
**F-22385**

# MR. W FIREWORKS SUPERSTORE
# MRW SMITHSON VALLEY
# WATER POLLUTION ABATEMENT PLAN

26325 Smithson Valley Rd.

San Antonio, Texas 78261

## Texas Commission on Environmental Quality

# Edwards Aquifer Application Cover Page

### Our Review of Your Application

**The Edwards Aquifer Program staff conducts an administrative and technical review of all applications. The turnaround time for administrative review can be up to 30 days as outlined in 30 TAC 213.4(e). Generally administrative completeness is determined during the intake meeting or within a few days of receipt. The turnaround time for technical review of an administratively complete Edwards Aquifer application is 90 days as outlined in 30 TAC 213.4(e). Please know that the review and approval time is directly impacted by the quality and completeness of the initial application that is received. In order to conduct a timely review, it is imperative that the information provided in an Edwards Aquifer application include final plans, be accurate, complete, and in compliance with 30 TAC 213.**

### Administrative Review

1. Edwards Aquifer applications must be deemed administratively complete before a technical review can begin. To be considered administratively complete, the application must contain completed forms and attachments, provide the requested information, and meet all the site plan requirements. The submitted application and plan sheets should be final plans. Please submit one full-size set of plan sheets with the original application, and half-size sets with the additional copies.

   To ensure that all applicable documents are included in the application, the program has developed tools to guide you and web pages to provide all forms, checklists, and guidance. Please visit the below website for assistance: http://www.tceq.texas.gov/field/eapp.

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.

3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.

4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

   An appointment should be made to resubmit the application. The application is re-examined to ensure all deficiencies are resolved. The application will only be deemed administratively complete when all administrative deficiencies are addressed.

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.

6. If the geologic assessment was completed before October 1, 2004 and the site contains "possibly sensitive" features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

### Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.

2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

clearly marked, features identified in the geologic assessment should be flagged, roadways marked and the alignment of the Sewage Collection System and manholes should be staked at the time the application is submitted. If the site is not marked the application may be returned.

3. We evaluate the application for technical completeness and contact the applicant and agent via Notice of Deficiency (NOD) to request additional information and identify technical deficiencies. There are two deficiency response periods available to the applicant. There are 14 days to resolve deficiencies noted in the first NOD. If a second NOD is issued, there is an additional 14 days to resolve deficiencies. If the response to the second notice is not received, is incomplete or inadequate, or provides new information that is incomplete or inadequate, the application must be withdrawn or will be denied. Please note that because the technical review is underway, whether the application is withdrawn or denied **the application fee will be forfeited**.
4. The program has 90 calendar days to complete the technical review of the application. If the application is technically adequate, such that it complies with the Edwards Aquifer rules, and is protective of the Edwards Aquifer during and after construction, an approval letter will be issued. Construction or other regulated activity may not begin until an approval is issued.

**Mid-Review Modifications**

It is important to have final site plans prior to beginning the permitting process with TCEQ to avoid delays.

Occasionally, circumstances arise where you may have significant design and/or site plan changes after your Edwards Aquifer application has been deemed administratively complete by TCEQ. This is considered a "Mid-Review Modification". Mid-Review Modifications may require redistribution of an application that includes the proposed modifications for public comment.

If you are proposing a Mid-Review Modification, two options are available:

- If the technical review has begun your application can be denied/withdrawn, your fees will be forfeited, and the plan will have to be resubmitted.
- TCEQ can continue the technical review of the application as it was submitted, and a modification application can be submitted at a later time.

If the application is denied/withdrawn, the resubmitted application will be subject to the administrative and technical review processes and will be treated as a new application. The application will be redistributed to the affected jurisdictions.

Please contact the regional office if you have questions. If your project is located in Williamson, Travis, or Hays County, contact TCEQ's Austin Regional Office at 512-339-2929. If your project is in Comal, Bexar, Medina, Uvalde, or Kinney County, contact TCEQ's San Antonio Regional Office at 210-490-3096

Please fill out all required fields below and submit with your application.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **1. Regulated Entity Name: MRW SMITHSON VALLEY** | | | | | | **2. Regulated Entity No.:** | | | |
| **3. Customer Name: TEAM KAM ENTERPRISES. LTD** | | | | | | **4. Customer No.:** | | | |
| **5. Project Type:** **(Please circle/check one)** | New | | Modification | | | Extension | | Exception | |
| **6. Plan Type:** **(Please circle/check one)** | WPAP | CZP | SCS | UST | AST | EXP | EXT | Technical Clarification | Optional Enhanced Measures |
| **7. Land Use:** **(Please circle/check one)** | Residential | | Non-residential | | | **8. Site (acres):** | | | 1.4187 |
| **9. Application Fee:** | $4,000 | | **10. Permanent BMP(s):** | | | N/A (20% WAIVER) | | | |
| **11. SCS (Linear Ft.):** | N/A | | **12. AST/UST (No. Tanks):** | | | N/A | | | |
| **13. County:** | BEXAR | | **14. Watershed:** | | | SALADO CREEK | | | |

# Application Distribution

Instructions: Use the table below to determine the number of applications required. One original and one copy of the application, plus additional copies (as needed) for each affected incorporated city, county, and groundwater conservation district are required. Linear projects or large projects, which cross into multiple jurisdictions, can require additional copies. Refer to the "Texas Groundwater Conservation Districts within the EAPP Boundaries" map found at:

http://www.tceq.texas.gov/assets/public/compliance/field_ops/eapp/EAPP%20GWCD%20map.pdf

For more detailed boundaries, please contact the conservation district directly.

| Austin Region | | | |
|---|---|---|---|
| **County:** | **Hays** | **Travis** | **Williamson** |
| Original (1 req.) | ___ | ___ | ___ |
| Region (1 req.) | ___ | ___ | ___ |
| County(ies) | ___ | ___ | ___ |
| Groundwater Conservation District(s) | ___Edwards Aquifer Authority<br>___Barton Springs/ Edwards Aquifer<br>___Hays Trinity<br>___Plum Creek | ___Barton Springs/ Edwards Aquifer | NA |
| City(ies) Jurisdiction | ___Austin<br>___Buda<br>___Dripping Springs<br>___Kyle<br>___Mountain City<br>___San Marcos<br>___Wimberley<br>___Woodcreek | ___Austin<br>___Bee Cave<br>___Pflugerville<br>___Rollingwood<br>___Round Rock<br>___Sunset Valley<br>___West Lake Hills | ___Austin<br>___Cedar Park<br>___Florence<br>___Georgetown<br>___Jerrell<br>___Leander<br>___Liberty Hill<br>___Pflugerville<br>___Round Rock |

| San Antonio Region | | | | | |
|---|---|---|---|---|---|
| **County:** | **Bexar** | **Comal** | **Kinney** | **Medina** | **Uvalde** |
| Original (1 req.) | ___ | ___ | ___ | ___ | ___ |
| Region (1 req.) | ___ | ___ | ___ | ___ | ___ |
| County(ies) | ___ | ___ | ___ | ___ | ___ |
| Groundwater Conservation District(s) | X Edwards Aquifer Authority<br>X Trinity-Glen Rose | ___Edwards Aquifer Authority | ___Kinney | ___EAA<br>___Medina | ___EAA<br>___Uvalde |
| City(ies) Jurisdiction | ___Castle Hills<br>___Fair Oaks Ranch<br>___Helotes<br>___Hill Country Village<br>___Hollywood Park<br>X San Antonio (SAWS)<br>___Shavano Park | ___Bulverde<br>___Fair Oaks Ranch<br>___Garden Ridge<br>___New Braunfels<br>___Schertz | NA | ___San Antonio ETJ (SAWS) | NA |

| |
|---|
| I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. |
| JOSEPH E. TOBER, P.E.<br>Print Name of Customer/Authorized Agent |
| Joseph E. Tober 7.11.2023<br>Signature of Customer/Authorized Agent Date |

| **FOR TCEQ INTERNAL USE ONLY** | | | | |
|---|---|---|---|---|
| Date(s)Reviewed: | | Date Administratively Complete: | | |
| Received From: | | Correct Number of Copies: | | |
| Received By: | | Distribution Date: | | |
| EAPP File Number: | | Complex: | | |
| Admin. Review(s) (No.): | | No. AR Rounds: | | |
| Delinquent Fees (Y/N): | | Review Time Spent: | | |
| Lat./Long. Verified: | | SOS Customer Verification: | | |
| Agent Authorization Complete/Notarized (Y/N): | | Fee Check: | Payable to TCEQ (Y/N): | |
| Core Data Form Complete (Y/N): | | | Signed (Y/N): | |
| Core Data Form Incomplete Nos.: | | | Less than 90 days old (Y/N): | |

F-22385

# GENERAL INFORMATION SECTION

# General Information Form

**Texas Commission on Environmental Quality**

For Regulated Activities on the Edwards Aquifer Recharge and Transition Zones and Relating to 30 TAC §213.4(b) & §213.5(b)(2)(A), (B) Effective June 1, 1999

***To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.***

***Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.***

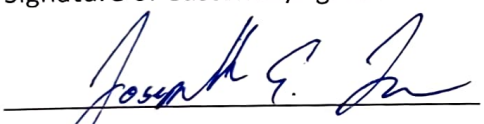
## *Signature*

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **General Information Form** is hereby submitted for TCEQ review. The application was prepared by:

Print Name of Customer/Agent: Joseph E. Tober, P.E.

Date: 07.11.2023

Signature of Customer/Agent:



## *Project Information*

1. Regulated Entity Name: MRW Smithson Valley
2. County: Bexar County
3. Stream Basin: Elm Creek Waterhole (Salado Creek Watershed)
4. Groundwater Conservation District (If applicable): EAA/Trinity Rose Glen GCD
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

   ☒ WPAP
   ☐ SCS
   ☐ Modification
   ☐ AST
   ☐ UST
   ☐ Exception Request

7. Customer (Applicant):

   Contact Person: Wayne Wildman
   Entity: Team Kam Enterprises, LTD
   Mailing Address: P.O. Box 114
   City, State: Somerset, TX Zip: 78069
   Telephone: (210)622-3112 FAX: _____
   Email Address: wildmans@flash.net

8. Agent/Representative (If any):

   Contact Person: Joseph E. Tober, P.E.
   Entity: Mr. W Fireworks, Inc.
   Mailing Address: P.O. Box 114
   City, State: Somerset, TX Zip: 78069
   Telephone: (210)622-3112 FAX: _____
   Email Address: joseph@mrwfireworks.com

9. Project Location:

   ☐ The project site is located inside the city limits of _____.
   ☒ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of San Antonio.
   ☐ The project site is not located within any city's limits or ETJ.

10. ☒ The location of the project site is described below. The description provides sufficient detail and clarity so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

    26235 Smithson Valley, SA TX 78261

    From TCEQ regional office, head north on Judson Road approximately 3.0 miles to Loop 1604. Travel west on Loop 1604 approximately 5.1 mile to the US HWY 281 N. Travel north along US HWY 281 for 5.5 miles and exit Bulverde Road. Turning right on Bulverde Road for 0.8 miles. Then left onto Smithson Valley Road for 0.2 miles to destination which will be located on the left side of the road, across from the intersection of Smithson Valley Rd. and Rustic Oak.

11. ☒ **Attachment A – Road Map**. A road map showing directions to and the location of the project site is attached. The project location and site boundaries are clearly shown on the map.

12. ☒ **Attachment B - USGS / Edwards Recharge Zone Map**. A copy of the official 7 ½ minute USGS Quadrangle Map (Scale: 1" = 2000') of the Edwards Recharge Zone is attached. The map(s) clearly show:

    ☒ Project site boundaries.
    ☒ USGS Quadrangle Name(s).
    ☒ Boundaries of the Recharge Zone (and Transition Zone, if applicable).

☒ Drainage path from the project site to the boundary of the Recharge Zone.

13. ☒ **The TCEQ must be able to inspect the project site or the application will be returned**. Sufficient survey staking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of the regulated activities and the geologic or manmade features noted in the Geologic Assessment.

☒ Survey staking will be completed by this date: Completed

14. ☒ **Attachment C – Project Description**. Attached at the end of this form is a detailed narrative description of the proposed project. The project description is consistent throughout the application and contains, at a minimum, the following details:

☒ Area of the site
☒ Offsite areas
☒ Impervious cover
☒ Permanent BMP(s)
☒ Proposed site use
☒ Site history
☒ Previous development
☒ Area(s) to be demolished

15. Existing project site conditions are noted below:

☒ Existing commercial site
☐ Existing industrial site
☐ Existing residential site
☐ Existing paved and/or unpaved roads
☐ Undeveloped (Cleared)
☐ Undeveloped (Undisturbed/Uncleared)
☐ Other: _____

## *Prohibited Activities*

16. ☒ I am aware that the following activities are prohibited on the Recharge Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 of this title (relating to Underground Injection Control);

(2) New feedlot/concentrated animal feeding operations, as defined in 30 TAC §213.3;

(3) Land disposal of Class I wastes, as defined in 30 TAC §335.1;

(4) The use of sewage holding tanks as parts of organized collection systems; and

(5) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41(b), (c), and (d) of this title (relating to Types of Municipal Solid Waste Facilities).

(6) New municipal and industrial wastewater discharges into or adjacent to water in the state that would create additional pollutant loading.

17. ☒ I am aware that the following activities are prohibited on the Transition Zone and are not proposed for this project:

(1) Waste disposal wells regulated under 30 TAC Chapter 331 (relating to Underground Injection Control);

(2) Land disposal of Class I wastes, as defined in 30 TAC §335.1; and

(3) New municipal solid waste landfill facilities required to meet and comply with Type I standards which are defined in §330.41 (b), (c), and (d) of this title.

## *Administrative Information*

18. The fee for the plan(s) is based on:

☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
☐ For a UST Facility Plan or Modification or an AST Facility Plan or Modification, the total number of tanks or piping systems.
☐ A request for an exception to any substantive portion of the regulations related to the protection of water quality.
☐ A request for an extension to a previously approved plan.

19. ☒ Application fees are due and payable at the time the application is filed. If the correct fee is not submitted, the TCEQ is not required to consider the application until the correct fee is submitted. Both the fee and the Edwards Aquifer Fee Form have been sent to the Commission's:

☐ TCEQ cashier
☐ Austin Regional Office (for projects in Hays, Travis, and Williamson Counties)
☒ San Antonio Regional Office (for projects in Bexar, Comal, Kinney, Medina, and Uvalde Counties)

20. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

21. ☒ No person shall commence any regulated activity until the Edwards Aquifer Protection Plan(s) for the activity has been filed with and approved by the Executive Director.


**LEGEND**

- DRAINAGE AREA BOUNDARY
- 2000' DOWNSTREAM
- Tc FLOW PATH
- FLOW DIRECTION
- CITY OF SAN ANTONIO (COSA) AND ETJ BOUNDARY

N

SCALE: 1"=600'

0 600 1200

# MRW SMITHSON VALLEY

26325 SMITHSON VALLEY ROAD

SAN ANTONIO, TX, 78261

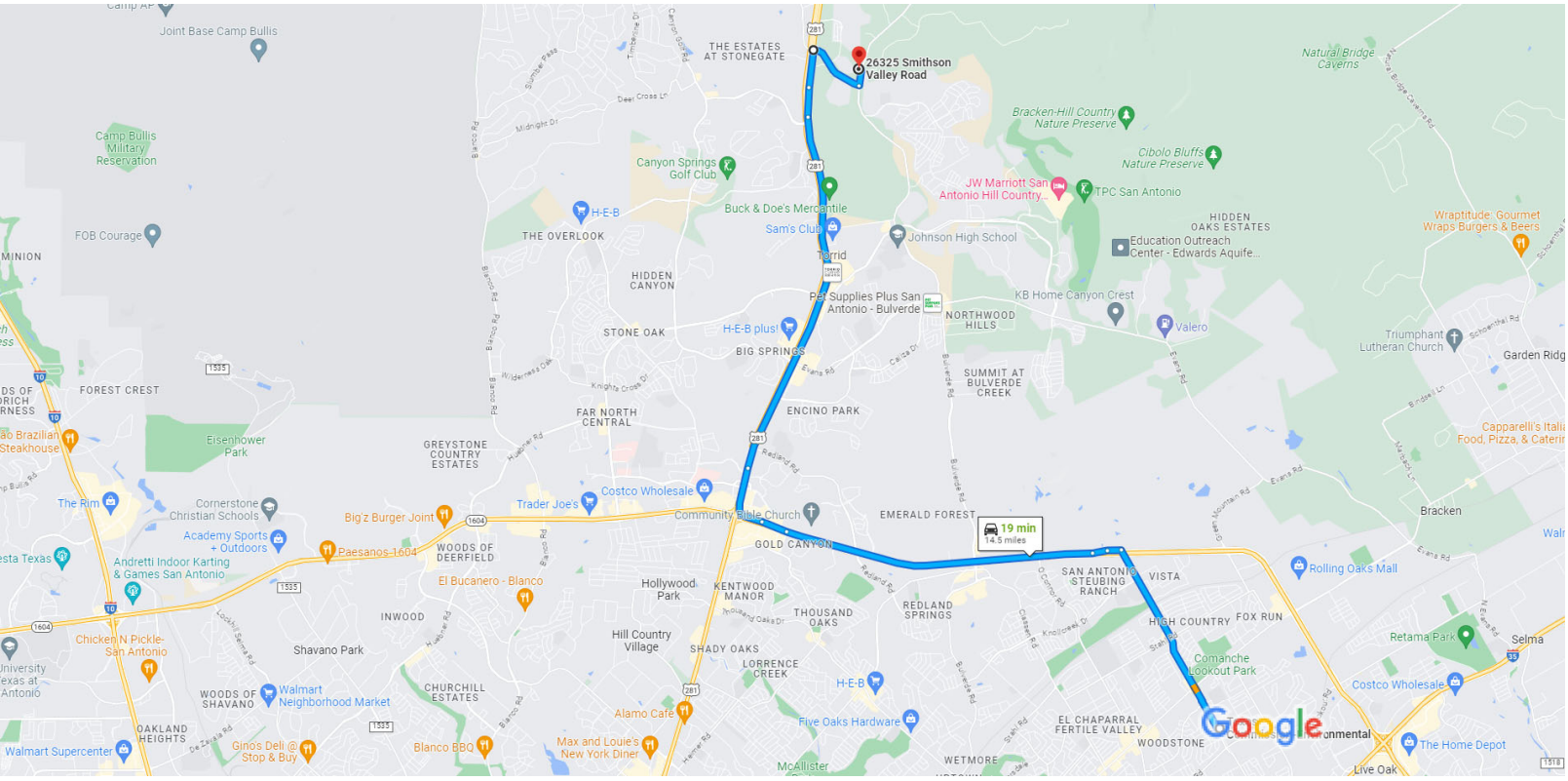
ROAD MAP

| | |
|---|---|
| SHEET: | ATTACHMENT A |
| DATE: | 7.11.2023 |

Google Maps

# Texas Commission-Environmental, 14250 Judson Rd, San Antonio, TX 78233 to 26325 Smithson Valley Rd, San Antonio, TX 78261

Drive 14.5 miles, 19 min




Map data ©2023 Google 1 mi

**Texas Commission-Environmental**
14250 Judson Rd, San Antonio, TX 78233

## Get on TX-1604 Loop W from Judson Rd

7 min (3.0 mi)

1. Head southeast toward Judson Rd

115 ft

2. Turn right toward Judson Rd

85 ft

3. Turn right onto Judson Rd
   Pass by AutoZone Auto Parts (on the right in 0.6 mi)

2.6 mi

4. Use the left lane to turn left onto N Loop 1604 E

0.2 mi

5. Use the left lane to take the ramp onto TX-1604 Loop W

0.2 mi

## Continue on TX-1604 Loop W. Take US-281 S/U.S. Hwy 281 N to Bulverde Rd

10 min (10.6 mi)

6. Merge onto TX-1604 Loop W

3.9 mi

7. Use the right 2 lanes to take the US-281 S exit toward Airport/San Antonio

0.3 mi

8. Slight right

0.9 mi

9. Merge onto US-281 S/U.S. Hwy 281 N

4.6 mi

10. Take the ramp

0.4 mi

11. Keep right

0.5 mi

**Continue on Bulverde Rd. Drive to Smithson Valley Rd**

2 min (1.0 mi)

12. Turn right onto Bulverde Rd

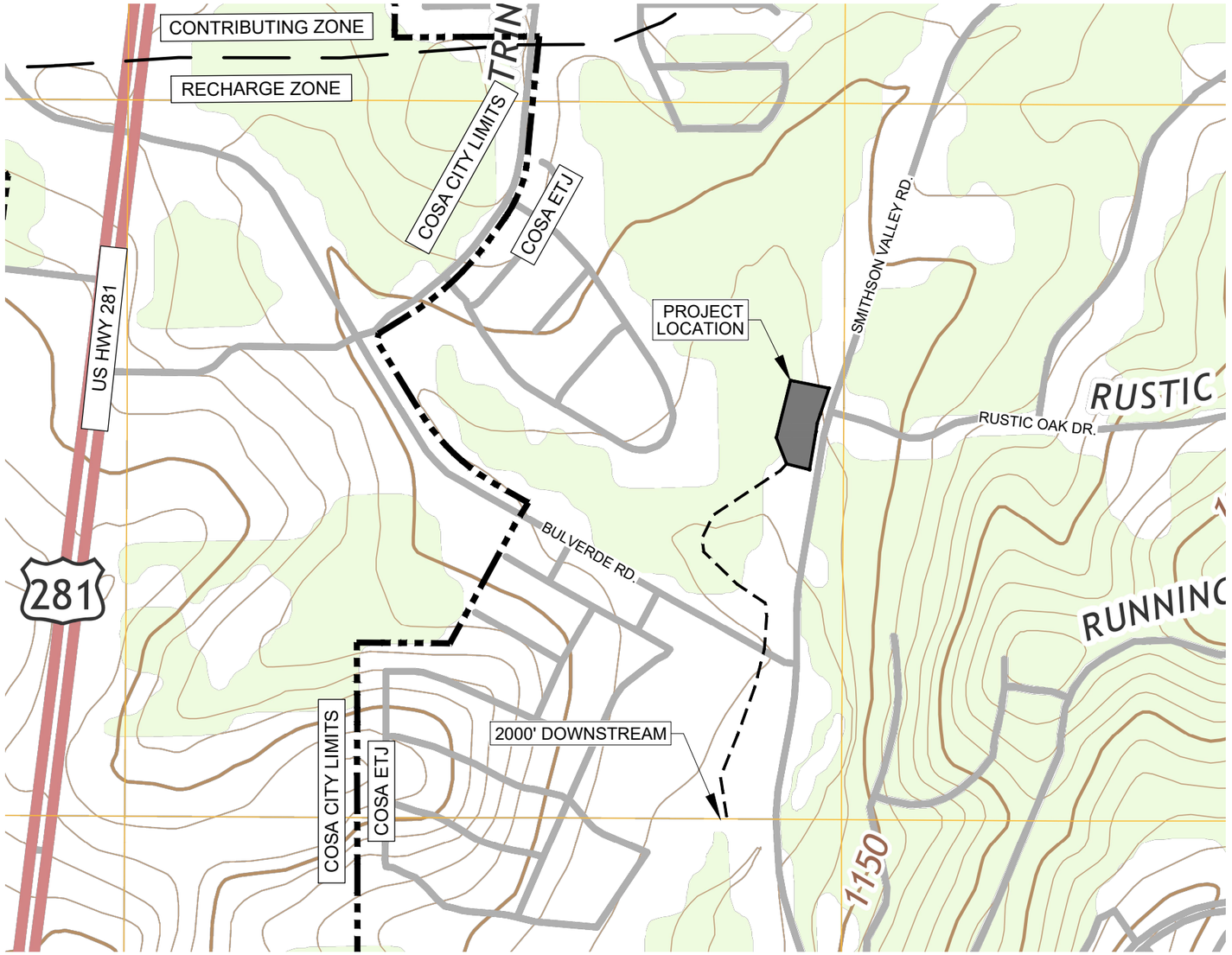
0.8 mi

13. Turn left onto Smithson Valley Rd

Destination will be on the left

0.2 mi

**26325 Smithson Valley Rd**
San Antonio, TX 78261




**LEGEND**

- DRAINAGE AREA BOUNDARY
- 2000' DOWNSTREAM
- Tc FLOW PATH
- FLOW DIRECTION
- CITY OF SAN ANTONIO (COSA) AND ETJ BOUNDARY

N

SCALE: 1"=600'

0 600 1200

# MRW SMITHSON VALLEY - FIREWORKS SUPERSTORE

26325 SMITHSON VALLEY ROAD

SAN ANTONIO, TX, 78261

BULVERDE QUAD - USGS MAP

| | |
|---|---|
| SHEET: | ATTACHMENT B |
| DATE: | 7.11.2023 |

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

# Attachment C- Project Description

## Existing Development:

MRW Smithson Valley is a 1.4187-acre tract of undeveloped land located at 26235 Smithson Valley Road on the single commercial lot. That includes 0.784 acres of floodplain and floodplain buffer that is undevelopable. There is a portion of the rear of the site that includes the FEMA 100 Year Floodplain as per 48029C0130G Firm Map. The site has numerous trees and underbrush with some previous clearing work and gravel placement along the street right of way for an existing fireworks stand. All of the gravel was placed by the Bexar County Maintenance crew as they used the right of way to park large maintenance trucks. Some areas of compacted soil has occurred during the limited use of the temporary fireworks sales. There is approximately 2,050 SF of impervious cover on the site today outside of the gravel in the right of way.

Here is a timeline of the property development associated with the following images:

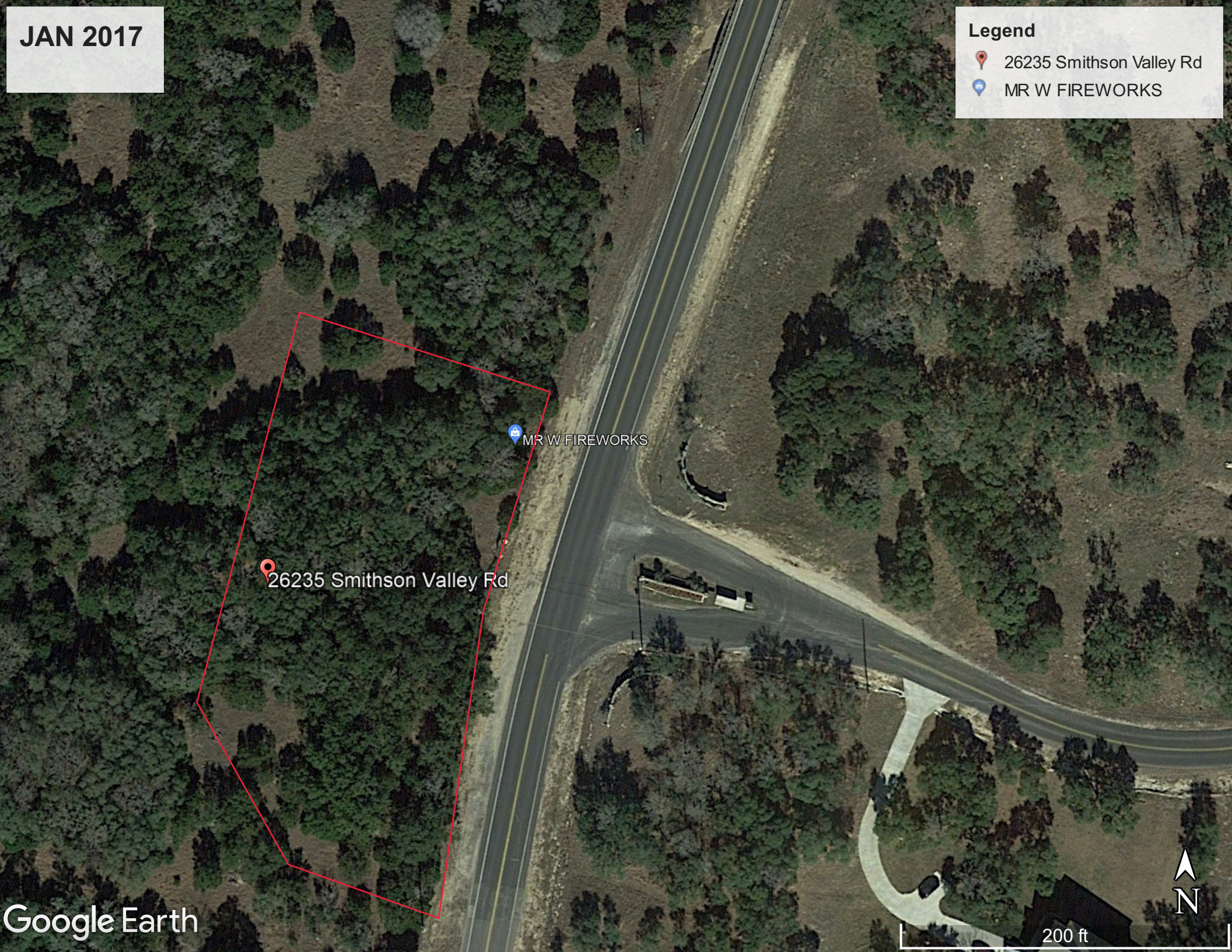
- **August 2017** – Team Kam Enterprises, Ltd purchases property
- **Late 2017** – Team Kam Enterprises, Ltd places one single Mr. W Fireworks stand on the far northwest corner of the property with minimal underbrush clearing. *See images from Google Earth “Jan 2017” before the purchase and “Jan 2018” for after the clearing and placement of the stand.
- **Nov 2019** – Fireworks stand located with numerous maintenance trucks located along the right of way
- **Oct 2021**
- **Jan 2022** – Gravel placed by Bexar County Maintenance as shown on Google street view images
- **Jun 2022** – Additional gravel placed and sweepers from Bexar County Maintenance
- **Apr 2023** – Additional gravel placed in pile near the stand

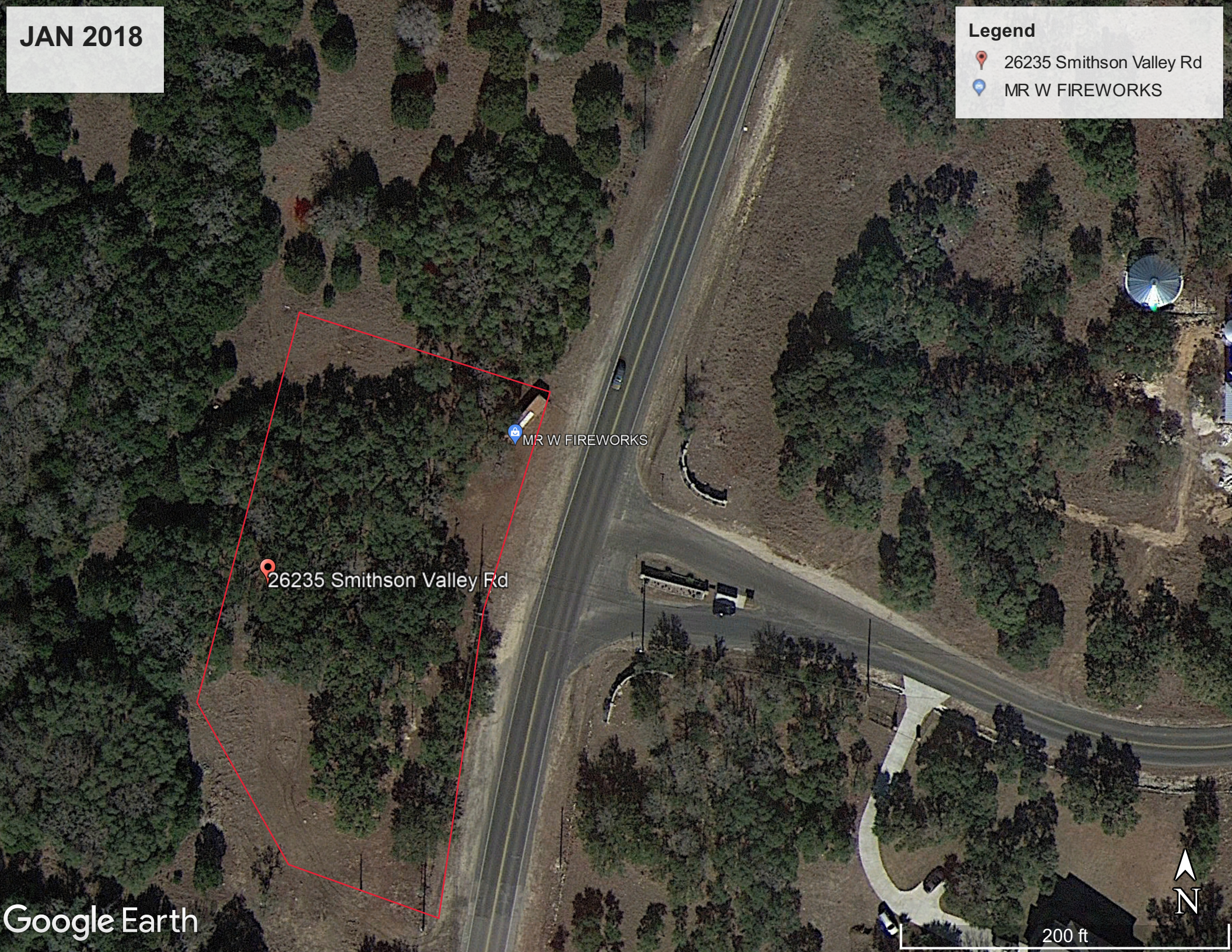
## Proposed Development:

The proposed project is to construct a 4,500 SF metal fireworks retail indoor building with a gravel parking lot and concrete ADA parking spaces. In addition to this construction, a 16” water main is required by SAWS to be extended north along Smithson Valley Road. The project will include a total of 9,125 SF (0.21 AC) of impervious over the 1.4187 ac tract.

As stated within the Permanent Stormwater section, we are requesting a waiver to the rules which require permanent BMP's to treat the runoff from the site. The total impervious cover is 14.77% of the site, the impervious cover is located at the high end of the property outside of the floodplain and floodplain buffer which enables runoff to drain through an undisturbed natural area prior to entering the floodplain. Please note that the San Antonio Water System has determined this is a Category 3 site, therefore additional impervious cover will not be allowed in the future.

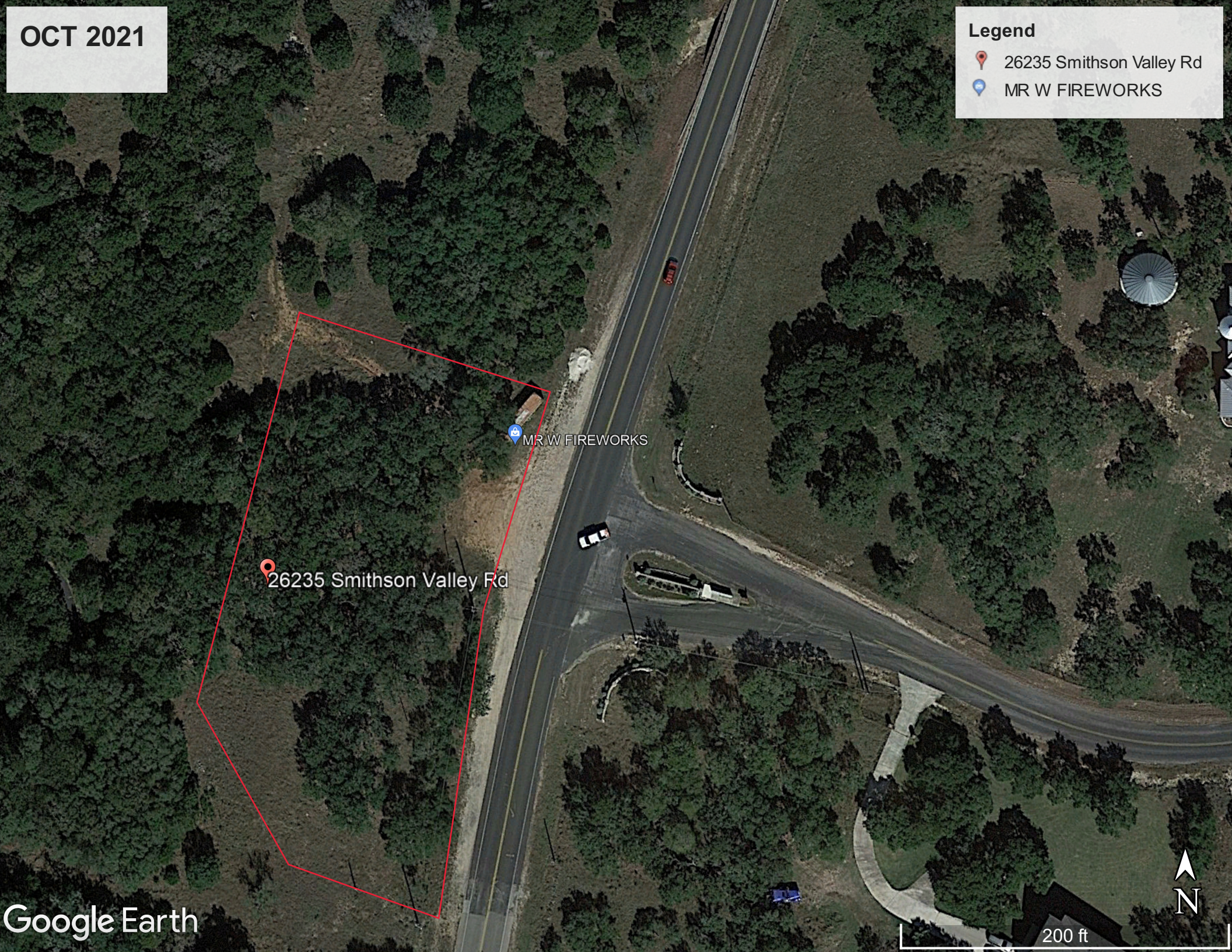
As shown on the WPAP site plan, the graveled area and fireworks stand will be removed and topped with 6" of top soil and sod. The project includes the construction of a water main extension and fire hydrant installation that can be used to establish vegetation with an approved fire hydrant meter from SAWS.


JAN 2017
Legend
26235 Smithson Valley Rd
MR W FIREWORKS
MR W FIREWORKS
26235 Smithson Valley Rd
Google Earth
N
200 ft


JAN 2018
Legend
26235 Smithson Valley Rd
MR W FIREWORKS
MR W FIREWORKS
26235 Smithson Valley Rd
N
200 ft
Google Earth

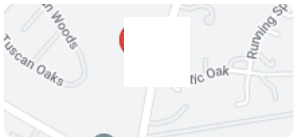

NOV 2019
Legend
26235 Smithson Valley Rd
MR W FIREWORKS
MR W FIREWORKS
26235 Smithson Valley Rd
Google Earth
N
200 ft


DEC 2020
Legend
26235 Smithson Valley Rd
MR W FIREWORKS
MR W FIREWORKS
26235 Smithson Valley Rd
Google Earth
N
200 ft


OCT 2021
Legend
26235 Smithson Valley Rd
MR W FIREWORKS
MR W FIREWORKS
26235 Smithson Valley Rd
Google Earth
N
200 ft

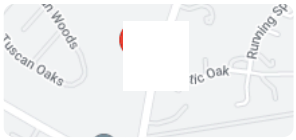
Google Maps 26655 Smithson Valley Rd


Image capture: Jun 2022 © 2023 Google



Google Maps 26500 Smithson Valley Rd


Image capture: Jan 2022 © 2023 Google



# APR 2023 STREET

F-22385

# GEOLOGIC ASSESSMENT SECTION

# Geologic Site Assessment (WPAP)

for Regulated Activities / Development
on the Edwards Aquifer Recharge / Transition Zone

## Mr. W Smithson Valley Road Tract
## Lot 14, Block 1 - 1.41 Acres
## San Antonio, Texas

**Frost GeoSciences Control # FGS-E22153**

**June 1, 2022**

Prepared exclusively for

Mr. W Fireworks, Inc.
P.O. Box 114
Somerset, Texas 78069


Frost GeoSciences
Geotechnical ▪ Construction Materials
Forensics ▪ Environmental

13406 Western Oak• Helotes, Texas 78023 Phone: (210) 372•1315 Fax: (210) 372-1318

Frost GeoSciences
Geotechnical • Construction Materials
Testing • Environmental

13406 Western Oak
Helotes, Texas 78023
Phone (210) 372-1315
Fax (210) 372-1318
www.frostgeosciences.com
TBPE Firm Registration # F-9227
TBPG Firm Registration # 50040

June 1, 2022

Mr. W Fireworks, Inc.
1751 A West Diehl Road
Somerset, Texas 78069

Attn: Mr. Joseph Tober

Re: Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Mr. W Smithson Valley Road Tract, Lot 14, Block 1 - 1.41 Acres
San Antonio, Texas

Frost GeoSciences, Inc. Control # FGS-E22153

Dear Sir:

Attached is a copy of the Geologic Assessment Report completed for the above referenced project site as it relates to 30 TAC §213.5(b)(3), effective June 1, 1999. Our investigation was conducted and this report was prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The results of our investigation, along with any recommendations for Best Management Practices (BMP's), are provided in the following report.

If you have any questions regarding this report, or if Frost GeoSciences, Inc. may be of additional assistance to you on this project, please feel free to call our office. It has been a pleasure to work with you and we wish to thank you for the opportunity to be of service to you on this project. We look forward to being of continued service.


Sincerely,
Frost GeoSciences, Inc.

Steve Frost, C.P.G., P.G.
President, Senior Geologist

Distribution: (5) Mr. W Fireworks, Inc.

# Table of Contents

# Geologic Assessment

**Texas Commission on Environmental Quality**

For Regulated Activities on The Edwards Aquifer Recharge/transition Zones and Relating to 30 TAC §213.5(b)(3), Effective June 1, 1999

***To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.***

***Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.***

## *Signature*

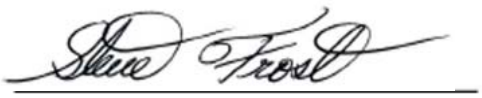
To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. My signature certifies that I am qualified as a geologist as defined by 30 TAC Chapter 213.

Print Name of Geologist: Steve Frost, C.P.G., P.G. Telephone: (210) 372-1315

Date: June 1, 2022 Fax: (210) 372-1318

Representing: Frost GeoSciences, Inc.

Signature of Geologist:




**Regulated Entity Name:** Mr. W Smithson Valley Road Tract

## *Project Information*

1. Date(s) Geologic Assessment was performed: May 15, 2022
2. Type of Project:
   - ☑ WPAP
   - ☐ SCS
   - ☐ AST
   - ☐ UST
3. Location of Project:
   - ☑ Recharge Zone
   - ☐ Transition Zone
   - ☐ Contributing Zone within the Transition Zone

4. ☑ **Attachment A - Geologic Assessment Table**. Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.

5. ☑ Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

**Table 1 - Soil Units, Infiltration Characteristics and Thickness**

| Soil Name | Group* | Thickness(feet) |
|---|---|---|
| Cb | D | 1 |
| | | |
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** Soil Group Definitions (Abbreviated)*

*A. Soils having a high infiltration rate when thoroughly wetted.*
*B. Soils having a moderate infiltration rate when thoroughly wetted.*
*C. Soils having a slow infiltration rate when thoroughly wetted.*
*D. Soils having a very slow infiltration rate when thoroughly wetted.*

6. ☑ **Attachment B – Stratigraphic Column**. A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.

7. ☑ **Attachment C – Site Geology**. A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.

8. ☑ **Attachment D – Site Geologic Map(s)**. The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'

   Applicant's Site Plan Scale: 1" = 20 '
   Site Geologic Map Scale: 1" = 20 '
   Site Soils Map Scale (if more than 1 soil type): 1" = 500 '

9. Method of collecting positional data:

   ☑ Global Positioning System (GPS) technology.
   ☑ Other method(s). Please describe method of data collection: 2020 Aerial Photograph

10. ☑ The project site and boundaries are clearly shown and labeled on the Site Geologic Map.

11. ☑ Surface geologic units are shown and labeled on the Site Geologic Map.

12. ☐ Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.

    ☑ Geologic or manmade features were not discovered on the project site during the field investigation.

13. ☑ The Recharge Zone boundary is shown and labeled, if appropriate.

14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.

    ☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
    - ☐ The wells are not in use and have been properly abandoned.
    - ☐ The wells are not in use and will be properly abandoned.
    - ☐ The wells are in use and comply with 16 TAC Chapter 76.

    ☑ There are no wells or test holes of any kind known to exist on the project site.

## *Administrative Information*

15. ☑ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

# Stratigraphic Column

[Hydrogeologic subdivisions modified from Maclay and Small (1976); groups, formations, and members modified from Rose (1972); lithology modified from Dunham (1962); and porosity type modified from Choquette and Pray (1970). CU, confining unit; AQ, aquifer]

| Hydrogeologic subdivision | | | Group, formation, or member | | | Hydro-logic function | Thickness (feet) | Lithology | Field identification | Cavern development | Porosity/ permeability type |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Upper Cretaceous | Upper confining units | | Eagle Ford Group | | | CU | 30 – 50 | Brown, flaggy shale and argillaceous limestone | Thin flagstones; petroliferous | None | Primary porosity lost/ low permeability |
| | | | Buda Limestone | | | CU | 40 – 50 | Buff, light gray, dense mudstone | Porcelaneous limestone with calcite-filled veins | Minor surface karst | Low porosity/low permeability |
| | | | Del Rio Clay | | | CU | 40 – 50 | Blue-green to yellow-brown clay | Fossiliferous; *Ilymatogyra arietina* | None | None/primary upper confining unit |
| Lower Cretaceous | I | Edwards aquifer | Georgetown Formation | | | Karst AQ; not karst CU | 2 – 20 | Reddish-brown, gray to light tan marly limestone | Marker fossil; *Waconella wacoensis* | None | Low porosity/low permeability |
| | II | | Edwards Group | Person Formation | Cyclic and marine members, undivided | AQ | 80 – 90 | Mudstone to packstone; *miliolid* grainstone; chert | Thin graded cycles; massive beds to relatively thin beds; crossbeds | Many subsurface; might be associated with earlier karst development | Laterally extensive; both fabric and not fabric/water-yielding |
| | III | | | | Leached and collapsed members, undivided | AQ | 70 – 90 | Crystalline limestone; mudstone to grainstone; chert; collapsed breccia | Bioturbated iron-stained beds separated by massive limestone beds; stromatolitic limestone | Extensive lateral development; large rooms | Majority not fabric/one of the most permeable |
| | IV | | | | Regional dense member | CU | 20 – 24 | Dense, argillaceous mudstone | Wispy iron-oxide stains | Very few; only vertical fracture enlargement | Not fabric/low permeability; vertical barrier |
| | V | | | Kainer Formation | Grainstone member | AQ | 50 – 60 | *Miliolid* grainstone; mudstone to wackestone; chert | White crossbedded grainstone | Few | Not fabric/ recrystallization reduces permeability |
| | VI | | | | Kirschberg evaporite member | AQ | 50 – 60 | Highly altered crystalline limestone; chalky mudstone; chert | Boxwork voids, with neospar and travertine frame | Probably extensive cave development | Majority fabric/one of the most permeable |
| | VII | | | | Dolomitic member | AQ | 110 – 130 | Mudstone to grainstone; crystalline limestone; chert | Massively bedded light gray, *Toucasia* abundant | Caves related to structure or bedding planes | Mostly not fabric; some bedding plane-fabric/water-yielding |
| | VIII | | | | Basal nodular member | Karst AQ; not karst CU | 50 – 60 | Shaly, nodular limestone; mudstone and *miliolid* grainstone | Massive, nodular and mottled, *Exogyra texana* | Large lateral caves at surface; a few caves near Cibolo Creek | Fabric; stratigraphically controlled/large conduit flow at surface; no permeability in subsurface |
| | Lower confining unit | | Upper member of the Glen Rose Limestone | | | CU; evaporite beds AQ | 350 – 500 | Yellowish tan, thinly bedded limestone and marl | Stair-step topography; alternating limestone and marl | Some surface cave development | Some water production at evaporite beds/relatively impermeable |

## GEOLOGIC ASSESSMENT TABLE

**PROJECT NAME:** Mr. W Smithson Valley Road Tract FGS-E22153

| LOCATION | | | FEATURE CHARACTERISTICS | | | | | | | | | | | | EVALUATION | | | PHYSICAL SETTING | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2* | 3* | 2A | 2B | 3 | 4 | | | 5 | 5A | 6 | 7 | 8A | 8B | 9 | 10 | | 11 | | 12 |
| FEATURE | LATITUDE | LONGITUDE | FEATURE TYPE | POINTS | FORMATION | DIMENSIONS (FEET) | | | TREND (DEGREES) | DOM | DENSITY (NO/FT²) | APERTURE (FEET) | INFILL | RELATIVE INFILTRATION RATE | TOTAL | SENSITIVITY | | CATCHMENT AREA (ACRES) | | TOPOGRAPHY |
| | | | | | | X | Y | Z | | 10 | | | | | | < 40 | > 40 | <1.6 | >1.6 | |
| | | | | | | | | | | | | | | | | | | | | |
| There were no obvious visual indications of natural or manmade karst features noted on the site at the time of the site inspection. | | | | | | | | | | | | | | | | | | | | |
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* DATUM 1984 North American Datum (NAD83)

| 2A TYPE | TYPE | 2B POINTS |
|---|---|---|
| C | Cave | 30 |
| SC | Solution Cavity | 20 |
| SF | Solution-enlarged fracture(s) | 20 |
| F | Fault | 20 |
| O | Other natural bedrock features | 5 |
| MB | Manmade feature in bedrock | 30 |
| SW | Swallow Hole | 30 |
| SH | Sinkhole | 20 |
| CD | Non-karst closed depression | 5 |
| Z | Zone, clustered or aligned features | 30 |

| 8A INFILLING | |
|---|---|
| N | None, exposed bedrock |
| C | Coarse - cobbles, breakdown, sand, gravel |
| O | Loose or soft mud or soil, organics, leaves, sticks, dark colors |
| F | Fines, compacted clay-rich sediment, soil profile, gray or red colors |
| V | Vegetation. Give details in narrative description |
| FS | Flowstone, cements, cave deposits |
| X | Other materials |

12 TOPOGRAPHY
Cliff, Hilltop, Hillside, Drainage, Floodplain, Streambed

I have read, I understood and I have followed the Texas Commission on Environmental Quality's Instructions to Geologists. The information presented here complies with that document and is a true representation of the conditions observed in the field. My signature certifies that I am qualified as a geologist as defined by 30 TAC 213.

Signature Steve M. Frost Date June 1, 2022 Sheet 1 of 1

STATE OF TEXAS
Steve M. Frost
Geology
License No. 315
PROFESSIONAL GEOSCIENTIST / LICENSED

## LOCATION

The project site consists of 1.41 Acres located immediately west of the intersection of Smithson Valley Road and Rustic Oak in San Antonio, Texas. An overall view of the area is shown on copies of the site plan, a street map, the USGS Topographic Map, the Official Edwards Aquifer Recharge Zone Map, the Flood Insurance Rate Map (FIRM), a 1959 aerial photograph at a scale of 1"=500', a geologic map, a 2020 aerial photograph at a scale of 1"=500', and a 2020 aerial photograph at a scale of 1"=200', Plates 1 through 9 in Appendix A.

## METHODOLOGY

The Geologic Assessment was performed by Mr. Steve Frost, C.P.G., President and Senior Geologist with Frost GeoSciences, Inc. Mr. Frost is a Licensed Professional Geoscientist in the State of Texas (License # 315) and is a Certified Professional Geologist with the American Institute of Professional Geologist (Certification # 10176).

Frost GeoSciences, Inc. researched the geology of the area in the immediate vicinity of the project site. The research included, but was not limited to the Geologic Atlas of Texas, San Antonio Sheet, the Geologic Map of the 30x60 Quadrangle Map of New Braunfels, Texas, FIRM maps, Edwards Aquifer Recharge Zone Maps, USGS 7.5 Minute Quadrangle Maps, and the USDA Soil Survey of Bexar County, Texas.

After reviewing the available information, a field investigation was performed to identify any geologic or man-made potential recharge features. A transect spacing of approximately 50 feet or less, depending on vegetation thickness, was used to inspect the project site. A 2020 aerial photograph, in conjunction with a hand held Global Positioning System with an Estimated Potential Error of 10 feet was used to navigate around the property and identify the locations of potential recharge features, as recommended in the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04). The locations of any potential recharge features noted in the field

were identified with blue and white flagging. The flagging is numbered with the same potential recharge feature I.D. # that is used on the Site Geologic Map in Appendix C of this report. The Site Geologic Map indicating the limits of the project site is included in Appendix C. A copy of a 2020 aerial photograph at an approximate scale of 1"=200', indicating the locations of the potential recharge features, is included on Plate 9 in Appendix A. The Geologic Assessment Form (Rev. 2-11-15), Stratigraphic Column and the Geologic Assessment Table have been filled with the appropriate information for this project site and are included on pages 1-5 of this report.

## RESEARCH & OBSERVATIONS

### 7.5 Minute Quadrangle Map Review

According to the USGS 7.5 Minute Quadrangle Map, Bulverde, Texas Sheet (1988), the elevation of the project site ranges from 1140 feet near the western boundary of the project site to 1145 feet along the eastern boundary of the project site. These elevations are calculated above mean sea level (AMSL). Overall, the surface runoff from the project site flows to the west into Elm Waterhole Creek. Smithson Valley Road is visible immediately east of the project site. Rustic Oak is visible east of the project site. U.S. Highway 281 is visible west of the project site. Bulverde Road is visible south of the project site. A copy of the above referenced USGS 7.5 Minute Quadrangle Map indicating the location of the project site, is included in this report on Plate 3 in Appendix A.

### Recharge / Transition Zone

According to the Official Edwards Aquifer Recharge Zone Map, Bulverde, Texas Sheet (2014), the project site is located within the Recharge Zone of the Edwards Aquifer. A copy of the Official Edwards Aquifer Recharge Zone Map, Bulverde, Texas Sheet (2014), indicating the location of the project site, is included on Plate 4 in Appendix A.

### 100-Year Floodplain

The Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map for Bexar

County, Texas, Community Panel Number 48029C0140G (Revised 9/29/10) was reviewed to determine if the project site is located in areas prone to flooding. A review of the above-mentioned panel indicates that a portion of the project site is located within the 100 year floodplain. The project site is located within Zone A and Zone X. According to the panel legend, Zone A represents areas determined to be within the 100 year floodplain where base flood elevations have not been determined. Zone X represents areas determined to be outside the 0.2% annual chance floodplain. A copy of the Bexar County, Texas, FIRM map, indicating the location of the project site, is included in this report on Plate 5 in Appendix A.

## Soils

According to the United States Department of Agriculture, Soil Conservation Service, Soil Survey of Bexar County, Texas (1982), the project site is located on the Crawford and Bexar Stoney Soils (Cb). A copy of the 1959 aerial photograph (approximate scale: 1"=500') from the USDA Soil Survey of Bexar County, Texas indicating the location of the project site and the soil types is included on Plate 6 in Appendix A.

The Crawford and Bexar Stony Soils (0-5% slopes) (Cb) are very dark grayish brown to reddish brown clay. They are stony clay in texture and are shallow to moderately deep over hard limestone. These soils are extensive in the northern part of the county. The surface very dark gray to dark reddish-brown, noncalcareous clay and is about 8-9" thick. Approximately 10-40% of this layer consists of limestone and chert fragments, with fragment sizes ranging from ¼" to nearly 24" across. The subsurface layer generally contains a few chert fragments of small flags of cherty limestone. This soil is naturally well drained. Internal drainage and permeability vary according to moisture content. Water moves rapidly when the soil is dry and cracked, but very slowly when the soil is wet.

## Narrative Description of the Site Geology

The project site consists of 1.41 Acres located immediately west of the intersection of Smithson Valley Road and Rustic Oak in San Antonio, Texas. An overall view of the area is

shown on Plates 1 through 9 in Appendix A. No natural karst features or manmade features were noted on the project site during the site inspection. Based on a visual inspection of the ground surface the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be low.

The project site is covered by a moderate stand of live oaks and cedar elm with minor amounts of ash juniper. The ground surface supports a moderate stand of native grasses. The variations in the vegetative cover across the project site are visible in the 2020 aerial photographs on Plates 8 and 9 in Appendix A and in the site visit photographs included in Appendix B.

According to the USGS 7.5 Minute Quadrangle Map, Bulverde, Texas Sheet (1988), the elevation of the project site ranges from 1140 feet near the western boundary of the project site to 1145 feet along the eastern boundary of the project site. These elevations are calculated above mean sea level (AMSL). According to topographic data obtained from Mr. W Fireworks the elevation on the project site ranges from 1138 feet in the southwestern corner of the project site to 1144 feet in the northeastern corner of the site. A copy of the site plan, indicating the boundary of the project site and the elevations, is included on Plate 1 in Appendix A and on the Site Geologic Map in Appendix C of this report.

According to the Bureau of Economic Geology, Geologic Map of the New Braunfels, Texas, 30x60 Minute Quadrangle (2000), the project site is located over the Cretaceous Edwards Kainer Limestone (Kek). Based on our site inspection, the project site is located on the Basal Nodular Member of the Cretaceous Edwards Kainer Limestone (Kek).

The Basal Nodular Member of the Edwards Kainer Limestone consists of shaly, nodular limestone, mudstone, and milliolid grainstone. This member is massive, nodular, and mottled with fossils of Exogyra texana. This member typically forms large lateral caves at the surface. Overall thickness ranges from 50 to 60 feet.

A copy of the Bureau of Economic Geology, Geologic Map of the New Braunfels, Texas, 30x60 Minute Quadrangle (2000), indicating the location of the project site, is included on Plate 7 in Appendix A.

## BEST MANAGEMENT PRACTICE (BMP)

**Based on a visual inspection of the ground surface the overall potential for fluid flow from the project site into the Edwards Aquifer appears to be from low.** The potential always exists to encounter subsurface features that lack a surface expression. Frost GeoSciences, Inc. recommends that construction personnel be informed of the potential to encounter subsurface karst features during excavating activities. Construction personnel should also be informed of the proper protocol to follow in the event that a solution cavity and/or cave is encountered during the excavation and development of the property.

## DISCLAIMER

This report has been prepared in general accordance with the "Instructions to Geologists", TCEQ-0585-Instructions (Rev. 10-1-04) by a Licensed Texas Professional Geoscientist. All areas of the project site were carefully inspected for features that could contribute to the recharge of the Edwards Aquifer, however, this survey cannot preclude the presence of subsurface karst features that lack surface expression. This report is not intended to be a definitive investigation of all possible geologic or karst features at this site. All conclusions, opinions and recommendations for Best Management Practices (BMP's) in this report are based on information obtained while researching the project and on the site conditions at the time of our field investigation.

This report has been prepared for and may be relied upon by Mr. W Fireworks, Inc. This report is based on available known records, a visual inspection of the project site and the work generally accepted for a Geologic Assessment TAC §213.5(b)(3), effective June 1, 1999.

## REFERENCES

1) USGS 7.5 Minute Quadrangle Map, Bulverde, Texas Sheet (1988),

2) Official Edwards Aquifer Recharge Zone Map, Bulverde, Texas Sheet (2014).

3) Federal Emergency Management Agency (FEMA), Bexar County, Texas and Incorporated Areas, Flood Insurance Rate Map (FIRM), Panel 48029C0140G (9/29/10) FEMA, Washington D.C.

4) USDA Soil Conservation Service, Soil Survey of Bexar Countiy, Texas (1966).

5) Stein, W.G., and Ozuna, G.B., 1995, Geologic Framework and Hydrogeologic Characteristics of the Edwards Aquifer Recharge Zone, Bexar County, Texas. U.S. Geological Survey Water Resources Investigations 95-4030.

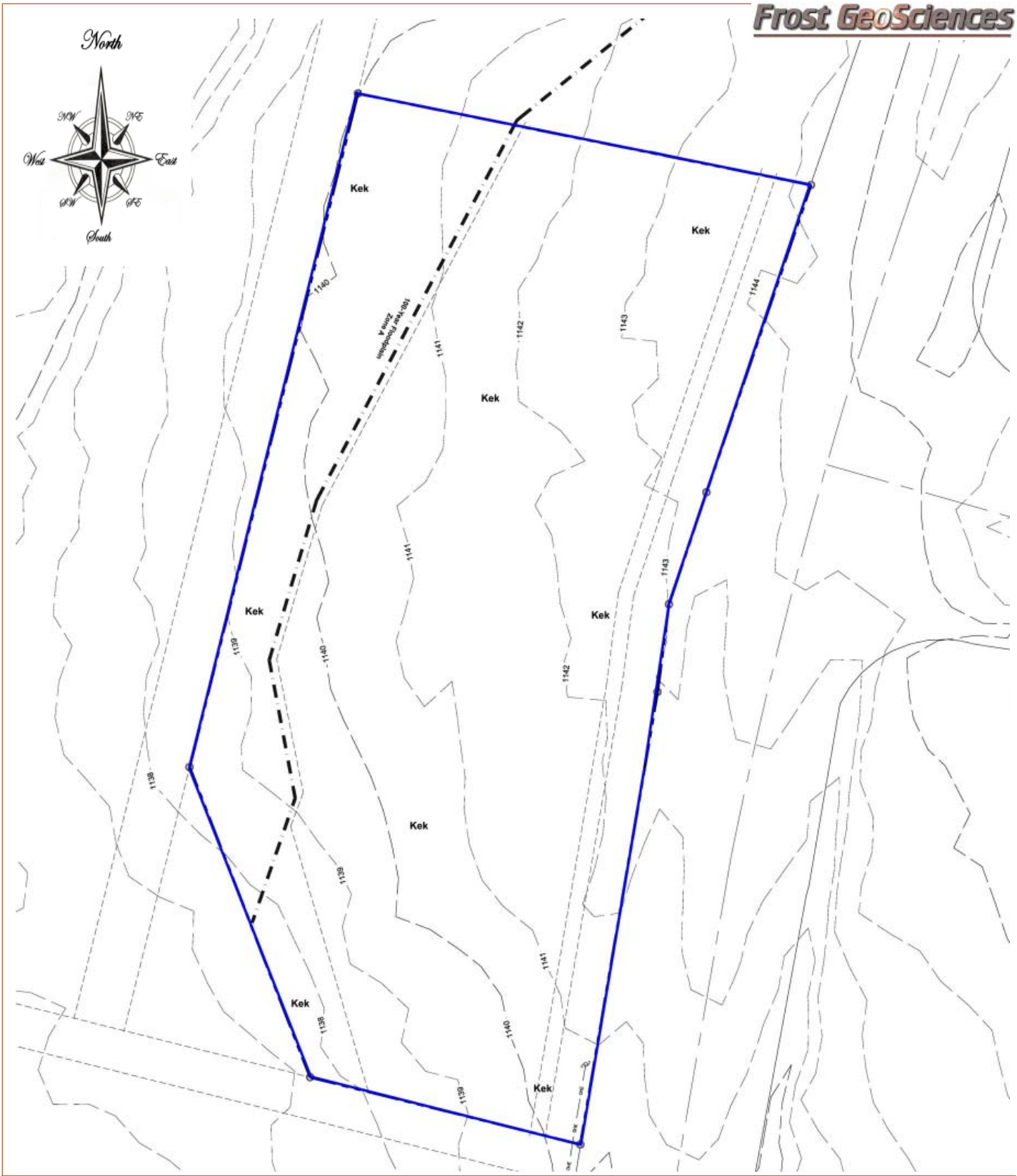
6) Collins, Edward, W., 2000, Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle.

7) TCEQ-0585-Instructions (Rev. 10-1-04). "Instructions to Geologists for Geologic Assessments on the Edwards Aquifer Recharge/Transition Zone".

# Appendix A

## Site Location Plates

Frost GeoSciences



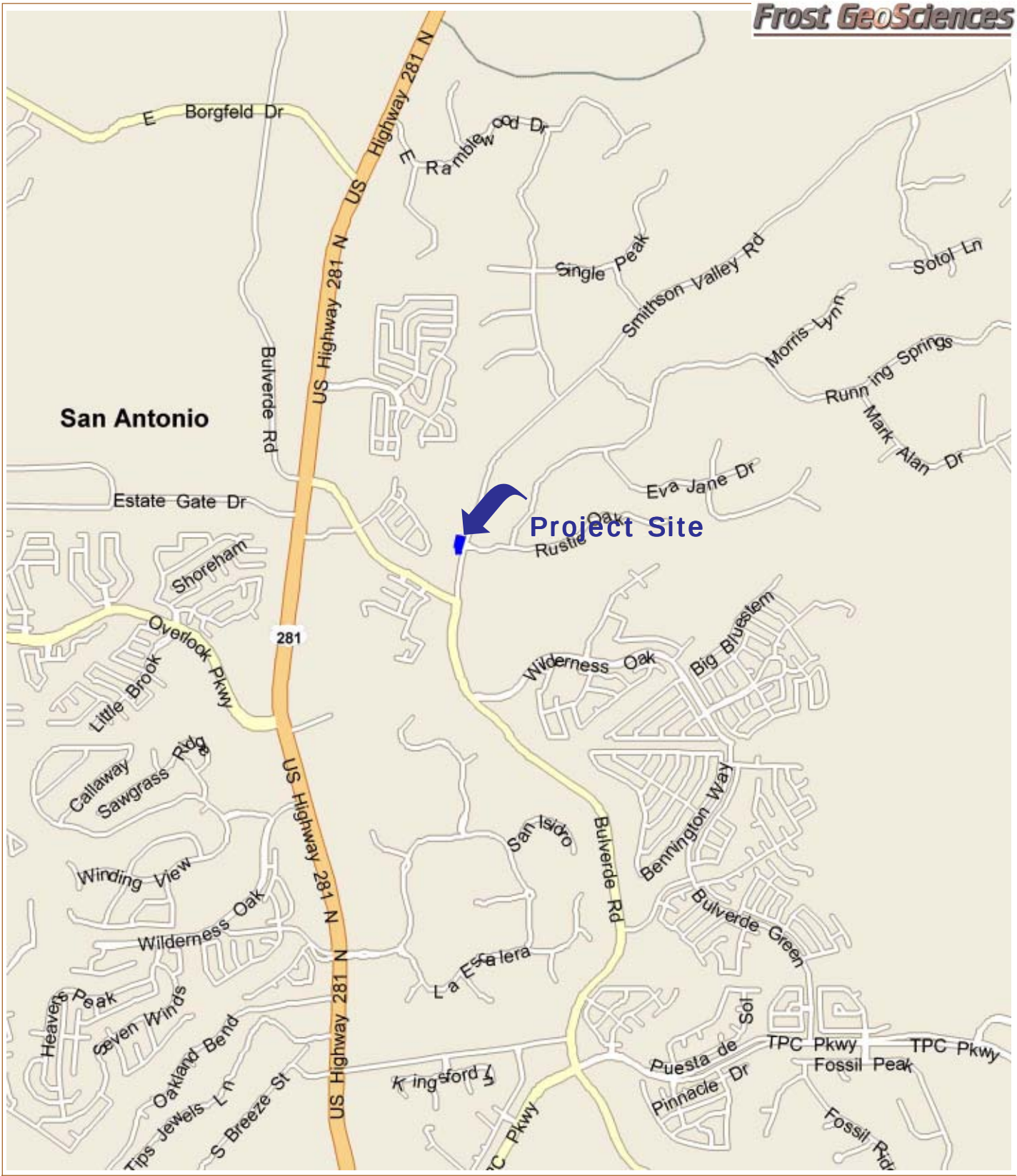

**PROJECT NAME:**

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

# Site Plan

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022




**PROJECT NAME:**
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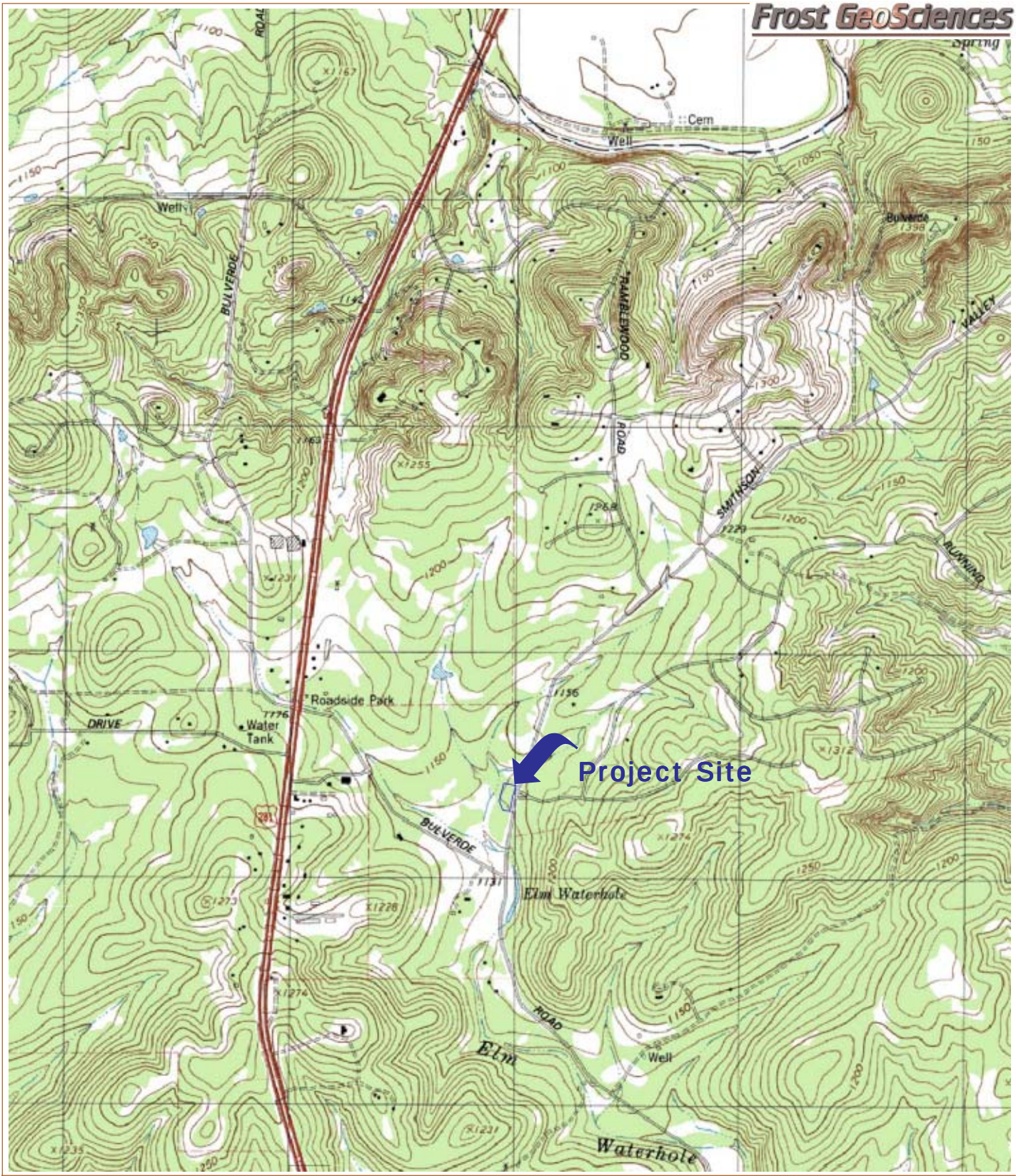
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

## Street Map

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022

Frost GeoSciences

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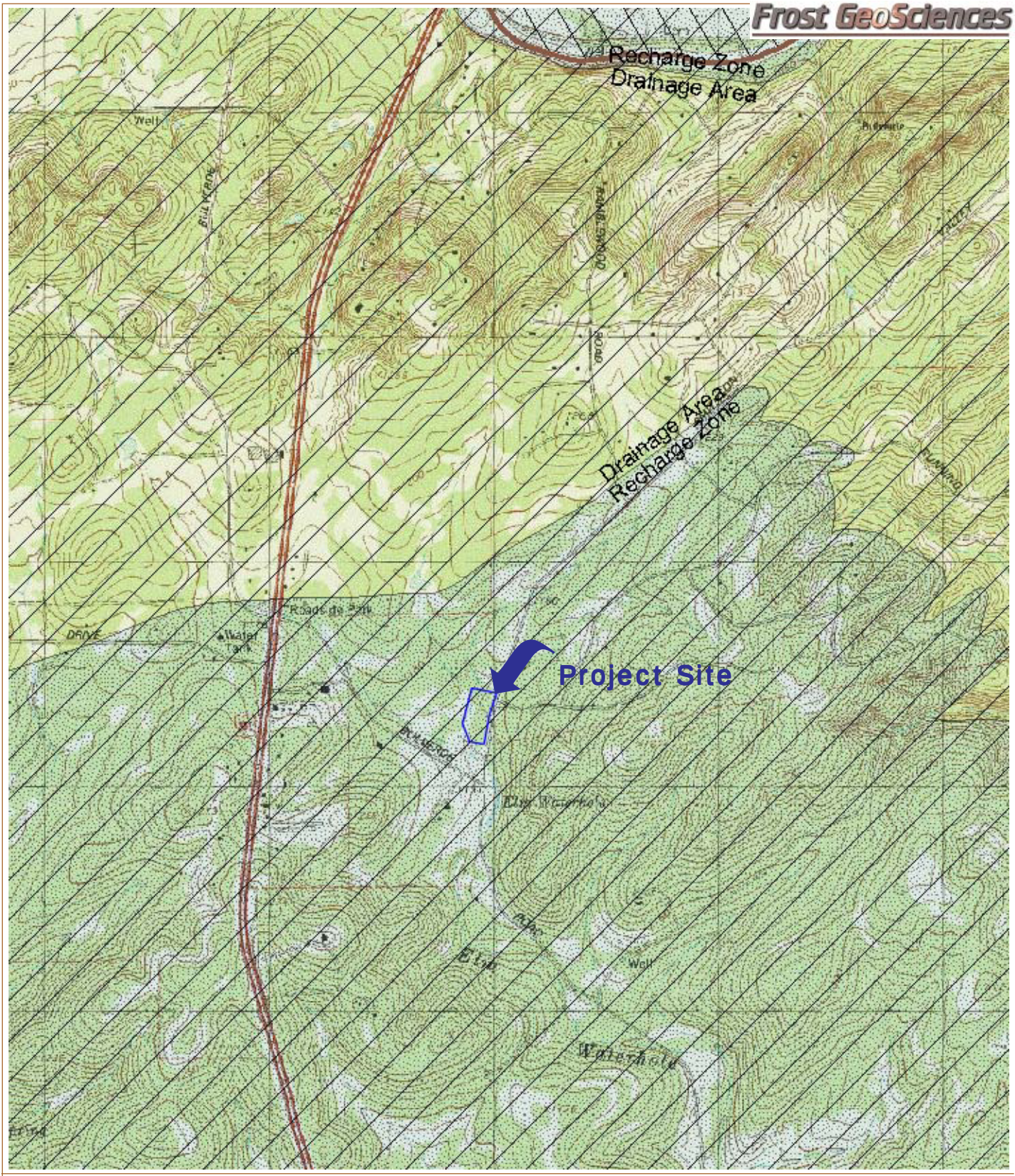
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

U.S.G.S. 7.5 Minute Quadrangle Map
Bulverde, Texas Sheet (1988)

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022

Frost GeoSciences

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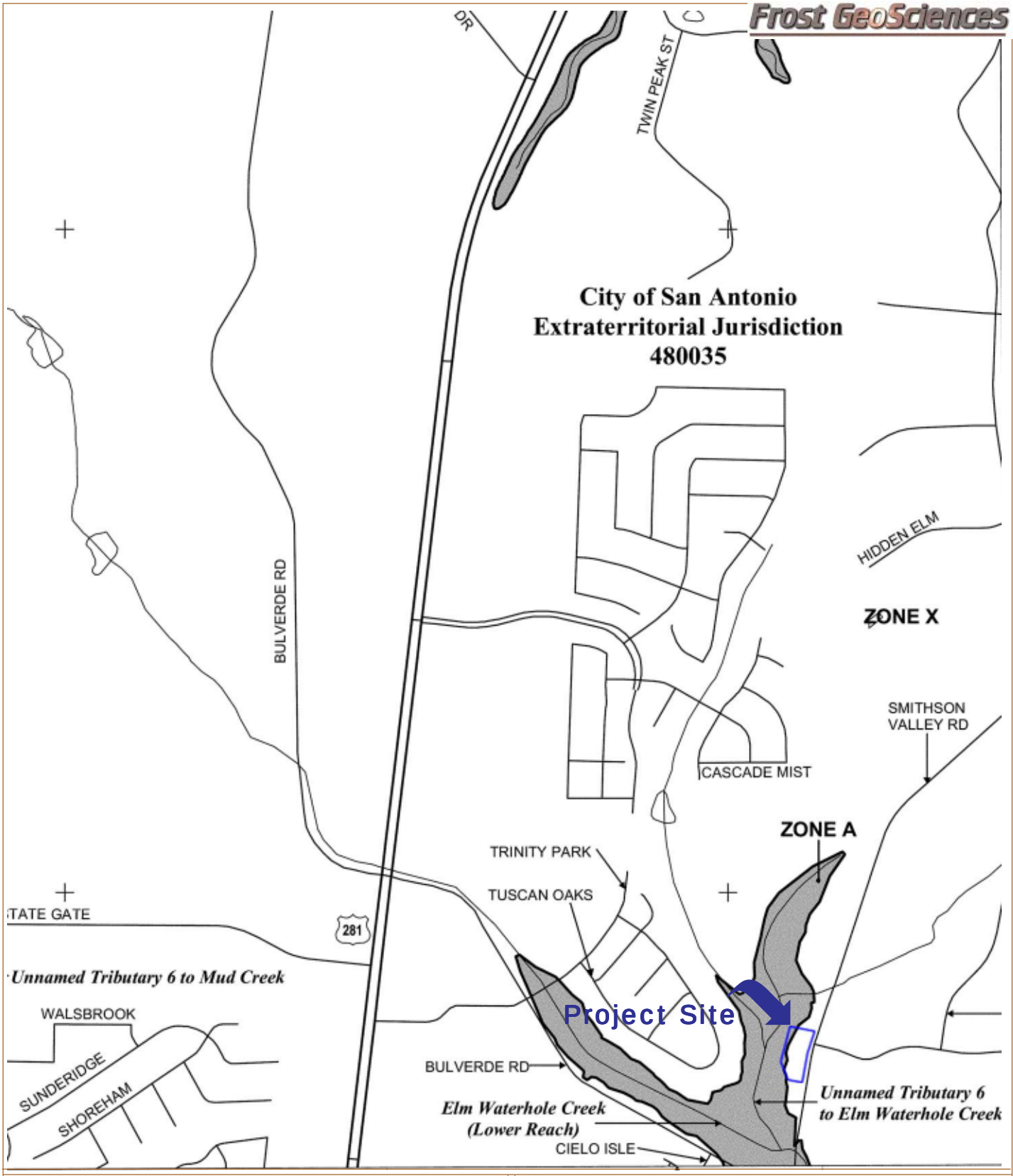
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

Official Edwards Aquifer Recharge Zone Map
Bulverde, Texas Sheet (2014)

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022



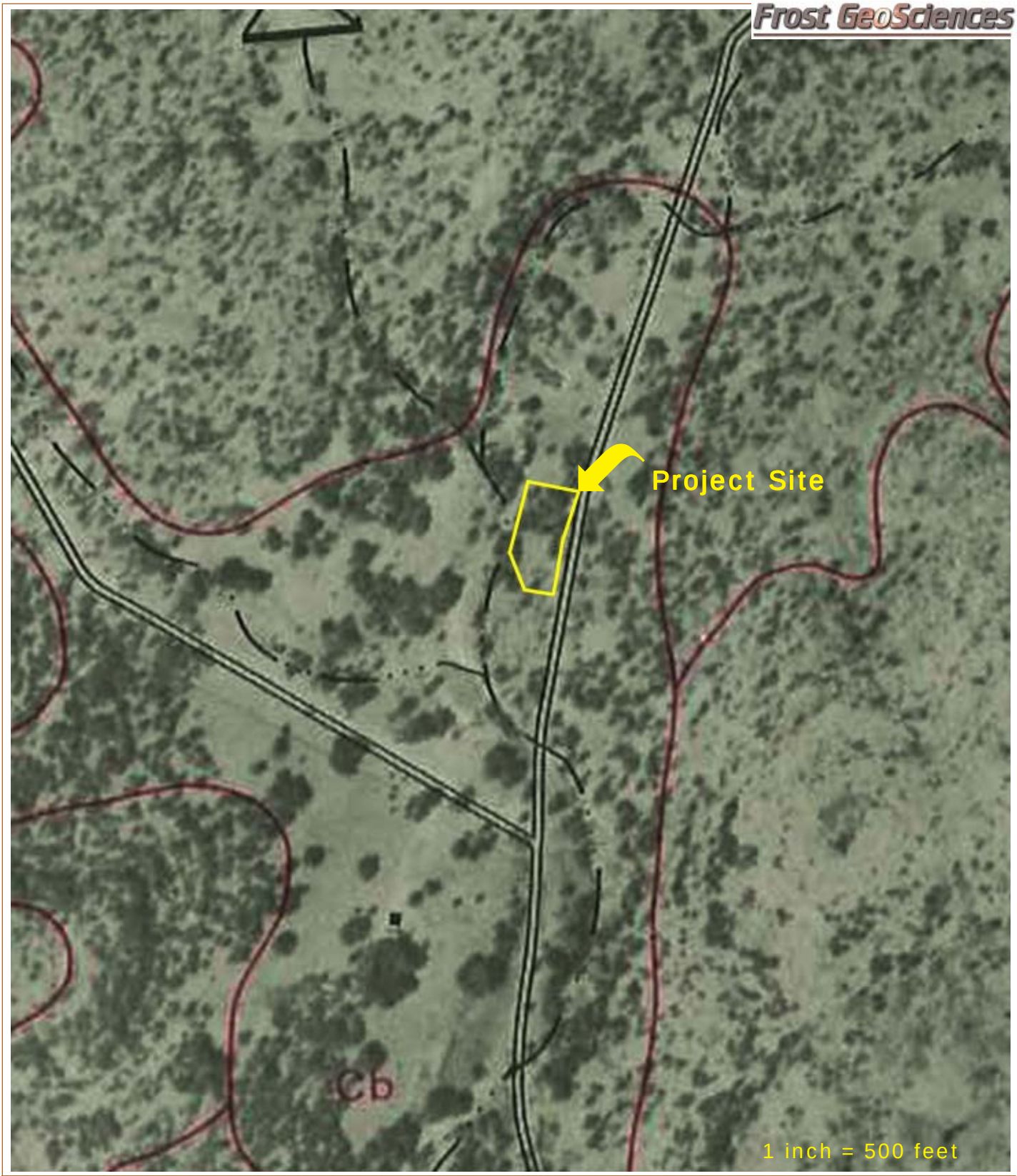

**PROJECT NAME:**
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

Flood Insurance Rate Map (FIRM)
Community Panel # 48029C0140G
(Revised 9/29/10)

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022

Frost GeoSciences



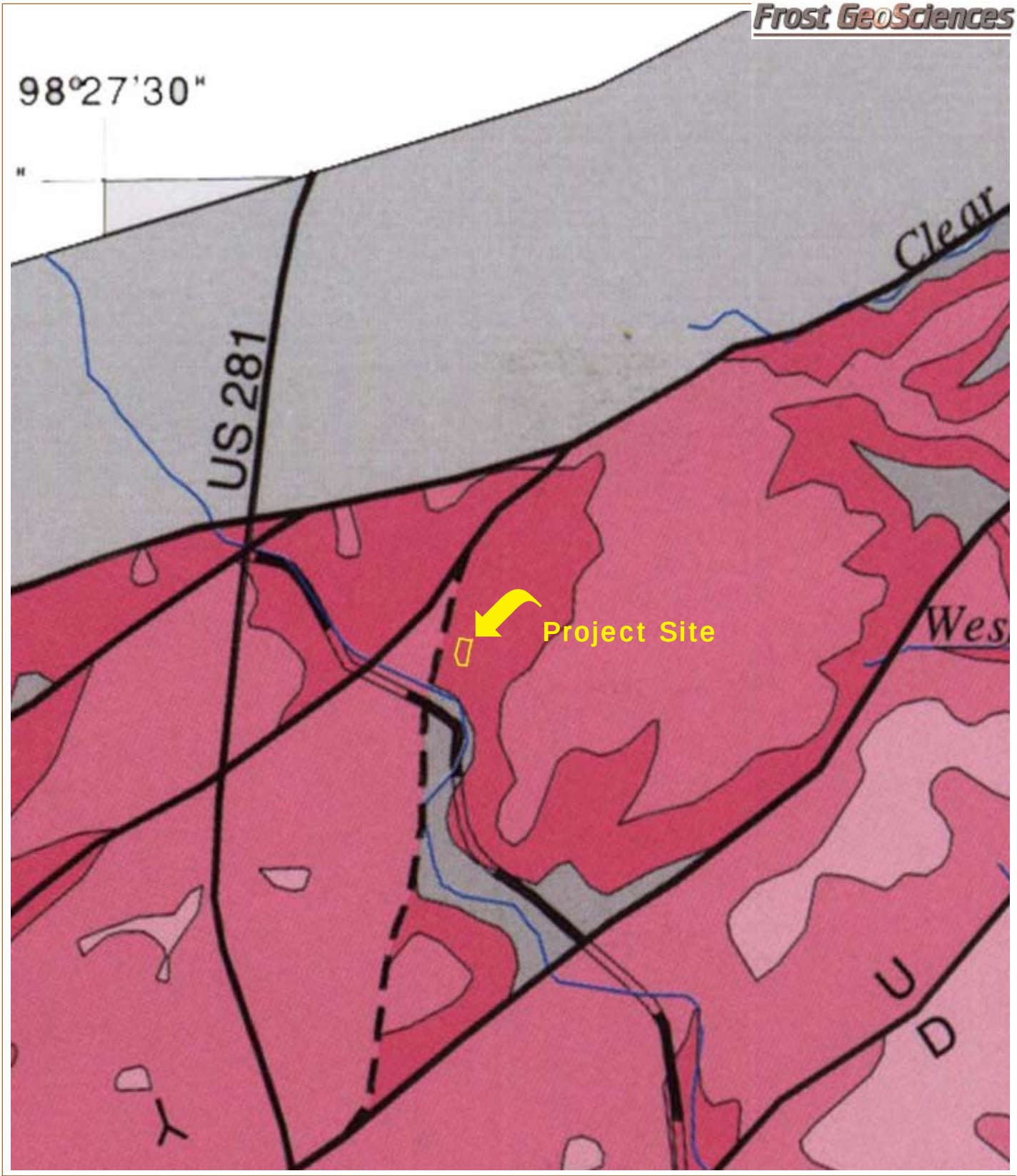

**PROJECT NAME:**
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

# 1959 Aerial Photograph

United States Department of Agriculture

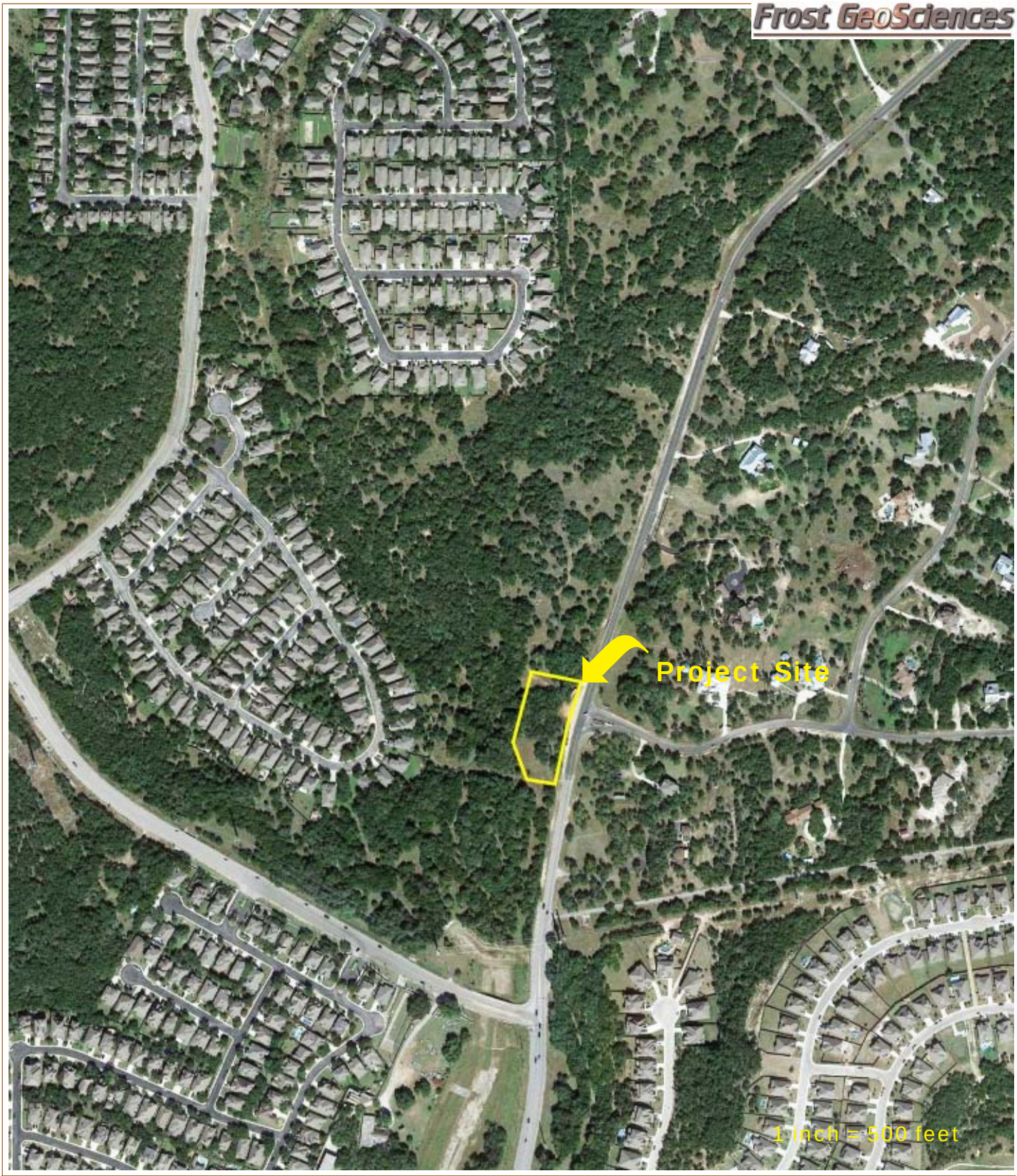
**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022




| PROJECT NAME: | U.S.G.S.Hydrologic Characterizations of the Edwards Aquifer, Bexar County, Texas Report 95-4030 (1995) | |
|---|---|---|
| Geologic Site Assessment (WPAP)<br>for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone<br>Mr. W Smithson Valley Road Tract, 1.41 Acres<br>San Antonio, Texas | PROJECT NO.: FGS-E22153 | DATE: June 1, 2022 |

Frost GeoSciences




**PROJECT NAME:**
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
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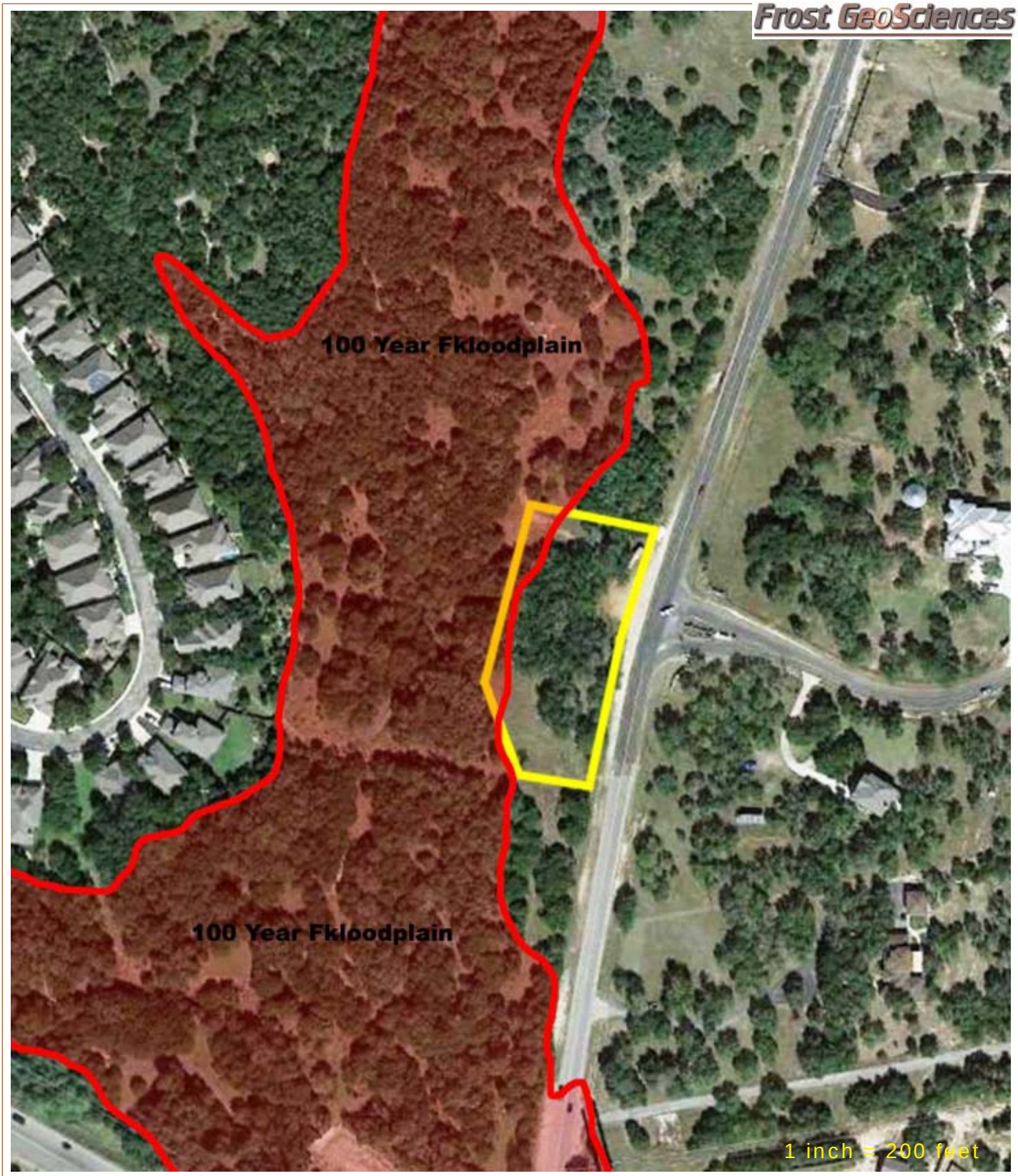
San Antonio, Texas

## 2020 Aerial Photograph
Google Earth

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022

Frost GeoSciences




**PROJECT NAME:**
Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the Edwards Aquifer Recharge / Transition Zone
Mr. W Smithson Valley Road Tract, 1.41 Acres
San Antonio, Texas

2020 Aerial Photograph with PRF's
Google Earth

**PROJECT NO.:** FGS-E22153

**DATE:** June 1, 2022

# Appendix B

## Site Inspection Photographs

View to the west, of the project site along the northern property line.

View to the south, of the project site along the eastern property line.

View to the southwest, of the project site from the northeastern property corner.

View to the north, of the project site along the eastern property line.

View to the west, of the project site along the southern property line.

View to the north, of the project site from the southwestern property corner.

View to the northeast, of the project site from the southwestern property corner.

View to the east, of the project site from the southwestern property corner.

View to the north, of the project site along the western property line.

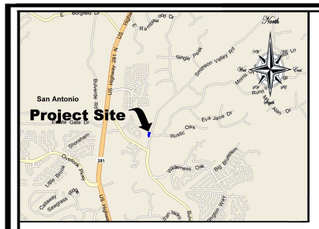
Typical view of vegetative cover in the central portion of the project site.

View to the east, of the project site along the northern property line.

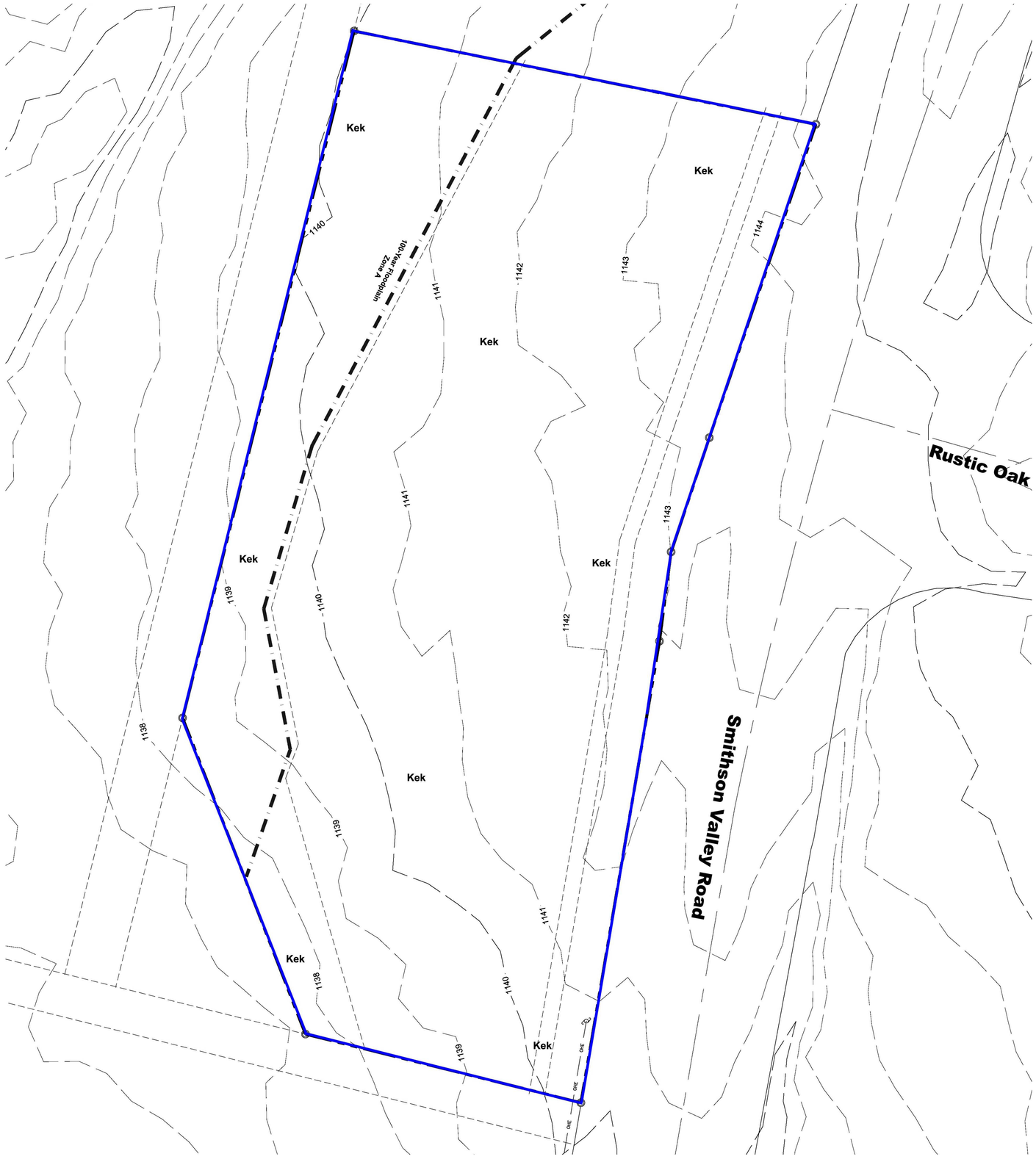
View to the south, of the project site from the northwestern property corner.

# Appendix C

## Site Geologic Map




Location Map




Signature of Texas Licensed Geoscientist
Steve Frost, TPG# 315, AIPG # 10176

STATE OF TEXAS
Steve M. Frost
Geology
License No. 315
LICENSED PROFESSIONAL GEOSCIENTIST

Frost GeoSciences
Geotechnical ▪ Construction Materials
Geologic ▪ Environmental
13406 Western Oak ▪ Helotes, Texas 78023
Phone: (210) 372-1315 ▪ Fax: (210) 372-1318

# Site Geologic Map

Geologic Site Assessment (WPAP)
for Regulated Activities / Development on the
Edwards Aquifer Recharge / Transition Zone
for
Mr. W Smithson Valley Road Tract
1.41 Acres
San Antonio, Texas

Frost GeoSciences, Inc. Control # FGS-E22153

## Legend

| | | |
|---|---|---|
| Fill | - | Fill Material |
| Qal | - | Alluvium |
| Kau | - | Austin Chalk |
| Kef | - | Eagle Ford Shale |
| Kbu | - | Buda Limestone |
| Kdr | - | Del Rio Clay |
| Kgt | - | Georgetown Limestone |
| Kep | - | Edwards Person Limestone |
| Kek | - | Edwards Kainer Limestone |
| Kgr | - | Glen Rose Formation |
| S-# | - | Potential Recharge Feature (PRF) |
| ..... | - | Formation Contact |
| - - - - - | - | 100-Year Floodplain - Zone A |
| —·—·— | - | 100-Year Floodplain - Zone AE |
| -··-··- | - | Other Flood Hazard Area - Zone X (shaded) |

Floodplain Information Obtained From
FIRM: Flood Insurance Rate Map
Comal County, Texas: Panel # 48029C0140G, Revised 9/29/2010

Fault Information Obtained From:
Bureau of Economic Geology, Geologic Atlas of Texas, San Antonio Sheet (1983)
U.S. Geological Survey, Water Resources Investigations Report 95-4030 (1995)
Geologic Map of the New Braunfels, Texas 30 X 60 Minute Quadrangle (2000)

North
NW NE
West East
SW SE
South

Graphic Scale
20 0 10 20 40
(In Feet)

1 inch = 20 feet
Representative Fraction 1:240

Contour Interval - 1 foot

F-22385

# WATER POLLUTION ABATEMENT PLAN SECTION

# Water Pollution Abatement Plan Application

**Texas Commission on Environmental Quality**

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b), Effective June 1, 1999

***To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.***

***Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.***

## *Signature*

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Water Pollution Abatement Plan Application Form** is hereby submitted for TCEQ review and Executive Director approval. The form was prepared by:

Print Name of Customer/Agent: Joseph E. Tober, P.E.

Date: 07.11.2023

Signature of Customer/Agent:

Joseph E. Tober

**Regulated Entity Name:** MRW Smithson Valley

## *Regulated Entity Information*

1. The type of project is:

   ☐ Residential: Number of Lots:_____
   ☐ Residential: Number of Living Unit Equivalents:_____
   ☒ Commercial
   ☐ Industrial
   ☐ Other:_____

2. Total site acreage (size of property):1.4187

3. Estimated projected population:N/A

4. The amount and type of impervious cover expected after construction are shown below:

**Table 1 - Impervious Cover Table**

| Impervious Cover of Proposed Project | Sq. Ft. | Sq. Ft./Acre | Acres |
|---|---|---|---|
| Structures/Rooftops | 4,500 | ÷ 43,560 = | 0.1033 |
| Parking | 4,052 | ÷ 43,560 = | 0.0930 |
| Other paved surfaces | 575 | ÷ 43,560 = | 0.0132 |
| Total Impervious Cover | 9,127 | ÷ 43,560 = | 0.2095 |

**Total Impervious Cover** 0.2095 **÷ Total Acreage** 1.4187 **X 100 =** 14.77**% Impervious Cover**

5. ☒ **Attachment A - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water and groundwater quality that addresses ultimate land use is attached.

6. ☒ Only inert materials as defined by 30 TAC §330.2 will be used as fill material.

## *For Road Projects Only*

**Complete questions 7 - 12 if this application is exclusively for a road project.**

7. Type of project:

   ☐ TXDOT road project.
   ☐ County road or roads built to county specifications.
   ☐ City thoroughfare or roads to be dedicated to a municipality.
   ☐ Street or road providing access to private driveways.

8. Type of pavement or road surface to be used:

   ☐ Concrete
   ☐ Asphaltic concrete pavement
   ☐ Other: _____

9. Length of Right of Way (R.O.W.): _____ feet.

   Width of R.O.W.: _____ feet.
   L x W = _____ $Ft^2$ ÷ 43,560 $Ft^2$/Acre = _____ acres.

10. Length of pavement area: _____ feet.

    Width of pavement area: _____ feet.
    L x W = _____ $Ft^2$ ÷ 43,560 $Ft^2$/Acre = _____ acres.
    Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

11. ☐ A rest stop will be included in this project.

    ☐ A rest stop will not be included in this project.

12. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

## *Stormwater to be generated by the Proposed Project*

13. ☒ **Attachment B - Volume and Character of Stormwater**. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on the area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

## *Wastewater to be generated by the Proposed Project*

14. The character and volume of wastewater is shown below:

| | |
|---|---|
| 0% Domestic | 0 Gallons/day |
| 0% Industrial | 0 Gallons/day |
| 0% Commingled | 0 Gallons/day |
| TOTAL gallons/day 0 | |

15. Wastewater will be disposed of by:

☐ On-Site Sewage Facility (OSSF/Septic Tank):

- ☐ **Attachment C - Suitability Letter from Authorized Agent**. An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.
- ☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

- ☐ Private service laterals from the wastewater generating facilities will be connected to an existing SCS.
- ☐ Private service laterals from the wastewater generating facilities will be connected to a proposed SCS.

- ☐ The SCS was previously submitted on_____.
- ☐ The SCS was submitted with this application.
- ☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

☐ The sewage collection system will convey the wastewater to the _____ (name) Treatment Plant. The treatment facility is:

☐ Existing.
☐ Proposed.

16. ☐ All private service laterals will be inspected as required in 30 TAC §213.5.

## *Site Plan Requirements*

***Items 17 – 28 must be included on the Site Plan.***

17. ☒ The Site Plan must have a minimum scale of 1" = 400'.

Site Plan Scale: 1" = 20'.

18. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☐ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): 48029C0130G, 09/29/2010

19. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, open space, etc. are shown on the plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, open space, etc. are shown on the site plan.

20. All known wells (oil, water, unplugged, capped and/or abandoned, test holes, etc.):

☐ There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply)

☐ The wells are not in use and have been properly abandoned.
☐ The wells are not in use and will be properly abandoned.
☐ The wells are in use and comply with 16 TAC §76.

☒ There are no wells or test holes of any kind known to exist on the project site.

21. Geologic or manmade features which are on the site:

☒ All sensitive geologic or manmade features identified in the Geologic Assessment are shown and labeled.
☐ No sensitive geologic or manmade features were identified in the Geologic Assessment.
☐ **Attachment D - Exception to the Required Geologic Assessment**. A request and justification for an exception to a portion of the Geologic Assessment is attached.

22. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

23. ☒ Areas of soil disturbance and areas which will not be disturbed.

24. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

25. ☒ Locations where soil stabilization practices are expected to occur.

26. ☐ Surface waters (including wetlands).

    ☒ N/A

27. ☐ Locations where stormwater discharges to surface water or sensitive features are to occur.

    ☒ There will be no discharges to surface water or sensitive features.

28. ☒ Legal boundaries of the site are shown.

## *Administrative Information*

29. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies must be submitted to the appropriate regional office.

30. ☒ Any modification of this WPAP will require Executive Director approval, prior to construction, and may require submission of a revised application, with appropriate fees.

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

## Attachment A- Factors Affecting Surface Water Quality

There are a few factors that may affect surface water quality. Petroleum products and other fluids from construction vehicles may affect surface water quality. Additionally, airborne pollutants that land on the roof of the main structure may affect surface water quality.

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

# Attachment B – Volume and Character Storm Water

## Quality:

The quality of the stormwater runoff will be that of a retail building with a metal roof and gravel pavement. The majority of the impervious cover is from the roof and parking area where runoff from the roof will be contaminated mostly by airborne pollutants and runoff from the gravel pavement will be caused by oils and other pollutants from vehicles.

## Volume:

### Existing Conditions:

Total Area = 1.4187 ac
Impervious Cover = 0.047 ac
C=0.55
Tc = 5min
I5 = 7.94 (PA-2), I25 = 11.14, I100 = 14.01
**Q5= 6.20 cfs, Q25 = 8.69 cfs, Q100 = 10.93 cfs**

### Proposed Conditions:

Total Area = 1.4187 ac
Impervious Cover = 0.2095 ac
C=0.59
Tc = 5 min
I5 = 7.94 (PA-2), I25 = 11.14, I100 = 14.01
**Q5= 6.65 cfs, Q25 = 9.32 cfs, Q100 = 11.73 cfs**


LOCATION MAP
N.T.S.

**Texas Commission on Environmental Quality**
**Water Pollution Abatement Plan**
**General Construction Notes**

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
   - the name of the approved project;
   - the activity start date; and
   - the contact information of the prime contractor.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.

4. No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.

5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.

6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.

7. Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.

9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.

10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

11. The following records shall be maintained and made available to the TCEQ upon request:
    - the dates when major grading activities occur;
    - the dates when construction activities temporarily or permanently cease on a portion of the site; and
    - the dates when stabilization measures are initiated.

12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

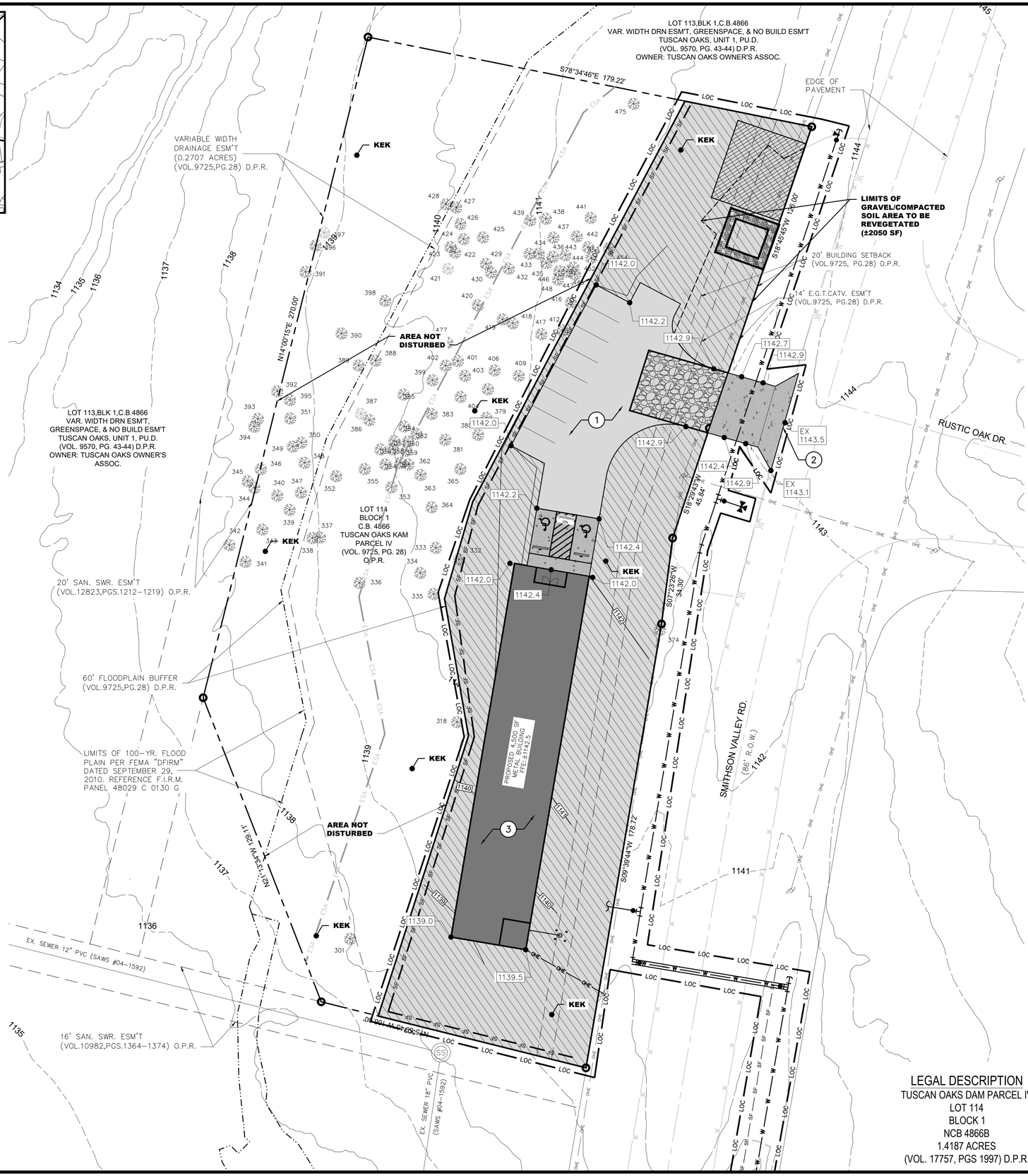
    A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;

    B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

    C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office
12100 Park 35 Circle, Building A
Austin, Texas 78753-1808
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
Phone (210) 490-3096
Fax (210) 545-4329




SCALE: 1"=20'
0 20 40

## LEGEND

- PROPERTY LINE
- SILT FENCE (SF)
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- STAGING AREA
- CONCRETE WASH–OUT PIT
- AREAS OF SOIL STABILIZATION
- AREAS OF SOIL DISTURBANCE
- AREAS TO BE REVEGETATED
- EDWARDS KAINER LIMESTONE (KEK)

## KEY NOTES

| | |
|---|---|
| 1 | PROPOSED GRAVEL MILLINGS PARKING LOT |
| 2 | PROPOSED ENTRANCE LOCATION |
| 3 | PROPOSED BUILDING LOCATION |

## LEGAL DESCRIPTION

TUSCAN OAKS DAM PARCEL IV
LOT 114
BLOCK 1
NCB 4866B
1.4187 ACRES
(VOL. 17757, PGS 1997) D.P.R.

OWNER:

MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

# MRW - SMITHSON VALLEY
# MR. W FIREWORKS SUPERSTORE

26325 SMITHSON VALLEY
SAN ANTONIO, TX 78261

ENGINEER:

F-22385
MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

STATE OF TEXAS
JOSEPH E. TOBER
108918
LICENSED
PROFESSIONAL ENGINEER
7.12.2023

# WATER POLLUTION ABATEMENT PLAN
# C2

F-22385

# TEMPORARY STORMWATER SECTION

# Temporary Stormwater Section

**Texas Commission on Environmental Quality**

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(A), (B), (D)(I) and (G); Effective June 1, 1999

***To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.***

***Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.***

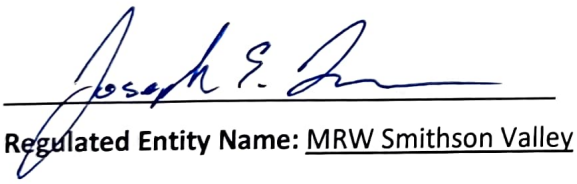
## *Signature*

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Temporary Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Joseph E. Tober, P.E.

Date: 07.11.2023

Signature of Customer/Agent:



**Regulated Entity Name:** MRW Smithson Valley

## *Project Information*

## *Potential Sources of Contamination*

*Examples: Fuel storage and use, chemical storage and use, use of asphaltic products, construction vehicles tracking onto public roads, and existing solid waste.*

1. Fuels for construction equipment and hazardous substances which will be used during construction:

   ☐ The following fuels and/or hazardous substances will be stored on the site: _____

   These fuels and/or hazardous substances will be stored in:

   ☐ Aboveground storage tanks with a cumulative storage capacity of less than 250 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.

☐ Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.

☒ Fuels and hazardous substances will not be stored on the site.

2. ☒ **Attachment A - Spill Response Actions**. A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.

3. ☒ Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.

4. ☒ **Attachment B - Potential Sources of Contamination**. A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

## *Sequence of Construction*

5. ☒ **Attachment C - Sequence of Major Activities**. A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.

   ☐ For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.

   ☐ For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.

6. ☒ Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Elm Waterhole Creek

## *Temporary Best Management Practices (TBMPs)*

*Erosion control examples: tree protection, interceptor swales, level spreaders, outlet stabilization, blankets or matting, mulch, and sod. Sediment control examples: stabilized construction exit, silt fence, filter dikes, rock berms, buffer strips, sediment traps, and sediment basins. Please refer to the Technical Guidance Manual for guidelines and specifications. All structural BMPs must be shown on the site plan.*

7. ☒ **Attachment D – Temporary Best Management Practices and Measures**. TBMPs and measures will prevent pollution of surface water, groundwater, and stormwater. The construction-phase BMPs for erosion and sediment controls have been designed to retain sediment on site to the extent practicable. The following information is attached:

☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.

☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.

☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.

☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.

8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.

☐ **Attachment E - Request to Temporarily Seal a Feature**. A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.

☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.

9. ☒ **Attachment F - Structural Practices**. A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.

10. ☒ **Attachment G - Drainage Area Map**. A drainage area map supporting the following requirements is attached:

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.

☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.

☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.

11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations**. Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.

☒ N/A

12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.

13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.

14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).

15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.

16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

## *Soil Stabilization Practices*

*Examples: establishment of temporary vegetation, establishment of permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, or preservation of mature vegetation.*

17. ☒ **Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices**. A schedule of the interim and permanent soil stabilization practices for the site is attached.

18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

## *Administrative Information*

20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.

21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.

22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

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**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

# Attachment A- Spill Response Actions

## 1.4.16 Spill Prevention and Control

The objective of this section is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees.

The following steps will help reduce the stormwater impacts of leaks and spills:

***Education***

(1) Be aware that different materials pollute in different amounts. Make sure that each employee knows what a “significant spill” is for each material they use, and what is the appropriate response for “significant” and “insignificant” spills. Employees should also be aware of when spill must be reported to the TCEQ. Information available in 30 TAC 327.4 and 40 CFR 302.4.

(2) Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.

(3) Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings).

(4) Establish a continuing education program to indoctrinate new employees.

(5) Have contractor’s superintendent or representative oversee and enforce proper spill prevention and control measures.

***General Measures***

(1) To the extent that the work can be accomplished safely, spills of oil, petroleum products, substances listed under 40 CFR parts 110,117, and 302, and sanitary and septic wastes should be contained and cleaned up immediately

(2) Store hazardous materials and wastes in covered containers and protect from vandalism.

(3) Place a stockpile of spill cleanup materials where it will be readily accessible.

(4) Train employees in spill prevention and cleanup.

(5) Designate responsible individuals to oversee and enforce control measures.

(6) Spills should be covered and protected from stormwater run-off during rainfall to the extent that it doesn't compromise cleanup activities.

(7) Do not bury or wash spills with water.

(8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.

(9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.

(10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.

(11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.

(12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

***Cleanup***
(1) Clean up leaks and spills immediately.

(2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.

(3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

***Minor Spills***
(1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.

(2) Use absorbent materials on small spills rather than hosing down or burying the spill.

(3) Absorbent materials should be promptly removed and disposed of properly.

(4) Follow the practice below for a minor spill:

(5) Contain the spread of the spill.

(6) Recover spilled materials.

(7) Clean the contaminated area and properly dispose of contaminated materials.

***Semi-Significant Spills***
Semi-significant spills still can be controlled by the first responder along with the aid of other personnel such as laborers and the foreman, etc. This response may require the cessation of all other activities.

Spills should be cleaned up immediately:

(1) Contain spread of the spill.

(2) Notify the project foreman immediately.

(3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.

(4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.

(5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

***Significant/Hazardous Spills***
For significant or hazardous spills that are in reportable quantities:

(1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM. After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.

(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

(3) Notification should first be made by telephone and followed up with a written report.

(4) The services of a spills contractor or a Haz-Mat team should be obtained immediately. Construction personnel should not attempt to clean up until the appropriate and qualified staffs have arrived at the job site.

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc. More information on spill rules and appropriate responses is available on the TCEQ website at:
http://www.tnrcc.state.tx.us/enforcement/emergency_response.html

***Vehicle and Equipment Maintenance***
(1) If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the runon of stormwater and the runoff of spills.

(2) Regularly inspect onsite vehicles and equipment for leaks and repair immediately

(3) Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment onsite.

(4) Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.

(5) Place drip pans or absorbent materials under paving equipment when not in use.

(6) Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.

(7) Promptly transfer used fluids to the proper waste or recycling drums. Don’t leave full drip pans or other open containers lying around.

(8) Oil filters disposed of in trashcans or dumpsters can leak oil and pollute stormwater. Place the oil filter in a funnel over a waste oil-recycling drum to drain excess oil before disposal. Oil filters can also be recycled. Ask the oil supplier or recycler about recycling oil filters.

(9) Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid has drained out. If you drop a battery, treat it as if it is cracked. Put it into the containment area until you are sure it is not leaking.

***Vehicle and Equipment Fueling***

(1) If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the runoff of stormwater and the runoff of spills.

(2) Discourage “topping off” of fuel tanks.

(3) Always use secondary containment, such as a drain pan, when fueling to catch spills/ leaks.

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July 12, 2023

## Attachment B- Potential Sources of Contamination

Potential sources of contamination from the construction site that may be expected to affect the quality of storm water discharges of said site include:

a) Soil erosion due to clearing of site for drainage and pavement
b) Oil, grease, fuel & hydraulic fluid contamination from construction vehicle drippings
c) Miscellaneous trash and litter from construction workers and material wrappings
d) Construction debris
e) Concrete truck washout
f) Hydrocarbons from asphalt paving operations

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July 12, 2023

## Attachment C – Sequences of Major Activities

Major activities for proposed site include:

Implement BMP's: Week 1

- Installation of temporary construction entrance/exit. (1,000 SF)
- Installation of erosion and sedimentation controls. Silt Fence (460 LF)

Construction of building and site work: (Week 2-6)

- Gravel placement and tree removal.
- Installation of underground and overhead utilities.
- Construction of metal firework super store.
- Installation of concrete driveway apron.

Site Stabilization (Week 6-8)

Removal of temporary erosion and sedimentation controls (Week 9-10)

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July 12, 2023

# Attachment D – Temporary Best Management Practices and Measures

## Stabilized Construction Entrance/Exit

Timing - will be put in place at the beginning of construction, prior to any site work, will be removed at the conclusion of all site work activity.

This BMP will prevent pollution by removing dust, rocks, and other construction debris which is carried on the construction vehicles from entering the right-of-way and potentially draining into the aquifer.

## Silt Fence

Timing – will be put in place at the beginning of construction, prior to any site work, will be removed at the conclusion of all site work activity

The silt fence will capture potentially contaminated excess sediment prior to running off site. The excess sediment will be removed periodically as described within this plan.

## Concrete Washout Pit

Timing – will be put in place at the beginning of construction, prior to any concrete pour, will be removed at the conclusion of all concrete work

The concrete washout areas will prevent or reduce the discharge of pollutants to stormwater from concrete waste by conducting washout offsite, performing onsite washout in a designated area, and training employees and subcontractors

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**F-22385**

July 12, 2023

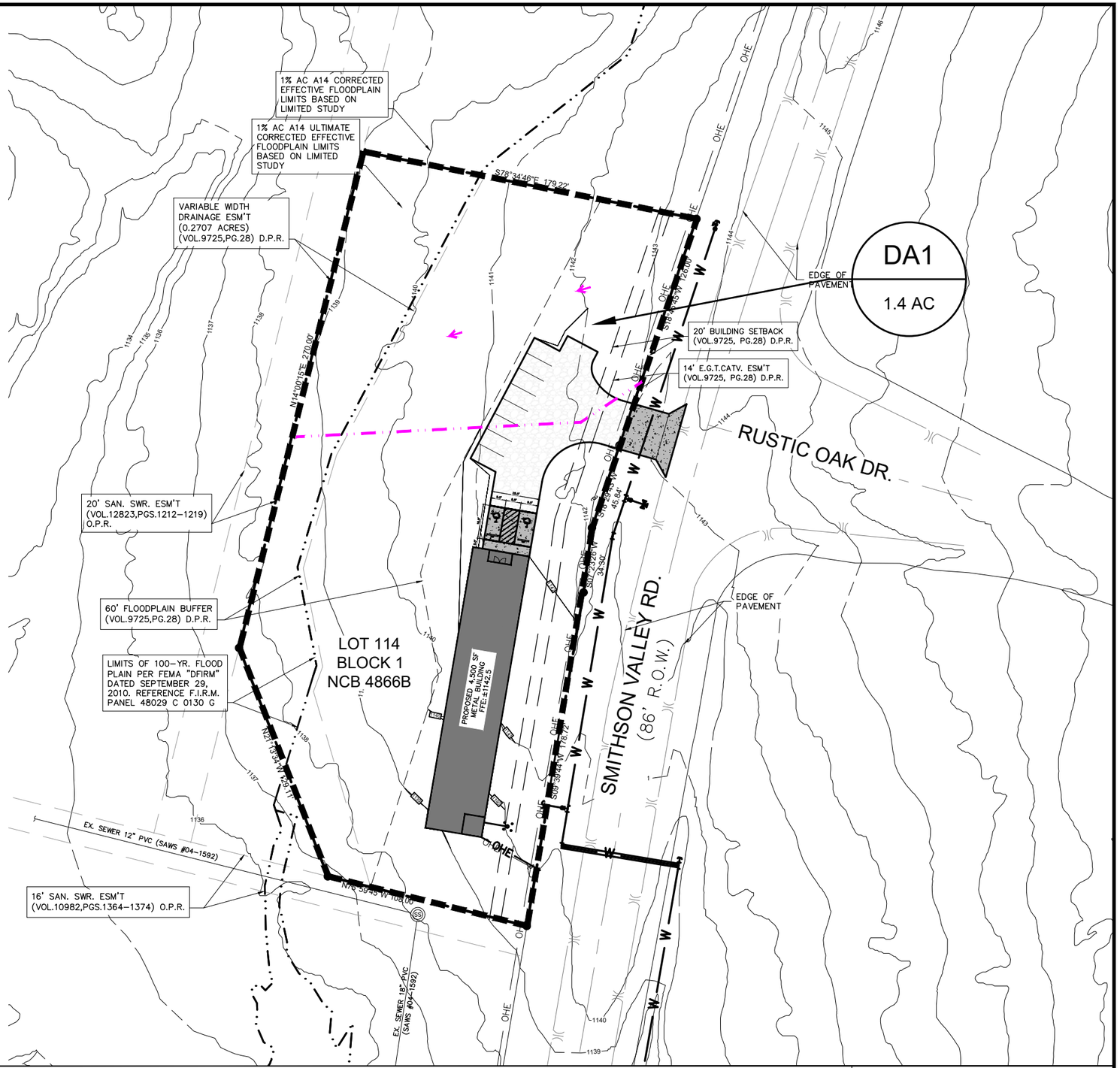
## Attachment F – Structural Practices

The following structural measures will be installed prior to the initiation of site preparation activities:

- Placement of silt fences on property
- Installation of temporary stabilized construction entrance/exit
- Concrete washout pit will be put in place at the beginning of construction.

## PROPOSED CONDITIONS CALCULATIONS

| AREA | TC | AC. | C | I5 | I25 | I100 | Q - 5 YR. (cfs) | Q - 25 YR. (cfs) | Q - 100 YR. (cfs) |
|---|---|---|---|---|---|---|---|---|---|
| DA1 | 5 | 1.4187 | 0.59 | 7.94 | 11.14 | 14.01 | 6.65 | 9.32 | 11.73 |




**LEGEND**

DRAINAGE AREA BOUNDARY

Tc FLOW PATH

FLOW DIRECTION

DRAINAGE POINT — DPx

DRAINAGE AREA — DAX / XX.XX AC

SCALE: 1"=60'

0 60 120

# MRW SMITHSON VALLEY - FIREWORKS SUPERSTORE

26325 SMITHSON VALLEY ROAD

SAN ANTONIO, TX, 78261

PROPOSED DRAINAGE AREA MAP

SHEET: EX #6

DATE: 7.12.2023

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**F-22385**

July 12, 2023

**MRW – SMITHSON VALLEY**
**TEMPORARY STORM WATER SECTON (TCEQ-0602)**

## Attachment I – Inspection and Maintenance for BMPs

Designated and qualified personnel shall inspect Pollution Control Measures weekly and within 24 hours after a storm event. An inspection report that summarizes the scope of the inspection, names and qualifications of personnel conducting the inspection, date of the inspection, major observations, and actions taken as a result of the inspection shall be recorded and maintained as part of Storm Water TPDES data for a period of three years after the date of the inspection. A copy of the Inspection Report Form is provided in this Storm Water Pollution Prevention Plan.

As a minimum, the inspector shall observe:

1. Significant disturbed areas for evidence of erosion.
2. Storage areas for evidence of leakage from the exposed stored materials,
3. Structural controls (rock berm outlets, silt fences, drainage swales, etc.) for evidence of failure or excess siltation (over 6 inches deep).
4. Vehicle exit point for evidence of off-site sediment tracking.
5. Vehicle storage areas for signs of leaking equipment or spills.
6. Concrete truck rinse-out pit for signs of potential failure.

Contractor shall review Sections 1.3 and 1.4 of TCEQ's Technical Guidance Manual for additional BMP inspection and maintenance requirements.

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**F-22385**

July 12, 2023

# Attachment J
# Schedule of Interim and Permanent Soil Stabilization Practices

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased and will be initiated no more than 14 says after the construction in that area has ceased.

At the completion of construction all disturbed areas will be permanently stabilized with sod or other permanent ground cover as directed by the Landscape Architect.

Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.

## *Site Stabilization*

Removing the vegetative cover and altering the soil structure by clearing, grading, and compacting the surface increases an area's susceptibility to erosion. Apply stabilizing measures as soon as possible after the land is disturbed (Figure 1-5). Plan and implement temporary or permanent vegetation, mulches, or other protective practices to correspond with construction activities. Protect channels from erosive forces by using protective linings and the appropriate channel design. Consider possible future repairs and maintenance of these practices in the design.

Seeding establishes a vegetative cover on disturbed areas. Seeding is very effective in controlling soil erosion once a vegetative cover of about 80% has been established. However, often seeding and fertilizing do not produce as thick a vegetative cover as do seed and mulch or netting. Newly established vegetation does not have as extensive a root system as existing vegetation and therefore is more prone to erosion, especially on steep slopes. Care should be taken when fertilizing to avoid untimely or excessive application. Since the practice of seeding and fertilizing does not provide any protection during the time of vegetative establishment, it should be used only on favorable soils in very flat areas and not in sensitive areas.

The management of land by using ground cover reduces erosion by reducing the flow rate of runoff and the raindrop impact. Bare soils should be seeded or otherwise stabilized within 14 calendar days after final grading or where construction activity has temporarily ceased for more than 21 days. In very flat, non-sensitive areas with favorable soils, stabilization may involve simply seeding and fertilizing. Mulch and/or sod may be necessary on steeper slopes, for erodible soils, and near sensitive areas. Sediment that has escaped the site due to the failure of sediment and erosion controls should be removed as soon as possible to minimize offsite impacts. Permission should be obtained from adjacent landowners prior to offsite sediment removal.

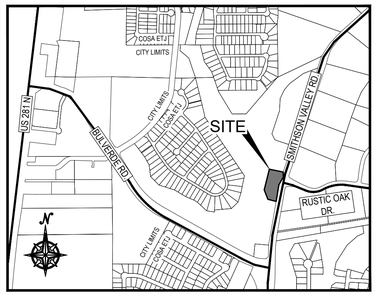
Mulching/mats can be used to protect the disturbed area while vegetation becomes established. Mulching involves applying plant residues or other suitable materials on disturbed soil surfaces. Mulches/mats used include tacked straw, wood chips, and jute netting and are often covered by blankets or netting. Mulching alone should be used only for temporary protection of the soil surface or when permanent seeding is not feasible. The useful life of mulch varies with the material used and the amount of precipitation, but is approximately 2 to 6 months.

During times of year when vegetation cannot be established, soil mulching should be applied to moderate slopes and soils that are not highly erodible. On steep slopes or highly erodible soils, multiple mulching treatments should be used. Interlocking ceramic materials, filter fabric, and netting are available for this purpose. Before stabilizing an area, it is important to have installed all sediment controls and diverted runoff away from the area to be planted. Runoff may be diverted away from denuded areas or newly planted areas using dikes, swales, or pipe slope drains to intercept runoff and convey it to a permanent channel or storm drain. Reserved topsoil may be used to revegetate a site if the stockpile has been covered and stabilized.

Consideration should be given to maintenance when designing mulching and matting schemes. Plastic nets are often used to cover the mulch or mats; however, they can foul lawn mower blades if the area requires mowing.

Sod can be used to permanently stabilize an area. Sodding provides immediate stabilization of an area and should be used in critical areas or where establishment of permanent vegetation by seeding and mulching would be difficult. Sodding is also a preferred option when there is high erosion potential during the period of vegetative establishment from seeding.

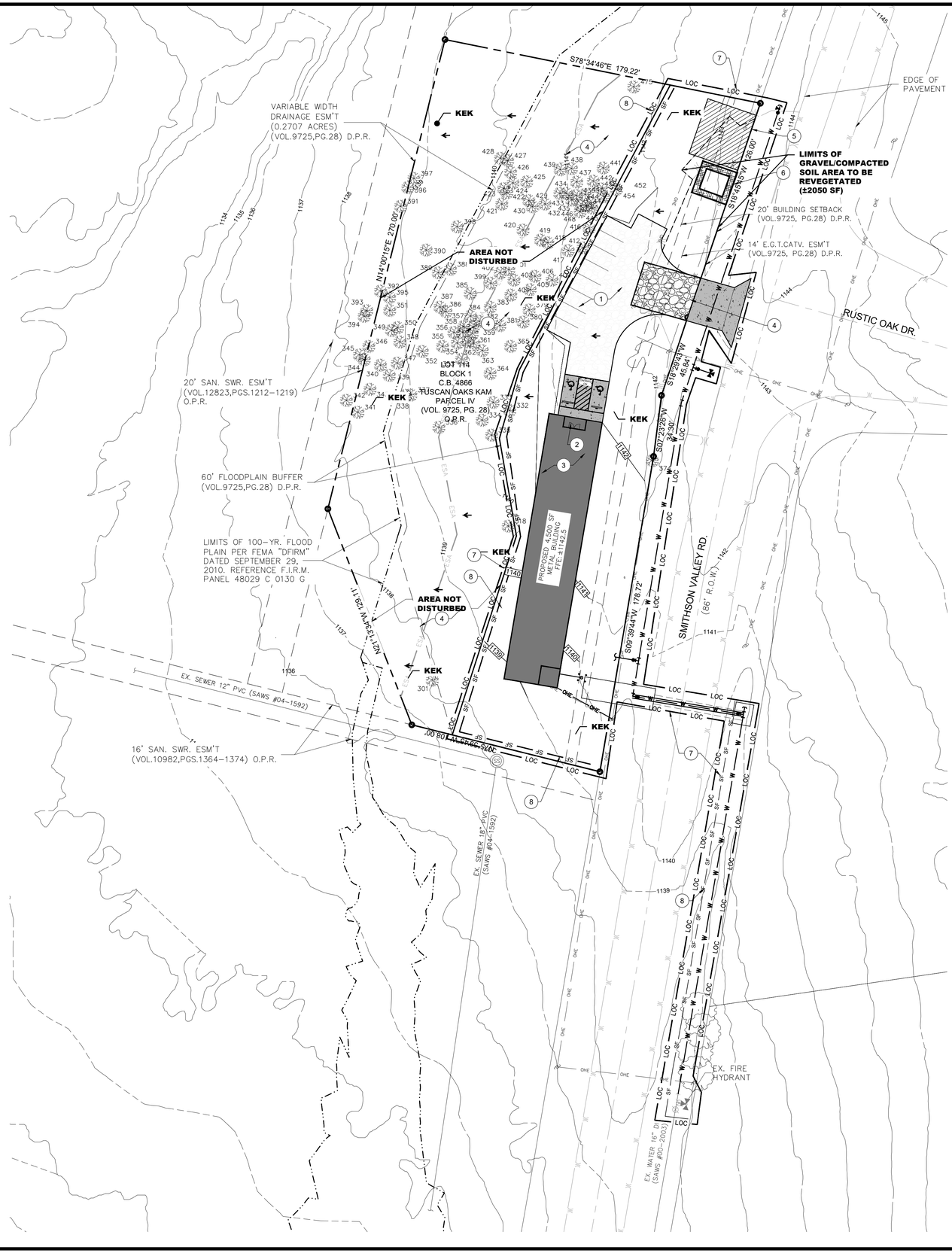
Because of the hardy drought-resistant nature of wildflowers, they may be more beneficial as an erosion control practice than turf grass. While not as dense as turfgrass, wildflower thatches and associated grasses are expected to be as effective in erosion control and contaminant absorption. Because thatches of wildflowers do not need fertilizers, pesticides, or herbicides, and the need for watering is minimal, implementation of this practice may result in cost savings. In 1987, Howard County, Maryland, spent $690.00 per acre to maintain turfgrass areas, compared to only $31.00 per acre for wildflower meadows. A wildflower stand requires several years to become established; however, maintenance requirements are minimal once the area is established.




LOCATION MAP
N.T.S.

## KEY NOTES

| | |
|---|---|
| (1) | PROPOSED GRAVEL MILLINGS PARKING LOT |
| (2) | PROPOSED ENTRANCE LOCATION |
| (3) | PROPOSED BUILDING LOCATION |
| (4) | PROPOSED STABILIZED CONSTRUCTION ENTRANCE |
| (5) | PROPOSED CONSTRUCTION STAGING AREA |
| (6) | PROPOSED CONCRETE WASH-OUT PIT AREA |
| (7) | LIMITS OF CONSTRUCTION |
| (8) | PROPOSED SILT FENCE |




## LEGAL DESCRIPTION

TUSCAN OAKS DAM PARCEL IV
LOT 114
BLOCK 1
NCB 4866B
1.4187 ACRES
(VOL. 17757, PGS 1997) D.P.R.

SCALE: 1"=30'
0 30 60

## LEGEND

- PROPERTY LINE
- SILT FENCE (SF)
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- STAGING AREA
- CONCRETE WASH-OUT PIT
- AREAS OF SOIL STABILIZATION
- AREAS OF SOIL DISTURBANCE
- AREAS TO BE REVEGETATED
- EDWARDS KAINER LIMESTONE (KEK)

**SEQUENCE OF CONSTRUCTION:**

1. **PLACE SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCE AS SHOWN.**
2. **PERFORM DEMOLITION, CLEARING, GRUBBING, AND EARTHWORK FOR THE SITE.**
3. **PERFORM INITIAL SITE GRADING AND BUILDING SUBGRADE PAD PREPARATION PER PLANS.**
4. **CONSTRUCTION OF PROPOSED BUILDING, WALKWAYS, DRIVEWAYS, AND PAVEMENT.**
5. **REMOVE TEMPORARY BMP'S AFTER PAVING IS IN PLACE AND/OR AFTER ESTABLISHING VEGETATION.**

**NOTE:**

1. **ACTUAL LAYOUT DETERMINED IN FIELD. SHOULD BE PLACED IN THE PROXIMITY OF THE CONSTRUCTION ENTRANCE/EXIT AND NOT LOCATED NEAR A WELL, FLOODPLAIN, OR OTHER POTENTIAL SOURCES OF CONTAMINATION.**
2. **IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THE TEMPORARY BMP'S ARE IN PLACE AND FUNCTIONING AT ALL TIME. NOTIFY ENGINEER IF CITY OF SAN ANTONIO OF SAWS INSPECTION OFFICIALS REQUEST REVISIONS OR MODIFICATIONS TO THE PLAN.**

OWNER:

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12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

**MRW - SMITHSON VALLEY**

**MR. W FIREWORKS SUPERSTORE**

26325 SMITHSON VALLEY
SAN ANTONIO, TX 78261

ENGINEER:

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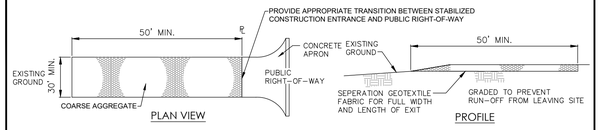
MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

STATE OF TEXAS
JOSEPH E. TOBER
108918
LICENSED PROFESSIONAL ENGINEER

7.12.2023

TEMPORARY BMP PLAN

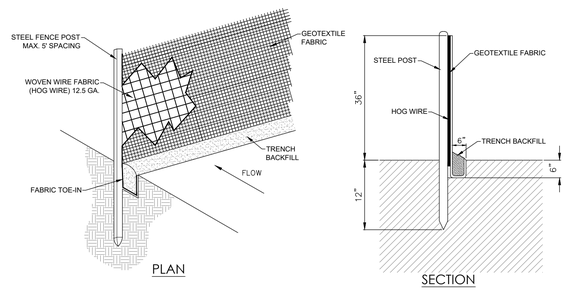
C2.1




## TEMPORARY CONSTRUCTION ENTRANCE / EXIT NOTES

1. THE AGGREGATE SHOULD CONSIST OF 4 TO 8 INCH WASHED STONE OVER A STABLE FOUNDATION.
2. THE AGGREGATE SHOULD BE PLACED WITH A MINIMUM THICKNESS OF 8 INCHES.
3. THE GEOTEXTILE FABRIC SHOULD BE DESIGNED SPECIFICALLY FOR USE AS A SOIL FILTRATION MEDIA WITH AN APPROXIMATE WEIGHT OF 6 OZ/YD 2 , A MULLEN BURST RATING OF 140 LB/IN 2 , AND AN EQUIVALENT OPENING SIZE GREATER THAN A NUMBER 50 SIEVE.
4. AVOID CURVES ON PUBLIC ROADS AND STEEP SLOPES. REMOVE VEGETATION AND OTHER OBJECTIONABLE MATERIAL FROM THE FOUNDATION AREA. GRADE CROWN FOUNDATION FOR POSITIVE DRAINAGE.
5. THE MINIMUM WIDTH OF THE ENTRANCE/EXIT SHOULD BE 12 FEET OR THE FULL WIDTH OF EXIT ROADWAY, WHICHEVER IS GREATER.
6. THE CONSTRUCTION ENTRANCE SHOULD BE AT LEAST 50 FEET LONG.
7. PLACE GEOTEXTILE FABRIC AND GRADE FOUNDATION TO IMPROVE STABILITY, ESPECIALLY WHERE WET CONDITIONS ARE ANTICIPATED.
8. PLACE STONE TO DIMENSIONS AND GRADE SHOWN. LEAVE SURFACE SMOOTH AND SLOPE FOR DRAINAGE.
9. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION, WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
10. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
11. WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
12. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
13. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE.

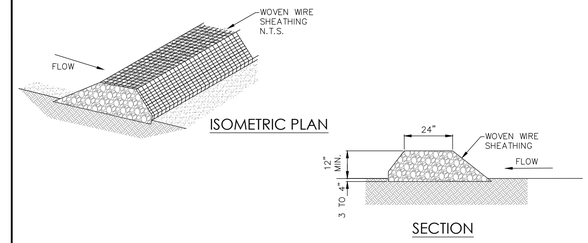
Ⓐ STABILIZED CONSTRUCTION ENTRNANCE / EXIT




## SILT FENCE NOTES

1. SILT FENCE MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE WOVEN OR NONWOVEN FABRIC. THE FABRIC WIDTH SHOULD BE 36 INCHES, WITH A MINIMUM UNIT WEIGHT OF 4.5 OZ/YD, MULLEN BURST STRENGTH EXCEEDING 190 LB/IN 2 , ULTRAVIOLET STABILITY EXCEEDING 70%, AND MINIMUM APPARENT OPENING SIZE OF U.S. SIEVE NO. 30.
2. FENCE POSTS SHOULD BE MADE OF HOT ROLLED STEEL, AT LEAST 4 FEET LONG WITH TEE OR Y-BAR CROSS SECTION, SURFACE PAINTED OR GALVANIZED, MINIMUM NOMINAL WEIGHT 1.25 LB/FT 2 , AND BRINDELL HARDNESS EXCEEDING 140.
3. WOVEN WIRE BACKING TO SUPPORT THE FABRIC SHOULD BE GALVANIZED 2" X 4" WELDED WIRE, 12.5 GAUGE MINIMUM.
4. STEEL POSTS, WHICH SUPPORT THE SILT FENCE, SHOULD BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1 FOOT DEEP AND SPACED NOT MORE THAN 5 FEET ON CENTER.
5. LAY OUT FENCING DOWN-SLOPE OF DISTURBED AREA, FOLLOWING THE CONTOUR AS CLOSELY AS POSSIBLE. THE FENCE SHOULD BE SITED SO THAT THE MAXIMUM DRAINAGE AREA IS ¼ ACRE/100 FEET OF FENCE.
6. THE TOE OF THE SILT FENCE SHOULD BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWN-SLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G., PAVEMENT OR ROCK OUTCROP), WEIGHT FABRIC FLAP WITH 3 INCHES OF PEA GRAVEL ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
7. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
8. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST. THERE SHOULD BE A 3-FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
9. SILT FENCE SHOULD BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
10. REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES, OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE OLD FENCE.
11. REPLACE ANY TORN FABRIC OR INSTALL A SECOND LINE OF FENCING PARALLEL TO THE TORN SECTION.
12. REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY. IF A SECTION OF FENCE IS OBSTRUCTING VEHICULAR ACCESS, CONSIDER RELOCATING IT TO A SPOT WHERE IT WILL PROVIDE EQUAL PROTECTION, BUT WILL NOT OBSTRUCT VEHICLES. A TRIANGULAR FILTER DIKE MAY BE PREFERABLE TO A SILT FENCE AT COMMON VEHICLE ACCESS POINTS.

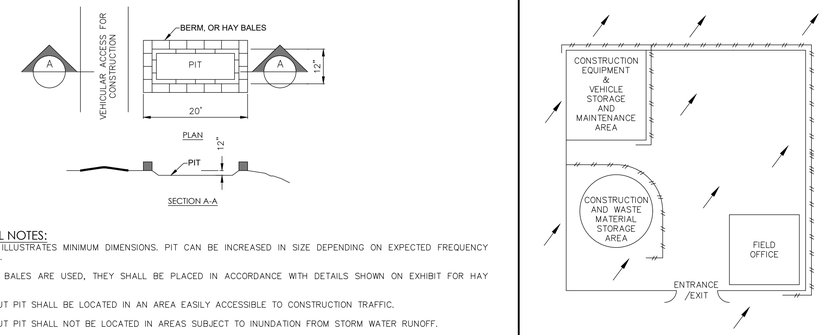
Ⓑ SILT FENCE DETAIL




## ROCK BERM NOTES

1. THE BERM STRUCTURE SHOULD BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM OPENING OF 1 INCH AND A MINIMUM WIRE DIAMETER OF 20 GAUGE GALVANIZED AND SHOULD BE SECURED WITH SHOAT RINGS.
2. CLEAN, OPEN GRADED 3 TO 5-INCH DIAMETER ROCK SHOULD BE USED, EXCEPT IN AREAS WHERE HIGH VELOCITIES OR LARGE VOLUMES OF FLOW ARE EXPECTED, WHERE 5-TO 8-INCH DIAMETER ROCKS MAY BE USED.
3. LAY OUT THE WOVEN WIRE SHEATHING PERPENDICULAR TO THE FLOW LINE.
4. BERM SHOULD HAVE A TOP WIDTH OF 2 FEET MINIMUM WITH SIDE SLOPES BEING 2:1 (H:V) OR FLATTER.
5. PLACE THE ROCK ALONG THE SHEATHING TO A HEIGHT NOT LESS THAN 18".
6. WRAP THE WIRE SHEATHING AROUND THE ROCK AND SECURE WITH TIE WIRE SO THAT THE ENDS OF THE SHEATHING OVERLAP AT LEAST 2 INCHES, AND THE BERM RETAINS ITS SHAPE WHEN WALKED UPON.
7. BERM SHOULD BE BUILT ALONG THE CONTOUR AT ZERO PERCENT GRADE OR AS NEAR AS POSSIBLE.
8. THE ENDS OF THE BERM SHOULD BE TIED INTO EXISTING UPSLOPE GRADE AND THE BERM SHOULD BE BURIED IN A TRENCH APPROXIMATELY 3 TO 4 INCHES DEEP TO PREVENT FAILURE OF THE CONTROL.
9. INSPECTION SHOULD BE MADE WEEKLY AND AFTER EACH RAINFALL BY THE RESPONSIBLE PARTY. FOR INSTALLATIONS IN STREAMBEDS, ADDITIONAL DAILY INSPECTIONS SHOULD BE MADE. THE BERM SHOULD BE RESHAPED AS NEEDED DURING INSPECTION.
10. REMOVE SEDIMENT AND OTHER DEBRIS WHEN BUILDUP REACHES 6 INCHES AND DISPOSE OF THE ACCUMULATED SILT OF IN AN APPROVED MANNER AND REPAIR ANY LOOSE WIRE SHEATHING.
11. THE BERM SHOULD BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
12. THE ROCK BERM SHOULD BE LEFT IN PLACE UNTIL ALL UPSTREAM AREAS ARE STABILIZED AND ACCUMULATED SILT REMOVED.

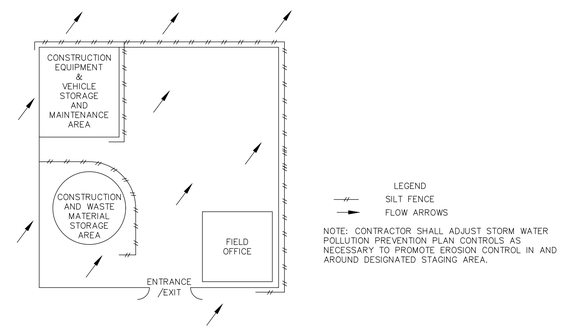
Ⓒ ROCK BERM DETAIL (NOT USED)




GENERAL NOTES:

- DETAIL ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
- IF HAY BALES ARE USED, THEY SHALL BE PLACED IN ACCORDANCE WITH DETAILS SHOWN ON EXHIBIT FOR HAY BALES.
- WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
- WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.

Ⓓ CONCRETE TRUCK WASHOUT PIT




NOTE: CONTRACTOR SHALL ADJUST STORM WATER POLLUTION PREVENTION PLAN CONTROLS AS NECESSARY TO PROMOTE EROSION CONTROL IN AND AROUND DESIGNATED STAGING AREA.

Ⓔ TYP. CONSTRUCTION STAGING AREA

OWNER:

MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

**MRW - SMITHSON VALLEY**

**MR. W FIREWORKS SUPERSTORE**

26325 SMITHSON VALLEY
SAN ANTONIO, TX 78261

ENGINEER:

F-22385

MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069


TEMPORARY BMP PLAN DETAILS

C2.2

F-22385

# PERMANENT STORMWATER SECTION

# Permanent Stormwater Section

**Texas Commission on Environmental Quality**

for Regulated Activities on the Edwards Aquifer Recharge Zone and Relating to 30 TAC §213.5(b)(4)(C), (D)(Ii), (E), and (5), Effective June 1, 1999

***To ensure that the application is administratively complete, confirm that all fields in the form are complete, verify that all requested information is provided, consistently reference the same site and contact person in all forms in the application, and ensure forms are signed by the appropriate party.***

***Note: Including all the information requested in the form and attachments contributes to more streamlined technical reviews.***

## *Signature*

To the best of my knowledge, the responses to this form accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer. This **Permanent Stormwater Section** is hereby submitted for TCEQ review and executive director approval. The application was prepared by:

Print Name of Customer/Agent: Joseph E. Tober, P.E.

Date: 07.11.2023

Signature of Customer/Agent

**Regulated Entity Name**: MRW Smithson Valley

## *Permanent Best Management Practices (BMPs)*

***Permanent best management practices and measures that will be used during and after construction is completed.***

1. ☐ Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.

   ☒ N/A

2. ☐ These practices and measures have been designed, and will be constructed, operated, and maintained to insure that 80% of the incremental increase in the annual mass loading of total suspended solids (TSS) from the site caused by the regulated activity is removed. These quantities have been calculated in accordance with technical guidance prepared or accepted by the executive director.

   ☐ The TCEQ Technical Guidance Manual (TGM) was used to design permanent BMPs and measures for this site.

☐ A technical guidance other than the TCEQ TGM was used to design permanent BMPs and measures for this site. The complete citation for the technical guidance that was used is: _____

☒ N/A

3. ☐ Owners must insure that permanent BMPs and measures are constructed and function as designed. A Texas Licensed Professional Engineer must certify in writing that the permanent BMPs or measures were constructed as designed. The certification letter must be submitted to the appropriate regional office within 30 days of site completion.

   ☒ N/A

4. Where a site is used for low density single-family residential development and has 20 % or less impervious cover, other permanent BMPs are not required. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

   ☐ The site will be used for low density single-family residential development and has 20% or less impervious cover.
   ☐ The site will be used for low density single-family residential development but has more than 20% impervious cover.
   ☒ The site will not be used for low density single-family residential development.

5. The executive director may waive the requirement for other permanent BMPs for multi-family residential developments, schools, or small business sites where 20% or less impervious cover is used at the site. This exemption from permanent BMPs must be recorded in the county deed records, with a notice that if the percent impervious cover increases above 20% or land use changes, the exemption for the whole site as described in the property boundaries required by 30 TAC §213.4(g) (relating to Application Processing and Approval), may no longer apply and the property owner must notify the appropriate regional office of these changes.

   ☒ **Attachment A - 20% or Less Impervious Cover Waiver**. The site will be used for multi-family residential developments, schools, or small business sites and has 20% or less impervious cover. A request to waive the requirements for other permanent BMPs and measures is attached.
   ☐ The site will be used for multi-family residential developments, schools, or small business sites but has more than 20% impervious cover.
   ☐ The site will not be used for multi-family residential developments, schools, or small business sites.

6. ☒ **Attachment B - BMPs for Upgradient Stormwater**.

☐ A description of the BMPs and measures that will be used to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site is attached.

☒ No surface water, groundwater or stormwater originates upgradient from the site and flows across the site, and an explanation is attached.

☒ Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site, and an explanation is attached.

7. ☒ **Attachment C - BMPs for On-site Stormwater**.

☐ A description of the BMPs and measures that will be used to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff from the site is attached.

☒ Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off the site, including pollution caused by contaminated stormwater runoff, and an explanation is attached.

8. ☐ **Attachment D - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams, sensitive features, or the aquifer is attached. Each feature identified in the Geologic Assessment as sensitive has been addressed.

☒ N/A

9. ☒ The applicant understands that to the extent practicable, BMPs and measures must maintain flow to naturally occurring sensitive features identified in either the geologic assessment, executive director review, or during excavation, blasting, or construction.

☒ The permanent sealing of or diversion of flow from a naturally-occurring sensitive feature that accepts recharge to the Edwards Aquifer as a permanent pollution abatement measure has not been proposed.

☐ **Attachment E - Request to Seal Features**. A request to seal a naturally-occurring sensitive feature, that includes, for each feature, a justification as to why no reasonable and practicable alternative exists, is attached.

10. ☐ **Attachment F - Construction Plans**. All construction plans and design calculations for the proposed permanent BMP(s) and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. The plans are attached and, if applicable include:

☐ Design calculations (TSS removal calculations)
☐ TCEQ construction notes
☐ All geologic features
☐ All proposed structural BMP(s) plans and specifications

☒ N/A

11. ☐ **Attachment G - Inspection, Maintenance, Repair and Retrofit Plan**. A plan for the inspection, maintenance, repairs, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan includes all of the following:

    ☐ Prepared and certified by the engineer designing the permanent BMPs and measures
    ☐ Signed by the owner or responsible party
    ☐ Procedures for documenting inspections, maintenance, repairs, and, if necessary retrofit
    ☐ A discussion of record keeping procedures

    ☒ N/A

12. ☐ **Attachment H - Pilot-Scale Field Testing Plan**. Pilot studies for BMPs that are not recognized by the Executive Director require prior approval from the TCEQ. A plan for pilot-scale field testing is attached.

    ☒ N/A

13. ☐ **Attachment I -Measures for Minimizing Surface Stream Contamination**. A description of the measures that will be used to avoid or minimize surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development is attached. The measures address increased stream flashing, the creation of stronger flows and in-stream velocities, and other in-stream effects caused by the regulated activity, which increase erosion that results in water quality degradation.

    ☒ N/A

## *Responsibility for Maintenance of Permanent BMP(s)*

***Responsibility for maintenance of best management practices and measures after construction is complete.***

14. ☐ The applicant is responsible for maintaining the permanent BMPs after construction until such time as the maintenance obligation is either assumed in writing by another entity having ownership or control of the property (such as without limitation, an owner's association, a new property owner or lessee, a district, or municipality) or the ownership of the property is transferred to the entity. Such entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred.

    ☒ N/A

15. ☐ A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days of the transfer if the site is for use as a multiple single-family residential development, a multi-family residential development, or a non-residential development such as commercial, industrial, institutional, schools, and other sites where regulated activities occur.

    ☒ N/A

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

**MRW – SMITHSON VALLEY**
**PERMANENT STORM WATER SECTION (TCEQ-0600)**

## Attachment A – 20% or Less Impervious Cover Waiver

Due to the site being a Category 3, the property is limited to 15% maximum impervious cover. As detailed in the WPAP application form, the total proposed impervious cover will be 14.77% of the total site. This amount is less than the threshold of 20% to request to waive the requirements for other permanent BMP's and measures. The impervious cover is located across the high end of the site along the street frontage allowing the stormwater runoff to sheet flow across the remaining undeveloped portion of the site prior to entering the floodplain limits located in the rear of the site. This area will work similar to a natural vegetative filter strip.

As shown on the WPAP site plan, the graveled area and fireworks stand will be removed and topped with 6" of top soil and sod. The project includes the construction of a water main extension and fire hydrant installation that can be used to establish vegetation with an approved fire hydrant meter from SAWS.

Team Kam Enterprises. LTD. Is a small business with less than 100 employees and grosses less than $1 million dollars per year.

Therefore, Team Kam Enterprises, LTD requests a waiver from the requirements for other permanent BMP's as the total impervious cover will be less than 20%.

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

## Attachment B – BMPs for Up Gradient Storm Water

Permanent BMPs or measures are not required to prevent pollution of surface water, groundwater, or stormwater that originates upgradient from the site and flows across the site. No runoff is expected to discharge onto the site originating upgradient of the development. There is an existing ridge line at the north property line that delineates the subject site's drainage area from the property to the north.

**MR. W FIREWORKS, INC.**
**P.O. BOX 114**
**SOMERSET, TEXAS 78069**
**F-22385**

July 12, 2023

## Attachment C – BMPs for On-site Storm Water

Permanent BMPs or measures are not required to prevent pollution of surface water or groundwater that originates on-site or flows off-site, including pollution caused by contaminated stormwater runoff. As stated herein, a request to waive the requirements of Permanent BMPs or other measures is being made based on the impervious cover over the site (14.77%) and due to that fact that runoff from the site drains through the 60' floodplain buffer which acts as natural treatment removing pollutants.

**As shown on the WPAP Site Plan and Grading Plan, there is an existing barren area that measures approximately 2,050 square feet. This area will be topped with 6- inches of top soil and hydro-seeded. The contactor will use the nearby fire hydrant, with an approved hydrant meter from SAWS, to establish vegetation.**


LOCATION MAP
N.T.S.

**Texas Commission on Environmental Quality**
**Water Pollution Abatement Plan**
**General Construction Notes**

1. A written notice of construction must be submitted to the TCEQ regional office at least 48 hours prior to the start of any regulated activities. This notice must include:
   - the name of the approved project;
   - the activity start date; and
   - the contact information of the prime contractor.

2. All contractors conducting regulated activities associated with this project must be provided with complete copies of the approved Water Pollution Abatement Plan (WPAP) and the TCEQ letter indicating the specific conditions of its approval. During the course of these regulated activities, the contractors are required to keep on-site copies of the approved plan and approval letter.

3. If any sensitive feature(s) (caves, solution cavity, sink hole, etc.) is discovered during construction, all regulated activities near the sensitive feature must be suspended immediately. The appropriate TCEQ regional office must be immediately notified of any sensitive features encountered during construction. Construction activities may not be resumed until the TCEQ has reviewed and approved the appropriate protective measures in order to protect any sensitive feature and the Edwards Aquifer from potentially adverse impacts to water quality.

4. No temporary or permanent hazardous substance storage tank shall be installed within 150 feet of a water supply source, distribution system, well, or sensitive feature.

5. Prior to beginning any construction activity, all temporary erosion and sedimentation (E&S) control measures must be properly installed and maintained in accordance with the approved plans and manufacturers specifications. If inspections indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations. These controls must remain in place until the disturbed areas have been permanently stabilized.

6. Any sediment that escapes the construction site must be collected and properly disposed of before the next rain event to ensure it is not washed into surface streams, sensitive features, etc.

7. Sediment must be removed from the sediment traps or sedimentation basins not later than when it occupies 50% of the basin's design capacity.

8. Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from being discharged offsite.

9. All spoils (excavated material) generated from the project site must be stored on-site with proper E&S controls. For storage or disposal of spoils at another site on the Edwards Aquifer Recharge Zone, the owner of the site must receive approval of a water pollution abatement plan for the placement of fill material or mass grading prior to the placement of spoils at the other site.

10. If portions of the site will have a temporary or permanent cease in construction activity lasting longer than 14 days, soil stabilization in those areas shall be initiated as soon as possible prior to the 14th day of inactivity. If activity will resume prior to the 21st day, stabilization measures are not required. If drought conditions or inclement weather prevent action by the 14th day, stabilization measures shall be initiated as soon as possible.

11. The following records shall be maintained and made available to the TCEQ upon request:
    - the dates when major grading activities occur;
    - the dates when construction activities temporarily or permanently cease on a portion of the site; and
    - the dates when stabilization measures are initiated.

12. The holder of any approved Edward Aquifer protection plan must notify the appropriate regional office in writing and obtain approval from the executive director prior to initiating any of the following:

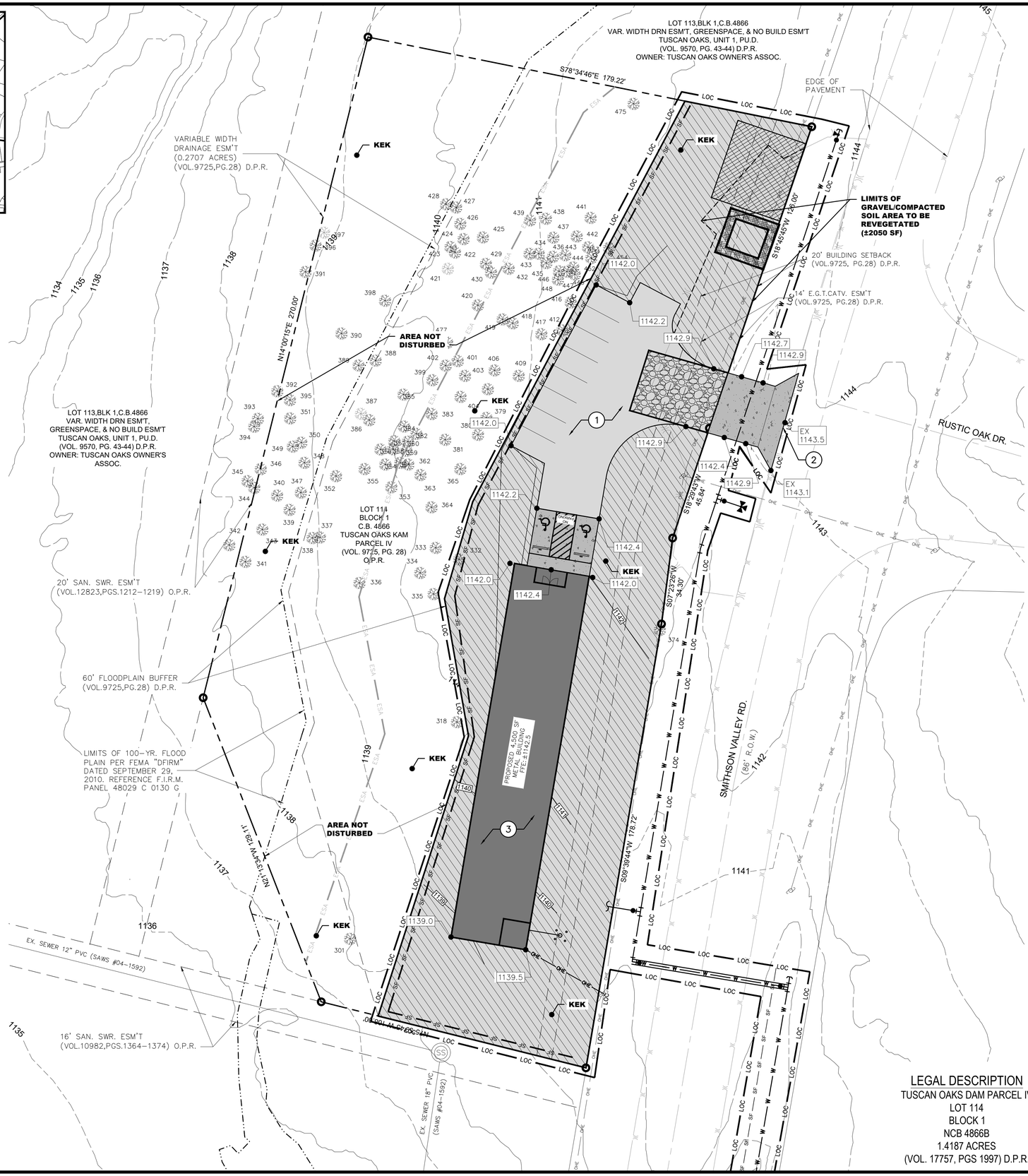
    A. any physical or operational modification of any water pollution abatement structure(s), including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;

    B. any change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;

    C. any development of land previously identified as undeveloped in the original water pollution abatement plan.

Austin Regional Office
12100 Park 35 Circle, Building A
Austin, Texas 78753-1808
Phone (512) 339-2929
Fax (512) 339-3795

San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
Phone (210) 490-3096
Fax (210) 545-4329




SCALE: 1"=20'
0 20 40

## LEGEND

- PROPERTY LINE
- SILT FENCE (SF)
- STABILIZED CONSTRUCTION ENTRANCE/EXIT
- STAGING AREA
- CONCRETE WASH–OUT PIT
- AREAS OF SOIL STABILIZATION
- AREAS OF SOIL DISTURBANCE
- AREAS TO BE REVEGETATED
- EDWARDS KAINER LIMESTONE (KEK)

## KEY NOTES

| | |
|---|---|
| 1 | PROPOSED GRAVEL MILLINGS PARKING LOT |
| 2 | PROPOSED ENTRANCE LOCATION |
| 3 | PROPOSED BUILDING LOCATION |

## LEGAL DESCRIPTION

TUSCAN OAKS DAM PARCEL IV
LOT 114
BLOCK 1
NCB 4866B
1.4187 ACRES
(VOL. 17757, PGS 1997) D.P.R.

OWNER:

MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

# MRW - SMITHSON VALLEY
# MR. W FIREWORKS SUPERSTORE

26325 SMITHSON VALLEY
SAN ANTONIO, TX 78261

ENGINEER:

F-22385
MR. W FIREWORKS, INC
12221 FM 476
SOMERSET, TEXAS 78069
P.O. BOX 114
SOMERSET, TEXAS 78069

STATE OF TEXAS
JOSEPH E. TOBER
108918
LICENSED
PROFESSIONAL ENGINEER
7.12.2023

# WATER POLLUTION ABATEMENT PLAN
# C2

F-22385

# AGENT AUTHORIZATION FORM

**Agent Authorization Form**
For Required Signature
Edwards Aquifer Protection Program
Relating to 30 TAC Chapter 213
Effective June 1, 1999

I Wayne Wildman
Print Name

President,
Title - Owner/President/Other

of Team Kam Enterprises, LTD.
Corporation/Partnership/Entity Name

have authorized Joseph E. Tober, P.E.
Print Name of Agent/Engineer

of Mr. W Fireworks, Inc. (F-22385).
Print Name of Firm

to represent and act on the behalf of the above named Corporation, Partnership, or Entity for the purpose of preparing and submitting this plan application to the Texas Commission on Environmental Quality (TCEQ) for the review and approval consideration of regulated activities.

I also understand that:

1. The applicant is responsible for compliance with 30 Texas Administrative Code Chapter 213 and any condition of the TCEQ's approval letter. The TCEQ is authorized to assess administrative penalties of up to $10,000 per day per violation.

2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

3. Application fees are due and payable at the time the application is submitted. The application fee must be sent to the TCEQ cashier or to the appropriate regional office. The application will not be considered until the correct fee is received by the commission.

4. A notarized copy of the Agent Authorization Form must be provided for the person preparing the application, and this form must accompany the completed application.

5. No person shall commence any regulated activity on the Edwards Aquifer Recharge Zone, Contributing Zone or Transition Zone until the appropriate application for the activity has been filed with and approved by the Executive Director.

SIGNATURE PAGE:

Applicant's Signature

7-17-2023
Date

THE STATE OF Texas §

County of ____ §~~Atascosa~~

BEFORE ME, the undersigned authority, on this day personally appeared Wayne Wildman known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that (s)he executed same for the purpose and consideration therein expressed.

GIVEN under my hand and seal of office on this 17 day of July, 2023.

NOTARY PUBLIC

Typed or Printed Name of Notary

WINTON ROBERSON
Notary Public, State of Texas
Comm. Expires 11-19-2024
Notary ID 126290716

MY COMMISSION EXPIRES: _____

F-22385

# APPLICATION FEE

# Application Fee Form

**Texas Commission on Environmental Quality**

Name of Proposed Regulated Entity: MRW Smithson Valley

Regulated Entity Location: 26325 Smithson Valley Rd. San Antonio, TX 78261

Name of Customer: Team Kam Enterprises, LTD

Contact Person: Joseph E. Tober, P.E. Phone: (210)622-3112

Customer Reference Number (if issued):CN _____

Regulated Entity Reference Number (if issued):RN _____

**Austin Regional Office (3373)**

☐ Hays ☐ Travis ☐ Williamson

**San Antonio Regional Office (3362)**

☒ Bexar ☐ Medina ☐ Uvalde

☐ Comal ☐ Kinney

Application fees must be paid by check, certified check, or money order, payable to the **Texas Commission on Environmental Quality**. Your canceled check will serve as your receipt. **This form must be submitted with your fee payment**. This payment is being submitted to:

☐ Austin Regional Office

☐ Mailed to: TCEQ - Cashier
Revenues Section
Mail Code 214
P.O. Box 13088
Austin, TX 78711-3088

☒ San Antonio Regional Office

☐ Overnight Delivery to: TCEQ - Cashier
12100 Park 35 Circle
Building A, 3rd Floor
Austin, TX 78753
(512)239-0357

**Site Location (Check All That Apply):**

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

| *Type of Plan* | *Size* | *Fee Due* |
|---|---|---|
| Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling | Acres | $ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks | Acres | $ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential | 1.4187 Acres | $ 4,000 |
| Sewage Collection System | L.F. | $ |
| Lift Stations without sewer lines | Acres | $ |
| Underground or Aboveground Storage Tank Facility | Tanks | $ |
| Piping System(s)(only) | Each | $ |
| Exception | Each | $ |
| Extension of Time | Each | $ |

Signature: Joseph E. Tober Date: 7.11.2023

# Application Fee Schedule

**Texas Commission on Environmental Quality**
Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

***Water Pollution Abatement Plans and Modifications***

***Contributing Zone Plans and Modifications***

| *Project* | *Project Area in Acres* | *Fee* |
|---|---|---|
| One Single Family Residential Dwelling | < 5 | $650 |
| Multiple Single Family Residential and Parks | < 5<br>5 < 10<br>10 < 40<br>40 < 100<br>100 < 500<br>≥ 500 | $1,500<br>$3,000<br>$4,000<br>$6,500<br>$8,000<br>$10,000 |
| Non-residential (Commercial, industrial, institutional, multi-family residential, schools, and other sites where regulated activities will occur) | < 1<br>1 < 5<br>5 < 10<br>10 < 40<br>40 < 100<br>≥ 100 | $3,000<br>$4,000<br>$5,000<br>$6,500<br>$8,000<br>$10,000 |

***Organized Sewage Collection Systems and Modifications***

| *Project* | *Cost per Linear Foot* | *Minimum Fee-Maximum Fee* |
|---|---|---|
| Sewage Collection Systems | $0.50 | $650 - $6,500 |

***Underground and Aboveground Storage Tank System Facility Plans and Modifications***

| *Project* | *Cost per Tank or Piping System* | *Minimum Fee-Maximum Fee* |
|---|---|---|
| Underground and Aboveground Storage Tank Facility | $650 | $650 - $6,500 |

***Exception Requests***

| *Project* | *Fee* |
|---|---|
| Exception Request | $500 |

***Extension of Time Requests***

| *Project* | *Fee* |
|---|---|
| Extension of Time Request | $150 |

F-22385

# 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

**1. Reason for Submission** (*If other is checked please describe in space provided.*)

☒ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☐ Renewal (*Core Data Form should be submitted with the renewal form*) ☐ Other

| 2. Customer Reference Number *(if issued)* | Follow this link to search for CN or RN numbers in Central Registry** | 3. Regulated Entity Reference Number *(if issued)* |
|---|---|---|
| CN | | RN |

## SECTION II: Customer Information

| 4. General Customer Information | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | 07/11/2023 |
|---|---|---|

☒ New Customer ☐ Update to Customer Information ☐ Change in Regulated Entity Ownership

☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

***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).***

| 6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)* | *If new Customer, enter previous Customer below:* |
|---|---|
| TEAM KAM ENTERPRISES, LTD | |

| 7. TX SOS/CPA Filing Number | 8. TX State Tax ID (11 digits) | 9. Federal Tax ID (9 digits) | 10. DUNS Number *(if applicable)* |
|---|---|---|---|
| 802569890 | 32061914779 | 81-4275807 | N/A |

**11. Type of Customer:** ☒ Corporation ☐ Individual Partnership: ☐ General ☐ Limited

Government: ☐ City ☐ County ☐ Federal ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

**12. Number of Employees**
☒ 0-20 ☐ 21-100 ☐ 101-250 ☐ 251-500 ☐ 501 and higher

**13. Independently Owned and Operated?**
☒ **Yes** ☐ **No**

**14. Customer Role** (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ Voluntary Cleanup Applicant ☐ Other:

| 15. Mailing Address: | P.O. Box 114 | | | | | | |
|---|---|---|---|---|---|---|---|
| | City | Somerset | State | TX | ZIP | 78069 | ZIP + 4 |

| 16. Country Mailing Information *(if outside USA)* | 17. E-Mail Address *(if applicable)* |
|---|---|
| | |

| 18. Telephone Number | 19. Extension or Code | 20. Fax Number *(if applicable)* |
|---|---|---|
| ( 210 ) 622-3112 | | ( ) - |

## SECTION III: Regulated Entity Information

**21. General Regulated Entity Information** (*If 'New Regulated Entity" is selected below this form should be accompanied by a permit application*)

☒ New Regulated Entity ☐ Update to Regulated Entity Name ☐ Update to Regulated Entity Information

***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).***

**22. Regulated Entity Name** (*Enter name of the site where the regulated action is taking place.*)

MRW Smithson Valley

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **23. Street Address of the Regulated Entity:** ***(No PO Boxes)*** | 26325 Smithson Valley Rd. | | | | | | | |
| | **City** | San Antonio | **State** | TX | **ZIP** | 78261 | **ZIP + 4** | |
| **24. County** | Bexar | | | | | | | |

**Enter Physical Location Description if no street address is provided.**

| | | | | | |
|---|---|---|---|---|---|
| **25. Description to Physical Location:** | | | | | |
| **26. Nearest City** | | | **State** | **Nearest ZIP Code** | |
| San Antonio | | | TX | 78261 | |
| **27. Latitude (N) In Decimal:** | 29.690026 | | **28. Longitude (W) In Decimal:** | -98.442034 | |
| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
| 29 | 41 | 24.094 | -98 | 26 | 31.322 |

| **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) |
|---|---|---|---|
| 5092 | 5999 | 423920 | 453998 |

**33. What is the Primary Business of this entity?** *(Do not repeat the SIC or NAICS description.)*

Commercial Firework Super Store

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **34. Mailing Address:** | **P.O. Box 114** | | | | | | | |
| | **City** | **Somerset** | **State** | **TX** | **ZIP** | **78069** | **ZIP + 4** | |
| **35. E-Mail Address:** | | | | | | | | |

| **36. Telephone Number** | **37. Extension or Code** | **38. Fax Number** ***(if applicable)*** |
|---|---|---|
| ( ) - | | ( ) - |

**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.

| | | | | |
|---|---|---|---|---|
| ☐ Dam Safety | ☐ Districts | ☒ Edwards Aquifer | ☐ Emissions Inventory Air | ☐ Industrial Hazardous Waste |
| | | | | |
| ☐ Municipal Solid Waste | ☐ New Source Review Air | ☐ OSSF | ☐ Petroleum Storage Tank | ☐ PWS |
| | | | | |
| ☐ Sludge | ☐ Storm Water | ☐ Title V Air | ☐ Tires | ☐ Used Oil |
| | | | | |
| ☐ Voluntary Cleanup | ☐ Waste Water | ☐ Wastewater Agriculture | ☐ Water Rights | ☐ Other: |
| | | | | |

## SECTION IV: Preparer Information

| | | | |
|---|---|---|---|
| **40. Name:** | Joseph E. Tober, P.E. | **41. Title:** | Project Engineer |

| **42. Telephone Number** | **43. Ext./Code** | **44. Fax Number** | **45. E-Mail Address** |
|---|---|---|---|
| ( 210 ) 622-3112 | 102 | ( ) - | joseph@mrwfireworks.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:** | Mr. W Fireworks | **Job Title:** | President |
| **Name** *(In Print):* | Wayne Wildman | **Phone:** | ( 210 ) 622- **3112** |

| Signature: | Joseph E. [illegible] | Date: | 7.17.23 |
|---|---|---|---|