

Texas Commission on Environmental Quality

Edwards Aquifer Application Cover Page

Our Review of Your Application

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

Administrative Review

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

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

2. This Edwards Aquifer Application Cover Page form (certified by the applicant or agent) must be included in the application and brought to the administrative review meeting.
3. Administrative reviews are scheduled with program staff who will conduct the review. Applicants or their authorized agent should call the appropriate regional office, according to the county in which the project is located, to schedule a review. The average meeting time is one hour.
4. In the meeting, the application is examined for administrative completeness. Deficiencies will be noted by staff and emailed or faxed to the applicant and authorized agent at the end of the meeting, or shortly after. Administrative deficiencies will cause the application to be deemed incomplete and returned.

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

5. If an application is received by mail, courier service, or otherwise submitted without a review meeting, the administrative review will be conducted within 30 days. The applicant and agent will be contacted with the results of the administrative review. If the application is found to be administratively incomplete, it can be retrieved from the regional office or returned by regular mail. If returned by mail, the regional office may require arrangements for return shipping.
6. If the geologic assessment was completed before October 1, 2004 and the site contains “possibly sensitive” features, the assessment must be updated in accordance with the *Instructions to Geologists* (TCEQ-0585 Instructions).

Technical Review

1. When an application is deemed administratively complete, the technical review period begins. The regional office will distribute copies of the application to the identified affected city, county, and groundwater conservation district whose jurisdiction includes the subject site. These entities and the public have 30 days to provide comments on the application to the regional office. All comments received are reviewed by TCEQ.
2. A site assessment is usually conducted as part of the technical review, to evaluate the geologic assessment and observe existing site conditions. The site must be accessible to our staff. The site boundaries should be

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

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

Mid-Review Modifications

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

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

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

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

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

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

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

1. Regulated Entity Name: Beckett Meadows Water Quality Pond Repair					2. Regulated Entity No.: RN102137817				
3. Customer Name: City of Austin					4. Customer No.: CN600135198				
5. Project Type: (Please circle/check one)	New	Modification			Extension	Exception			
6. Plan Type: (Please circle/check one)	WPAP	CZP	SCS	UST	AST	EXP	EXT	Technical Clarification	Optional Enhanced Measures
7. Land Use: (Please circle/check one)	Residential	Non-residential			8. Site (acres):			109 acres (2.65 acres LOC)	
9. Application Fee:	\$8,000		10. Permanent BMP(s):			Wet Pond			
11. SCS (Linear Ft.):			12. AST/UST (No. Tanks):						
13. County:	Travis		14. Watershed:			Williamson Creek			

Application Distribution

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

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

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

Austin Region			
County:	Hays	Travis	Williamson
Original (1 req.)	—	1	—
Region (1 req.)	—	_1_	—
County(ies)	—	_1_	—
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___ Barton Springs/ Edwards Aquifer ___ Hays Trinity ___ Plum Creek	_1_ Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___ Austin ___ Buda ___ Dripping Springs ___ Kyle ___ Mountain City ___ San Marcos ___ Wimberley ___ Woodcreek	_1_ Austin ___ Bee Cave ___ Pflugerville ___ Rollingwood ___ Round Rock ___ Sunset Valley ___ West Lake Hills	___ Austin ___ Cedar Park ___ Florence ___ Georgetown ___ Jerrell ___ Leander ___ Liberty Hill ___ Pflugerville ___ Round Rock

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

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review.

Kshitiz Gyawali, PE

Print Name of Customer/Authorized Agent

12/13/2023

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: Kshitiz Gyawali, PE

Date: 12/13/2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: Beckett Meadows Water Quality Pond Repair
2. County: Travis
3. Stream Basin: Williamson Creek
4. Groundwater Conservation District (If applicable): Barton Springs Zone
5. Edwards Aquifer Zone:

- ☒ Recharge Zone
☐ Transition Zone

6. Plan Type:

- ☒ WPAP
☐ SCS
☒ Modification

- ☐ AST
☐ UST
☐ Exception Request

7. Customer (Applicant):

Contact Person: Kshitiz Gyawali, P.E.

Entity: City of Austin

Mailing Address: 505 Barton Springs Rd #11

City, State: Austin, TX

Zip: 78704

Telephone: 512-574-6566

FAX: _____

Email Address: kshitiz.gyawali@austintexas.gov

8. Agent/Representative (If any):

Contact Person: _____

Entity: _____

Mailing Address: _____

City, State: _____

Zip: _____

Telephone: _____

FAX: _____

Email Address: _____

9. Project Location:

- ☒ The project site is located inside the city limits of Austin.
- ☐ 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.

Beckett Meadows Water Quality Pond Repair is located at 5125 Convict Hill Road,
Austin, Texas 78749

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: TCEQ to Coordinate a site visit with the city

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: Existing park land

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:

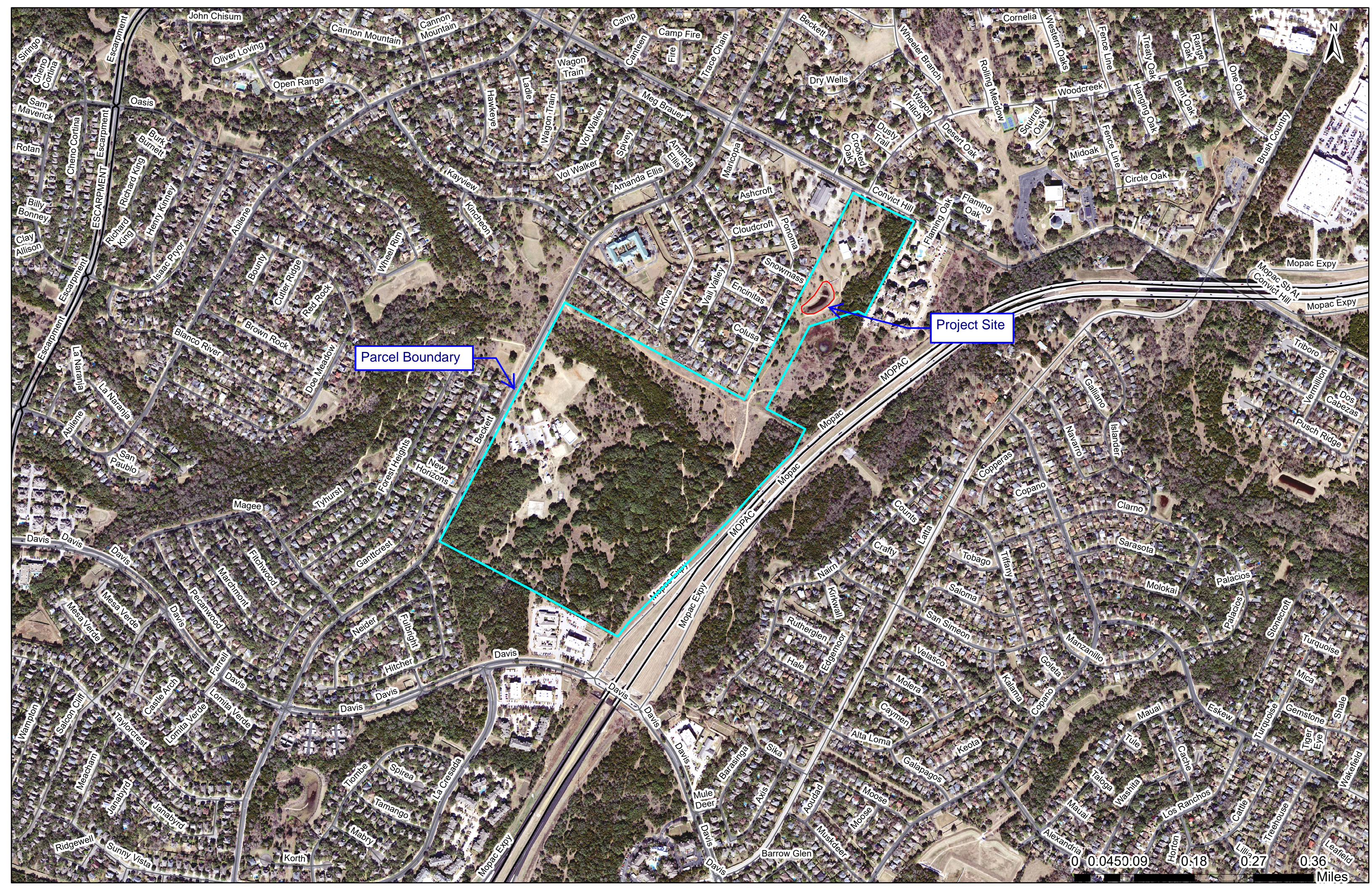
- ☒ For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- ☐ For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- ☐ For a UST Facility Plan or Modification or an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



Parcel Boundary

Project Site

0 0.04 0.09 0.18 0.27 0.36 Miles



1	2	3	1 Be
4		5	2 Al
6	7	8	3 Ar

- Edwards Aquifer Contributing Zone
- Edwards Aquifer Contributing Zone within the Transition Zone
- Edwards Aquifer Recharge Zone
- Edwards Aquifer Transition Zone

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

The Beckett Meadows Water Quality Pond Repair project is intended to repair the liner of an existing leaky wet pond, a permanent BMP feature, at 5125 Convict Hill Road, Austin, Texas. The existing wet pond was designed and built with a clay liner which has been leaking. As a result, the wet pond cannot retain water and maintain the permanent pool volume. The project will replace the clay liner with a geomembrane liner and restore the functionality of the wet pond.

The entire park is 109 acres, but the limits of construction are limited to the pond and comprises of 2.65 acres. Due to it just being a pond repair project, the impervious cover will not change between existing and proposed conditions. The intended use of the site as a public space will not change.

03 Geologic Assessment

Gyawali, Kshitiz

From: James Slone <james.slone@tceq.texas.gov>
Sent: Friday, September 8, 2023 12:22 PM
To: Gyawali, Kshitiz
Cc: Corsetti, Claudia; Kaough, Charles
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

External Email - Exercise Caution

Kshitiz,

Your project as described does not need to conduct a new Geologic Assessment. Please note, if during the TCEQ site assessment a new features is discovered, the TCEQ may require a Geologic Assessment.

Please retain this email for your records; you may be asked to provide this email during the submittal process.

Take care,

Bo

James "Bo" Slone, P.G.

Geoscientist

Edwards Aquifer Protection Program

Texas Commission on Environmental Quality

(512) 239-5711

From: Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Sent: Friday, September 8, 2023 11:02 AM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Kaough, Charles <Charles.Kaough@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Bo,

Thanks for the information.

The Beckett Meadows project is a maintenance project to repair the leaking wetpond. The clay liner has been compromised and the pond is not holding a permanent pool due to the leakage through the existing clay liner. We intend to do this repair by replacing the clay liner with a geomembrane liner.

Our hope is to include this construction in the bid package for the construction at Dick Nichols park.

Here are a few points about the work at Beckett Meadows:

- All excavation will occur within the footprint of the existing pond. The excavation will be removing the sediments and clay liner from pond. We do not anticipate excavating into the underlying rock.
- Protection of the downstream geologic features is relatively simple because we can bypass flows to the pond completely by blocking the flows at the upstream splitter structure. So we will be able to keep all the runoff from the area being repaired within the pond footprint.
- We will access the site through public ROW and existing drainage easements.

I have attached an exhibit that shows our scope of work. Please confirm that a new geologic assessment will not be required for the project under these circumstances.

Thanks,
Kshitiz

From: James Slone <james.slone@tceq.texas.gov>
Sent: Tuesday, September 5, 2023 9:45 AM
To: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Some people who received this message don't often get email from james.slone@tceq.texas.gov. [Learn why this is important](#)

External Email - Exercise Caution

Here is the approval letter.
Bo

From: James Slone
Sent: Tuesday, September 5, 2023 9:40 AM
To: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Ellyn,
If the work (LOC) is restricted to just the pond, we can take a metes and bounds for the reduction in the fee. We cannot use metes and bounds for the Geologic Assessment, though. I am working on getting the approval letter; I will send it when I find it.
Bo

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

From: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Sent: Thursday, August 31, 2023 12:25 PM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: WPAP Modification for Beckett Meadows Wet Pond

Bo,

We are following up on a need for a WPAP modification for the Beckett Meadows Wet Pond and the need for it and requirements for the permit. (RN102137817 Program ID 11-01033002)

We understand that you had initial conversations with Kshitiz at the City and he noted that since the liner is changing a modification would be necessary. I have several questions that I would like your feedback on:

1. The site is located on 110 acres of parkland and if the modification is based on the site acreage of the legal parcel, it makes the project fee for a maintenance project to fix a broken liner over the Aquifer very high. Is there a way we can set metes and bounds for the site (4.5 acres in the original WPAP) to reduce these fees?
2. We were able to find the Program ID number (above), but are having trouble finding the original approval letter. Is this something that can be searched on the TCEQ side and if not found will it be an issue for submitting the modification plan?
3. In conjunction with a modification plan will a geologic assessment for the site be required and if so would it be able to conform to the same metes and bounds as the original site for the WPAP?

Please let me know if you can help clarify these items and if it would be beneficial to hop on a quick call to discuss.

Thank you,

Ellyn Weimer, P.E. | Water Resources Engineer | CDM Smith
8310-1 N Capital of Texas Hwy, Suite 250 | Austin, TX 78731 | T: 512.652.5329
weimerej@cdmsmith.com | cdmsmith.com

PLEASE NOTE THAT AS OF JULY 17, 2023 WE HAVE MOVED TO THE NEW ADDRESS SHOWN ABOVE.

CAUTION: This is an EXTERNAL email. Please use caution when clicking links or opening attachments. If you believe this to be a malicious or phishing email, please report it using the "Report Message" button in Outlook or forward to cybersecurity@austintexas.gov.

Modification of a Previously Approved Plan

Texas Commission on Environmental Quality

for Regulated Activities on the Edwards Aquifer Recharge Zone and Transition Zone and Relating to 30 TAC 213.4(j), 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 request for a **Modification of a Previously Approved Plan** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Kshitiz Gyawali

Date: 12/13/2023

Signature of Customer/Agent:



Project Information

1. Current Regulated Entity Name: Beckett Meadows Water Quality Pond Repair
Original Regulated Entity Name: _____
Regulated Entity Number(s) (RN): RN102137817
Edwards Aquifer Protection Program ID Number(s): 11-01033002
☒ The applicant has not changed and the Customer Number (CN) is: CN600135198
☐ The applicant or Regulated Entity has changed. A new Core Data Form has been provided.
2. ☒ **Attachment A: Original Approval Letter and Approved Modification Letters.** A copy of the original approval letter and copies of any modification approval letters are attached.

3. A modification of a previously approved plan is requested for (check all that apply):
- ☒ Physical or operational modification of any water pollution abatement structure(s) including but not limited to ponds, dams, berms, sewage treatment plants, and diversionary structures;
 - ☐ Change in the nature or character of the regulated activity from that which was originally approved or a change which would significantly impact the ability of the plan to prevent pollution of the Edwards Aquifer;
 - ☐ Development of land previously identified as undeveloped in the original water pollution abatement plan;
 - ☐ Physical modification of the approved organized sewage collection system;
 - ☐ Physical modification of the approved underground storage tank system;
 - ☐ Physical modification of the approved aboveground storage tank system.
4. ☒ Summary of Proposed Modifications (select plan type being modified). If the approved plan has been modified more than once, copy the appropriate table below, as necessary, and complete the information for each additional modification.

<i>WPAP Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Acres	<u>109</u>	<u>109</u>
Type of Development	<u>Library</u>	<u>Library</u>
Number of Residential Lots	_____	_____
Impervious Cover (acres)	_____	<u>NA - no change</u>
Impervious Cover (%)	_____	<u>NA - no change</u>
Permanent BMPs	<u>Wet Pond</u>	<u>Wet Pond</u>
Other	_____	_____
<i>SCS Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Linear Feet	_____	_____
Pipe Diameter	_____	_____
Other	_____	_____

<i>AST Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Number of ASTs	_____	_____
Volume of ASTs	_____	_____
Other	_____	_____

<i>UST Modification</i>	<i>Approved Project</i>	<i>Proposed Modification</i>
<i>Summary</i>		
Number of USTs	_____	_____
Volume of USTs	_____	_____
Other	_____	_____

5. ☒ **Attachment B: Narrative of Proposed Modification.** A detailed narrative description of the nature of the proposed modification is attached. It discusses what was approved, including any previous modifications, and how this proposed modification will change the approved plan.

6. ☒ **Attachment C: Current Site Plan of the Approved Project.** A current site plan showing the existing site development (i.e., current site layout) at the time this application for modification is attached. A site plan detailing the changes proposed in the submitted modification is required elsewhere.
 - ☐ The approved construction has not commenced. The original approval letter and any subsequent modification approval letters are included as Attachment A to document that the approval has not expired.
 - ☒ The approved construction has commenced and has been completed. Attachment C illustrates that the site was constructed as approved.
 - ☐ The approved construction has commenced and has been completed. Attachment C illustrates that the site was **not** constructed as approved.
 - ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was constructed as approved.
 - ☐ The approved construction has commenced and has **not** been completed. Attachment C illustrates that, thus far, the site was **not** constructed as approved.

7. ☐ The acreage of the approved plan has increased. A Geologic Assessment has been provided for the new acreage.
 - ☒ Acreage has not been added to or removed from the approved plan.

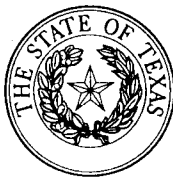
8. ☒ Submit one (1) original and one (1) copy of the application, plus additional copies as needed for each affected incorporated city, groundwater conservation district, and county in which the project will be located. The TCEQ will distribute the additional copies to these jurisdictions. The copies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

0000004086
Texas Commission on Environmental Quality - 582
State Records Center
BC#548745

TOER CENTRAL RECORDS
548745

EDWARDS AQUIFER 2001
TRAVIS
BECKETT MEADOWS WATER
01033002

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 25, 2001

Ms. Virginia Rohlich
City of Austin
P.O. Box 1088-WP
Austin, TX 78767

Re: Edwards Aquifer, Travis County
NAME OF PROJECT: Beckett Meadows Water Quality Pond; 5125 Convict Hill Road;
Austin, Texas
TYPE OF PLAN: Request for Approval of a Water Pollution Abatement Plan (WPAP); 30
Texas Administrative Code (TAC) Chapter 213 Edwards Aquifer
Edwards Aquifer Protection Program File No. 01033002

Dear Ms. Rohlich:

The Texas Natural Resource Conservation Commission (TNRCC) has completed its review of the WPAP application for the referenced project submitted to the Austin Regional Office by Espey, Padden Consultants, Inc. on behalf of the City of Austin on March 30, 2001. As presented to the TNRCC, the Temporary and Permanent Best Management Practices (BMPs) and construction plans were prepared by a Texas Licensed Professional Engineer to be in general compliance with the requirements of 30 TAC Chapter 213. These planning materials were sealed, signed, and dated by a Texas Licensed Professional Engineer. Therefore, based on the engineer's concurrence of compliance, the planning materials for construction of the proposed project and pollution abatement measures are hereby approved subject to applicable state rules and the conditions in this letter. The applicant or a person affected may file with the chief clerk a motion for reconsideration of the executive director's final action on this Edwards Aquifer protection plan. A motion for reconsideration must be filed no later than 20 days after the date of this approval letter. *This approval expires two (2) years from the date of this letter unless, prior to the expiration date, more than 10 percent of the construction has commenced on the project or an extension of time has been requested.*

PROJECT DESCRIPTION

The proposed water quality improvement project will have a limit of construction of approximately 4.5 acres. It will include the construction of a water quality wet pond. The impervious cover will be 0.06 acres (1.3 percent). There is no wastewater associated with this project.

REPLY TO: REGION 11 • 1921 CEDAR BEND DR., STE. 150 • AUSTIN, TEXAS 78758-5336 • 512/339-2929 • FAX 512/339-3795

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: www.tnrcc.state.tx.us

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PERMANENT POLLUTION ABATEMENT MEASURES

A water quality wet pond will be constructed to treat stormwater runoff from existing development. The pond will replace six failed stormwater filtration ponds located in Beckett Meadows, Section One. The individual treatment measures will consist of an inlet splitter structure, a sediment forebay, a main pool, an 8-inch PVC discharge pipe, and an emergency spillway. The pond will discharge into the *Old Farm Sink*.

GEOLOGY

According to the geologic assessment included with the application, the Person Formation of the Edwards Group underlies the site. The *Old Farm Sink* is a significant recharge feature located directly downgradient of the proposed water quality pond. There were no other geologic features identified on the project site; however, there are numerous caves in the area surrounding the site. The Austin Regional Office site investigation of May 24, 2001, revealed that the site is generally as described by the geologic assessment.

STANDARD CONDITIONS

1. Pursuant to §26.136 of the Texas Water Code, any violations of the requirements in 30 TAC Chapter 213 may result in administrative penalties.

Prior to Commencement of Construction:

2. Within 60 days of receiving written approval of an Edwards Aquifer protection plan, the applicant must submit to the Austin Regional Office, proof of recordation of notice in the county deed records, with the volume and page number(s) of the county deed records of the county in which the property is located. A description of the property boundaries shall be included in the deed recordation in the county deed records. A suggested form (Deed Recordation Affidavit, TNRCC-0625) that you may use to deed record the approved WPAP is enclosed.
3. All contractors conducting regulated activities at the referenced project location shall be provided a copy of this notice of approval. At least one complete copy of the approved WPAP and this notice of approval shall be maintained at the project location until all regulated activities are completed.
4. Modification to the activities described in the referenced WPAP application following the date of approval may require the submittal of a plan to modify this approval, including the

payment of appropriate fees and all information necessary for its review and approval prior to initiating construction of the modifications.

5. The applicant must provide written notification of intent to commence construction, replacement, or rehabilitation of the referenced project. Notification must be submitted to the Austin Regional Office no later than 48 hours prior to commencement of the regulated activity. Written notification must include the date on which the regulated activity will commence, the name of the approved plan and file number for the regulated activity, and the name of the prime contractor with the name and telephone number of the contact person. The executive director will use the notification to determine if the approved plan is eligible for an extension.
6. Temporary erosion and sedimentation (E&S) controls, i.e., silt fences, rock berms, stabilized construction entrances, or other controls described in the approved WPAP, must be installed prior to construction and maintained during construction. Temporary E&S controls may be removed when vegetation is established and the construction area is stabilized. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of temporary E&S control measures. Additional controls may be necessary if excessive solids are being discharged from the site.
7. All borings with depths greater than or equal to 20 feet must be plugged with non-shrink grout from the bottom of the hole to within three (3) feet of the surface. The remainder of the hole must be backfilled with cuttings from the boring. All borings less than 20 feet must be backfilled with cuttings from the boring. All borings must be backfilled or plugged within four (4) days of completion of the drilling operation. Voids may be filled with gravel.

During Construction:

8. During the course of regulated activities related to this project, the applicant or agent shall comply with all applicable provisions of 30 TAC Chapter 213, Edwards Aquifer. The applicant shall remain responsible for the provisions and conditions of this approval until such responsibility is legally transferred to another person or entity.
9. **If any sensitive feature (i.e. caves, solution cavities) is discovered during construction, all regulated activities near the feature must be suspended immediately. The applicant or his agent must immediately notify the Austin Regional Office of the discovery of the feature. Regulated activities near the feature may not proceed until the executive director has reviewed and approved the methods proposed to protect the feature and the aquifer from potentially adverse impacts to water quality. The plan must be sealed, signed, and dated by a Texas Licensed Professional Engineer.**

Ms. Virginia Rohlich

Page 4

May 25, 2001

10. No wells exist on the site. All water wells, including injection, dewatering, and monitoring wells must be in compliance with the requirements of the Texas Department of Licensing and Regulation under Title 16 TAC Chapter 76 (relating to Water Well Drillers and Pump Installers) and all other locally applicable rules, as appropriate.
11. If sediment escapes the construction site, the 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). Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50 percent. Litter, construction debris, and construction chemicals shall be prevented from becoming stormwater discharge pollutants.
12. The following records shall be maintained and made available to the executive director upon request: the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
13. Stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and construction activities will not resume within 21 days. When the initiation of stabilization measures by the 14th day is precluded by weather conditions, stabilization measures shall be initiated as soon as practicable.

After Completion of Construction:

14. **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 Austin Regional Office within 30 days of site completion.**
15. The applicant shall be 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. The regulated entity shall then be responsible for maintenance until another entity assumes such obligations in writing or ownership is transferred. A copy of the transfer of responsibility must be filed with the executive director through the Austin Regional Office within 30 days of the transfer. A copy of the transfer form (TNRCC-10263) is enclosed.

Ms. Virginia Rohlich
Page 5
May 25, 2001

16. Upon legal transfer of this property, the new owner(s) is required to comply with all terms of the approved Edwards Aquifer protection plan. If the new owner intends to commence any new regulated activity on the site, a new Edwards Aquifer protection plan that specifically addresses the new activity must be submitted to the executive director. Approval of the plan for the new regulated activity by the executive director is required prior to commencement of the new regulated activity.
17. An Edwards Aquifer protection plan approval or extension will expire and no extension will be granted if more than 50 percent of the total construction has not been completed within ten years from the initial approval of a plan. A new Edwards Aquifer protection plan must be submitted to the Austin Regional Office with the appropriate fees for review and approval by the executive director prior to commencing any additional regulated activities.
18. At project locations where construction is initiated and abandoned, or not completed, the site shall be returned to a condition such that the aquifer is protected from potential contamination.

If you have any questions or require additional information, please contact Ms. Heather L. Beatty of the Edwards Aquifer Protection Program of the Austin Regional Office at (512) 339-2929.

Sincerely,



Jeffrey A. Saitas, P.E.
Executive Director
Texas Natural Resource Conservation Commission

JAS/hlb

Enclosure: Deed Recordation Affidavit, Form TNRCC-0625
Change in Responsibility for Maintenance on Permanent BMPs-Form TNRCC-10263

cc: Mr. Brian Reis, P.E., Espey, Padden Consultants, Inc.
Mr. Stovy Bowlin, Barton Springs/Edwards Aquifer Conservation Dist., Austin, Texas
Mr. Michael Heitz, Director of Watershed Protection and Development Review, City of Austin
The Honorable Sam Biscoe, County Judge, Travis County
Database Manager/Complaints, TNRCC Field Operations

Texas Natural Resource Conservation Commission

INTEROFFICE MEMORANDUM

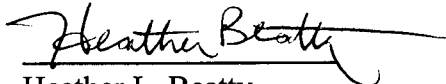
To: FILE **Date:** May 25, 2001

From: Heather L. Beatty, Field Investigator
Austin Region

Subject: Initial Investigation: Beckett Meadows Water Quality Pond; 5125 Convict Hill
Road; Austin, Texas
Edwards Aquifer File #01033002
Inspection Date: May 24, 2001

I conducted an investigation of the site proposed for a water quality pond. The area designated for the new wet pond includes an existing drainage pathway leading from existing single family residential development. The site was covered with tall grass, wildflowers, cedar trees and other vegetation.

There were no geologic features found in the area where the pond will be constructed. The Old Farm Sink is located directly downgradient of the proposed wet pond. At the time of the investigation, It was holding some water and exhibited some wetland vegetation.


Heather L. Beatty
Field Investigator

Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

April 4, 2001

Mr. Michael Heitz, AIA, Division Director
Watershed Protection Department
P.O. Box 1088
Two Commodore Plaza, 17th Floor
Austin, TX 78767

Re: Edwards Aquifer, **Travis County**
PROJECT NAME: **Beckett Meadows Water Quality Pond**; 5125 Convict Hill Road; Austin, Texas
PLAN TYPE: Application for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas Administrative Code (TAC) Chapter 213; Edwards Aquifer Protection Program

Edwards Aquifer Protection Program File No. 01033002

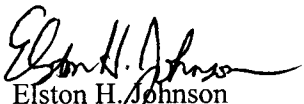
Dear Mr. Heitz:

The enclosed WPAP application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Natural Resource Conservation Commission (TNRCC) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TNRCC approval.

Please forward your comments to this office by **May 4, 2001**.

Should you have any questions concerning this matter, please contact a representative of the Edwards Aquifer Protection Program at the Austin Regional Office (512) 339-2929.

Sincerely,


Elston H. Johnson
Water Program Manager
Austin Regional Office

EHJ/jlt

Enclosure

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Robert J. Huston, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

April 4, 2001

Mr. Stovy Bowlin, General Manager
Barton Springs/Edwards Aquifer
Conservation District
1124A Regal Row
Austin, Texas 78748

Re: Edwards Aquifer, **Travis County**
PROJECTNAME: **Beckett Meadows Water Quality Pond**; 5125 Convict Hill Road; Austin, Texas
PLAN TYPE: Application for Approval of a Water Pollution Abatement Plan (WPAP); 30 Texas
Administrative Code (TAC) Chapter 213; Edwards Aquifer Protection Program.

Edwards Aquifer Protection Program File No. 01033002

Dear Mr. Bowlin:

The enclosed WPAP application is being forwarded to you pursuant to the Edwards Aquifer Rules. The Texas Natural Resource Conservation Commission (TNRCC) is required by 30 TAC Chapter 213 to provide copies of all applications to affected incorporated cities and underground water conservation districts for their comments prior to TNRCC approval.

Please forward your comments to this office by **May 4, 2001**.

Should you have any questions concerning this matter, please contact a representative of the Edwards Aquifer Protection Program at the Austin Regional Office (512) 339-2929.

Sincerely,

A handwritten signature in cursive script that reads "Elston H. Johnson".

Elston H. Johnson
Water Section Manager
Austin Regional Office

EHJ/jlt

Enclosure

PRINTED ON 02APR01 4:19PM PAGE 4
AS AT APR02,01
FOR CURRENT PERIOD 21/8

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APR 04 2001

**TNRCC-FIELD OPERATIONS
AUSTIN REGION II**

Entered HLB 4/17/2007

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

The Beckett Meadows Water Quality Pond is located at 5125 Convict Hill Road, Austin, Texas.

1. Approved Water Pollution Abatement Plan

The previous Water Pollution Abatement Plan for Beckett Meadows was approved by TCEQ May 25, 2001. The originally approved WPAP permitted the construction of a water quality wet pond to treat existing development. The pond replaced six failed stormwater filtration ponds located in Beckett Meadows, Section One.

2. Proposed Modification to the Site

The existing wet pond was designed and built with a clay liner which has been leaking. As a result, the wet pond cannot retain water and maintain the permanent pool volume. The project will replace the clay liner with a geomembrane liner and restore the functionality of the wet pond. No impervious cover will be added to the site due to the nature of the project being repairing the permanent best management practice (BMP) on the property.

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: Kshitiz Gyawali, PE

Date: 12/13/2023

Signature of Customer/Agent:



Regulated Entity Name: Beckett Meadows Water Quality Pond Repair

Regulated Entity Information

1. The type of project is:

- ☐ Residential: Number of Lots: _____
- ☐ Residential: Number of Living Unit Equivalents: _____
- ☐ Commercial
- ☐ Industrial
- ☒ Other: Water Quality Pond Repair

2. Total site acreage (size of property): 109 acres (2.65 acres LOC)

3. Estimated projected population: NA

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		$\div 43,560 =$	
Parking		$\div 43,560 =$	
Other paved surfaces		$\div 43,560 =$	
Total Impervious Cover		$\div 43,560 =$	

Total Impervious Cover NA \div **Total Acreage** NA $\times 100 =$ NA % **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:

_____ % Domestic	_____ Gallons/day
_____ % Industrial	_____ Gallons/day
_____ % Commingled	_____ Gallons/day
TOTAL gallons/day _____	

15. Wastewater will be disposed of by:

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

☐ **Attachment C - Suitability Letter from Authorized Agent.** An on-site sewage facility will be used to treat and dispose of the wastewater from this site. The appropriate licensing authority's (authorized agent) written approval is attached. It states that the land is suitable for the use of private sewage facilities and will meet or exceed the requirements for on-site sewage facilities as specified under 30 TAC Chapter 285 relating to On-site Sewage Facilities.

☐ Each lot in this project/development is at least one (1) acre (43,560 square feet) in size. The system will be designed by a licensed professional engineer or registered sanitarian and installed by a licensed installer in compliance with 30 TAC Chapter 285.

☐ Sewage Collection System (Sewer Lines):

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

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

☐ The SCS was previously submitted on _____.

☐ The SCS was submitted with this application.

☐ The SCS will be submitted at a later date. The owner is aware that the SCS may not be installed prior to Executive Director approval.

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

☐ Existing.

☐ Proposed.

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

Site Plan Requirements

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

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

Site Plan Scale: 1" = 40'.

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): FEMA Flood Map - 48453C0580H

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.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

The construction activities associated with the Beckett Meadows Water Quality Pond Repair include no addition of impervious cover, therefore it will not significantly affect the surface water quality directly.

The project is intended to rehabilitate the non-functioning permanent BMP at the project site that will replace the leaky clay liner with a geomembrane liner. The construction activities will not add impervious cover to the site and will improve the water quality of the receiving surface stream once construction is complete.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

Since the project only includes repairing an existing stormwater infrastructure, there is no change in impervious cover, and the volume of the stormwater runoff-post construction is expected to be the same as preconstruction. The runoff coefficient for both pre-construction and post-condition conditions is approximately 0.315.

The character of stormwater runoff during construction could be altered by sediment transport from exposed soil and oil and grease leaks from construction equipment. However, erosion and sedimentation controls (Temporary Best Management Practices) are intended to prevent significant changes in the character of stormwater runoff.

The project aims to rehabilitate the existing permanent BMP at the park and improve the water quality discharging from the site and into the receiving stream.

The prescribed BMP and associated improvements are presented in Attachment F of the Permanent Stormwater Section and within the Temporary Stormwater Section of this WPAP request.

Gyawali, Kshitiz

From: James Slone <james.slone@tceq.texas.gov>
Sent: Friday, September 8, 2023 12:22 PM
To: Gyawali, Kshitiz
Cc: Corsetti, Claudia; Kaough, Charles
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

External Email - Exercise Caution

Kshitiz,

Your project as described does not need to conduct a new Geologic Assessment. Please note, if during the TCEQ site assessment a new features is discovered, the TCEQ may require a Geologic Assessment.

Please retain this email for your records; you may be asked to provide this email during the submittal process.

Take care,

Bo

James "Bo" Slone, P.G.

Geoscientist

Edwards Aquifer Protection Program

Texas Commission on Environmental Quality

(512) 239-5711

From: Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Sent: Friday, September 8, 2023 11:02 AM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Kaough, Charles <Charles.Kaough@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Bo,

Thanks for the information.

The Beckett Meadows project is a maintenance project to repair the leaking wetpond. The clay liner has been compromised and the pond is not holding a permanent pool due to the leakage through the existing clay liner. We intend to do this repair by replacing the clay liner with a geomembrane liner.

Our hope is to include this construction in the bid package for the construction at Dick Nichols park.

Here are a few points about the work at Beckett Meadows:

- All excavation will occur within the footprint of the existing pond. The excavation will be removing the sediments and clay liner from pond. We do not anticipate excavating into the underlying rock.
- Protection of the downstream geologic features is relatively simple because we can bypass flows to the pond completely by blocking the flows at the upstream splitter structure. So we will be able to keep all the runoff from the area being repaired within the pond footprint.
- We will access the site through public ROW and existing drainage easements.

I have attached an exhibit that shows our scope of work. Please confirm that a new geologic assessment will not be required for the project under these circumstances.

Thanks,
Kshitiz

From: James Slone <james.slone@tceq.texas.gov>
Sent: Tuesday, September 5, 2023 9:45 AM
To: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Some people who received this message don't often get email from james.slone@tceq.texas.gov. [Learn why this is important](#)

External Email - Exercise Caution

Here is the approval letter.
Bo

From: James Slone
Sent: Tuesday, September 5, 2023 9:40 AM
To: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: RE: WPAP Modification for Beckett Meadows Wet Pond

Ellyn,
If the work (LOC) is restricted to just the pond, we can take a metes and bounds for the reduction in the fee. We cannot use metes and bounds for the Geologic Assessment, though. I am working on getting the approval letter; I will send it when I find it.
Bo

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

From: Weimer, Ellyn J. <weimerej@cdmsmith.com>
Sent: Thursday, August 31, 2023 12:25 PM
To: James Slone <james.slone@tceq.texas.gov>
Cc: Lillian Butler <Lillian.Butler@Tceq.Texas.Gov>; Rhames, Alan D. <rhamesad@cdmsmith.com>; Corsetti, Claudia <Claudia.Corsetti@austintexas.gov>; Gyawali, Kshitiz <Kshitiz.Gyawali@austintexas.gov>
Subject: WPAP Modification for Beckett Meadows Wet Pond

Bo,

We are following up on a need for a WPAP modification for the Beckett Meadows Wet Pond and the need for it and requirements for the permit. (RN102137817 Program ID 11-01033002)

We understand that you had initial conversations with Kshitiz at the City and he noted that since the liner is changing a modification would be necessary. I have several questions that I would like your feedback on:

1. The site is located on 110 acres of parkland and if the modification is based on the site acreage of the legal parcel, it makes the project fee for a maintenance project to fix a broken liner over the Aquifer very high. Is there a way we can set metes and bounds for the site (4.5 acres in the original WPAP) to reduce these fees?
2. We were able to find the Program ID number (above), but are having trouble finding the original approval letter. Is this something that can be searched on the TCEQ side and if not found will it be an issue for submitting the modification plan?
3. In conjunction with a modification plan will a geologic assessment for the site be required and if so would it be able to conform to the same metes and bounds as the original site for the WPAP?

Please let me know if you can help clarify these items and if it would be beneficial to hop on a quick call to discuss.

Thank you,

Ellyn Weimer, P.E. | Water Resources Engineer | CDM Smith
8310-1 N Capital of Texas Hwy, Suite 250 | Austin, TX 78731 | T: 512.652.5329
weimerej@cdmsmith.com | cdmsmith.com

PLEASE NOTE THAT AS OF JULY 17, 2023 WE HAVE MOVED TO THE NEW ADDRESS SHOWN ABOVE.

CAUTION: This is an EXTERNAL email. Please use caution when clicking links or opening attachments. If you believe this to be a malicious or phishing email, please report it using the "Report Message" button in Outlook or forward to cybersecurity@austintexas.gov.

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: Kshitiz Gyawali, PE

Date: 12/23/2023

Signature of Customer/Agent:



Regulated Entity Name: Beckett Meadows Water Quality Pond Repair

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: Williamson Creek

Temporary Best Management Practices (TBMPs)

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

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

- ☒ A description of how BMPs and measures will prevent pollution of surface water, groundwater or stormwater that originates upgradient from the site and flows across the site.
 - ☒ A description of how BMPs and measures will prevent pollution of surface water or groundwater that originates on-site or flows off site, including pollution caused by contaminated stormwater runoff from the site.
 - ☒ A description of how BMPs and measures will prevent pollutants from entering surface streams, sensitive features, or the aquifer.
 - ☒ A description of how, to the maximum extent practicable, BMPs and measures will maintain flow to naturally-occurring sensitive features identified in either the geologic assessment, TCEQ inspections, or during excavation, blasting, or construction.
8. ☒ The temporary sealing of a naturally-occurring sensitive feature which accepts recharge to the Edwards Aquifer as a temporary pollution abatement measure during active construction should be avoided.
- ☐ **Attachment E - Request to Temporarily Seal a Feature.** A request to temporarily seal a feature is attached. The request includes justification as to why no reasonable and practicable alternative exists for each feature.
- ☒ There will be no temporary sealing of naturally-occurring sensitive features on the site.
9. ☒ **Attachment F - Structural Practices.** A description of the structural practices that will be used to divert flows away from exposed soils, to store flows, or to otherwise limit runoff discharge of pollutants from exposed areas of the site is attached. Placement of structural practices in floodplains has been avoided.
10. ☒ **Attachment G - Drainage Area Map.** A drainage area map supporting the following requirements is attached:
- ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin will be provided.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a smaller sediment basin and/or sediment trap(s) will be used.
 - ☐ For areas that will have more than 10 acres within a common drainage area disturbed at one time, a sediment basin or other equivalent controls are not attainable, but other TBMPs and measures will be used in combination to protect down slope and side slope boundaries of the construction area.
 - ☐ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. A smaller sediment basin and/or sediment trap(s) will be used in combination with other erosion and sediment controls within each disturbed drainage area.

- ☒ There are no areas greater than 10 acres within a common drainage area that will be disturbed at one time. Erosion and sediment controls other than sediment basins or sediment traps within each disturbed drainage area will be used.
11. ☐ **Attachment H - Temporary Sediment Pond(s) Plans and Calculations.** Temporary sediment pond or basin construction plans and design calculations for a proposed temporary BMP or measure have been prepared by or under the direct supervision of a Texas Licensed Professional Engineer. All construction plans and design information must be signed, sealed, and dated by the Texas Licensed Professional Engineer. Construction plans for the proposed temporary BMPs and measures are attached.
- ☒ N/A
12. ☒ **Attachment I - Inspection and Maintenance for BMPs.** A plan for the inspection of each temporary BMP(s) and measure(s) and for their timely maintenance, repairs, and, if necessary, retrofit is attached. A description of the documentation procedures, recordkeeping practices, and inspection frequency are included in the plan and are specific to the site and/or BMP.
13. ☒ All control measures must be properly selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices. If periodic inspections by the applicant or the executive director, or other information indicate a control has been used inappropriately, or incorrectly, the applicant must replace or modify the control for site situations.
14. ☒ If sediment escapes the construction site, off-site accumulations of sediment must be removed at a frequency sufficient to minimize offsite impacts to water quality (e.g., fugitive sediment in street being washed into surface streams or sensitive features by the next rain).
15. ☒ Sediment must be removed from sediment traps or sedimentation ponds not later than when design capacity has been reduced by 50%. A permanent stake will be provided that can indicate when the sediment occupies 50% of the basin volume.
16. ☒ Litter, construction debris, and construction chemicals exposed to stormwater shall be prevented from becoming a pollutant source for stormwater discharges (e.g., screening outfalls, picked up daily).

Soil Stabilization Practices

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

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

- 18. ☒ Records must be kept at the site of the dates when major grading activities occur, the dates when construction activities temporarily or permanently cease on a portion of the site, and the dates when stabilization measures are initiated.
- 19. ☒ Stabilization practices must be initiated as soon as practicable where construction activities have temporarily or permanently ceased.

Administrative Information

- 20. ☒ All structural controls will be inspected and maintained according to the submitted and approved operation and maintenance plan for the project.
- 21. ☒ If any geologic or manmade features, such as caves, faults, sinkholes, etc., are discovered, all regulated activities near the feature will be immediately suspended. The appropriate TCEQ Regional Office shall be immediately notified. Regulated activities must cease and not continue until the TCEQ has reviewed and approved the methods proposed to protect the aquifer from any adverse impacts.
- 22. ☒ Silt fences, diversion berms, and other temporary erosion and sediment controls will be constructed and maintained as appropriate to prevent pollutants from entering sensitive features discovered during construction.

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

No hazardous substances or hydrocarbons will be stored or used in excess on the construction site. Reportable contaminant quantities will be determined and based on 30 TAC §327. In the event of any spill of hydrocarbon products or hazardous substances of reportable quantities the following spill response actions will be taken:

1. The nature and extent of the spill will be assessed, and measures will be taken to protect self and all personnel.
2. City of Austin Fire Department will be notified of the nature and extent of the spill via telephone (911 or 512-974-0130).
3. TCEQ Spill Reporting 24-hour Hotline will be notified of the nature and extent of the spill via telephone (800-832-8224).
4. The source of the spill will be stopped and confined before spill response cleanup activities take place.
5. Spills will be reported prior to any spill response activities.
6. Absorbent materials will be used to contain small scale spill incidents immediately.
7. Absorbent containment booms will be used to contain the discharge of larger scale spill incidents immediately.
8. Any spill response action will follow applicable OSHA health and safety regulations.
9. Any water materials generated by spill response actions will be properly stored and disposed in accordance with local, state, and federal regulations.
10. The City of Austin Watershed Protection Department is the responsible party and may be contacted at 505 Barton Springs Road, Suite 12, Austin, Texas 78704 or 512-974-2550.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

Potential sources of contamination related to this project include:

- Sediment from spoil piles transported during stormwater events
- Accidental leakage of fuels from vehicles or equipment during construction activities

All necessary actions to minimize impacts of contamination will be taken before, during, and after the proposed project and in coordination with Attachment A, Spill Response Actions. Other than a potential incidental leak from construction vehicles or equipment, all additional runoff will be from natural sources.

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

The sequence for the construction of the proposed project improvements at Beckett Meadows Water Quality Pond Repair site are planned as follows:

- Following issuance of notice-to-proceed, Contractor installs silt fencing, tree protection, and stabilized construction entrance.
- Contractor clears site areas and prepares site for construction .
- Contractor locates existing utilities prior to construction.
- Contractor repairs the wet pond and adds a new liner system.
- Contractor completes site construction and initiates site clean-up.
- Contractor inspects and maintains temporary erosion and sedimentation controls throughout the project term.
- Contractor restores disturbed soil areas with mulch and hydro-seeding.

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

Temporary erosion and sedimentation control measures will include:

- Rock Berm;
- Mulch Sock;
- Tree protection;
- Inlet protection;
- Stabilized Construction Entrance (SCE);

Mulch socks shall be placed downgradient from the proposed site areas to control and filter any stormwater that may be generated from the proposed project site. Mulch sock shall also be placed around the perimeter of any storm drain inlets located on or downgradient of the proposed project area. No significant run-on from upgradient stormwater flows is anticipated due to the mulch sock. The mulch sock will further serve to control any stormwater generated by the proposed project site before it is allowed to discharge as stormwater sediment flows from the site. Mulch sock is shown on the project drawings submitted with this application.

Rock berms shall be placed downgradient of proposed site areas to control and filter any concentrated stormwater that may be generated from the proposed project site.

Tree protection will be placed around the critical root zone (CRZ) of protected trees on the proposed project site. This control measure will prevent erosion near the roots and protect the roots from being damaged by construction activities.

Inlet protection will be placed around any inlets that may contribute to a stormwater system. This control measure will control any stormwater generated by the proposed project site before it is allowed to discharge as stormwater-sediment flow from the site.

A stabilized construction entrance will be installed at the entrance of the construction area to minimize the tracking of sediments from the project site. All access to the construction site will use this SCE.

The area will remain vegetated where possible.

These temporary erosion and sedimentation control measures are indicated on the site drawings and will be put in place before the start of construction and shall remain in place for the duration of site construction activities.

City of Austin

Beckett Meadows Water Quality Pond Repair

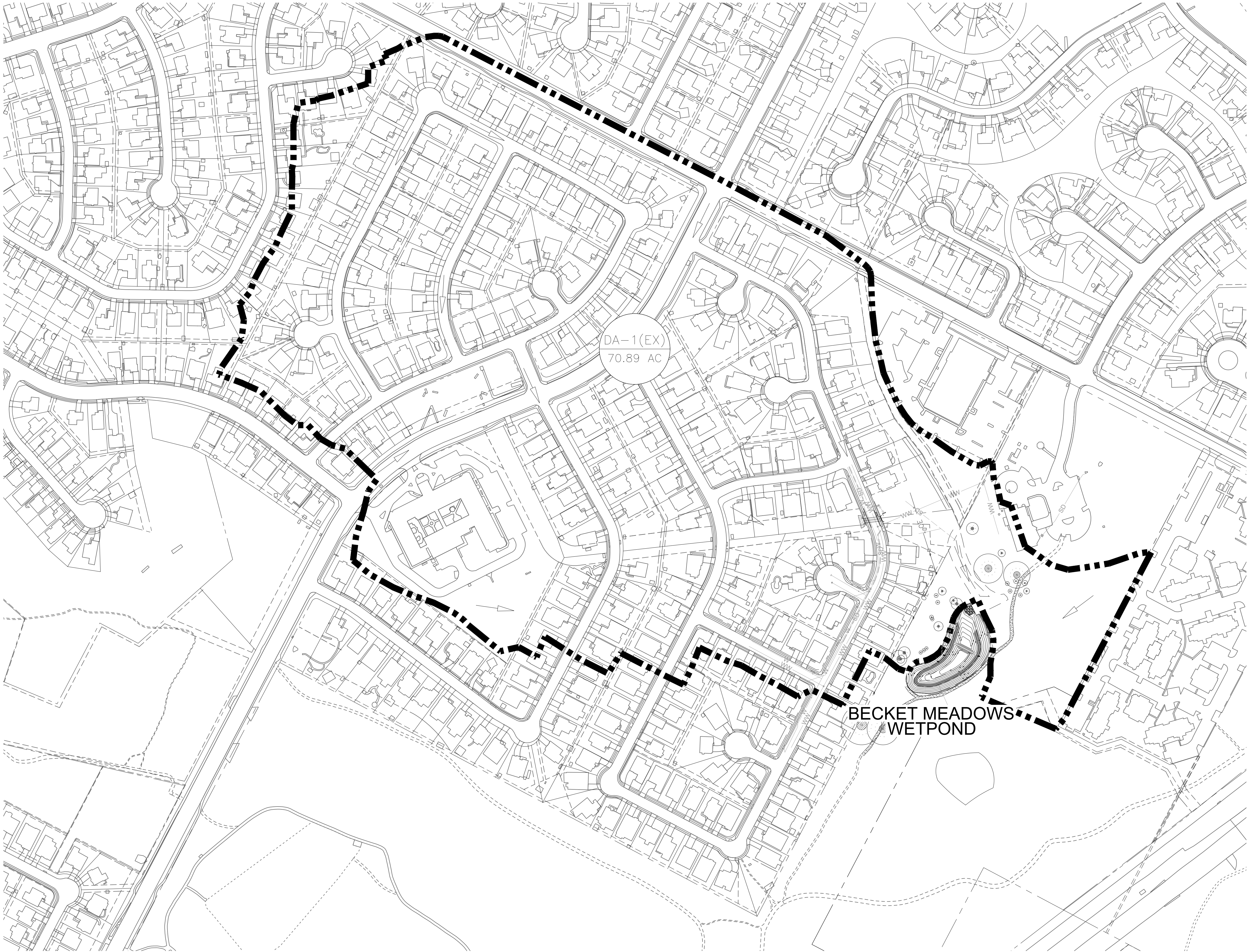
Water Pollution Abatement Plan

Structural Practices that will be used to limit the runoff discharge of sediments and pollutants from exposed areas of the proposed project include the following practices:

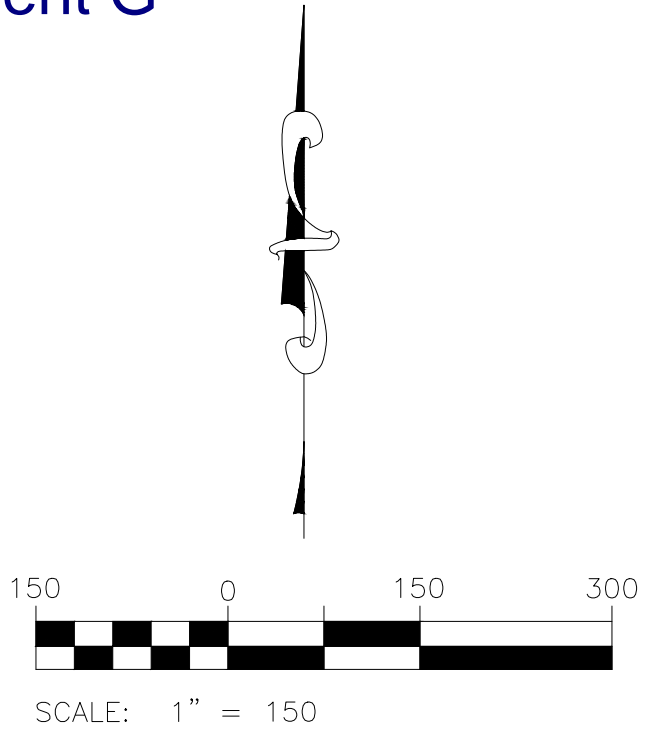
- Mulch sock;
- Rock berm;
- Stabilized Construction Entrance (SCE)

These practices are described in Attachment D, Temporary BMPs and Measures. No structural facilities, such as sedimentation ponds, will be constructed or used during construction activities.

\\nasd-arpl\BWP\ORDERS\BWP\Projects\Construction_T\Proj_LAWNS_200750_Beckett_Meadows\Design\AC\Plans\PRELIM\Drainage Area Map.dwg, October 19, 2023, 12:55 PM, Conventsa



Attachment G



LEGEND

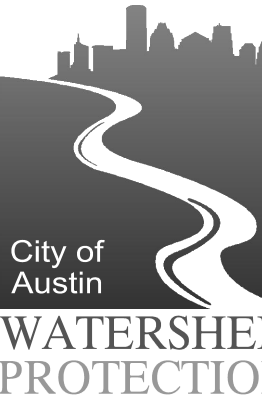
- APPROXIMATE PROPERTY LINE
- - - EXIST. CONTOUR LINE
- - - EXIST. EASEMENT LINE
- - - EXIST. WATERLINE
- - - EXIST. WASTEWATER LINE
- - - EXIST. STORM SEWER LINE
- - - EXIST. FIRE HYDRANT
- - - EXIST. GATE VALVE
- - - EXIST. WASTEWATER MANHOLE
- - - EXIST. CURB INLET
- - - EXIST. TREE WITH CRITICAL ROOT ZONE
- - - EXIST. TREE TO BE REMOVED
- - - DRAINAGE AREA DIVIDE
- - - DRAINAGE AREA #
- - - DRAINAGE AREA ACREAGE
- - - FLOW ARROW

BECKETT MEADOWS PARK
WATER QUALITY POND REPAIR
DRAINAGE AREA MAP

PROJECT DESIGN AND DELIVERY
505 BARTON SPRINGS RD.
AUSTIN, TEXAS 78704
PHONE: (512) 974-2000



REVISIONS			REMARKS
NO.	BY	DATE	



SHEET NO.

8

OF x
October 19, 2023

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

Silt fencing, rock berms, mulch sock, and the stabilized construction entrance shall be inspected once per week and following every significant rainfall event (of at least 0.1 inch or greater). If such inspections reveal that additional measurements are needed to prevent movement of sedimentation to offsite areas, the Contractor shall promptly install additional erosion control devices as may be required.

Silt fences shall be maintained and repaired as follows:

- Remove accumulated sediment once build up reaches 6 inches
- Replace torn or damaged filter fabric
- Make any other repairs or adjustments, as needed, to ensure the silt fencing is functioning properly

Rock berms shall be maintained and repaired as follows:

- Remove accumulated sediment once build up reaches 6 inches
- Repair any loose wire sheathing or reshape as needed
- Make any other repairs or adjustments, as needed, to ensure the rock berm is functioning properly

Mulch socks shall be maintained and repaired as follows:

- Remove accumulated sediment once build up reaches one third of the exposed height of the mulch sock
- Replace torn or damaged filter fabric or gaps between joints of adjacent ends of the socks so that no water flows under or around the sock
- Make any other repairs or adjustments, as needed, to ensure the mulch sock is functioning properly

Inlet protection shall be maintained and repaired as follows:

- Repair any damaged fabric, or patch with a two (2) foot minimum overlap
- Replace any damaged sandbags
- Remove accumulated sediment once build up reaches 3 inches
- Check placement of device to prevent gaps between device and curb

The stabilized construction entrance will also be inspected following precipitation events and stone will be replaced if silt accumulation is found to hinder the role of this BMP to minimize the off-site tracking of sediment.

Attachment I
Inspection and Maintenance for BMPs

Note that the inspections of the temporary BMPs will be documents in an inspection report. The inspection reports will document maintenance activities, sediment removal, and modifications to the sediment and erosion controls as necessary.

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

Temporary soil stabilization practices will include minimizing soil disturbance during construction and hydroseeding of temporary vegetation in disturbed areas. These temporary soil stabilization practices will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. These interim measures will be inspected, maintained, and will remain in place for the duration of the construction phase of the project. These control measures will be planned and implemented in accordance with the Edwards Aquifer Technical Guidance Manual and the City of Austin Environmental Criteria Manual.

Permanent soil stabilization and site restoration will occur prior to project completion. Permanent soil stabilization measures will include the loaming, hydroseeding, and re-vegetation of the disturbed areas using a native grass mix that is properly monitored and managed until long-term vegetation stabilization has occurred. This permanent soil stabilization will act as a linear vegetation filter strip in the long term.

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: Kshitiz Gyawali, P.E.

Date: 12/13/2023

Signature of Customer/Agent



Regulated Entity Name: Beckett Meadows Water Quality Pond Repair

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: City of Austin Environmental Criteria Manual
- ☐ 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

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

The intent of the project is to rehabilitate the existing permanent BMP for the site. The project site is located at the outlet of the drainage area and captures and treats flow from upstream before being discharged to the receiving stream. The site will be maintained during construction to limit runoff to surface streams – see the Temporary Stormwater Section for methods and measures. The rehabilitated wet pond will fully treat all upstream storm flows from impervious cover in the drainage basin.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

There is a small potential for stormwater flows from the Beckett Meadows Water Quality Pond construction. The site will be loamed, hydroseeded, and re-vegetated, and the water quality pond rehabilitated to protect stormwater runoff to the Williamson Creek Watershed. There will be no increase in impervious cover due to the construction of the improvements on this site, and the repair of the existing wet pond that serves as the permanent BMP on site will enhance water quality from the site. The on-site stormwater will be filtered by mulch socks, rock berms, and inlet protection as the main temporary BMPs to protect the receiving Williamson Creek Watershed during construction.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

The Beckett Meadows Water Quality Pond Repair will rehabilitate the non-functioning wet pond at the project site. After construction this pond will serve as the permanent BMP for the site and treat the contaminants, including TSS that flow to it from the drainage basin. This will enhance and reduce pollution to the receiving Kincheon Branch, a tributary to Williamson Creek.

City of Austin
Beckett Meadows Water Quality Pond Repair
Water Pollution Abatement Plan

The construction drawings are provided as part of this Water Quality Pond Retrofit design (attached at the end). The project's design drawings provide the civil and environmental drawings, including grading, erosion control, pond plans, and cross-section. The following permanent BMP is detailed and specified:

- Wet Pond

This pond serves as the existing permanent BMP and is being rehabilitated as part of this project. Repair efforts include replacing the existing clay liner with a geomembrane liner for the wet pond.

Design calculations and construction methods are included in the plan set and are in accordance with the City of Austin Environmental Criteria Manual that will also comply with Edwards Aquifer Rules and Barton Springs Save Our Springs Initiative rules based on the project location.

This permanent control will limit runoff discharge of pollutants from upstream development within the park.



12-13-2023

Kshitiz Gyawali, PE

CITY OF AUSTIN – BECKETT MEADOWS WATER QUALITY POND RETROFIT

FORM TCEQ 0600, ATTACHMENT G

5125 Convict Hill Road

Austin, Texas 78749

January 2024

WATER QUALITY FACILITIES MAINTENANCE PLAN

The Beckett Meadows Wetpond will be maintained according to City of Austin Environmental Criteria Manual. Section 1.6.3 Maintenance and Construction Requirements is attached below.

RESPONSIBLE PARTY

The inspection, maintenance, and repair shall be conducted by the City of Austin Watershed Protection Department and are designated as the Responsible Party. This plan is approved as such.

Signature of Responsible Party

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

Charles Kaough, P.E., Watershed Protection Department

1.6.3 Maintenance and Construction Requirements

- A. **Maintenance Responsibilities.** Proper maintenance is as important as engineering design and construction in order to ensure that water quality controls, referred to herein as stormwater control measures (SCMs), will function effectively. Section 25-8-231 of the Land Development Code requires maintenance be performed on SCMs when necessary as defined by this section.

Stormwater control measures required for commercial and multi-family development shall be maintained by the property owner.

Stormwater control measures for single family or duplex residential development shall be maintained by the City of Austin once the facilities have been accepted by the City, unless otherwise determined during the review process. For the City to accept an SCM, the facility must:

1. be constructed per the approved development plan;
2. meet all applicable requirements of Section 1.6.3 and the Drainage Criteria Manual, Section 1.2.4 E.;
3. complete a one-year warranty period, including the completion of all maintenance and rehabilitation activities identified by the Watershed Protection Department; and
4. obtain final warranty release approval from the Watershed Protection Department.

The City will also maintain SCMs designed to service primarily publicly owned roads and facilities. These SCMs must be designed and built according to the appropriate city standards.

- B. **Maintenance Requirements—Design and Construction.**

The design of drainage facilities (including but not limited to headwalls, open channels, storm sewers, area inlets, and detention, retention and stormwater control measures and their appurtenances) shall comply with the requirements of Section 1.2.4.E of the Drainage Criteria Manual. In addition, SCMs shall comply with the following construction requirements:

1. Sediment removed during construction of a detention, retention, or water quality facilities may be disposed of on-site if properly stabilized according to the practices outlined in the erosion and sedimentation control criteria found in Section 1.4.0 of this manual. After the City of Austin has accepted a stormwater facility disposal of sediment must be at an approved landfill.
2. During construction of SCMs, temporary erosion and sedimentation controls shall be maintained.
3. If runoff is to enter the sand filtration chamber of a water quality control facility prior to completion of site construction and revegetation, inspection and maintenance of all temporary erosion/sedimentation controls are required, as described in the Environmental Criteria Manual Section 1.4.4, to prevent heavy sediment loads caused by home construction from clogging the filtration media.
4. In all cases, trees shall be preserved according to the requirements of Section 3 of the Environmental Criteria Manual. The access drive and staging area shall be designed to preserve trees 8" (inches) in diameter and greater to the maximum extent possible. Trees 8" in diameter and larger shall be surveyed and shown for the proposed access easement at the time of construction plan permitting.

SECTION 1 - WATER QUALITY MANAGEMENT
1.6.0 - DESIGN GUIDELINES FOR WATER QUALITY CONTROLS
1.6.3 Maintenance and Construction Requirements

5. For filtration systems the design media depth must be verified, accounting for consolidation. If insufficient depth is present, additional media must be added and pre-soaked until the design depth is achieved. Pre-soaking - apply 5—10 gallons of water per square foot of media area within one hour.
 6. Retaining Walls - Retaining walls within SCMs require water-tightness. Water-tightness in retaining walls is essential to the function of the structure. Waterstops shall be provided during construction of expansion joints in retaining walls per Standard Specification 414S, Concrete Retaining Walls.
 7. Grouted Rock Walls - Grouted rock walls are acceptable only if the design includes an impermeable barrier such as an approved geomembrane liner or reinforced concrete retaining wall. Free standing dry stacked rock walls are not acceptable in any SCM.
 8. As-Built Surveys - As-built surveys of all flood detention basins and water quality SCMs shall be submitted to the City upon completion of final grade. Surveys shall be conducted by a licensed surveyor or the engineer of record and include representative survey points with elevations taken at top of wall, bottom of wall, center of basin, inlets, outfalls, overflow structures, and side slopes. Additional survey points may be requested at the discretion of the City Inspector to ensure basin integrity. Water quality basins with a drainage area of less than two (2) acres as well as vegetated filter strips do not require submittal of as-built surveys unless deemed necessary by the City Inspector.
- C. Major Maintenance Requirements.
1. The following maintenance activities shall be performed on all SCMs, in addition to the requirements listed for the individual SCM types, to ensure proper function:
 - a) Accumulated paper, trash and debris shall be removed every six (6) months or as necessary to maintain proper operation.
 - b) Structural integrity shall be maintained at all times. Basins and all appurtenances shall be inspected annually, or more frequently if specified, and repairs shall be made if necessary. When maintenance or repairs are performed, the SCM shall be restored to the original lines and grades.
 - c) Corrective maintenance shall occur:
 - i. Any time drawdown of the Water Quality Volume does not occur within ninety-six (96) hours (i.e., no standing water is allowed), unless a greater maximum drawdown time is specified in the plans.
 - ii. For detention ponds only, any time drawdown does not occur within twenty-four (24) hours.
 - d) The inlet and outlet of SCMs shall be maintained unimpeded in order to convey flow at all times. Observed blockages to the inlet and outlet, due to vegetation, sediment, debris, or any other cause, shall be removed.
 - e) No unvegetated area shall exceed ten (10) square feet. This performance requirement applies to the entire pond including the pond bottom, side slopes, and areas adjacent to the pond, and is intended to limit erosion.

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- f) Integrated pest management shall be performed and shall adhere to Section 1.6.2.F, Integrated Pest Management Guidelines.
 - g) The minimum vegetation height shall be four (4) inches in the SCM and all appurtenances, including the toe of the berm or wall outside the SCM, where applicable.
 - h) Sediment build-up shall be removed:
 - i. When the accumulation exceeds six (6) inches in splitter boxes, wet wells and basins.
 - ii. When sediment traps are full.
 - iii. When sediment, of any amount, causes standing water conditions or reduces basin storage by more than 10%.
 - i) When sediment is removed, the following requirements apply:
 - i. Irrigation shall be provided, as needed, until vegetation is established (well rooted). See Section 1.6.3.D, Irrigation Guidelines.
 - ii. The design depth of the filtration media shall be verified. See Section 1.6.3.B.5.
 - iii. Tilling of the filtration medium is not allowed.
 - j) For subsurface ponds maintenance plan requirements, refer to ECM Section 1.6.2(E).
2. Sedimentation and Filtration SCMs (Section 1.6.5).
- a. Vegetation within the SCM shall not exceed eighteen (18) inches in height at any time, except as called for in the design.
 - b. Vegetation that is mowed or cut shall be removed from the SCM.
3. Detention Basins.
- a. Vegetation within the basin shall not exceed eighteen (18) inches in height at any time.
4. Wet Ponds (See Section 1.6.6).

Due to the nature of wet ponds being full of water when in operation, the need for maintenance is not easily visible. However, when the ponds are built in stable upland areas, the need for maintenance of these ponds should be infrequent. Accumulation of sediment in the basin is the primary reason the pond will require intensive maintenance. Because of this, very careful attention should be paid to adequate, well-maintained erosion and sedimentation controls in the contributing drainage area during construction. This, in combination with the sediment forebay, should prevent the requirement of maintenance of the main pool soon after the pond is put online. The following are guidelines for pond maintenance:

During Site Construction - The sediment load to the sediment forebay shall be closely monitored after every storm event. If heavy sediment loads are detected during an inspection, the source should be corrected. Sediment shall be removed from the sediment forebay when one-third of the forebay volume is lost.

Upon Completion of Site Revegetation - Any sediment build-up (greater than 5% volume loss) shall be removed from the forebay upon completion of site revegetation. The sediment build-up

SECTION 1 - WATER QUALITY MANAGEMENT
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in the main pool shall be checked and if more the ten-percent of the volume is lost, it should be cleaned at that time.

Every Three Months for the First Two Years - During the three month initial inspection cycle, if more than fifteen percent of the volume of the forebay is lost, it shall be cleaned at that time.

Every Three Months - Turf areas around the pond should be mowed. Accumulated paper, trash, and debris shall be removed every three months or as necessary. Cattails, cottonwoods, and willows can quickly colonize shallow water and the edge of the pond. These species or any areas of plant overgrowth may be thinned at this time or as needed.

Annually - The basin should be inspected annually for side slope erosion and deterioration or damage to the structural elements. Any damage shall be repaired. Large areas, which have dead or missing vegetation, shall be replanted.

Every Three Years - The sediment build-up in the sediment forebay shall be checked. The sediment forebay shall be cleaned if more than one-third of the forebay volume is lost.

Every Six Years - The sediment build-up in the main pool shall be checked. Sediment shall be removed from the main pool when twenty percent of the main pool volume is lost.

5. Retention-Irrigation Systems (Section 1.6.7.A).
 - a. Basins. Structural integrity of basins shall be maintained at all times. Woody vegetation should be controlled/removed to prevent basin leakage. The ability of the basin to retain the water quality volume shall be evaluated by the COA.
 - b. Irrigation Areas. To the greatest extent practicable, irrigation areas are to remain in their natural state. However, vegetation must be maintained in the irrigation area such that it does not impede the spray of water from the irrigation heads. Tree and shrub trimmings and other large debris must be removed from the irrigation area. See requirements in Section 1.6.7.A.3.(g) and (h) regarding requirements for soil and vegetation in irrigation areas.
 - c. Pumps and Irrigation System. The pumps and irrigation system must be inspected or tested a minimum of six (6) times per year to show all components are operating as intended. Two (2) of these six (6) inspections should be after rain events to ensure that the irrigation system and all of its components perform as designed. This includes controls such as weather stations or rain sensors, delays, valves, alarm system, distribution lines, or other components as specified in the system design. Sprinkler heads must be checked to determine if any are broken, clogged, or not spraying properly. All inspection and testing reports must be kept on site and accessible to the City of Austin.
 - d. The overall system shall be inspected for the ability to retain the water quality volume on site per ECM Section 1.6.7.A.
6. Vegetative Filter Strips (Section 1.6.7.B).
 - a. Filter strips shall be managed so that a dense, healthy vegetative cover is preserved.
 - b. Unmowed vegetative filter strips are preferred. If mowed the cutting height shall be set to a minimum of four (4) inches for turfgrass and a minimum of 18 inches for bunchgrass. Grass clippings must be removed from the VFS in order to prevent export of nutrients.

SECTION 1 - WATER QUALITY MANAGEMENT
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1.6.3 Maintenance and Construction Requirements

- c. Bare spots and areas of erosion identified during inspections must be replanted and restored to meet specification.
 - d. Accumulated sediment shall be removed.
 - e. Any disturbance to the filter strip as a result of maintenance procedures or other reasons shall be repaired, including re-establishment of the vegetation.
 - f. Corrective maintenance is required if there is evidence of preferential flow paths around or through the VFS (e.g., upstream "lip" is silted in or installed too low).
 - g. The level spreaders shall be repaired if damaged or not functioning correctly.
7. Biofiltration and Rain Gardens (Sections 1.6.7.C and 1.6.7.H).

A. Maintenance Considerations in Design.

A lack of maintenance considerations in the design of a landscape commonly results in a site that is more maintenance intensive (i.e., costly) than necessary and/or appropriate for its purpose, and one that requires the routine use of practices that are undesirable (e.g., extensive pesticide use, intensive pruning of plants that grow too large for the spaces they occupy). The designer shall include maintenance considerations and IPM throughout the planning and design phase of a biofiltration project. Landscapes should be designed to allow for the access and aid the maneuverability of maintenance equipment (e.g., if areas of the pond are designed to be mown, acute angles should be avoided in turf areas; wide angles, gentle, sweeping curves, and straight lines are easier to mow).

B. Routine Maintenance.

Once vegetation is established, biofiltration systems should require less maintenance than sand filtration systems because the vegetation protects the filtration media from surface crusting and sediment clogging. Plant roots also provide a pathway for water to permeate down into the media, thus further enhancing the hydraulic performance of the system. Unless damaged by unusual sediment loads, high flows, or vandalism, the biofiltration media should be left undisturbed and allowed to age naturally, and biofiltration pond vegetation shall be managed so that a dense, healthy vegetative cover is preserved. The following maintenance items should be performed depending on frequency and time of year:

Biweekly during first growing season: Inspect vegetation until 95% vegetative cover is established.

Monthly: Check for accumulated sediments, remove as needed.

Quarterly: Remove debris and accumulated sediment; replace soil media in void areas caused by settlement; repair eroded areas; remulch by hand any void areas.

Semi-annually: Remove and replace dead or diseased vegetation that is considered beyond treatment (see planting specifications); treat all diseased trees and shrubs mechanically or by hand depending on the insect or disease infestation. If drawdown exceeds the drawdown time according to Section 1.6.3.C.1, lightly scarify soil with hand cultivator; if standing water remains for greater than 96 hours, remove top layer of sediment, mulch, and potentially vegetation; de-compact soil by scarification, and replace mulch and disturbed vegetation.

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1.6.3 Maintenance and Construction Requirements

Late winter: Trim bunch grasses; mow turf grasses; harvest other types of vegetation according to recommendations in the planting specifications. Adhere to Section 1.6.2.F.

Spring: Remove previous mulch layer and apply new mulch layer by hand (option) once every two to three years.

C. Other items.

- a. Signage shall be used to delineate the boundaries of the biofiltration area that are maintained with minimal mowing, no fertilizers, and limited use of organic herbicides.

8. Rainwater Harvesting (Section 1.6.7.D).

Proper monitoring and maintenance is important for any system to work appropriately and efficiently. Each configuration will perform differently. After the system has stabilized, inspection and maintenance might be needed several times a year and/or after heavy rainfall events. A pretreatment filter system (i.e., leaf guards, strainers, roof washers, etc.) is required prior to the cistern.

Maintenance activities shall be performed according to the following schedule:

Post Construction:

- The control and repair of erosion rills, from the irrigation system, should take place after each rainfall event until the vegetation is well established.
- Adjustments to the irrigation area should be considered as the vegetation matures and/or to minimize erosion problem areas.

Quarterly or after each rain event:

- Inspect water tanks periodically to insure proper functioning. Screen inlet and outlet pipes to keep the system closed to mosquitoes. Cap and lock tanks for safety.
- Caps should have access ports for interior inspection and maintenance.
- Clean pretreatment filter system, gutters, inflow, and outflow pipes as needed; sediment, trash, leaves, or other debris should not be allowed to accumulate to a point where it impedes the proper function of the rainwater harvesting system.
- Irrigation systems should be cleaned and damage sprinkler heads replaced.

Other items:

- a. The requirements for retention/irrigation systems apply when rainwater harvesting is designed to irrigate a vegetated area - see Section 1.6.3.C.4.
- b. The requirements for vegetative filter strips apply when a rainwater harvesting is designed to discharge to a vegetated area to be infiltrated - see Section 1.6.3.C.5.

9. Porous Pavement (Section 1.6.7.E).

General Maintenance

- Verify that the porous pavement receives no off-site runoff.

SECTION 1 - WATER QUALITY MANAGEMENT
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1.6.3 Maintenance and Construction Requirements

- Prior to final acceptance it must be demonstrated that the surface saturated hydraulic conductivity of any portion of the porous pavement is at least 20 inches/hour or, if the system is saturated, the entire water quality volume infiltrates into the subgrade within 48 hours.

Use the following testing methods to verify:

- For porous concrete and porous asphalt use ASTM C1701.
- For open-jointed block pavement, permeable interlocking concrete pavement (PICP) or concrete grid pavement (CGP) use ASTM C1781.

Construction and Post construction:

- When installing porous concrete, floating and troweling are not used, as those may close the surface pores.
- Do not seal or repave with non-porous materials.
- No piling of dirt, sand, gravel, or landscape material without covering the pavement first with a durable cover to protect the integrity of the pervious surface.
- All landscape cover must be graded to prevent washing and/or floating of such materials onto or through the pervious surface. No off-site flows allowed onto the porous pavement area.
- All chemical spills inclusive but not limited to petrochemicals, hydrocarbons, pesticides, and herbicides should be reported to the owner so they can prevent uncontrolled migration.
- Chemical migration control may require flushing, and/or the introduction of microbiological organisms to neutralize any impacts to the soil or water.

Monthly:

- Ensure that paving area is clean of debris, ensure that paving dewaterers between storms, and ensure that the area is clean of sediments.

Semi-annually:

- Ensure that the porous pavement is protected from clogging due to runoff from landscape areas, rooftops, and other areas that may significantly reduce the long-term permeability by diverting flows away.

Annually:

- To ensure that the entire water quality volume infiltrates into the subgrade within 48 hours the pervious surface should be vacuumed to restore the open permeable pores and lift the sediment or other contaminants out that may reduce the long-term permeability.
- It is required that this frequency be increased for areas where overhanging vegetation, excessive dirt, and pollutants are frequent.
- Inspect the surface for deterioration. As necessary, repair or replace porous pavement or, for open-jointed block pavement or permeable interlocking concrete pavement replenish aggregate within the joints.

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1.6.3 Maintenance and Construction Requirements

10. Non-Required Vegetation (Section 1.6.7.G).

- a. An approved Integrated Pest Management Plan with a recorded Restrictive covenant is required. It is extremely important that fertilizer and chemical use be minimized; otherwise the Non-required vegetation may become a source of pollution instead of a treatment best management practice. Tree Pruning and vegetation management should be modified (i.e., less frequent and less intensive) to maximize the leaf surface area, or Leaf Area Index (LAI), the 25-year growth root system, and the rainfall interception rate to increase future benefits.
- b. As non-required vegetation is to have no off-site runoff and is also required to have porous pavement (or undisturbed natural ground) extended to at least the 25-year growth root system, the porous pavement requirements apply (see 1.6.3.C.8).
- c. Damage to vegetation must be corrected immediately, with replanting done if necessary.

D. Irrigation Guidelines.

Irrigation is necessary to establish plants during the first 12-months after installation. Thereafter irrigation needs should be minimal and an irrigation system whether permanent or temporary may not be necessary depending on the weather, type of plants, and extent of plant establishment.

Supplemental watering after the first 12-months may be required during periods of extended drought if plant replacement occurred after the first year, for more mesic-type plants, and for trees. Trees typically require two to three years of supplemental water. The necessity for continued irrigation after the first year should be made by a landscape professional.

If an irrigation system is proposed, the design shall address both the SCM and plant health needs. In particular, overwatering is unacceptable as it will negatively impact the hydraulic performance and pollutant removal capabilities of SCM.

Treated wastewater effluent (also referred to as reclaimed water) contains nutrients at concentrations higher than stormwater runoff. Because these elevated nutrient concentrations would impair the nutrient removal function of SCM, no temporary or permanent irrigation of SCM may occur with reclaimed water or treated wastewater effluent.

The following minimum criteria will apply for permanent irrigation systems:

1. Soil water moisture sensors shall be installed and connected to the controller at appropriate depths and locations in the biofiltration basin.
2. No irrigation during periods when rainfall is occurring.
3. Irrigation shall not commence until the soil moisture content of the filtration media is $\leq 25\%$ of the Available Water Capacity (AWC). For plants native or adapted to arid and semi-arid conditions, irrigation shall not commence until the soil moisture content is \leq Wilting Point (WP), or 0% AWC.
4. Irrigation shall cease once the soil moisture content is $\leq 75\%$ AWC; 50% for plants native or adapted to arid and semi-arid conditions.

Source: Rule No. R161-14.26, 12-30-2014 ; Rule No. R161-15.12, 1-4-2016 ; Rule No. R161-16.19, 11-14-16; Rule No. R161-21.03 , 3-9-2021.

City of Austin

Beckett Meadows Water Quality Pond Repair

Water Pollution Abatement Plan

There is a potential for stormwater from the proposed construction area to reach the Williamson Creek Watershed after being treated by recommended control measures. The permanent BMP control is the wet pond that is being repaired as part of this project and will treat all upstream flows that will reduce contamination to the downstream watershed. Hydroseeding and re-vegetation of all disturbed areas outside of the wet pond will provide permanent erosion and sediment control. There will be no increase in impervious cover of the project area. These measures will provide sufficient reduction in erosion, runoff velocities, and TSS loading to surface streams.

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: Beckett Meadows Water Quality Pond Repair

Regulated Entity Location: 5125 Convict Hill Road, Austin, Texas 78749

Name of Customer: City of Austin

Contact Person: Kshitiz Gyawali

Phone: 512-574-6566

Customer Reference Number (if issued): CN CN600135198

Regulated Entity Reference Number (if issued): RN RN102137817

Austin Regional Office (3373)

☐ Hays

☒ Travis

☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar

☐ Medina

☐ Uvalde

☐ Comal

☐ Kinney

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

☒ Austin Regional Office

☐ San Antonio Regional Office

☒ Mailed to: TCEQ - Cashier

☐ Overnight Delivery to: TCEQ - Cashier

Revenues Section

Mail Code 214

P.O. Box 13088

Austin, TX 78711-3088

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	Acres	\$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	109.723 Acres	\$ 8,000
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	\$
Extension of Time	Each	\$

Signature: 

Date: 12/13/2023

Application Fee Schedule

Texas Commission on Environmental Quality

Edwards Aquifer Protection Program 30 TAC Chapter 213 (effective 05/01/2008)

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

<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

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

GENERAL INFO

ACCOUNT		OWNER	
Property ID:	324380	Name:	CITY OF AUSTIN
Geographic ID:	0415370335	Secondary Name:	% REAL ESTATE DIVISION
Type:	R	Mailing Address:	PO BOX 1088 AUSTIN TX 78767-1088
Zoning:	P		
Agent:		Owner ID:	100058
Legal Description:	ABS 2 SUR 17 ANDERSON T ACR 109.723	% Ownership:	100.00
Property Use:		Exemptions:	EX-XV - Other Exemptions (including

LOCATION

Address: 8011 BECKETT RD, TX 78749

Market Area:
Market Area CD: _OEXMP
Map ID: 041537

PROTEST

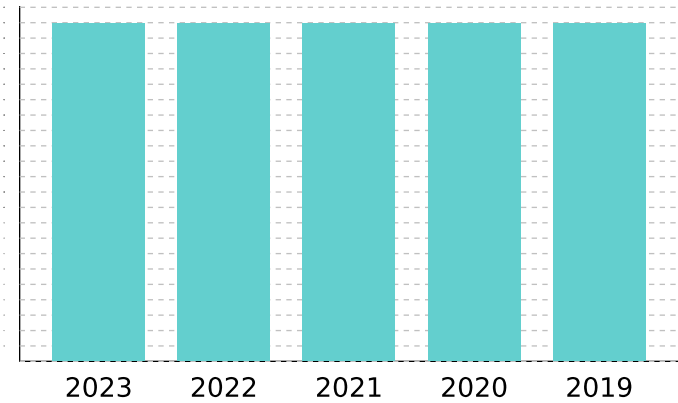
Protest Status:
Informal Date:
Formal Date:

VALUES

CURRENT VALUES

Land Homesite:	\$0
Land Non-Homesite:	\$2,194,460
Special Use Land Market:	\$0
Total Land:	\$2,194,460
Improvement Homesite:	\$0
Improvement Non-Homesite:	\$0
Total Improvement:	\$0
Market:	\$2,194,460
Special Use Exclusion (-):	\$0
Appraised:	\$2,194,460
Value Limitation Adjustment (-):	\$0
Net Appraised:	\$2,194,460

VALUE HISTORY



Values for the current year are preliminary and are subject to change.

VALUE HISTORY

Year	Land Market	Improvement	Special Use Exclusion	Appraised	Value Limitation Adj (-)	Net Appraised
2023	\$2,194,460	\$0	\$0	\$2,194,460	\$0	\$2,194,460
2022	\$2,194,460	\$0	\$0	\$2,194,460	\$0	\$2,194,460
2021	\$2,194,460	\$0	\$0	\$2,194,460	\$0	\$2,194,460
2020	\$2,194,460	\$0	\$0	\$2,194,460	\$0	\$2,194,460
2019	\$2,194,460	\$0	\$0	\$2,194,460	\$0	\$2,194,460

TAXING UNITS

Unit	Description	Tax Rate	Net Appraised	Taxable Value
01	AUSTIN ISD	0.996600	\$2,194,460	\$0
02	CITY OF AUSTIN	0.462700	\$2,194,460	\$0
03	TRAVIS COUNTY	0.318239	\$2,194,460	\$0
0A	TRAVIS CENTRAL APP DIST	0.000000	\$2,194,460	\$0
2J	TRAVIS COUNTY HEALTHCARE DISTRICT	0.098684	\$2,194,460	\$0
68	AUSTIN COMM COLL DIST	0.098700	\$2,194,460	\$0

DO NOT PAY FROM THIS ESTIMATE. This is only an estimate provided for informational purposes and may not include any special assessments that may also be collected. Please contact the tax office for actual amounts.

IMPROVEMENT

LAND

Land	Description	Acres	SQFT	Cost per SQFT	Market Value	Special Use Value
LAND	Land	109.7230	4,779,533	\$0.46	\$2,194,460	\$0

DEED HISTORY

Deed Date	Type	Description	Grantor/Seller	Grantee/Buyer	Book ID	Volume	Page	Instrument
8/15/80	WD	WARRANTY DEED		CITY OF AUSTIN		07103	01795	



TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (If other is checked please describe in space provided.)		
<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
2. Customer Reference Number (if issued)	Follow this link to search for CN or RN numbers in Central Registry**	3. Regulated Entity Reference Number (if issued)
CN 600135198		RN 102137817

SECTION II: Customer Information

4. General Customer Information		5. Effective Date for Customer Information Updates (mm/dd/yyyy)			
<input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership					
<input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)					
<i>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).</i>					
6. Customer Legal Name (If an individual, print last name first: eg: Doe, John)				<i>If new Customer, enter previous Customer below:</i>	
City of Austin					
7. TX SOS/CPA Filing Number		8. TX State Tax ID (11 digits)		9. Federal Tax ID (9 digits)	10. DUNS Number (if applicable)
11. Type of Customer:		<input type="checkbox"/> Corporation		<input type="checkbox"/> Individual	Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited
Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other		<input type="checkbox"/> Sole Proprietorship		<input type="checkbox"/> Other:	
12. Number of Employees				13. Independently Owned and Operated?	
<input 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 type="checkbox"/> Yes <input type="checkbox"/> No	
14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following					
<input type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other:					
<input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant					
15. Mailing Address:					
City		State		ZIP	ZIP + 4
16. Country Mailing Information (if outside USA)				17. E-Mail Address (if applicable)	
18. Telephone Number		19. Extension or Code		20. Fax Number (if applicable)	

SECTION III: Regulated Entity Information

21. General Regulated Entity Information (If 'New Regulated Entity' is selected, a new permit application is also required.)								
<input type="checkbox"/> New Regulated Entity <input type="checkbox"/> Update to Regulated Entity Name <input checked="" type="checkbox"/> Update to Regulated Entity Information								
<i>The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).</i>								
22. Regulated Entity Name (Enter name of the site where the regulated action is taking place.)								
City of Austin								
23. Street Address of the Regulated Entity: (No PO Boxes)	5125 Convict Hill RD							
	City	Austin	State	TX	ZIP	78749	ZIP + 4	
24. County	Travis							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:										
26. Nearest City						State			Nearest ZIP Code	
<i>Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).</i>										
27. Latitude (N) In Decimal:						28. Longitude (W) In Decimal:				
Degrees	Minutes		Seconds		Degrees	Minutes		Seconds		
29. Primary SIC Code (4 digits)		30. Secondary SIC Code (4 digits)		31. Primary NAICS Code (5 or 6 digits)			32. Secondary NAICS Code (5 or 6 digits)			
33. What is the Primary Business of this entity? (Do not repeat the SIC or NAICS description.)										
Parkland										
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 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"/> Wastewater	<input type="checkbox"/> Wastewater Agriculture	<input type="checkbox"/> Water Rights	<input type="checkbox"/> Other:

SECTION IV: Preparer Information

40. Name:	Kshitiz Gyawali			41. Title:	Civil Engineer
42. Telephone Number	43. Ext./Code	44. Fax Number	45. E-Mail Address		
(512) 574-6566		() -	kshitiz.gyawali@austintexas.gov		

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:	City of Austin	Job Title:	Engineer A
Name (In Print):	Kshitiz Gyawali, PE	Phone:	(512) 574- 6566
Signature:		Date:	12-13-2023