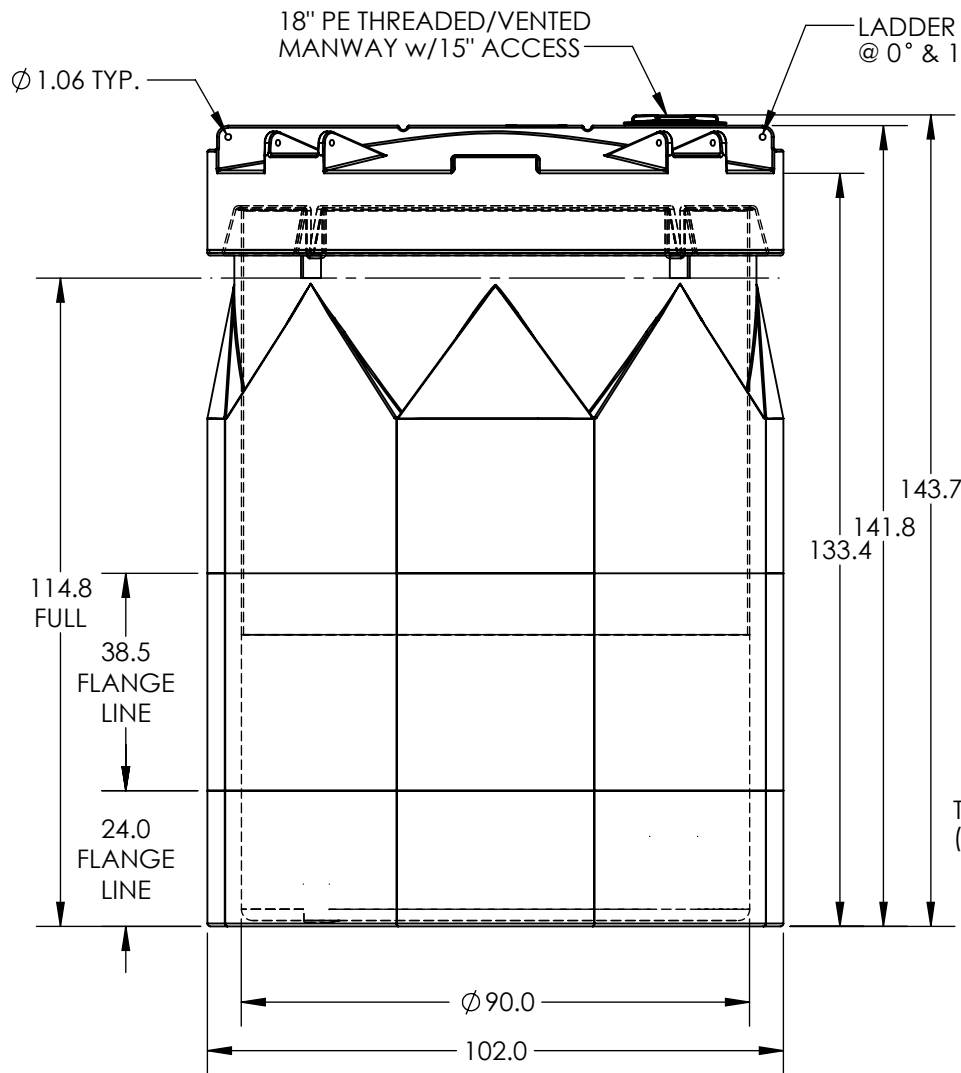
- Seismic restraint system.
- 150 MPH wind load restraint system.
- Ultrasonic level indicators.
- Leak detection sensors.
- Heat tracing and insulation.
- OSHA compliant ladders (550-12,500 gallon sizes).
- Variety of manway sizes and styles.
- Bottom sidewall outlets.
- Top inlet connections and vents.



Whether you are a manufacturer or distributor, Snyder Industries can help you improve the function, economics and performance of your company's bulk handling systems.



**SOLUTIONS IN BULK HANDLING**



**\*ALL EXTERNAL PIPING MUST BE INDEPENDENTLY SUPPORTED.**  
**\*ONLY BASE FITTINGS TO BE LEFT INSTALLED AT TIME OF SHIPMENT PER SII PROCEDURE.**  
**\*TANKS ORDERED WITH FOAM INSULATION WILL HAVE AN INCREASED DIAMETER OF 4-6 INCHES.**  
**\*Consult Snyder's Guidelines for Use and Installation prior to delivery.**  
 Available on-line at <http://www.snyderindustriestanks.com/Technical>  
**ALL DIMENSIONS ARE IN INCHES, NOMINAL, & SUBJECT TO CHANGE WITHOUT NOTICE.**  
**ALL DIMENSIONS ON ROTATIONAL MOLDED PARTS ARE SUBJECT TO A ± 3% TOLERANCE.**

DO NOT SCALE		DRAWN BY	TITLE:		REVISION
STATUS: <b>Released</b>		ETS	<b>ASM TK 3000 CP X 90</b>		<b>A</b>
© SNYDER INDUSTRIES, LLC, 2019			PART NO. <b>5590000N &amp; 5520000N</b>		SHEET 1 OF 1
ALL DIMENSIONS, DESIGNS, AND INFORMATION ON THIS PRINT MUST BE CONSIDERED PROPRIETARY TO SNYDER INDUSTRIES, LLC, AND MAY NOT BE USED, COPIED, OR DISTRIBUTED WITHOUT WRITTEN PERMISSION OF AN OFFICER (OR HIS AGENT) OF THE FIRM.			(402) 467-5221 www.snyder.net		ENG. ID. <b>A003553</b>



	48' Reefer	53' Reefer
Overall Length	48'	53'
Inside Length	46'6"	51'6"
Overall Height	13'6"	13'6"
Inside Height	103.5"	103.5"
Door Opening	101.8" H 98.3" W	101.8" H 98.3" W
Overall Width	102"	102"
Inside Width	97" at scuff	97" at scuff
Coupler Height	47"	47"
Dock Height	51.5"	52.2"
Max Cargo Weight	44,000 LBS	43,500 LBS
Max Pallets	24	26

Standards Lengths:  
28, 32, 36, 40,  
42, 43, 48, 53 Feet

- Options & Features:
- eTrack
  - Produce Chutes
  - Roll up Doors
  - Swing Doors

Widths: 96-102 Inches

Heights: 12.5-13.5 Feet



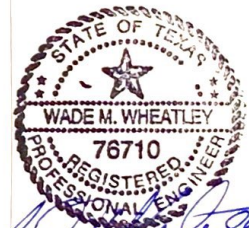
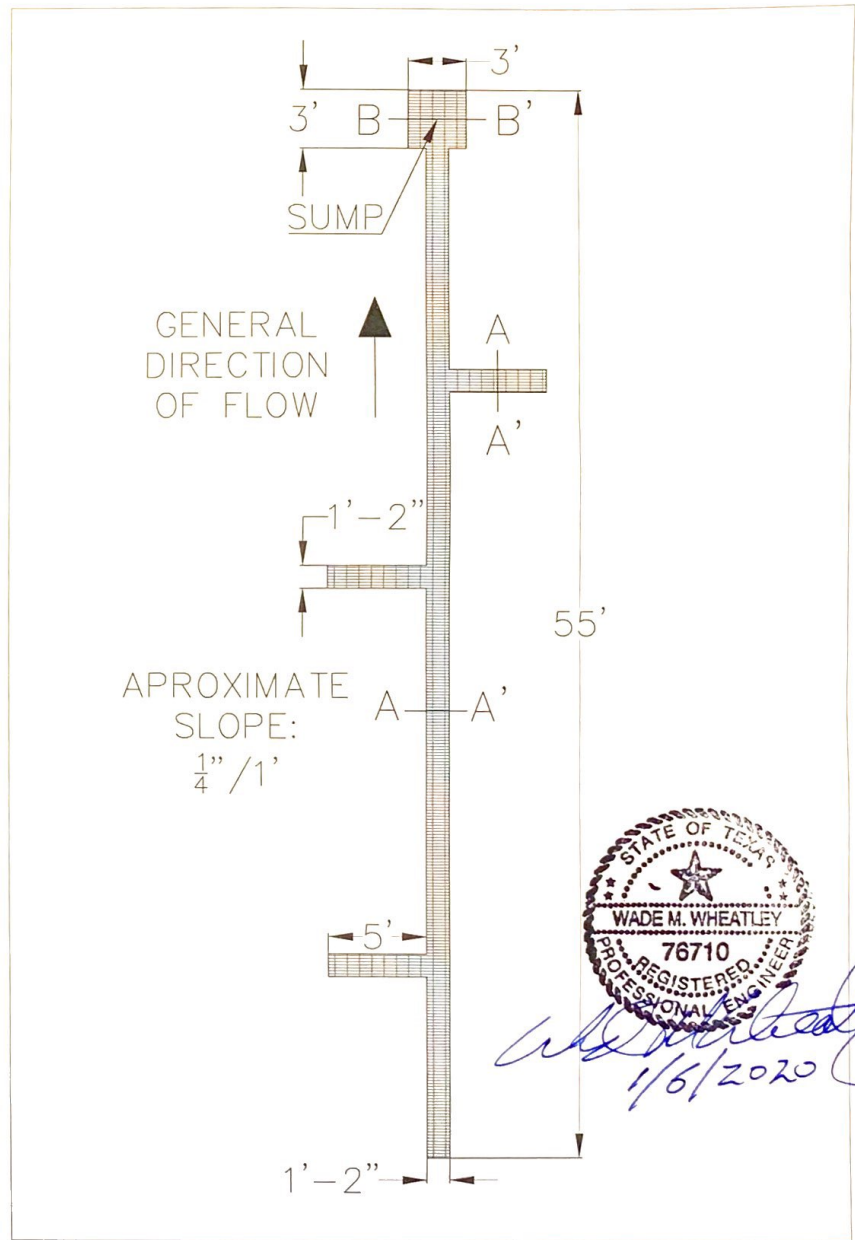
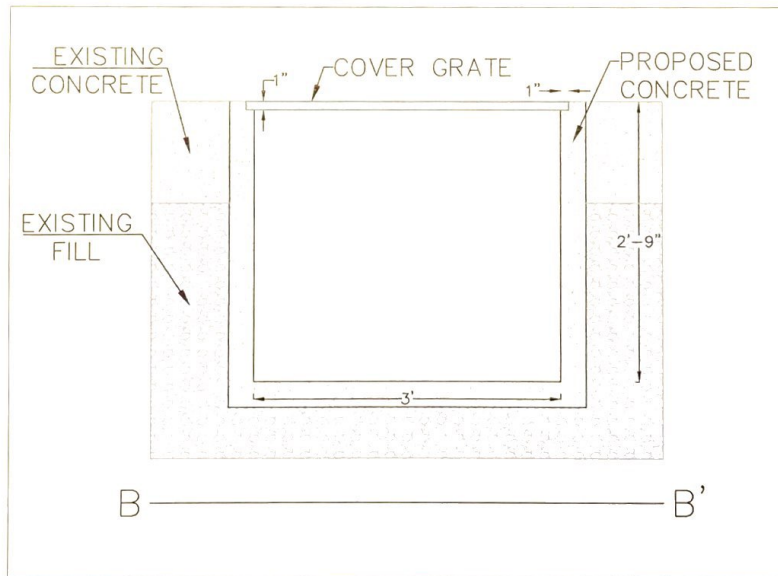
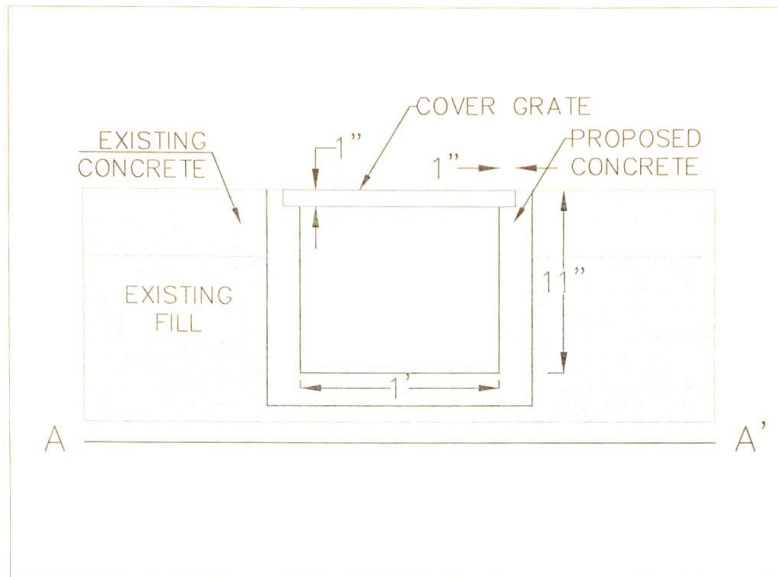
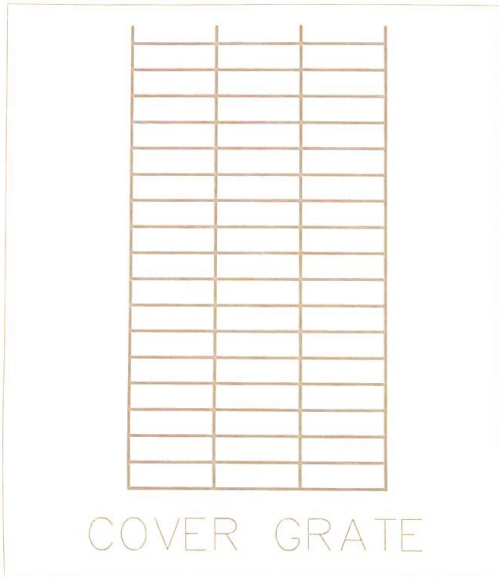
# Reefer Trailer

Revision Date: March 12, 2020

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**TRENCH DRAIN – GENERAL CONSTRUCTION DETAILS**

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*Wade M. Wheatley*  
1/6/2020

NOTES

1. GENERAL CONSTRUCTION DETAILS – NOT INTENDED FOR CONSTRUCTION PURPOSES – FOR PERMITTING PURPOSES ONLY
2. COVER GRATE WILL BE PLACED ON 1" MINIMUM LEDGE.

FOR PERMITTING PURPOSES ONLY



DRAWN BY: JDS	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
APPROVED BY: WMW	#1	-	-	-
DATE: 12-23-2019	#2	-	-	-
SCALE: AS SHOWN	#3	-	-	-
	#4	-	-	-
	#5	-	-	-
	#6	-	-	-

TRENCH FLOOD DRAIN GENERAL CONSTRUCTION DETAILS  
DIVERSIFIED WASTE MANAGEMENT, INC.  
AMARILLO, TEXAS

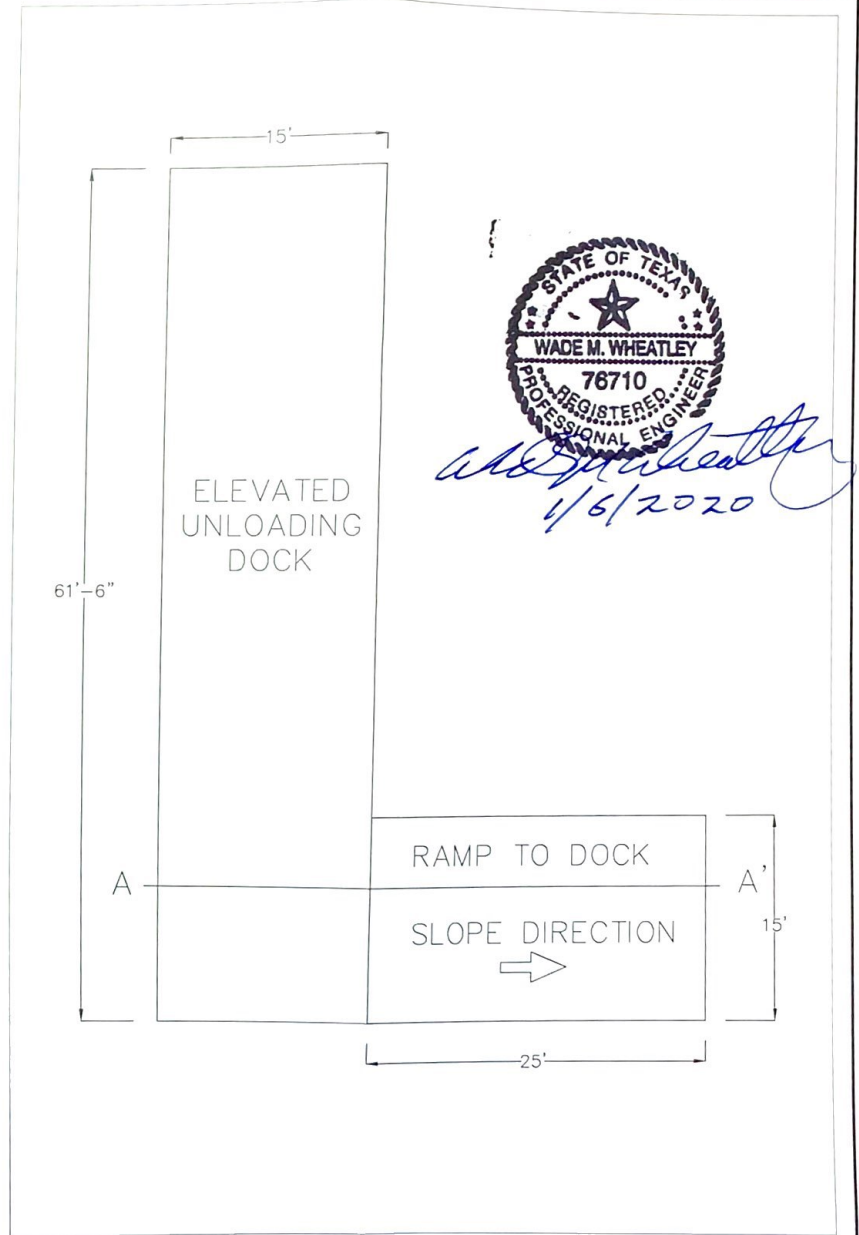
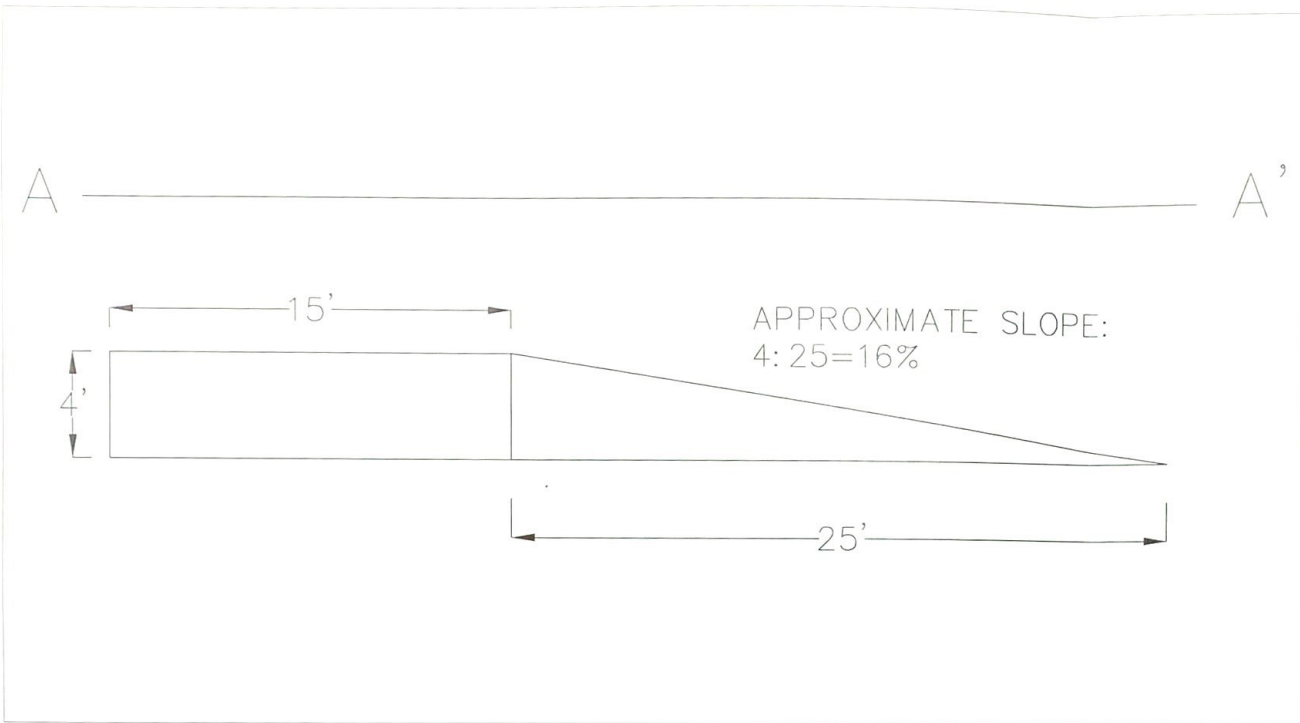
GDS PROJECT NUMBER: 44634-002	DIVERSIFIED WASTE MANAGEMENT, INC.
DATE: 12-23-2019	FIGURE NUMBER: 1

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**UNLOADING DOCK – GENERAL CONSTRUCTION DETAILS**

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**NOTES**

1. GENERAL CONSTRUCTION DETAILS – NOT INTENDED FOR CONSTRUCTION PURPOSES – FOR PERMITTING PURPOSES ONLY
2. RAMP SLOPE IS APPROXIMATED.

**FOR PERMITTING PURPOSES ONLY**



DRAWN BY: JDS	REVISION NUMBER:	DATE OF REVISION:	BY:	DESCRIPTION:
APPROVED BY: WMW	#1	-	-	-
DATE: 12-23-2019	#2	-	-	-
SCALE: AS SHOWN	#3	-	-	-
	#4	-	-	-
	#5	-	-	-
	#6	-	-	-

UNLOADING DOCK GENERAL CONSTRUCTION DETAILS  
 DIVERSIFIED WASTE MANAGEMENT, INC.  
 AMARILLO, TEXAS

GDS PROJECT NUMBER: 44634-002	DIVERSIFIED WASTE MANAGEMENT, INC.
DATE: 12-23-2019	FIGURE NUMBER: 1

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**ATTACHMENT 20**

**SECTION 5 – OTHER SITE OPERATING PLAN, FINANCIAL  
ASSURANCE, AND CLOSURE REQUIREMENTS**

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**ATTACHMENT 20A**

**FIRE PROTECTION PLAN**

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# FIRE PROTECTION PLAN

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### **1.0 Introduction**

This Fire Protection Plan describes methods for fire protection, procedures for using the fire protection equipment and employee training and safety procedures pursuant to §326.75(f) of Title 30, Part 1 of the Texas Administrative Code. The owner/operator has coordinated with the local Fire Department to ensure that fire detection procedures and firefighting equipment complies with the local fire codes. A copy of this Plan will be made available to the Fire Department and other emergency response agencies. The owner/operator and the Fire Department will meet on an as-needed basis in order to keep the Fire Department updated on Facility procedures and operations, and to ensure that the Facility is operated in accordance with local fire codes.

### **2.0 Fire Prevention**

- Burning will not be permitted at this Facility.
- Smoking will not be permitted in the waste transfer, storage, or processing areas at this Facility.
- Incoming loads and waste storage units will be routinely inspected for evidence of smoke, ashes, smoldering, (i.e., "hot loads").

### **3.0 Fire Protection Equipment**

The following equipment is available on-site for fire-fighting activities:

- Properly-sized fire extinguishers
- Hose/water source
- Onsite fire water container

The Facility will have properly-sized and -spaced fire extinguishers located throughout the building. These fire extinguishers are typically 5-pound ABC type extinguishers and will be inspected and tagged per vendor specifications. Fire extinguishers will be fully charged and ready for use at all times. Each extinguisher will be installed and maintained properly. Deficient extinguishers will be recharged or replaced if identified as inoperable.

An adequate supply of water under pressure will be provided to the Fire Department, as needed. A standard water hose will be available at the Facility for fire extinguishing. The Fire Department will be the first responder of fire protection.

#### 4.0 Employee Training and Safety Procedures

All employees will be trained in the content and use of this Fire Protection Plan, and this Plan will be part of new employee orientation. In addition, a fire drill will be conducted at least once annually. The fire drill will include instructions outlining firefighting rules, the proper procedures for fire extinguisher use and capabilities, evacuation procedures, and proper procedures for notification of the local fire department and key personnel.

#### 5.0 General Procedures for Fire-fighting

A fire could potentially occur at the Facility via a number of mechanisms. Potential scenarios for fires include ignition of equipment while operating, vehicle fires, etc. In the event of a fire, the following procedures will be implemented:

1. The person who identifies the fire will call 911 to notify the Fire Department. Provide the following information:
  - Facility Name: *Diversified Waste Management*
  - Address: *13511 Indian Hill Rd.*
  - Nearest Cross Street: *Indian Hill Rd./Dowell Rd.*
2. Alert Facility personnel and evacuate, if necessary
3. Call the Emergency Coordinator (EC) or his designee if not already present. Once the EC arrives, the EC will take control of emergency operations; until then, the employee who has identified the fire and initiated emergency response procedures will continue to control the situation. EC contact information:
  - Name: *Shane Ward*
  - Phone: *806-371-0120*
4. Cease all operations, turn off/unplug equipment as possible, and evacuate the building using the closest exit and meet at designated assembly point. Conduct a head count at the assembly point location to ensure all on-site employees, visitors, vendors, etc. can be accounted for.
5. Assess the extent of the fire and possibilities for extinguishing the fire with onsite equipment. Never attempt to fight a fire alone.
6. If safe, attempt to contain or extinguish the fire with on-site fire protection equipment until the Fire Department arrives.
7. Isolate burning materials, if possible.
8. Collection vehicles carrying waste which has ignited will be directed immediately to an isolated area away from the building. If possible, the vehicle will be unloaded in order to identify the fire source and extinguish using water hoses or fire extinguishers.
9. If a fire extinguisher is used, implement the "**PASS**" method:
  - P**ull the pin,*
  - A**im at the fire,*
  - S**queeze the trigger,*
  - S**weep from side to side to extinguish the fire.*Never turn your back on a fire.
10. Facilitate Fire Department access to the Facility grounds and building.
11. Personnel not actively involved in fire control operations will be restricted from the area of the fire until it is extinguished, and the area is determined to be safe.
12. Document the incident and keep a copy in the Facility Operating Record.

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**ATTACHMENT 20B**

**HEALTH AND SAFETY PLAN**

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Diversified Waste Management, Inc.

## Health & Safety Plan Overview

Diversified Waste Management Inc. (DWM) policy is that all employees be provided with a safe and healthful place of employment in accordance with 29 CFR 1910 OSHA standards.

Identification of hazardous conditions may be accomplished at the planning and design stage, as a result of workplace inspections or by employee reports. All recognized safety and health hazards shall be eliminated or controlled as quickly as possible, subject to priorities based upon the degree of risk posed by the hazards. The preferred method of hazard abatement shall be through application of engineering controls or substitution of less hazardous processes or materials. Reliance on personal protective equipment (PPE) is acceptable only when other methods are proven to be technically and/or economically infeasible.

Safety rules are developed with input from supervision and employees and address behaviors and work practices that can lead to accidents and injuries. Each employee should become familiar with, and follow, general and departmental safety rules.

Supervisors must enforce safe work practices through strict adherence to safety rules. Most accidents can be prevented if everyone uses assigned safety equipment and follows the established rules. To operate a safe and successful business, we must work as a team to:

### **THINK SAFE, WORK SAFE, AND BE SAFE**

#### **Why work safely?**

Work safely for the most important people in your life -- your family. If you are injured at work, they are the people most directly affected. A work-related injury could cause you to be unable to play with your children or take part in recreational activities or hobbies.

#### **What is working safely?**

Wearing required PPE such as safety glasses, completing every task the correct way, not taking hazardous shortcuts, paying attention to the task at hand and asking your supervisor how to complete unfamiliar tasks



## **Your Safety Rights**

You have several important rights concerning safety, which are protected by federal, state and local laws of which you should be aware. They are:

- The right to a safe work-place free from recognized hazards;
- The right to request information on safety and health hazards in the workplace, precautions that may be taken and procedures to be followed if an employee is injured or exposed to toxic substances;
- The right to know about the hazards associated with the chemicals you work with, and safety procedures you need to follow to protect yourself from those hazards;
- The right to question any instruction that requires you to disobey a safety rule, puts yourself or someone else in unnecessary danger of serious injury or requires you to perform a task for which you have not been trained to perform in a safe manner;
- The right to access your medical and exposure records; and
- The right of freedom from retaliation for demanding your safety rights.

## **Your Safety Responsibilities**

You also have some important responsibilities concerning safety. These are:

- The responsibility of reporting all injuries and illnesses to your supervisor, no matter how small;
- The responsibility of always following the safety rules for every task you perform;
- The responsibility of reporting any hazards you see;
- The responsibility of helping your co-workers recognize unsafe actions or conditions they cause; and
- The responsibility of asking about the safety rules you are not sure about.

## **Employee Safety Rules**

It is impractical to list or include all safety rules for all the possible tasks you may have to do, but the following overview has been prepared to help you avoid hazards that may cause injury while doing some of the more common tasks you may be asked to do. Study and follow



the rules provided in this booklet and ask your supervisor for additional guidance when tasked to do a task with which you are not familiar or that this document does not cover. Failure to follow safety rules and /or safe practices will result in disciplinary action, up to and including termination.

### **General Safety Rules**

- Read and follow the safety notices and other information that is posted.
- Observe and follow all safety instructions, signs, and operation procedures.
- Help your fellow employee when they ask for assistance or when needed for their safety. Never participate in "horseplay". Horseplay that results in injury is often not covered by Workers' Compensation.
- Clean up spills immediately.
- Report all unsafe conditions, hazards, or equipment immediately. Make sure other people are warned of the problem so that they may avoid it.
- Wear personal protective equipment as required to reduce injury potential. Use gloves, safety glasses, back support belts etc. as necessary.
- Never stand on chairs, furniture, or anything other than an approved ladder or step-stool.
- Never use intoxicating beverages or controlled drugs before or during work. Prescription medication should only be used at work with your Doctor's approval and after notification to your supervisor in cases where impairment may result.

### **Access to Employee Exposure & Medical Records**

Whenever an employee or designated representative requests access to a record, DWM will assure that access is provided in a reasonable time, place and manner. If DWM cannot reasonably provide access to the record within fifteen (15) working days, the company will within the fifteen (15) working days apprise the employee or designated representative requesting the record of the reason for the delay and the earliest date when the record can be made available. Employee exposure and medical records can be obtained by contacting the Human Resource Department.



## **Bloodborne Pathogens**

Unless you have received proper bloodborne pathogen training and have at least been offered the Hepatitis B vaccination series, DO NOT touch any blood or other body fluid or material contaminated with these fluids. If you accidentally come in contact with another person's blood or body fluid, immediately notify your supervisor so that you can be medically evaluated by a physician for possible exposure to bloodborne pathogens.

## **Injuries & Accidents**

All injuries and accidents must be reported immediately to your supervisor. This includes first aid injuries and close calls / near misses.

First Aid injuries must be documented on the first aid log.

Accidents and injuries resulting in medical treatment must be documented on an accident investigation form.

Not reporting an injury or accident immediately will result in disciplinary action.

Failure to report work related injuries and illnesses in a timely manner may result in denial of benefits under the workers' compensation law.

## **Workers' Compensation Fraud**

DWM is committed to every employee who incurs a legitimate work-related injury or illness. However, any suspected fraudulent claim will be turned over to the company's Workers' Compensation insurer and the State Attorney General's Office for investigation. Workers' Compensation Fraud is a very serious crime and will be prosecuted to the fullest extent of

the law. Fraud results in high Workers' Compensation insurance premiums and productivity interruption affecting the company's ability to remain competitive in the marketplace. This in turn affects all employee's job security and wages. All employees are encouraged to immediately report any suspected fraud to his/her supervisor. Complete confidentiality will be maintained.



## **Horse Play**

Horse Play, scuffling, pranks, wrestling, throwing material at others etc. is not allowed under any circumstances. This type of behavior often results in injuries.

## **Disciplinary Action**

Disregarding safety rules or established safety practices will result in immediate dismissal or at least being written up and suspended. Examples of violations:

- Not wearing required PPE
- Not immediately reporting an injury or damage
- Committing an unsafe act such as removing a guard
- Operating a piece of equipment you are not authorized to operate, such as forklift

## **Return to Work Policy**

All injured employees that return to work with medically authorized restrictions will be accommodated in a modified duty position until they can return to full capacity. Every effort will be made to return employees on medical restrictions to their normal position with modifications to meet the required medical restrictions. When it is not possible to accommodate employees at their normal position an alternative task, within the scope of the restrictions, will be assigned.

## **Drug & Alcohol Testing**

The DWM alcohol and drug-testing program is intended to eliminate the use of illegal drugs, alcohol, and other controlled substances in the work place. Designed solely for the benefit of our employees, this program will provide reasonable safety on the job and protection from offending individuals. Drugs and alcohol tests will be administered under the following conditions:

- To any employee when there is reasonable suspicion that he/she is under the influence of illegal drugs or alcohol
- To any employee who is involved in a near miss that could have, or a workplace accident that causes property damage or requires examination and/or treatment by a licensed physician or medical facility
- Upon application for employment and as a condition of employment



### **Refusing a Drug and/or Alcohol Test**

An employee's refusal to submit to testing as stated above shall be grounds for immediate discharge.

### **Hazard Communication Standard**

All chemicals must be labeled with at least the name of the chemical & manufacturer. Never remove, obscure or deface original hazard labels or markings unless you replace it with equivalent information.

Bulk chemicals and chemicals with a recognized or assigned hazard must be labeled with the Hazard Management Information System (HMIS) or National Fire protection Association (NFPA). In these systems, the higher the number rating (i.e., HMIS or NFPA), the more hazardous the chemical.

A list of hazardous materials used in the workplace is kept in the Safety Manager's office.

Always use required and recommended PPE when working with any chemical.

### **Specific Hazards**

- The marking in the bottom white square (HMIS) or rectangle (NFPA)
- OXY -- Oxidizer (causes fire through release of oxygen)
- ACID -- Acid
- ALK -- Alkali (high pH)
- CORR -- Corrosive (both CORR & ALK material create burns on human skin)
- W -- Water reactive, use no water
- ••• -- Radiation Hazard

### **Safety Data Sheet (SDS)**

These are standardized forms that relay in-depth information on material and chemical health hazards, reactivity, flammability chemical properties, guidelines on usage and storage. The SDSs are located in the Safety Manager's office. Anytime you need an SDS, ask your supervisor and he or she will get it for you.





## **Required PPE**

Your supervisor will inform you of the PPE required to perform your specific job safely. For example:

- Safety Glasses are required to be worn at all times.
- Face shield and gloves are required when working with corrosives.
- Proper eye, face and hand protection must always be worn when operating a welder or cutting torch.
- Face shield, safety glasses, gloves and hearing protection are required for all grinding activities.
- Gloves are required to be worn when handling materials that might result in injury to the hand(s).

If an injury is sustained due to failure to wear required PPE, any benefits and/or compensation under Workers' Compensation may be reduced to the minimum required by law, including forfeiture of benefits and/or compensation.

## **Care of PPE**

Inspect all PPE prior to using each time. If any part of your PPE is damaged see your supervisor for a replacement Store all PPE in a clean, dry and secure place. If your PPE is lost or stolen, you may be charged for a replacement.

## **Limitations of PPE**

PPE cannot protect from all hazards in all situations. That is why OSHA requires it as a last resort, when other protective measures cannot be achieved. For example, dust, airborne dirt and sparks can travel underneath and around the lens of safety glasses, leather gloves can be cut through and respirators may fail or leak.

## **Eye Safety**

Never rub your face or eyes with dirty hand or while wearing a glove. If you get something in your eye never rub it with your finger, this will only make it worse. If something is in your eye, blink several times then use an eye wash. Always wear the required eye protection.



### **Lock Out Tag Out (Control of Hazardous Energy)**

All machines being serviced must be locked out. If you ever see a lock or a danger tag on a machine, it is locked out for repairs. Never try to start a locked-out machine or remove the lock or tag unless you are authorized to do so and have followed the written procedure for re-energization and return to service for that machine.

Only trained and authorized maintenance employees can lockout a machine.

### **Electrical Safety**

Only trained maintenance employees are authorized to conduct trouble shooting or electrical repairs. Do not attempt any maintenance activities you are not trained or authorized to conduct. Never use a damaged extension cord or any other piece of damaged equipment, and never use electrical equipment in damp or wet areas.

### **Forklifts**

Only licensed and certified operators are authorized to operate forklifts. Do not operate mobile equipment until you pass the required training and are certified. Never stand on raised forks or on a pallet on the forklift or place any body part under raised forks, pallet or other load.

Always keep a buffer distance of at least six (6) feet from all directions of possible travel and insure the lift operator knows you will walk in front of or behind the lift. Never stand in an area where a load could fall off forks and strike you or ride on a forklift as a passenger.

### **Machine Safety**

Never try to operate equipment you are not familiar with or trained to operate, reach into a machine while it is operating or place hands in areas where there are moving parts or crush zones.

### **Machine Guarding**

Never remove a guard from a machine, use any machines with a guard missing, reach around a guard or “rig” or bypass a guard. Report guard issues immediately to your supervisor.



## **Housekeeping**

Do not leave lumber, scrap or garbage on the floor. Items not stored correctly will cause a trip hazard. Water or oil on the floor will create slip hazards for employees or fork lifts. Clean up or immediately notify your supervisor of these conditions.

## **Lifting and Moving Material**

Always check the weight of an object prior to lifting it. If it seems heavy get help from another person or use an authorized forklift or crane. Plan the path of travel before the lift. Lift with your legs keeping your back straight, and never twist while carrying a load.

## **Fire Procedures**

OSHA defines an incipient stage fire as a fire in the initial or beginning stage and that can be controlled or extinguished by portable fire extinguishers, class II standpipe or small hose systems without the need for protective clothing or breathing apparatus.

If you find a fire smaller than a small trash can (incipient stage), you can try and put it out if you are trained in the use of fire extinguishers. For any larger fire, sound the alarm, notify your supervisor, evacuate the building and assemble in your designated area outside. Report any missing coworkers to your supervisor.

## **Fire Extinguishers**

Authorized and trained employees can use the fire extinguishers located throughout the site to fight incipient stage fires. To use a fire extinguisher, remember **PASS**.

**Pull** the pin

**Aim** at the base of the fire

**Squeeze** the handle

**Sweep** the base of the fire

Report any missing, damaged or depleted extinguishers to your supervisor.



Training Topics Covered in this Employee Safety Handbook

- GENERAL HEALTH & SAFETY POLICIES
- THE IMPORTANCE OF WORKING SAFELY & WHAT IT INVOLVES
- YOUR SAFETY RIGHTS
- EMPLOYEE RESPONSIBILITIES
- EMPLOYEE SAFETY RULES
- EMPLOYEE ACCESS TO EXPOSURE & MEDICAL RECORDS
- BLOODBORNE PATHOGENS - GENERAL AWARENESS
- REPORTING OF INJURIES AND ACCIDENTS
- SEEKING MEDICAL TREATMENT FOR WORK RELATED INJURIES
- WORKERS' COMPENSATION FRAUD
- HORSE PLAY
- DISCIPLINARY ACTION
- RETURN TO WORK POLICY
- DRUG & ALCOHOL TESTING POLICY
- OSHA'S HAZARD COMMUNICATION STANDARD
- PERSONAL PROTECTIVE EQUIPMENT (PPE)
- JOB REQUIREMENTS
- CARE & LIMITATIONS OF PPE
- EYE SAFETY
- LOCKOUT / TAGOUT (CONTROL OF HAZARDOUS ENERGY)
- ELECTRICAL SAFETY
- FORKLIFT OPERATION
- MACHINE SAFETY & GUARDING
- LIFTING & MOVING MATERIAL HOUSE KEEPING
- FIRE PROCEDURES
- USE OF FIRE EXTINGUISHERS

I have read and understand all of the information covered in the Employee Safety Handbook.

Employee Signature: \_\_\_\_\_

Clock No.:

Witness Signature: \_\_\_\_\_

Date:

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**ATTACHMENT 20C**

**CLOSURE PLAN**

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## **CLOSURE PLAN**

The facility's closure plan is prepared in accordance with applicable portions of 30 TAC §326.71(k) - (n) relating to Closure and Post Closure.

### **§326.71(k) Closure Requirements for Medical Waste Storage and Processing Units**

Upon closure, the owner or operator will remove all waste, waste residue, and any recovered materials. All facility units will be dismantled and removed off-site or decontaminated.

The owner or operator will evacuate all untreated medical waste to a TCEQ authorized facility and disinfect all receiving, processing and post-processing areas. Final disposition of treated medical waste will be at an authorized facility.

Final closure of the facility will be completed within 180 days following the last acceptance of processed or unprocessed materials unless otherwise directed or approved in writing by the executive director.

### **326.71(I) Certification of Final Facility Closure**

#### **§326.71(I)(1)**

No later than 90 days prior to the initiation of final facility closure, the owner or operator will, through a public notice in the newspaper(s) of largest circulation in the vicinity of the facility, provide public notice for final facility closure. This notice will provide the name, address, and physical location of the facility; the registration number; and the last date of intended receipt of waste. The owner or operator will also make available an adequate number of copies of the approved final closure plan for public access and review. The owner or operator will also provide written notification to the executive director of the intent to close the facility and place the notice of intent in the site operating record.

#### **§326.71(I)(2)**

Upon notification to the executive director of the intent to close the site, the owner or operator will post a minimum of one sign at the main entrance and all other frequently used points of access for the facility notifying all persons who may utilize the facility or site of the date of closing for the entire facility or site and the prohibition against further receipt of waste materials after the stated date. Further, suitable barriers will be installed at all gates or access points to adequately prevent the unauthorized dumping of solid waste at the closed facility or site.

#### **§326.71(I)(3)**

Within 10 days after completion of final closure activities of the facility, the owner or operator shall submit to the executive director by registered mail the following:

- (A) A certification, signed by an independent licensed professional engineer, verifying final closure has been completed in accordance with the approved closure plan. The submittal to the executive director will include all applicable documentation necessary for the Commission's certification of final facility closure and
- (B) Upon closure of the facility, the owner or operator will request a voluntary revocation of the registration.





*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 6**

**DRAFT survey for Regional Solid Waste Management Plan**

City/County Name: \_\_\_\_\_

Person to Contact Regarding this Survey: \_\_\_\_\_

Contact Person's Title \_\_\_\_\_

Day Time Phone No.: \_\_\_\_\_ Fax No.: \_\_\_\_\_

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**LANDFILLS:**

1. Do you currently operate a landfill?  YES  NO
2. If so, what type(s) do you operate?  ARID EXEMPT  NON-ARID EXEMPT  
(Check all that apply)  TYPE I  TYPE IV

Please list the ~~TNRCC~~ TCEQ permit number for your facility. If you hold permits for multiple facilities, please list the ~~TNRCC~~ TCEQ permit numbers by facility.

1. \_\_\_\_\_ 2. \_\_\_\_\_

3. Does your landfill accept waste from other communities or counties?  YES  NO

If so, from whom (please list, showing all entities, in-region, out-of-region, and out-of state. If necessary, attach additional pages).

1. \_\_\_\_\_ 9. \_\_\_\_\_  
2. \_\_\_\_\_ 10. \_\_\_\_\_  
3. \_\_\_\_\_ 11. \_\_\_\_\_  
4. \_\_\_\_\_ 12. \_\_\_\_\_  
5. \_\_\_\_\_ 13. \_\_\_\_\_  
6. \_\_\_\_\_ 14. \_\_\_\_\_  
7. \_\_\_\_\_ 15. \_\_\_\_\_  
8. \_\_\_\_\_ 16. \_\_\_\_\_

4. What is the tipping fee charge at your landfill? \$\_\_\_\_\_ per  TON or  CUBIC YARD

5. How is volume of waste disposed of in your landfill facility(ies) measured?  
 Scale weight  Vehicular weight  Population Estimate

6. Please provide the total disposal amounts you reported to the TNRCC 2020 for the quarters listed below.

Total amt. reported for: 9/1/9618- 11/31/9618	Total amt. reported for: 12/1/9719- 2/28/9719	Total amt. reported for: 3/1/9719- 5/31/9719	Total amt. reported for: 6/1/9719- 8/31/9719
_____ tons	_____ tons	_____ tons	_____ tons
_____ cy yds	_____ cy yds	_____ cy yds	_____ cy yds

Total amt. reported for: 9/1/9719- 11/31/9719	Total amt. reported for: 12/01/9820- 2/28/9820	Total amt. reported for: 3/1/9820- 5/31/9820	Total amt. reported for: 6/1/9820- 8/31/9820
_____ tons	_____ tons	_____ tons	_____ tons
_____ cy yds	_____ cy yds	_____ cy yds	_____ cy yds

7. Currently, how many useable acres still remain within your permitted landfill(s)? \_\_\_\_\_  
*(show each facility separately - differentiate by permit #)* \_\_\_\_\_

8. What is the current remaining life of your landfill(s)? (in what year will your landfill(s) reach maximum capacity?) \_\_\_\_\_  
*(show each facility separately - differentiate by permit #)* \_\_\_\_\_

9. Do you have any current plans to permit another landfill in the future? If YES, please explain below.  YES  NO

\_\_\_\_\_  
 \_\_\_\_\_

**TRANSFER STATIONS:**

1. Do you currently operate a transfer station?  YES  NO  
 If so, please list your TNRCC TCEQ registration number: \_\_\_\_\_

2. Does your transfer station accept waste from other communities or counties?.  YES  NO

If so, from whom (please list, showing all entities, in-region, out-of-region, and out-of state. If necessary, attach additional pages).

- |          |          |
|----------|----------|
| 1. _____ | 4. _____ |
| 2. _____ | 5. _____ |
| 3. _____ | 6. _____ |

3. Which landfill do you transfer to? \_\_\_\_\_
4. How long a distance is the transfer (roundtrip)? \_\_\_\_\_ miles
5. How many tons per day are processed through your transfer station? \_\_\_\_\_ Tons
6. How frequently do you transfer waste to the landfill? \_\_\_\_\_
7. What is the tipping fee charge at your transfer station? \$ \_\_\_\_\_ per  TON or  CUBIC YARD

**DIRECT HAULING:**

1. If you don't operate a landfill or a transfer station, to where do you haul your solid waste? \_\_\_\_\_
2. What is the tipping fee charge you pay for disposal? \$ \_\_\_\_\_ per  TON or  CUBIC YARD
3. What is the roundtrip haul distance you must travel? \_\_\_\_\_ miles
4. Do you pick up/haul waste from other communities or counties?  YES  NO

If so, from whom (please list, showing all entities, in-region, out-of-region, and out-of state. If necessary, attach additional pages).

- |          |          |
|----------|----------|
| 1. _____ | 3. _____ |
| 2. _____ | 4. _____ |

**COLLECTION SERVICES:**

1. Do you provide collection services to the residents in your community/county? If NO, please explain.  YES  NO  
 \_\_\_\_\_  
 \_\_\_\_\_
2. Do you provide collection services to the commercial customers in your community/county? If NO, please explain.  YES  NO  
 \_\_\_\_\_  
 \_\_\_\_\_
3. What are your average monthly **residential** solid waste rates? \$ \_\_\_\_\_

4. What are your monthly **commercial** solid waste rates? (please explain).

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**CONTRACT SERVICES:**

1. Do you contract for any of the following services? (Check all that apply)

- LANDFILL       TRANSFERRING/HAULING       COLLECTION (residential)

With whom:

LANDFILL \_\_\_\_\_

TRANSFERRING/HAULING: \_\_\_\_\_

COLLECTION (residential) \_\_\_\_\_

OTHER (please specify) \_\_\_\_\_

2. How much are you charged for these services?

LANDFILL \_\_\_\_\_

TRANSFERRING/HAULING: \_\_\_\_\_

COLLECTION (residential) \_\_\_\_\_

OTHER (please specify) \_\_\_\_\_

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**HISTORICAL DATA:**

1. Have you closed a landfill within the past two years?       YES       NO

2. Have you permitted a new facility or re-permitted/amended an existing facility permit during the past two years? If YES, please explain       YES       NO

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3. Have you increased your residential and/or commercial trash rates during the past two years?       YES       NO

Residential Rates:

~~1997~~ **2019**      \$ \_\_\_\_\_  
Rates:

~~1998~~ **2019**      \$ \_\_\_\_\_  
Rates:

Commercial Rates (please explain) :

~~1997~~2019: \_\_\_\_\_

~~1998~~2020: \_\_\_\_\_

4. Are you contracting out solid waste service today that you were performing yourself in ~~1996~~2019?  YES  NO

Those are (check all that apply):

- LANDFILLING  TRANSFERRING/HAULING  COLLECTION (residential)

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### ECONOMIC DATA:

1. Please list the five largest waste generators in your community/county?

NAME:	No. OF EMPLOYEES (If known)
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____

2. Since ~~1996~~2019, has your community/county experienced any significant increase in business/commerce/job development?  YES  NO

If YES, please explain: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Have there been any economic events (either beneficial or adverse <sup>1</sup>) that have occurred within your community/county since ~~1996~~ 2019 that have affected the amount of residential or commercial waste being generated locally? If so, please explain

\_\_\_\_\_

\_\_\_\_\_

1 - For example, plants or businesses opening, expanding or closing; drop in school enrollment, etc.



4. Within the next two years, do you anticipate any economic events occurring (either beneficial or adverse) within your community/county that may have some affect on the amount of residential or commercial waste being generated locally? If so, please explain

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**RECYCLING, WASTE REDUCTION, COMPOSTING:**

1. How would you characterize the estimated composition of the waste stream you manage?

**RESIDENTIAL**      **COMMERCIAL**      **INSTITUTIONAL**      **WOOD/BRUSH**      **C&D WASTE**  
 \_\_\_\_\_%    \_\_\_\_\_%    \_\_\_\_\_%    \_\_\_\_\_%    \_\_\_\_\_%

2. Has your community/county attempted to establish any of the following programs during the past two years? (check all that apply)

WOOD WASTE REDUCTION     RESIDENTIAL RECYCLING     COMMERCIAL RECYCLING  
 YARD WASTE REDUCTION     WORKPLACE RECYCLING     USED OIL RECYCLING  
 OTHER (Please Specify):\_\_\_\_\_     OTHER (Please Specify):\_\_\_\_\_

3. Does your community/county currently operate any of the following programs? (check all that apply)

WOOD WASTE REDUCTION     RESIDENTIAL RECYCLING     COMMERCIAL RECYCLING  
 YARD WASTE REDUCTION     WORKPLACE RECYCLING     USED OIL RECYCLING  
 OTHER (Please Specify):\_\_\_\_\_     OTHER (Please Specify):\_\_\_\_\_

4. If you checked any of the boxes under Question #2, in your estimate, how much has that program(s) helped in reducing the amount of waste you would have otherwise landfilled?

UNDER 5%     5 - 10%     10 - 15%     15 - 20%     20 - 25%     ABOVE 25%

5. Which of the following programs that you don't already operate would you like to implement during the next two years? (check all that apply)

WOOD WASTE REDUCTION     RESIDENTIAL RECYCLING     COMMERCIAL RECYCLING  
 YARD WASTE REDUCTION     WORKPLACE RECYCLING     USED OIL RECYCLING  
 OTHER (Please Specify):\_\_\_\_\_     OTHER (Please Specify):\_\_\_\_\_

1998 2020 PANHANDLE REGIONAL SOLID WASTE PLAN UPDATE  
SURVEY FORM

6. Have any of the following programs been reduced or eliminated in the last two (2) years? (check all that apply) If so, please explain:

- WOOD WASTE REDUCTION     RESIDENTIAL RECYCLING     COMMERCIAL RECYCLING  
 YARD WASTE REDUCTION     WORKPLACE RECYCLING     USED OIL RECYCLING  
 OTHER (Please Specify): \_\_\_\_\_     OTHER (Please Specify): \_\_\_\_\_

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7. Do you anticipate applying for solid waste grant funds during the next two years in order implement new programs?     YES     NO

8. Do you anticipate adding new materials to your recycling efforts in the next two (2) years? If yes, please explain:     YES     NO

9. What is your established recycling rate goal? If NA, please explain:    %     NA

10. What is your anticipated recycling rate goal in ten (10) years? If NA, please explain:    %     NA

11. Do you have any affiliate with Keep Texas Beautiful or similar clean-up program? If yes, please list:     YES     NO





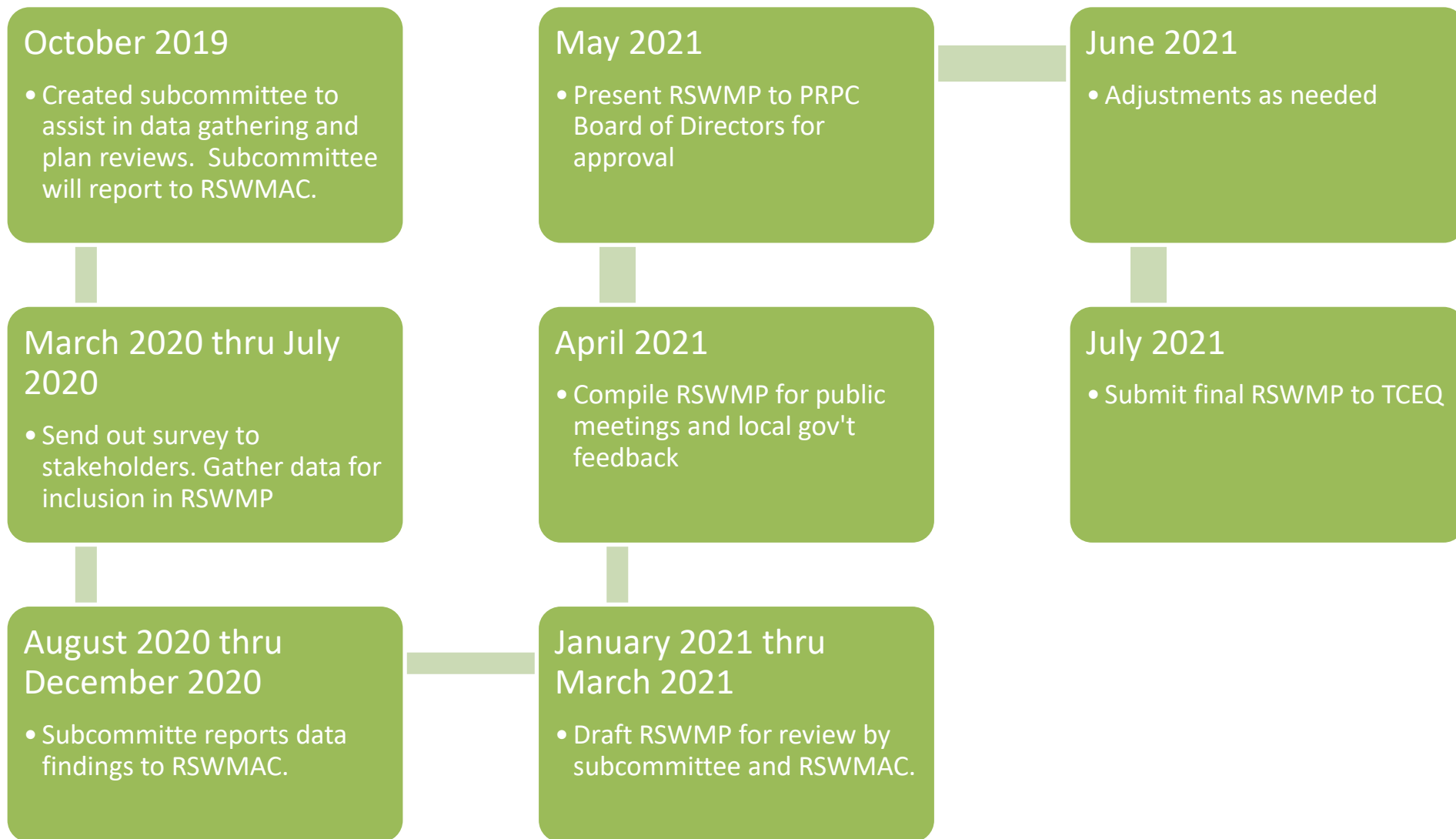
*PANHANDLE REGIONAL SOLID WASTE  
MANAGEMENT ADVISORY COMMITTEE*

# **ITEM 7**

**DRAFT timeline for Regional Solid Waste Management  
Plan**

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## Panhandle Regional Solid Waste Management Plan Timeline



Federal Data Sources,

- Bureau of Census -- [www.census.gov](http://www.census.gov)
- U.S. Department of Commerce -- [www.commerce.gov](http://www.commerce.gov)
- EPA Sustainable Materials Management <https://www.epa.gov/smm>

State Data Sources

- Texas Department of Commerce -- [www.commerce.gov/states/texas.html](http://www.commerce.gov/states/texas.html)

Texas Natural Resources Information System -- [www.tnris.state.tx.us](http://www.tnris.state.tx.us)

Texas A & M University -- [www.tamu.edu](http://www.tamu.edu)

Texas State Library -- [www.tsl.state.tx.us](http://www.tsl.state.tx.us)

Texas Health & Human Services Commission-- [www.hhsc.state.tx.us](http://www.hhsc.state.tx.us)

Texas Water Development Board -- [www.twdb.state.tx.us](http://www.twdb.state.tx.us)

State Data Center <http://txsdc.utsa.edu>

Texas Water Development Board, Planning Division <http://www.twdb.texas.gov>

Keep Texas Recycling -- <https://www.ktb.org/keep texas recycling>

circular economy

source separation: glass

IPR vs. EPR

<https://www.hprc.org/hospicycle>

<https://www.hprc.org/guidance-for-recyclers>