

# Edwards Aquifer Protection Program Roadway Application

## Texas Commission on Environmental Quality

This application is intended only for projects which a major roadway is designed for construction, such as State highways, County roads, and City thoroughfares.

Designed for Regulated Activities on the Contributing Zone to the Edwards Aquifer in relation to 30 TAC §213.24, Regulated Activities on the Edwards Aquifer Recharge Zone, in relation 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.

The application was prepared by:

Print Name of Customer/Agent: \_\_\_\_\_

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

Signature of Customer/Agent:

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## Project Information

1. Regulated Entity (Project) Name: \_\_\_\_\_
2. County: \_\_\_\_\_
3. Stream Basin(s): \_\_\_\_\_
4. Groundwater Conservation District (if applicable): \_\_\_\_\_
5. Customer (Applicant):
  - Contact Person: \_\_\_\_\_
  - Entity: \_\_\_\_\_
  - Mailing Address: \_\_\_\_\_
  - City, State: \_\_\_\_\_ Zip: \_\_\_\_\_
  - Telephone: \_\_\_\_\_
  - Email Address: \_\_\_\_\_

6. Agent (Representative):

Contact Person: \_\_\_\_\_

Entity: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email Address: \_\_\_\_\_

7. Landowner of R.O.W. (Right of Way)

Person or entity responsible for maintenance of water quality Best Management Practices (BMPs), if not applicant.

Contact Person: \_\_\_\_\_

Entity: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Email Address: \_\_\_\_\_

8.  **The TCEQ must be able to inspect the project site or the application will be returned.**

Sufficient survey marking is provided on the project to allow TCEQ regional staff to locate the boundaries and alignment of any regulated activities and the geologic or manmade features noted in the Geologic Assessment.

Survey marking will be completed by this date: \_\_\_\_\_

9.  **Attachment A - Road Map.** A road map showing directions to and the location of the project site is attached. The map clearly shows the boundary of the project site.

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

Project site boundaries

USGS Quadrangle Name(s)

All drainage paths from site to surface waters

11.  **This project extends into (Check all that apply):**

Recharge Zone (RZ)

Contributing Zone (CZ)

Transition Zone (TZ)

Contributing Zone within  
Transition Zone (CZ/TZ)

Zone not regulated by EAPP

12.  **Attachment C - Project Description.** A detailed narrative description of the proposed project is attached. The project description is consistent throughout the application and contains, at a minimum, the following details:

- Complete site area [Acres]
- Offsite upgradient stormwater areas to be captured
- Impervious area [Acres]
- Permanent BMP(s)
- Proposed site use
- Existing roadway (paved and/or unpaved)
- Structures to be demolished [Include demo phase]
- Major interim phases

13. Existing project site conditions are noted below:

- |  |  |
|--|--|
| <input type="checkbox"/> Existing paved and/or unpaved roads   | <input type="checkbox"/> Existing commercial site  |
| <input type="checkbox"/> Undeveloped (Cleared)                 | <input type="checkbox"/> Existing industrial site  |
| <input type="checkbox"/> Undeveloped (Undisturbed/Not cleared) | <input type="checkbox"/> Existing residential site |
|  | <input type="checkbox"/> Other: _____              |

14.  **Attachment D - Factors Affecting Surface Water Quality.** A detailed description of all factors that could affect surface water quality is attached.

15.  Only inert materials as defined by 30 TAC §330.3 will be used as fill material.

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

- Concrete
- Asphaltic concrete pavement
- Permeable Friction Course (PFC)
- Other: \_\_\_\_\_

17. Right of Way (R.O.W.) and Pavement Area:

R.O.W. for project: \_\_\_\_\_ (ac.)

Length: \_\_\_\_\_ ft.

Width: varies from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

Impervious cover (IC): \_\_\_\_\_ (ac.)

Total of Pavement area \_\_\_\_\_ (ac.) ÷ R.O.W. area \_\_\_\_\_ (ac.) x 100 = \_\_\_\_\_% IC.

- CAD program was used to determine areas.
- Number of travel lanes: proposed: \_\_\_\_\_, existing: \_\_\_\_\_
- Typical widths of lanes: \_\_\_\_\_ (ft.)
- Are intersections also being improved? (Y/N) \_\_\_\_\_

## Site Plan Requirements

Items 18 - 28 must be included on the Site Plan.

18.  The Site Plan must have a minimum scale of 1" = 400'.  
Site Plan Scale: 1" = \_\_\_\_\_'
19. 100-year floodplain boundaries:
- Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled. The 100-year floodplain boundaries are based on the following specific (including date of material) source(s):\_\_\_\_\_.
  - No part of the project site is located within the 100-year floodplain.
20.  A layout of the development with existing and finished contours at appropriate, but not greater than ten-foot contour intervals is shown. Sensitive features, lots, wells, buildings, roads, culverts, etc. are shown on the site plan.
21.  A figure (map) indicating all paths of drainage from the site to surface waters.
- Name all stream crossings: \_\_\_\_\_
  - Drainage patterns and approximate slopes.
  - There will be no discharge to surface waters.
22.  Distinguish between areas of soil disturbance and areas which will not be disturbed.
23.  Show locations of major structural and nonstructural controls. These are the temporary and permanent best management practices. Include the following:
- Show design and location of any hazardous materials traps.
  - Show design at outfalls of major control structures and conveyances.
  - A description of the BMPs and measures that prevent pollutants from entering surface streams.
24. Show locations of staging areas or project specific locations (PSL). Are they:
- Onsite, within project R.O.W.
  - Offsite.
  - Not yet determined. (Requires future authorization)
25.  Show locations where soil stabilization practices are expected to occur.
26.  Show surface waters (including wetlands).
27. Temporary aboveground storage tank facilities:
- Temporary aboveground storage tank facilities will be located on this site. Show on site plan.
  - Temporary aboveground storage tank facilities will not be located on this site.
28.  Plan(s) also include:
- |  |  |
|--|--|
| <input type="checkbox"/> Sidewalks                   | <input type="checkbox"/> Shared-use paths                        |
| <input type="checkbox"/> Related turn lanes          | <input type="checkbox"/> Off-site improvements and staging areas |
| <input type="checkbox"/> Demolition plans            | <input type="checkbox"/> Utility relocations                     |
| <input type="checkbox"/> Other improved areas: _____ |  |

## **Permanent Best Management Practices (BMPs)**

**Description of practices and measures that will be used after construction is completed.**

29.  Permanent BMPs and measures have been designed, and will be constructed, operated, and maintained to ensure 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 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: \_\_\_\_\_

30.  **Attachment E - BMPs for Upgradient (Offsite) 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.

31.  **Attachment F - 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.

32.  **Attachment G - Construction Plans.** Construction plans and design calculations for the proposed permanent BMPs and measures have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer, and are signed, sealed, and dated. Construction plans for the proposed permanent BMPs and measures are attached and include all proposed structural plans and specifications, and appropriate details.

Major bridge cross-sections, and roadway plan and profiles

BMP plans and details

Design calculations

Erosion control

TCEQ Construction Notes

SW3P

EPIC, as necessary

33.  **Attachment H - Inspection, Maintenance, Repair and Retrofit Plan.** A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all the following:
- Prepared and certified by the engineer designing the permanent BMPs and measures.
  - Signed by the owner or responsible party.
  - Outlines specific procedures for documenting inspections, maintenance, repairs, and, if necessary, retrofit.
  - Contains a discussion of recordkeeping procedures.
34.  **Attachment I - 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
35.  **Attachment J - 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 effects caused by the regulated activity which increase erosion or may result in water quality degradation.
- Include permanent spill measures used to contain hydrocarbons or hazardous substances by way of traps, or response contingencies.
36. 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.
- If the applicant intends to transfer responsibility, check the box below.
- Yes

A copy of the transfer of responsibility must be filed with the executive director at the appropriate regional office within 30 days.

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

### ***Description of practices and measures that will be used during construction.***

37.  The site description, controls, maintenance, and inspection requirements for the Storm Water Pollution Prevention Plan (SWPPP or SW3P) developed under the Texas Pollutant Discharge Elimination System (TPDES) general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) & §213.5(b) of the technical report.
- The Temporary Stormwater Section (TCEQ-0602) is included with the application.
  - The SWPPP (SW3P) will serve as the Temporary Stormwater Section (TCEQ-0602).
38.  **Attachment K - Volume and Character of Stormwater.** A detailed description of the volume (quantity) and character (quality) of the stormwater runoff expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover.
- Include the pre-construction runoff coefficient.
  - Include the post-construction runoff coefficient.

### ***Administrative Information***

39.  Submit one (1) original and one (1) copy of the application, plus one electronic copy as needed, for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ is required to distribute the additional copies to these jurisdictions.
40. The fee for the plan(s) is based on:
- The total R.O.W. (as in Item 17).
  - TxDOT roadway project.