



MIGL  
ENGINEERING  
AND CONSULTING



# **EDWARDS AQUIFER WATER POLLUTION ABATEMENT PLAN (WPAP)**

## **501 RILEY ROAD**

**SITE LOCATED IN EDWARD'S AQUIFER RECHARGE ZONE**

**Prepared for**  
Russell and Kate Dunnam  
P.O. Box 400  
Victoria, Texas 77902

**Prepared by**  
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Austin, Texas 78749

  
 11/13/23

Project No. 0212.001  
October 2023

# Texas Commission on Environmental Quality

## Edwards Aquifer Application Cover Page

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### 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.

<b>1. Regulated Entity Name:</b> 501 Riley Road				<b>2. Regulated Entity No.:</b> N/A			
<b>3. Customer Name:</b> Russell Dunnam				<b>4. Customer No.:</b> N/A			
<b>5. Project Type:</b> (Please circle/check one)	<input checked="" type="radio"/> New	Modification		Extension		Exception	
<b>6. Plan Type:</b> (Please circle/check one)	<input checked="" type="radio"/> WPAP <input type="radio"/> QZP	SCS	UST	AST	EXP	EXT	Technical Clarification
<b>7. Land Use:</b> (Please circle/check one)	<input checked="" type="radio"/> Residential	Non-residential			<b>8. Site (acres):</b>		0.46 acres
<b>9. Application Fee:</b>	\$650	<b>10. Permanent BMP(s):</b>			Grassy Swale		
<b>11. SCS (Linear Ft.):</b>		<b>12. AST/UST (No. Tanks):</b>					
<b>13. County:</b>	Travis	<b>14. Watershed:</b>			Lady Bird Lake		

# 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](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.)	—	<u>X</u>	—
Region (1 req.)	—	<u>X</u>	—
County(ies)	—	<u>X</u>	—
Groundwater Conservation District(s)	<u>—</u> Edwards Aquifer Authority <u>—</u> Barton Springs/ Edwards Aquifer <u>—</u> Hays Trinity <u>—</u> Plum Creek	<u>—</u> Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	<u>—</u> Austin <u>—</u> Buda <u>—</u> Dripping Springs <u>—</u> Kyle <u>—</u> Mountain City <u>—</u> San Marcos <u>—</u> Wimberley <u>—</u> Woodcreek	<u>—</u> Austin <u>—</u> Bee Cave <u>—</u> Pflugerville <u>X</u> Rollingwood <u>—</u> Round Rock <u>—</u> Sunset Valley <u>—</u> West Lake Hills	<u>—</u> Austin <u>—</u> Cedar Park <u>—</u> Florence <u>—</u> Georgetown <u>—</u> Jerrell <u>—</u> Leander <u>—</u> Liberty Hill <u>—</u> Pflugerville <u>—</u> Round Rock

San Antonio Region					
County:	Bexar	Comal	Kinney	Medina	Uvalde
Original (1 req.)	—	—	—	—	—
Region (1 req.)	—	—	—	—	—
County(ies)	—	—	—	—	—
Groundwater Conservation District(s)	<u>—</u> Edwards Aquifer Authority <u>—</u> Trinity-Glen Rose	<u>—</u> Edwards Aquifer Authority	<u>—</u> Kinney	<u>—</u> EAA <u>—</u> Medina	<u>—</u> EAA <u>—</u> Uvalde
City(ies) Jurisdiction	<u>—</u> Castle Hills <u>—</u> Fair Oaks Ranch <u>—</u> Helotes <u>—</u> Hill Country Village <u>—</u> Hollywood Park <u>—</u> San Antonio (SAWS) <u>—</u> Shavano Park	<u>—</u> Bulverde <u>—</u> Fair Oaks Ranch <u>—</u> Garden Ridge <u>—</u> New Braunfels <u>—</u> Schertz	NA	<u>—</u> 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.

Kyle C. Quick, P.E.

Print Name of Customer/Authorized Agent

10/09/23

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):

# 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.***

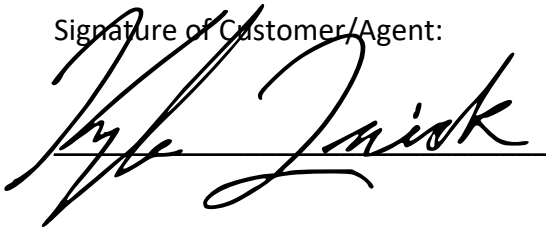
## Signature

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: Kyle C. Quick, PE

Date: 10/9/23

Signature of Customer/Agent:



## Project Information

1. Regulated Entity Name: 501 Riley Road
2. County: Travis
3. Stream Basin: Lady Bird Lake
4. Groundwater Conservation District (If applicable): NA
5. Edwards Aquifer Zone:  
☒ Recharge Zone  
☐ Transition Zone
6. Plan Type:  
☒ WPAP  
☐ SCS

- ☐ Modification  
☐ AST

☐ UST

☐ Exception Request

7. Customer (Applicant):

Contact Person: Russell Dunnam

Entity: 501 Riley Road

Mailing Address: P.O. Box 400

City, State: Victoria, Texas

Zip: 77902

Telephone: (512) 474-1917

FAX: \_\_\_\_\_

Email Address: rmdunnam@icloud.com

8. Agent/Representative (If any):

Contact Person: Kyle C. Quick, PE

Entity: Migl Engineering & Consulting, PLLC

Mailing Address: 9600 Escarpment Blvd, Suite 745-174

City, State: Austin, TX

Zip: 78749

Telephone: (512) 965-2318

FAX: \_\_\_\_\_

Email Address: kyle@miglengineering.com

9. Project Location:

☒ The project site is located inside the city limits of Rollingwood.

☐ The project site is located outside the city limits but inside the ETJ (extra-territorial jurisdiction) of \_\_\_\_\_.

☐ 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.

The site is located at the intersection of Riley Road & Pickwick Lane

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: \_\_\_\_\_

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:

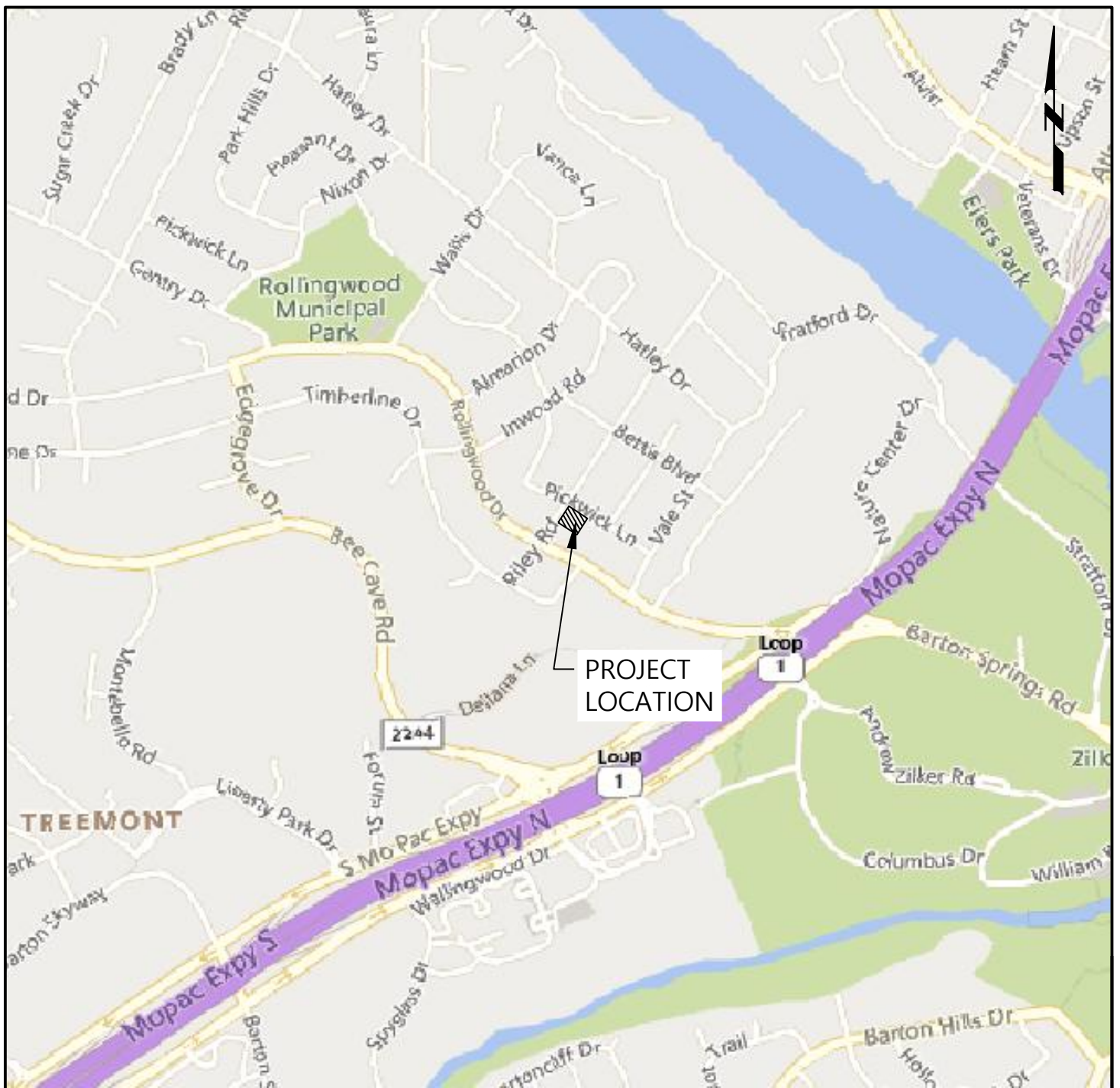
- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an 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.



## VICINITY MAP

1" = 1000'



**MIGL ENGINEERING AND CONSULTING**  
 9600 Escarpment Blvd, Suite 745-174  
 Austin, TX 78749 | 512 750 0440  
 Texas Registered Engineering Firm F-16967

CLIENT/PROJECT DUNNAM RESIDENCE 501 RILEY ROAD ROLLINGWOOD, TEXAS 78746	PROJECT NO. 0212-001
SHEET TITLE VICINITY MAP	SHEET NO. EX 1 1 OF 1

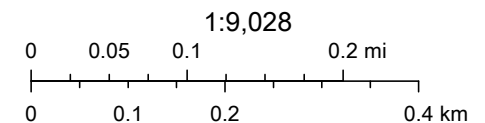


# 501 Riley Road Edwards Aquifer Map



8/26/2022, 1:29:48 PM

- TX Counties
- Edwards Aquifer Label
- Edwards Aquifer Boundary
- Edwards Aquifer Boundary central line
- 7.5 Minute Quad Grid



Austin Community College, City of Austin, Texas Parks & Wildlife, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, METI/NASA, EPA,

Web AppBuilder for ArcGIS

TCEQ | Austin Community College, City of Austin, Texas Parks & Wildlife, Esri, HERE, Garmin, GeoTechnologies, Inc., Intermap, USGS, METI/NASA, EPA, USDA |

## **ATTACHMENT C – PROJECT DESCRIPTION**

### **1.0 GENERAL PROJECT INFORMATION**

The proposed project includes the construction of a single-family home, water quality controls, and detention at 501 Riley Road located in Rollingwood, Texas. The 0.46-acre site is located at the intersection of Riley Road and Pickwick Lane.

### **2.0 SITE BACKGROUND**

The property had been previously developed before the implementation of TCEQ regulations. The existing improvements include a single family residence, driveway, carport, and associated improvements.

### **3.0 SITE IMPROVEMENTS**

The site improvements include a 5,555 square foot house, driveway connecting to Pickwick Lane, sidewalk from Riley Road, a grassy swale, and a shallow detention pond.

This project includes BMPs for all proposed impervious cover. Impervious cover in place on the 0.46-acre parcel prior to 1986 totaled 3,911 square feet. This project proposes to add 3,367 square feet. BMPs designed to treat this increase in impervious cover is a grassy swale.

Site impervious cover for the entire 0.46 acres after improvements will total 7,278 square feet, or 0.167 acres.





# 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.*

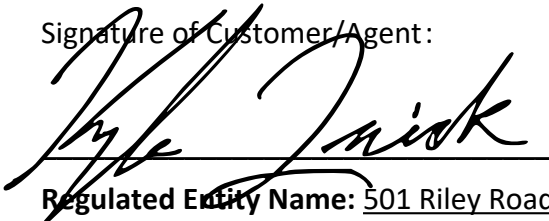
## Signature

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: Kyle C. Quick, PE

Date: 10/9/23

Signature of Customer/Agent:

A handwritten signature in black ink, appearing to read 'Kyle C. Quick', is written over a horizontal line.

Regulated Entity Name: 501 Riley Road

## Regulated Entity Information

1. The type of project is:

- ☒ Residential: Number of Lots: 1
- ☐ Residential: Number of Living Unit Equivalents: \_\_\_\_\_
- ☐ Commercial
- ☐ Industrial
- ☐ Other: \_\_\_\_\_

2. Total site acreage (size of property): 0.46

3. Estimated projected population: 4

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	5,555	$\div 43,560 =$	0.128
Parking	1,208	$\div 43,560 =$	0.028
Other paved surfaces	515	$\div 43,560 =$	0.012
Total Impervious Cover	7,278	$\div 43,560 =$	0.167

**Total Impervious Cover  $0.167 \div$  Total Acreage  $0.46 \times 100 = 36.12\%$  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.

$L \times W =$  \_\_\_\_\_  $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$  \_\_\_\_\_ acres.

10. Length of pavement area: \_\_\_\_\_ feet.

Width of pavement area: \_\_\_\_\_ feet.

$L \times W =$  \_\_\_\_\_  $\text{Ft}^2 \div 43,560 \text{ Ft}^2/\text{Acre} =$  \_\_\_\_\_ acres.

Pavement area \_\_\_\_\_ acres  $\div$  R.O.W. area \_\_\_\_\_ acres  $\times 100 =$  \_\_\_\_\_ % 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:

<u>100%</u> Domestic	_____ Gallons/day
_____ % Industrial	_____ Gallons/day
_____ % Commingled	
<u>400</u> Gallons/day	
TOTAL gallons/day <u>400</u>	

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 The Rollingwood Wastewater System (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): FIRM Panel 48453C0445K, effective 01/22/2020

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.

## **ATTACHMENT A – FACTORS AFFECTING SURFACE WATER QUALITY**

Factors affecting the quality of surface water and groundwater are the parking and use of motor vehicles on the site. This includes the emission of certain hydrocarbon based substances, as well as the tracking of silt. Run-off will include oils, grease, and other substances typically associated with roadways and vehicle use areas. Also, the maintenance of lawn areas could affect the quality of surface water and ground water through runoff of chemical fertilizers and pesticides. Proposed improvements will be treated by a grassy swale.

## **ATTACHMENT B – VOLUME AND CHARACTER OF STORMWATER**

### **DRAINAGE AND RUNOFF**

The site slopes south towards the adjacent tract with drainage patterns remaining relatively unchanged by the site improvements. Approximately 0.04 acres upgradient of the site drain to onto the property as shown in the existing and proposed drainage area maps. The onsite proposed roof, back patio, and garage runoff is directed to a grassy swale designed to meet TCEQ water quality requirements. The property is predominantly of a Type D soil resulting in a CN of 80. During construction, the principal pollutant in stormwater will be sediment caused by the disturbance of construction. Temporary BMPs will control sediment and other pollutants during construction.

### **WATER QUALITY**

After construction, there will be runoff from building surfaces, paved areas, and managed lawn/landscaped areas. This project includes BMPs for all impervious cover placed after 1986. Impervious cover in place on the 0.46-acre parcel prior to 1986 totaled 3,911 square feet. This project proposes to add 3,367 square feet. BMPs designed to treat this increase in impervious cover is a grassy swale, sized for a total TSS removal of 80% from proposed to



existing conditions. A total of 67 pounds of TSS removal is required. The contributing area of the water quality control is the majority of the property and consists of a combination of building, patio, and sidewalk runoff.

## **ATTACHMENT C – SUITABILITY LETTER FROM AUTHORIZED AGENT**

**NOT APPLICABLE**

## **ATTACHMENT D – EXCEPTION TO THE GEOLOGIC ASSESSMENT**

This application is for the redevelopment of an existing residential homestead. An exception from a geologic assessment is requested as the majority of the new development footprint is on the portion of the site that has been previously developed. The proposed improvements will occur in areas which were previously disturbed during construction of the original house and driveway.

No known CEFs were discovered during the original construction, and no portion of the proposed improvements are located elsewhere on the property.



**From:** James Slone <james.slone@tceq.texas.gov>  
**Sent:** Friday, November 10, 2023 11:10 AM  
**To:** kyle@miglengineering.com  
**Cc:** Sarah Patterson  
**Subject:** RE: 501 Riley Road - WPAP - Administrative NOD

Kyle,  
It appears to be an individual single family residence, correct? If so, a Geologic Assessment is not required; essentially TCEQ does it during our site assessment. In Attachment D -Request for an Exception to a Geologic Assessment. Just state that one is not required for individual single-family residences.  
Keep this email for your records and submit/add it to the same attachment.  
Bo

James "Bo" Slone, P.G.  
Geoscientist  
Edwards Aquifer Protection Program  
Texas Commission on Environmental Quality  
(512) 239-5711

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**From:** kyle@miglengineering.com <kyle@miglengineering.com>  
**Sent:** Thursday, November 9, 2023 2:36 PM  
**To:** James Slone <james.slone@tceq.texas.gov>  
**Cc:** Sarah Patterson <Sarah.Patterson@tceq.texas.gov>  
**Subject:** RE: 501 Riley Road - WPAP - Administrative NOD

Yessir – 501 Riley Road, Rollingwood, Texas 78746

<https://maps.app.goo.gl/DcyDLH7RvW1mn6T19>

Best,

**Kyle Quick, PE**  
Project Manager

**MIGL ENGINEERING AND CONSULTING**  
9600 Escarpment Boulevard Suite 745-174  
Austin, Texas 78749 | 512 965 2318

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**From:** James Slone <[james.slone@tceq.texas.gov](mailto:james.slone@tceq.texas.gov)>  
**Sent:** Thursday, November 9, 2023 2:09 PM  
**To:** [kyle@miglengineering.com](mailto:kyle@miglengineering.com)  
**Cc:** Sarah Patterson <[Sarah.Patterson@tceq.texas.gov](mailto:Sarah.Patterson@tceq.texas.gov)>  
**Subject:** RE: 501 Riley Road - WPAP - Administrative NOD

Kyle,



We are doing it on the front end so no one needs to get a GA quickly performed if we deny the request during the review. Can you give me the address? I will look at in Google Earth and get you an answer.

Thanks,  
Bo

---

**From:** [kyle@miglengineering.com](mailto:kyle@miglengineering.com) <[kyle@miglengineering.com](mailto:kyle@miglengineering.com)>

**Sent:** Thursday, November 9, 2023 1:43 PM

**To:** James Slone <[james.slone@tceq.texas.gov](mailto:james.slone@tceq.texas.gov)>

**Cc:** Sarah Patterson <[Sarah.Patterson@tceq.texas.gov](mailto:Sarah.Patterson@tceq.texas.gov)>

**Subject:** FW: 501 Riley Road - WPAP - Administrative NOD

Good Afternoon Bo,

I received this Administrative NOD for requesting a GA Exception which is new to me; usually this is discussed during the Technical Review. I was asked to reach out to you in regards to it.

The proposed project is a residential redevelopment on 0.46 acres in Rollingwood, TX which sits over the EARZ. Similar to the other projects we have done in the area, the proposed building footprint is predominantly in the same location as the current house. Since no CEFs or drainage features are observed around the existing foundation, along with the small scale of the project (less than ½ acre), we are requesting an Exception to the Geologic Assessment.

Please let me know if you have any questions.

Best,

**Kyle Quick, PE**  
Project Manager

**MIGL ENGINEERING AND CONSULTING**  
9600 Escarpment Boulevard Suite 745-174  
Austin, Texas 78749 | 512 965 2318

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**From:** EAAdmin <[EAAdmin@tceq.texas.gov](mailto:EAAdmin@tceq.texas.gov)>

**Sent:** Tuesday, October 24, 2023 2:23 PM

**To:** [kyle@miglengineering.com](mailto:kyle@miglengineering.com)

**Subject:** 501 Riley Road - WPAP - Administrative NOD

Good afternoon,

During the administrative review of the **501 Riley Road – WPAP** the following deficiencies were noted:

**Water Pollution Abatement Plan Application Form (TCEQ-0584)**

Attachment D - Exception to the Required Geologic Assessment

- To request an exception to the GA, please contact Mr. James “Bo” Slone ([james.slone@tceq.texas.gov](mailto:james.slone@tceq.texas.gov)) and attach a copy of the correspondence to this application.

**Core Data Form (TCEQ-10400)**

- Please remove the information on line 9.

Please ensure all documents and attachments are in order according to checklists found here

<https://www.tceq.texas.gov/permitting/eapp/material.html> and upload the revised application to the TCEQ ftp site and

share with [EAdmin@tceq.texas.gov](mailto:EAdmin@tceq.texas.gov). EAPP staff will review the revisions within two weeks and notify you of any deficiencies not addressed or to request payment.

Thank you,

**Sarah Patterson**

License & Permit Specialist | Edwards Aquifer Protection Program  
Texas Commission on Environmental Quality  
512-239-7009

# 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: Kyle C. Quick, PE

Date: 10/9/23

Signature of Customer/Agent:

A handwritten signature in black ink, appearing to read "Kyle C. Quick", is written over a horizontal line.

Regulated Entity Name: 501 Riley Road

## 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: Lady Bird Lake

### ***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.

## **ATTACHMENT A – SPILL RESPONSE ACTION**

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

### **Education**

- 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 a spill must be reported to the TCEQ. Information is available in 30 TAC 327.4 and 40 CFR 302.4.
- Educate employees and subcontractors on potential dangers to humans and the environment from spills and leaks.
- Hold regular meetings to discuss and reinforce appropriate disposal procedures (incorporate into regular safety meetings.)
- Establish a continuing education program to indoctrinate new employees.
- Have contractor’s superintendent or representative oversee and enforce proper spill prevention and control measures.

### **General Measures**

- 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.
- Store hazardous materials and wastes in covered containers and protect from vandalism.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- Train employees in spill prevention and cleanup.
- Designate responsible individuals to oversee and enforce control measures.
- Spills should be covered and protected from stormwater run-on during rainfall to the extent that it doesn’t compromise clean up activities.





## **501 RILEY ROAD**

### **WATER POLLUTION ABATEMENT PLAN**

#### **TEMPORARY STORMWATER SECTION FORM TCEQ-0602**

- Do not bury or wash spills with water.
- 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.
- 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.
- Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- 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.
- 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**

- Clean up leaks and spills immediately.
- 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.
- 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**

- 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.
- Use absorbent materials on small spills rather than hosing down or burying the spill.



## **501 RILEY ROAD**

### **WATER POLLUTION ABATEMENT PLAN**

#### **TEMPORARY STORMWATER SECTION FORM TCEQ-0602**

- Absorbent materials should be promptly removed and disposed of properly.
- Follow the practice below for a minor spill:
- Contain the spread of the spill.
- Recover spilled materials.
- 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:

- Contain spread of the spill.
- Notify the project foreman immediately.
- 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.
- If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- 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:

- 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.
- 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.



## **501 RILEY ROAD**

### **WATER POLLUTION ABATEMENT PLAN**

#### **TEMPORARY STORMWATER SECTION FORM TCEQ-0602**

- Notification should first be made by telephone and followed up with a written report.
- 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.
- Other agencies which may need to be consulted include, but are not limited to, the City Police Department, Country Sheriff Office, Fire Departments, etc.

#### **Vehicle and Equipment Maintenance**

- If maintenance must occur onsite, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- Regularly inspect onsite vehicles and equipment for leaks and repair immediately.
- 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.
- Always use secondary containment, such as a drain pan or drop cloth, to catch spills or leaks when removing or changing fluids.
- Place drip pans or absorbent materials under paving equipment when not in use.
- Use absorbent materials on small spills rather than hosing down or burying the spill. Remove the absorbent materials promptly and dispose of properly.
- Promptly transfer used fluids to the proper waste or recycling drums. Don't leave full drip pans or other open containers lying around.
- 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.
- Store cracked batteries in a non-leaking secondary container. Do this with all cracked batteries even if you think all the acid had drained out. If you drop a battery,



**501 RILEY ROAD****WATER POLLUTION ABATEMENT PLAN****TEMPORARY STORMWATER SECTION FORM TCEQ-0602**

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**

- If fueling must occur on site, use designated areas, located away from drainage courses, to prevent the run-on of stormwater and the runoff of spills.
- Discourage “topping off” of fuel tanks.
- Always use secondary containment, such as a drain pan, when fueling to catch spills/leaks.

**ATTACHMENT B – POTENTIAL SOURCES OF CONTAMINATION**

Potential sources of contamination at the site include:

- Oil and other engine fluids from vehicles and equipment during and after construction.
- On-site maintenance and fueling of construction equipment.
- Short-term storage of flexible-base material, asphaltic products, pipe bedding materials and miscellaneous soils, gravel, etc.
- Emissions from vehicles.
- Tracking silt onto paved surfaces by construction equipment.
- Erosion/siltation from the construction disturbance.
- Possible littering around the construction site.
- Short-term exposure of soil surface during construction prior to stabilization.
- Short-term storage and use of fertilizers for use in establishing vegetation.



## **ATTACHMENT C – SEQUENCE OF CONSTRUCTION ACTIVITIES**

The following list of activities will be followed once construction begins.

Activity:	Area:
Installation of Temporary Erosion and Sedimentation Controls	320 LF
Demolition Activities	0.090 AC
Utility Installation	0 LF
Grading	0.17 AC
Paving/ Infrastructure	0.17 AC
Remove Temporary Erosion and Sedimentation Controls	320 LF
Revegetation	0.29 AC

## **ATTACHMENT D – TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES**

The temporary BMP's shall be designed and placed in accordance with City of Rollingwood and TCEQ requirements. The temporary BMP's shall be installed prior to any site preparation work (clearing, grubbing, or excavation) and will be in place for all sequenced activities.

### **Silt Fence**

Silt fence shall be installed immediately down gradient and where possible, up-gradient, of area of disturbance. See the construction plans for details on the construction and installation of silt fence.

### **Tree Protection**

Tree protection shall be installed around trees to prevent tree damage and potential damage or disturbance of the tree's root zone. See the construction plans for details on the construction and installation of tree protection measures.



**ATTACHMENT E – REQUEST TO TEMPORARILY SEAL A  
FEATURE**

**NOT APPLICABLE**

**ATTACHMENT F – STRUCTURAL PRACTICES**

Silt fence shall be installed immediately down gradient of any exposed soils in order to limit the discharge of silt and pollutants from disturbed areas of the site. Silt fence will also be installed up-gradient of the Contractor Staging Area to limit runoff across the construction area.

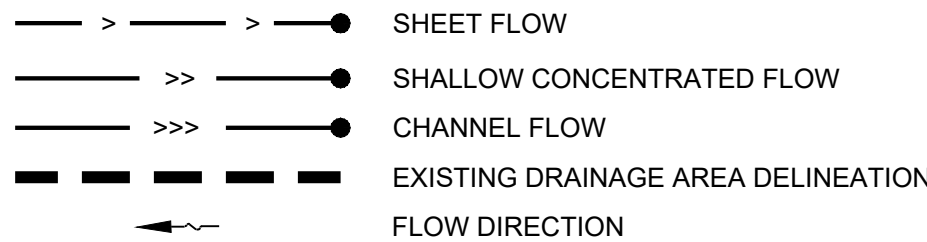


**501 RILEY ROAD**  
WATER POLLUTION ABATEMENT PLAN  
TEMPORARY STORMWATER SECTION FORM TCEQ-0602

## **ATTACHMENT G – DRAINAGE AREA MAP**







DRAINAGE AREA SUMMARY TABLE							
501 Riley Road							
DRAINAGE AREA	EXISTING			PROPOSED			
	OS	A	POC 1	OS	A	POND	POC 1
AREA (M <sup>2</sup> )	0.00007	0.00072		0.00007	0.00072		
Area (AC)	0.043	0.463		0.043	0.463		
CN	80.00	83.49		80.00	86.50		
% IC	0.00%	19.41%		0.00%	36.12%		
24 HR STORM PEAK RUNOFF FLOW RATES (CFS)							
2 - YR	0.15	1.99	2.15	0.15	2.24	1.72	1.85
10 - YR	0.29	3.44	3.73	0.29	3.65	3.06	3.32
25 - YR	0.38	4.40	4.79	0.38	4.59	4.31	4.68
100 - YR	0.54	5.97	6.50	0.54	6.11	5.95	6.46

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC SYSTEMS FROM DRAINING, DIGGING, OR MOVING OF THE ELECTRIC LINES. SETTING, PLACING, OR REMOVING ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES BAKER-AICKLEN & ASSOCIATES AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

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SHEET NO. C2  
2 OF 7







## **ATTACHMENT H – TEMPORARY SEDIMENT POND PLAN AND CALCULATIONS**

**NOT APPLICABLE**

## **ATTACHMENT I – INSPECTION AND MAINTENANCE FOR BMPS**

### **Silt Fences:**

Inspect all silt fencing weekly and after any rainfall. Remove sediment when buildup reaches 6 inches. Replace any torn silt fence fabric or install a second line of fencing parallel to the torn section. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of silt 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. Fences shall be checked for structural damage from stormwater flows immediately after a significant (0.5") rainfall as soon as ground conditions make fences accessible (usually within 24 hours). Should there be prolonged rainfall, inspections should be conducted without vehicles and temporary repairs made until equipment can be brought in without major surface damage. Adjust fence configuration, if necessary, after rainfall events to accommodate conditions defined by stormwater flows. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

### **Record keeping:**

Project superintendent shall have a log for entering site inspections for both weekly and rainfall events. Results of inspections including damage and recommended repairs shall be noted, along with inspection personnel data and date of remedial action taken.



## **ATTACHMENT J – SCHEDULE OF INTERIM AND PERMANENT SOIL STABILIZATION PRACTICES**

Interim soil stabilization shall be instituted as soon as practicable in portions of the site where construction activities have been temporarily or permanently ceased, but in no case more than fourteen (14) days; however, areas that will be redisturbed within twenty-one (21) days do not have to be stabilized. Records must be kept of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and as to when each soil stabilization measure was initiated in each area.



# 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)(li), (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.***

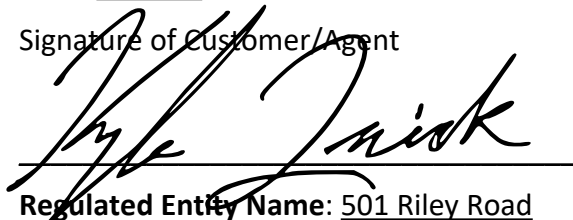
## Signature

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: Kyle Quick, PE

Date: 10/9/23

Signature of Customer/Agent

A handwritten signature in black ink, appearing to read "Kyle Quick", is written over a horizontal line.

Regulated Entity Name: 501 Riley Road

## 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

## **ATTACHMENT A – 20% OR LESS IMPERVIOUS COVER WAIVER NOT APPLICABLE**

### **ATTACHMENT B – BMPs FOR UPGRADIENT STORMWATER**

The proposed development is located in the Lady Bird Lake Watershed. There is approximately 0.04 acres of upgradient storm water expected to flow through the site. The upgradient flow crosses the proposed site in a sheet flow manner. During construction, upgradient silt fences will be installed to keep offsite flows from traveling through the limits of construction.

### **ATTACHMENT C – BMPs FOR ON-SITE STORMWATER**

The 0.46-acre tract was originally developed as a residential property. This project includes BMPs for all impervious cover placed after 1986. Impervious cover in place prior to 1986 totaled 3,911 square feet. The redevelopment proposes to add 3,367 square feet. BMPs designed to treat this 3,367 square feet is a grassy swale.

0.46 acres of the tract is contributing to the BMP, sized for a total TSS removal of 80% from proposed to pre-1986 conditions. A total of 67 pounds of TSS removal is required. The contributing areas of the water quality controls consist of a combination of building, patio, and sidewalk runoff.

### **ATTACHMENT D – BMPs FOR SURFACE STREAMS**

Lady Bird Lake is protected by the proposed BMP's. There are areas of concentrated runoff for which the design has accounted for both during and after construction. This project includes BMPs for all impervious cover placed after 1986. Impervious cover in place prior to 1986 totaled 3,911 square feet while the redevelopment proposes to add 3,367 square feet.

0.46 acres of the tract is contributing to the BMP, sized for a total TSS removal of 80% from proposed to pre-1986 conditions. A total of 67 pounds of TSS removal is required. The contributing areas of the water quality controls consist of a combination of building, patio, and sidewalk runoff.





**ATTACHMENT E – REQUEST TO SEAL FEATURES**

**NOT APPLICABLE**

**ATTACHMENT F – CONSTRUCTION PLANS**

The construction plans have been attached as part of this submittal.



Texas Commission on Environmental Quality

**TSS Removal Calculations 04-20-2009**

Project Name: **501 Riley Road**

Date Prepared: **8/18/2023**

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.

Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.

Characters shown in red are data entry fields.

Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

**1. The Required Load Reduction for the total project:**

Calculations from RG-348 Pages 3-27 to 3-30

Page 3-29 Equation 3.3:  $L_M = 27.2(A_N \times P)$

where:

$L_{M \text{ TOTAL PROJECT}}$  = Required TSS removal resulting from the proposed development = 80% of increased load

$A_N$  = Net increase in impervious area for the project

$P$  = Average annual precipitation, inches

Site Data: Determine Required Load Removal Based on the Entire Project

County = **Travis**

Total project area included in plan \* = **0.46** acres

Predevelopment impervious area within the limits of the plan \* = **0.09** acres

Total post-development impervious area within the limits of the plan \* = **0.17** acres

Total post-development impervious cover fraction \* = **0.36**

$P$  = **32** inches

$L_{M \text{ TOTAL PROJECT}}$  = **67** lbs.

\* The values entered in these fields should be for the total project area.

Number of drainage basins / outfalls areas leaving the plan area = **1**

**2. Drainage Basin Parameters (This information should be provided for each basin):**

Drainage Basin/Outfall Area No. = **A**

Total drainage basin/outfall area = **0.46** acres

Predevelopment impervious area within drainage basin/outfall area = **0.00** acres

Post-development impervious area within drainage basin/outfall area = **0.17** acres

Post-development impervious fraction within drainage basin/outfall area = **0.36**

$L_{M \text{ THIS BASIN}}$  = **145** lbs.

**3. Indicate the proposed BMP Code for this basin.**

Proposed BMP = **Grassy Swale**

Removal efficiency = **70** percent

**4. Calculate Maximum TSS Load Removed ( $L_R$ ) for this Drainage Basin by the selected BMP Type.**

RG-348 Page 3-33 Equation 3.7:  $L_R = (\text{BMP efficiency}) \times P \times (A_i \times 34.6 + A_p \times 0.54)$

where:

$A_C$  = Total On-Site drainage area in the BMP catchment area

$A_i$  = Impervious area proposed in the BMP catchment area

$A_p$  = Pervious area remaining in the BMP catchment area

$L_R$  = TSS Load removed from this catchment area by the proposed BMP

$A_C$  = **0.46** acres

$A_i$  = **0.17** acres

$A_p$  = **0.30** acres

$L_R$  = **133** lbs

**5. Calculate Fraction of Annual Runoff to Treat the drainage basin / outfall area**

Desired  $L_{M \text{ THIS BASIN}}$  = 67 lbs.

F = 0.51

**15. Grassy Swales**

Designed as Required in RG-348

Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A = 0.46 acres  
Impervious Cover in Drainage Area = 0.17 acres  
Rainfall intensity = i = 1.1 in/hr  
Swale Slope = 0.01 ft/ft  
Side Slope (z) = 6  
Design Water Depth = y = 0.17 ft  
Weighted Runoff Coefficient = C = 0.48

$A_{CS}$  = cross-sectional area of flow in Swale = 1.08 sf  
 $P_W$  = Wetted Perimeter = 7.52 feet  
 $R_H$  = hydraulic radius of flow cross-section =  $A_{CS}/P_W$  = 0.14 feet  
n = Manning's roughness coefficient = 0.2

**15A. Using the Method Described in the RG-348**

Manning's Equation:  $Q = \frac{1.49}{n} A_{CS} R_H^{2/3} S^{0.5}$

$b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} - zy = 5.50 \text{ feet}$

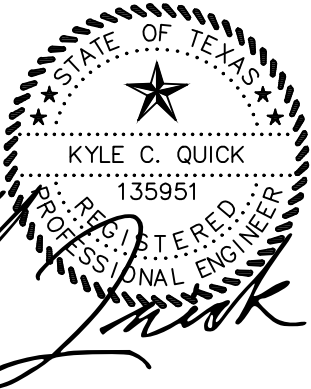
$Q = C i A = 0.24 \text{ cfs}$

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) =  $Q/A_{CS} = 0.22 \text{ ft/sec}$

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) \* 300 (sec) = 67.40 feet

  
10/9/23

## **INSPECTION, MAINTENANCE, REPAIR AND RETROFIT PLAN**

### **1.0 GRASSY SWALES**

Maintenance for grassy swales is minimal and is largely aimed at keeping the grass cover dense and vigorous. Maintenance practices and schedules should be developed and included as part of the original plans to alleviate maintenance problems in the future. Recommended practices include (modified from Young et al., 1996):

#### **1.1 Pest Management:**

An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.

#### **1.2 Seasonal Mowing and Lawn Care**

Lawn mowing should be performed routinely, as needed, throughout the growing season. Grass height should not exceed 18 inches. Grass cuttings should be collected and disposed of offsite, or a mulching mower can be used. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients.

#### **1.3 Inspection:**

Inspect swales at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The swale should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections should be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.



1.4 Debris and Litter Removal:

Trash tends to accumulate in swale areas, particularly along highways. Any swale structures (i.e. check dams) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than two times per year (Urbonas et al., 1992).

1.5 Sediment Removal:

Sediment accumulating near culverts and in channels needs to be removed when they build up to 3 inches at any spot, or cover vegetation. Excess sediment should be removed by hand or with flat-bottomed shovels. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level with the bottom of the swale. Sediment removal should be performed periodically, as determined through inspection.


1.6 Grass Reseeding and Mulching:

A healthy dense grass should be maintained in the channel and side slopes. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during swale establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established.

RESPONSIBLE PARTY FOR MAINTENANCE:

Dunnam Family  
P.O. Box 400  
Victoria, Texas 77902  
(512) 474-1917

SIGNATURE OF RESPONSIBLE PARTY:



PRINTED NAME OF RESPONSIBLE PARTY:

Russell Dunnam



## **ATTACHMENT H – PILOT SCALE FIELD TESTING**

**NOT APPLICABLE**

## **ATTACHMENT I – MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION**

All flows generated by the existing and proposed improvements will be conveyed through the proposed grassy swale and into a defined drainage channel which will minimize surface stream contamination and post-construction stream flashing.



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

I **Russell Dunnam**,  
Print Name

**Owner**,  
Title - Owner/President/Other

of **501 Riley Road**,  
Corporation/Partnership/Entity Name

have authorized **Kyle C. Quick, P.E.**  
Print Name of Agent/Engineer

of **Migl Engineering and Consulting, PLLC**  
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:

Russell Dunnam  
Applicant's Signature

10-3-2023  
Date

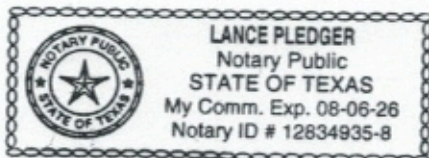
THE STATE OF Texas §  
County of Travis §

BEFORE ME, the undersigned authority, on this day personally appeared Russell Dunnam  
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 3rd day of October, 2023

Lance Pledger  
NOTARY PUBLIC

Lance Pledger  
Typed or Printed Name of Notary



MY COMMISSION EXPIRES: 8/6/26



# Application Fee Form

## Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: 501 Riley Road

Regulated Entity Location: 501 Riley Road, Rollingwood, Texas 78746

Name of Customer: Russell Dunnam

Contact Person: Kyle C. Quick, PE

Phone: (512) 965-2318

Customer Reference Number (if issued):CN \_\_\_\_\_

Regulated Entity Reference Number (if issued):RN \_\_\_\_\_

### Austin Regional Office (3373)

☐ Hays

☐ Williamson

☒ Travis

### 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

☐ San Antonio Regional Office

☐ Mailed to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

☐ 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):

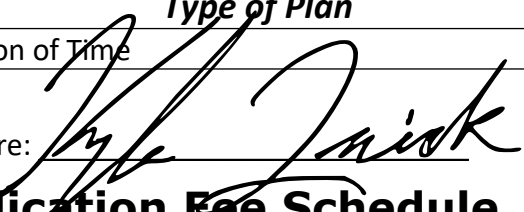
☒ Recharge Zone

☐ Contributing Zone

☐ Transition Zone

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	0.46 Acres	\$ 650
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	\$
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	\$

<i>Type of Plan</i>	<i>Size</i>	<i>Fee Due</i>
Extension of Time	Each	\$

Signature: 

Date: 10/9/23

## **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**

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

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

<i>Project</i>	<i>Cost per Linear Foot</i>	<i>Minimum Fee- Maximum Fee</i>
Sewage Collection Systems	\$0.50	\$650 - \$6,500

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

<i>Project</i>	<i>Cost per Tank or Piping System</i>	<i>Minimum Fee- Maximum Fee</i>
Underground and Aboveground Storage Tank Facility	\$650	\$650 - \$6,500

#### **Exception Requests**

<i>Project</i>	<i>Fee</i>
Exception Request	\$500

***Extension of Time Requests***

<b><i>Project</i></b>	<b><i>Fee</i></b>
Extension of Time Request	\$150



TCEQ Use Only

# TCEQ Core Data Form

For detailed instructions regarding completion of this form, please read the Core Data Form Instructions or call 512-239-5175.

## SECTION I: General Information

<b>1. Reason for Submission</b> (If other is checked please describe in space provided.)	
<input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.)	
<input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form)	<input type="checkbox"/> Other
<b>2. Customer Reference Number (if issued)</b>	<b>3. Regulated Entity Reference Number (if issued)</b>
CN	RN

[Follow this link to search for CN or RN numbers in Central Registry\\*\\*](#)

## SECTION II: Customer Information

<b>4. General Customer Information</b>		<b>5. Effective Date for Customer Information Updates</b> (mm/dd/yyyy)	
<input checked="" type="checkbox"/> New Customer		<input type="checkbox"/> Update to Customer Information	
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)		<input type="checkbox"/> Change in Regulated Entity Ownership	
<b>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</b>			
<b>6. Customer Legal Name</b> (If an individual, print last name first: eg: Doe, John)		If new Customer, enter previous Customer below:	
Russell Dunnam			
<b>7. TX SOS/CPA Filing Number</b>	<b>8. TX State Tax ID</b> (11 digits)	<b>9. Federal Tax ID</b> (9 digits)	<b>10. DUNS Number</b> (if applicable)
<b>11. Type of Customer:</b>		Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited	
<input type="checkbox"/> Corporation		<input checked="" type="checkbox"/> Individual	
Government: <input type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other:	
<b>12. Number of Employees</b>		<b>13. Independently Owned and Operated?</b>	
<input checked="" type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input type="checkbox"/> 501 and higher		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<b>14. Customer Role</b> (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following			
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input checked="" type="checkbox"/> Owner & Operator			
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> Voluntary Cleanup Applicant <input type="checkbox"/> Other:			
<b>15. Mailing Address:</b>	P.O. Box 400		
	City	State	ZIP
	Victoria	TX	77902
<b>16. Country Mailing Information</b> (if outside USA)		<b>17. E-Mail Address</b> (if applicable)	
		rmdunnam@icould.com	
<b>18. Telephone Number</b>	<b>19. Extension or Code</b>	<b>20. Fax Number</b> (if applicable)	
( 512 ) 474-1917		( ) -	

## SECTION III: Regulated Entity Information

<b>21. General Regulated Entity Information</b> (If 'New Regulated Entity' is selected below this form should be accompanied by a permit application)	
<input checked="" type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input type="checkbox"/> Update to Regulated Entity Information	
<b>The Regulated Entity Name submitted may be updated in order to meet TCEQ Agency Data Standards (removal of organizational endings such as Inc, LP, or LLC).</b>	
<b>22. Regulated Entity Name</b> (Enter name of the site where the regulated action is taking place.)	
501 Riley Road	

23. Street Address of the Regulated Entity: <i>(No PO Boxes)</i>	501 Riley Road							
	City	Rollingwood	State	TX	ZIP	78746	ZIP + 4	
24. County	Travis							

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

25. Description to Physical Location:	At the intersection of Riley Road and Pickwick Lane									
26. Nearest City	Rollingwood				State	TX		Nearest ZIP Code	78746	
27. Latitude (N) In Decimal:	30.27317			28. Longitude (W) In Decimal:	97.78217					
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds					
30	16	16.68	97	46	55.23					
29. Primary SIC Code (4 digits)	1521		30. Secondary SIC Code (4 digits)			31. Primary NAICS Code (5 or 6 digits)	236115		32. Secondary NAICS Code (5 or 6 digits)	
33. What is the Primary Business of this entity? <i>(Do not repeat the SIC or NAICS description.)</i>										
Single Family Residence										
34. Mailing Address:										
	City		State		ZIP		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.


<input type="checkbox"/> Dam Safety	<input type="checkbox"/> Districts	<input checked="" type="checkbox"/> Edwards Aquifer	<input type="checkbox"/> Emissions Inventory Air	<input type="checkbox"/> Industrial Hazardous Waste
<input type="checkbox"/> Municipal Solid Waste	<input type="checkbox"/> New Source Review Air	<input type="checkbox"/> OSSF	<input type="checkbox"/> Petroleum Storage Tank	<input type="checkbox"/> PWS
<input type="checkbox"/> Sludge	<input type="checkbox"/> Storm Water	<input type="checkbox"/> Title V Air	<input type="checkbox"/> Tires	<input type="checkbox"/> Used Oil
<input type="checkbox"/> Voluntary Cleanup	<input type="checkbox"/> Waste Water	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

#### **SECTION IV: Preparer Information**

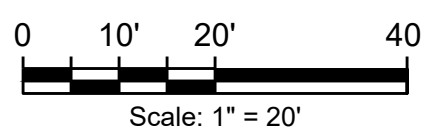
40. Name:	Kyle C. Quick, PE	41. Title:	Project Manager
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address
( 512 ) 965-2318		( ) -	kyle@miglengineering.com

#### **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:	Migl Engineering and Consulting	Job Title:	Project Manager
Name (In Print):	Kyle C. Quick, PE	Phone:	( 512 ) 965- 2318
Signature:		Date:	11/13/23





## NOTES

- | TREE TABLE |         |               |         |       |    |    |
|------------|---------|---------------|---------|-------|----|----|
| NUMBER     | SIZE(N) | SPECIES       | CRZ(FT) | MT(N) |    |    |
| 3000       | 28"     | LIVE OAK 56'  |         |       |    |    |
| 3001       | 15"     | CEDAR ELM 30' |         |       |    |    |
| 3002       | 37"     | LIVE OAK 74'  | 20      | 14    | 10 | 10 |
| 3003       | 21"     | LIVE OAK 42'  | 13      | 11    | 9  |    |
| 3004       | 17"     | LIVE OAK 34'  | 13      | 8     |    |    |
| 3005       | 15"     | LIVE OAK 30'  | 11      | 8     |    |    |
| 3006       | 16"     | CEDAR ELM 32' |         |       |    |    |
| 3007       | 10"     | CEDAR ELM 20' |         |       |    |    |
| 3008       | 15"     | CEDAR ELM 30' |         |       |    |    |
| 3009       | 13"     | CEDAR ELM 26' |         |       |    |    |
| 3010       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3011       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3012       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3013       | 10"     | CEDAR ELM 20' |         |       |    |    |
| 3014       | 9"      | CEDAR ELM 18' |         |       |    |    |
| 3015       | 12"     | CEDAR ELM 24' |         |       |    |    |
| 3016       | 8"      | CEDAR ELM 16' |         |       |    |    |
| 3017       | 10"     | CEDAR ELM 20' |         |       |    |    |
| 3018       | 14"     | CEDAR ELM 28' |         |       |    |    |
| 3019       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3020       | 9"      | CEDAR ELM 18' |         |       |    |    |
| 3021       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3022       | 11"     | CEDAR ELM 22' |         |       |    |    |
| 3023       | 14"     | CEDAR ELM 28' |         |       |    |    |
| 3024       | 8"      | CEDAR ELM 16' |         |       |    |    |
| 3025       | 24"     | CEDAR ELM 48' | 18      | 12    |    |    |
| 3026       | 34"     | LIVE OAK 68'  | 25      | 18    |    |    |
| 3027       | 12"     | CEDAR ELM 26' |         |       |    |    |
| 3028       | 20"     | CEDAR ELM 40' |         |       | 14 | 13 |
| 3029       | 15"     | CEDAR ELM 30' |         |       |    |    |
| 3030       | 9"      | LIVE OAK 18'  |         |       |    |    |
| 3031       | 15"     | LIVE OAK 30'  | 11      | 9     |    |    |

"R" DENOTES TREE TO BE REMOVED



## SEQUENCE OF CONSTRUCTION

PRIOR TO SITE GRADING ACTIVITIES:

- ## SITE GRADING

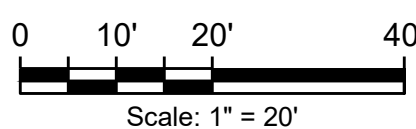
## SITE GRADING

- ### FINALIZATION:

7. COMPLETE

Existing				
ITEM #	DESCRIPTION	GROSS AREA (SF)	IMP. COVER (%)	NET AREA (SF)
1	House	1,966	100%	1,966
2	Carport	417	100%	417
3	Driveway	594	100%	594
4	Front Sidewalk	312	100%	312
5	Concrete Patio	622	100%	622
			100%	-
Total		3,911		3,911
			100%	-

TOTAL IMPERVIOUS COVER			
Existing	3,911 SF	19.41%	IC
Proposed	7,278 SF	36.12%	IC
Increase	3,367 SF	16.71%	IC



THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OF WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC SYSTEMS OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES. THE CONTRACTOR AGREES TO TAKE ALL NECESSARY PRECAUTIONS THAT WOULD HARM ANY INDIVIDUAL IN ANY MANNER. THIS RESPONSIBILITY HEREBY REMOVES BAKER-AICKLEN & ASSOCIATES AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.



RUSSELL AND KATE DUNNAM  
501 RILEY ROAD  
ROLLINGWOOD, TEXAS 78746

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DUNNAM RESIDENCE  
501 RILEY ROAD  
ROLLINGWOOD, TEXAS 78746

SHEET TITLE

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PROJECT NO.

0212.001

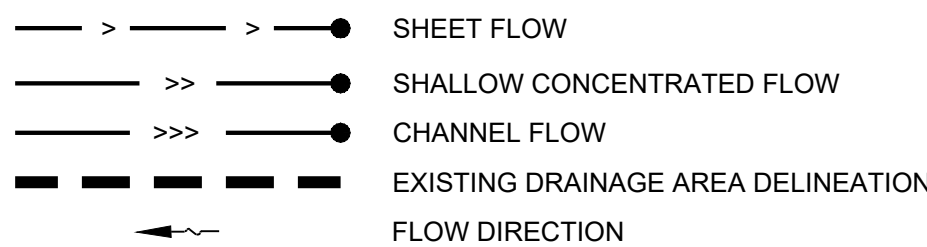
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SHEET NO.

C1

1 OF 7





DRAINAGE AREA SUMMARY TABLE						
501 Riley Road						
DRAINAGE AREA	EXISTING			PROPOSED		
	OS	A	POC 1	OS	A	POC 1
AREA (MI <sup>2</sup> )	0.00007	0.00072		0.00007	0.00072	
Area (AC)	0.043	0.463		0.043	0.463	
CN	80.00	83.49		80.00	86.50	
% IC	0.00%	19.41%		0.00%	36.12%	
24 HR STORM	PEAK RUNOFF FLOW RATES (CFS)					
2 - YR	0.15	1.99	2.15	0.15	2.24	1.72
10 - YR	0.29	3.44	3.73	0.29	3.65	3.06
25 - YR	0.38	4.40	4.79	0.38	4.59	4.31
100 - YR	0.54	5.97	6.50	0.54	6.11	5.95

THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OF WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS SHOWN ON THE PLAN, FROM ANY INTERFERENCE WITH THE ELECTRIC SYSTEMS. SETTING, LADDERS, JACKING, OR UNCOVERING THE ELECTRIC LINES OR SETTING LADDERS, JACKS OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER, THIS RESPONSIBILITY HEREBY REMOVES BAKER-AICKLEN & ASSOCIATES AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.

SHEET NO. C2

MAGES: \* MIGLLogo SPACE.png  
KREFS: \* x\_0212.001 DR ebs.dwg \* x\_0212.001 DR ebs.dwg \* x\_0212.001 DR BORDER.dwg \* AUSTIN\_WEST\_SE PLANIMETRICS.dwg \* AUSTIN WEST SE.dwg



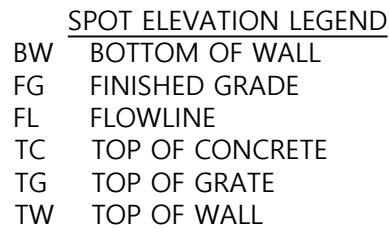


3 OF



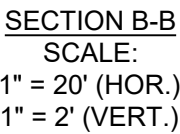
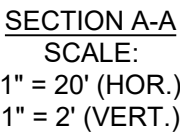






Notes: \* This table represents an approximation of the outlet structure discharge rates. The HEC-HMS model has orifice and spillway dimensions entered and the program calculates the discharge curve.  
 \*\* 1 - 8" orifice with flow line 568.67 AMSL  
 \*\*\* 1 - 10' wide weir at flow line 570.25 AMSL

DRAINAGE AREA SUMMARY TABLE							
501 Riley Road							
DRAINAGE AREA	EXISTING			PROPOSED			
	OS	A	POC 1	OS	A	POND	POC 1
AREA (MI <sup>2</sup> )	0.00007	0.00072		0.00007	0.00072		
Area (AC)	0.043	0.463		0.043	0.463		
% IC	80.00	93.49		80.00	86.50		
	0.00%	19.41%		0.00%	36.12%		
24 HR STORM	PEAK RUNOFF FLOW RATES (CFS)						
2 - YR	0.15	1.99	2.15	0.15	2.24	1.72	1.85
10 - YR	0.29	3.44	3.73	0.29	3.65	3.06	3.32
25 - YR	0.38	4.40	4.79	0.38	4.59	4.31	4.68
100 - YR	0.54	5.97	6.50	0.54	6.11	5.95	6.46

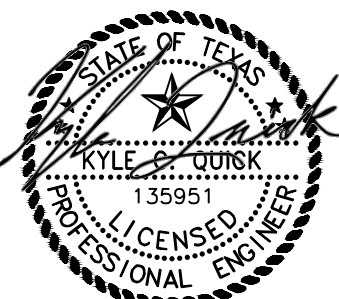


THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS THAT ENTER OR WORK ON THIS PROJECT ARE RESPONSIBLE FOR LOCATING, USING ONE-CALL OR THE ELECTRIC UTILITIES THEMSELVES, ALL OVERHEAD AND UNDERGROUND ELECTRICAL OF ANY NATURE AND FOR SAFEGUARDING ALL PERSONNEL ON THIS PROJECT, INCLUDING ANY OFF-SITE WORK AREAS. ANYONE PLAYING OR PLAYING WITH THE ELECTRICAL OR ELECTRONIC LINES OR FROM DAMAGING, DIGGING UP OR UNCOVERING THE ELECTRIC LINES, GETTING A LADDER IN HARMS WAY OR ANY OTHER ACTIVITY OF ANY NATURE THAT COULD HARM ANY INDIVIDUAL IN ANY MANNER, THIS RESPONSIBILITY HEREBY REMOVES BAKER-AICKLEN & ASSOCIATES AND THE OWNER FROM ANY LIABILITY OF ANY NATURE.







[illegible]

DUNNAM RESIDENCE  
501 RILEY ROAD  
ROLLINGWOOD, TEXAS 78746

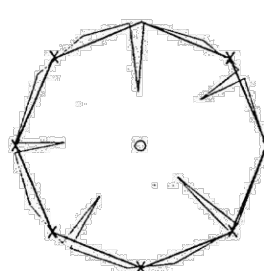
SHEET NO. **C7**  
7 OF 7



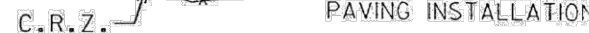
- SILT FENCE**

**THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.**

**STANDARD NO.**  
**642S-1**



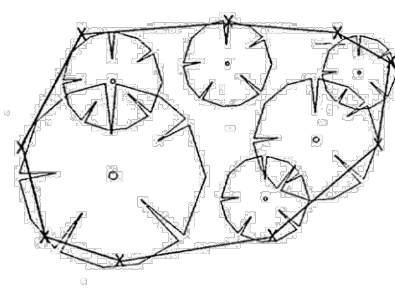
### INDIVIDUAL TREE



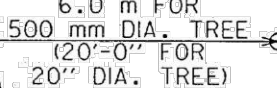
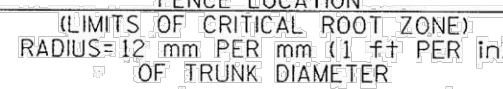
TREES IN PAVING AREA



TREES NEAR  
CONSTRUCTION ACTIVITY



GROUP OF TREES



TREE PROTECTION FENCE  
TYPE A - CHAIN LINK

THE ARCHITECT/ENGINEER ASSUMES  
RESPONSIBILITY FOR APPROPRIATE USE  
OF THIS STANDARD.

STANDARD NO.  
6 10S-2



AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE. IF LESS THAN 1.5 m (5'), THEN ADD BOARDS STRAPPED TO TRUSS.



 WOOD CHIP MULCH AREA  
100 mm-150 mm  
(4"-6") DEPTH

TREE PROTECTION FENCE  
MODIFIED TYPE A - CHAIN LINK

THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.

STANDARD NO.  
6 10S-4