FREESE AND NICHOLS

Innovative approaches
Practical results
Outstanding service

Edwards Aquifer Exception Request

for

New Braunfels Utilities

Hoffmann Pump Station

Prepared for:

TCEQ-Region 13 Office

San Antonio, Texas

August 2024

Prepared by:

FREESE AND NICHOLS, INC.
10431 Morado Circle, Suite 300
Austin, Texas 78759
512-617-3100

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: Hoffmann Pump Station						**2. Regulated Entity No.: RN101281202**				
3. Customer Name: New Braunfels Utilities						**4. Customer No.: CN600522957**				
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):**			4.5	
9. Application Fee:	$500		**10. Permanent BMP(s):**			Vegetative Filter Strips				
11. SCS (Linear Ft.):	N/A		**12. AST/UST (No. Tanks):**			N/A				
13. County:	Comal		**14. Watershed:**			Comal- Guadalupe River				

Application Distribution

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

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

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

Austin Region			
County:	**Hays**	**Travis**	**Williamson**
Original (1 req.)	___	___	___
Region (1 req.)	___	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___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.)	___	_X_	___	___	___
Region (1 req.)	___	_X_	___	___	___
County(ies)	___	_X_	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	_X_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 _X_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. Tam Tran
Print Name of Customer/Authorized Agent  07-31-2024
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: Tam Tran

Date: 07/30/2024

Signature of Customer/Agent:

Project Information

1. Regulated Entity Name: Hoffmann Pump Station
2. County: Comal
3. Stream Basin: Guadalupe River Basin
4. Groundwater Conservation District (If applicable): Comal Trinity GCD
5. Edwards Aquifer Zone:

   ☒ Recharge Zone
   ☐ Transition Zone

6. Plan Type:

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

7. Customer (Applicant):

   Contact Person: Adam Willard, PE.
   Entity: New Braunfels Utilities
   Mailing Address: 355 FM 306
   City, State: New Braunfels, TX Zip: 78130
   Telephone: (830)608-8943 FAX: _____
   Email Address: awillard@nbutexas.com

8. Agent/Representative (If any):

   Contact Person: Tam Tran
   Entity: Freese and Nichols, Inc.
   Mailing Address: 10431 Morado Circle, Suite 300
   City, State: Austin, TX Zip: 78759
   Telephone: (512)381-1830 FAX: (512)617-3101
   Email Address: tam.tran@freese.com

9. Project Location:

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

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

    The project is located at the southeastern corner of FM 306 and Hoffmann Lane, north of Hoffmann Lane Elementary School. The address is 4600 FM 306, Canyon Lake, Texas 78132.

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: prior to construction: late August 2024

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

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

15. Existing project site conditions are noted below:

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

Prohibited Activities

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

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

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

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

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

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

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

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

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

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

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

Administrative Information

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

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

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

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

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

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

Attachment A. Road Map

FREESE AND NICHOLS, INC
10431 Morado Circle, Suite 300
Austin, TX 78759
512-617-3188

N
W E
S

New Braunfels Utilities

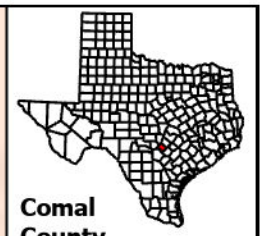
Hoffman Pump Station

Road Map

FN JOB NO	NBU23463
FILE NAME	NBU23463_ProjectMaps.mxd
DATE	7/31/2024
DESIGNED	02588
DRAFTED	02588

Path: H:\ENVIRONMENTAL\Final_Exhibits\NBU23463_ProjectMaps\NBU23463_ProjectMaps.aprx

Attachment B. USGS/ Edwards Aquifer Zone Map



HOFFMANN LN

Limits Of Construction (LOC) = 0.07 Acres

Edwards Aquifer Recharge Zone

0 150 300 US Feet

FREESE AND NICHOLS, INC
10431 Morado Circle, Suite 300
Austin, TX 78759
512-617-3188

N W E S

New Braunfels Utilities

Hoffman Pump Station

Edwards Aquifer USGS Topographic Map

Quad Name: Hunter, TX (2022)

FN JOB NO	NBU23463
FILE NAME	NBU23463_ProjectMaps.mxd
DATE	7/31/2024
DESIGNED	02588
DRAFTED	02588

Path: H:\ENVIRONMENTAL\Final_Exhibits\NBU23463_ProjectMaps\NBU23463_ProjectMaps.aprx

Attachment C

Project Description

The Hoffmann Pump Station (Hoffmann PS) project is located in the extra-territorial jurisdiction of New Braunfels, Comal County, Texas. Specifically, the project area is on the north side of the city of Gruene, near the intersection of FM 306 and Hoffmann Lane. The project area is located at 4600 FM 306 on a 0.24-acre site, adjacent to the Hoffmann Lane Elementary School. Hoffmann PS currently consists of three 500 gallons per minute (gpm) vertical turbine pumps and a 300,000-gallon standpipe. The existing pump station site was built in 2000 (approval letter AI:13-00030901). New improvements to the Hoffmann PS site will include a concrete pad for a small diesel generator. The generator will be utilized to ensure reliability in the event of an electrical blackout.

The existing site is developed and has been utilized as a pump station by New Braunfels Utilities and contains existing impervious cover. The surrounding area is used for public education, associated roadways, and undisturbed lands. The entire project area has previously been disturbed to install utility lines, electrical lines, fencing, and other related improvements. There will be no demolition of buildings within the project area. The total impervious area will increase from an existing 0.045 acre (1,975 ft^2) to 0.049 acre 2,139 ft^2, an increase of 0.004 acre or 164 ft^2. Temporary BMP will include silt fencing. Silt fencing will be placed downgradient of construction activity and soil disturbances. Permanent BMPs will include vegetative filter strips (VFS). Disturbed land will be revegetated with engineered VFS. Vegetative filter strips will act as the preferred Best Management Practice. Vegetative filter strips would be placed on the downstream perimeter of the proposed impervious cover for a minimum of 15 feet in the direction of the flow. Vegetative filter strips will be installed post-construction in disturbed areas for erosion and sediment control.

Recharge and Transition Zone Exception Request Form

Texas Commission on Environmental Quality
30 TAC §213.9 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 **Recharge and Transition Zone Exception Request Form** is hereby submitted for TCEQ review and executive director approval. The request was prepared by:

Print Name of Customer/Agent: Tam Tran
Date: 07/31/2024
Signature of Customer/Agent:

Regulated Entity Name: Comal ISD Hoffmann Lane Elementary School

Exception Request

1. ☒ **Attachment A - Nature of Exception**. A narrative description of the nature of each exception requested is attached. All provisions of 30 TAC §213 Subchapter A for which an exception is being requested have been identified in the description.
2. ☒ **Attachment B - Documentation of Equivalent Water Quality Protection**. Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

3. ☒ 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.
4. ☒ The applicant understands that no exception will be granted for a prohibited activity in Chapter 213.
5. ☒ The applicant understands that prior approval under this section must be obtained from the executive director for the exception to be authorized.

Hoffmann Pump Station

Edwards Aquifer Exception Request

ATTACHMENT A

Nature of Exception

The Hoffmann Pump Station project will be operated by New Braunfels Utilities (NBU). NBU is proposing to install a concrete pad for a diesel generator.

On July 17, 2023, Tam Tran (FNI) emailed Mr. Hunter Patterson from the TCEQ Edwards Aquifer Protection Program. Impervious cover will increase approximately 164 ft^2 within the project area. Mr. Patterson indicated that the generator project can be covered by an Exception Request. However because of the negligible amount of impervious cover proposed, TCEQ has agreed to waive a geologic assessment.

During the construction process, temporary BMPs such as silt fences will be utilized downgradient of the project site to control sediment and erosion. Temporary BMPs will be installed prior to construction and meet all requirements. Permanent BMPs will include engineered vegetated filter strips.

Hoffmann Pump Station

Edwards Aquifer Exception Request

ATTACHMENT B

Documentation of Equivalent Water Quality Protection:

During the construction process, temporary BMPs such as silt fences will be utilized downgradient of the project site to control sediment and erosion to nearby stormwater drains. Temporary BMPs will be installed prior to construction and meet all requirements. Existing VFS and detention basin on site will treat stormwater runoff. Additional engineered VFS will be added to treat the increase in impervious cover.

Temporary BMPs are shown on the following construction plan document.

Tam Tran

From: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>
Sent: Thursday, July 25, 2024 8:15 AM
To: Tam Tran; Michael Lafferty
Cc: Monica Reyes
Subject: RE: NBU Hoffman and Oak Run Facilities

Good morning Tam,

After discussions with management and staff, we are still requesting Exceptions for both projects to be submitted for administrative and technical review. However, given the negligible amount of impervious cover proposed we will consider a waiver of the Geologic Assessment requirements for both sites. Please note that if the site assessment reveals any sensitive geologic features, then we will request a Geologic Assessment to be submitted.

Thank you,

Hunter Patterson
Environmental Investigator
Edwards Aquifer Protection Program
TCEQ San Antonio Regional Office
Office: 210-403-4026
Email: hunter.patterson@tceq.texas.gov

From: Tam Tran <Tam.Tran@freese.com>
Sent: Wednesday, July 24, 2024 2:16 PM
To: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>; Michael Lafferty <Michael.Lafferty@freese.com>
Cc: Monica Reyes <Monica.Reyes@tceq.texas.gov>
Subject: RE: NBU Hoffman and Oak Run Facilities

Good afternoon Hunter,
I hope you had a good trip to Uvalde. The purpose of a call would be to discuss the requirements of a WPAP Exception Request and the possibility of getting a technical or administrative variance for the two sites. Since the increase in IC (Hoffman PS- 164 sqft and Oak Run- 99 sqft) for both of the sites are minimal and the timeline is to bring the projects out to bid by mid-August, it would be hard to conduct a geologic assessment and provide the necessary documentation for EAPP coordination. Please let us know if you have availability to discuss. Thank you for your time and consideration,

Tam H. Tran
Environmental Scientist | Project Manager
Western Gulf Coast Integrated Water Management Division
Freese and Nichols, Inc.
10431 Morado Circle, Suite 300
Austin, TX 78759
Office: 512-381-1830
Mobile: 512-203-5701
Tam.Tran@freese.com

From: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>
Sent: Monday, July 22, 2024 3:46 PM
To: Tam Tran <Tam.Tran@freese.com>; Michael Lafferty <Michael.Lafferty@freese.com>
Cc: Monica Reyes <Monica.Reyes@tceq.texas.gov>
Subject: RE: NBU Hoffman and Oak Run Facilities

Good afternoon,

I am unavailable for the rest of the day and Wednesday due to a scheduled site assessment investigation in Uvalde. Could you please provide context for the discussion before a meeting can be set?

Thank you,

Hunter Patterson
Environmental Investigator
Edwards Aquifer Protection Program
TCEQ San Antonio Regional Office
Office: 210-403-4026
Email: hunter.patterson@tceq.texas.gov

From: Tam Tran <Tam.Tran@freese.com>
Sent: Monday, July 22, 2024 3:20 PM
To: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>; Michael Lafferty <Michael.Lafferty@freese.com>
Cc: Monica Reyes <Monica.Reyes@tceq.texas.gov>
Subject: RE: NBU Hoffman and Oak Run Facilities

Good afternoon Hunter,
Can you please let us know when you are available today (7/22) or Wednesday (7/24) to discuss site improvements to Hoffman and Oak Run and coordination with EAPP? Thanks,

Tam H. Tran
Environmental Scientist | Project Manager
Western Gulf Coast Integrated Water Management Division
Freese and Nichols, Inc.
10431 Morado Circle, Suite 300
Austin, TX 78759
Office: 512-381-1830
Mobile: 512-203-5701
Tam.Tran@freese.com

From: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>
Sent: Friday, July 19, 2024 10:17 AM
To: Tam Tran <Tam.Tran@freese.com>; Michael Lafferty <Michael.Lafferty@freese.com>
Cc: Monica Reyes <Monica.Reyes@tceq.texas.gov>
Subject: RE: NBU Hoffman and Oak Run Facilities

Good morning, Tam. Please see below:

1. Hoffmann Pump Station (located at 4600 FM 306, within EA Recharge Zone)
    a. This site will be installing a small diesel generator on a **concrete pad with an above ground storage tank with 182 gallons of diesel fuel storage**.
    b. **The proposed additional impervious cover for the generator w/pad is approximately 164 SF (2139 SF of existing IC).**
    c. The entire area was previously disturbed to install utility lines, electric lines, fencing, and other related improvements.

    Looks like the Hoffmann Pump Station was approved under CISD Hoffman Lane Elementary (RN101281202). I believe the approval letter for this development is AI: 13-00030901, approved by letter dated April 26, 2000. Please keep the Regulated Entity Number (RN) and Additional ID (AI) if needed for future public information requests. For this proposal, we are requesting a WPAP Exception to be submitted to our office for technical review, given the proposed negligible increase in impervious cover.

2. Oak Run Flow Control Valve (located at 2893 Oak Run Parkway, within EA Recharge Zone)
    a. At this site, NBU is installing a **very small natural gas generator on a concrete pad** next to an existing road (Oak Run Parkway).
    b. The existing site has negligible impervious from several existing overhead electric poles. The added impervious cover is approximately 6 SF for an electrical pad, 26 SF for the generator pad, and 66 SF for a 12" wide concrete mow for a **total of 99 SF of added impervious cover**.

    Tracking down any previous approval letters for the existing Oak Run Flow Control Valve was difficult but I believe the existing development was approved under Emerald Cottages (RN107936874). Please keep this

RN if needed for any future public information requests. For this proposal, we are also requesting a WPAP Exception to be submitted to our office for technical review, given the negligible increase in impervious cover.

Thank you,

Hunter Patterson
Environmental Investigator
Edwards Aquifer Protection Program
TCEQ San Antonio Regional Office
Office: 210-403-4026
Email: hunter.patterson@tceq.texas.gov

From: Tam Tran <Tam.Tran@freese.com>
Sent: Thursday, July 18, 2024 6:09 PM
To: Hunter Patterson <Hunter.Patterson@tceq.texas.gov>; Michael Lafferty <Michael.Lafferty@freese.com>
Subject: Fwd: NBU Hoffman and Oak Run Facilities

Good afternoon Hunter,
I have attached the draft design sheets for the Hoffman and Oak Run facilities for your reference. If you have any questions about the design, please let Michael and I know. Thank you for your time and consideration,

Tam H. Tran

Get Outlook for Android

From: Tam Tran
Sent: Wednesday, July 17, 2024 8:30:20 AM
To: EAAdmin <EAAdmin@tceq.texas.gov>; EAPP <eapp@tceq.texas.gov>
Cc: Michael Lafferty <Michael.Lafferty@freese.com>
Subject: NBU Hoffman and Oak Run Facilities

Goo afternoon,
I am in the process of reviewing a few facilities projects for New Braunfels Utilities (NBU) and would like to get your recommendation on permitting approaches for compliance with the TCEQ Edwards Aquifer Protection Program. NBU is currently in the process of installing generators to comply with the TCEQ Emergency Preparedness Plan for safety and reliability. Both sites are located in Comal County.

1. Hoffmann Pump Station (located at 4600 FM 306, within EA Recharge Zone)
    a. This site will be installing a small diesel generator on a **concrete pad with an above ground storage tank with 182 gallons of diesel fuel storage**.
    b. **The proposed additional impervious cover for the generator w/pad is approximately 164 SF (2139 SF of existing IC).**
    c. The entire area was previously disturbed to install utility lines, electric lines, fencing, and other related improvements.
2. Oak Run Flow Control Valve (located at 2893 Oak Run Parkway, within EA Recharge Zone)

a. At this site, NBU is installing a **very small natural gas generator on a concrete pad** next to an existing road (Oak Run Parkway).
b. The existing site has negligible impervious from several existing overhead electric poles. The added impervious cover is approximately 6 SF for an electrical pad, 26 SF for the generator pad, and 66 SF for a 12" wide concrete mow for a **total of 99 SF of added impervious cover**.

Our assumption is that the two projects described above would be exempt from a WPAP Exception Request and additional coordination with TCEQ EAPP due to negligible increases in impervious cover (de minimis). The finalized design documents are attached. Can you please confirm that this assumption is correct? Thank you for your time and consideration,

Tam H. Tran
Environmental Scientist | Project Manager
Western Gulf Coast Integrated Water Management Division
Freese and Nichols, Inc.
10431 Morado Circle, Suite 300
Austin, TX 78759
Office: 512-381-1830
Mobile: 512-203-5701
Tam.Tran@freese.com

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: Tam Tran

Date: 07/31/2024

Signature of Customer/Agent:

Regulated Entity Name: Hoffmann Pump Station

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: gasoline, diesel

   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: Tributary to Alligator 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.

Attachment A

Spill Response Actions

The TCEQ's spill response rules (30 TAC § 327.1-5) define what is considered a reportable spill and outline reporting requirements to the state, local government, and affected persons or property owners. Response and follow-up written report requirements are also identified.

The reportable quantities (RQ) for hazardous substances shall be:

(1) for spills or discharges onto land--the quantity designated as the Final Reportable Quantity (RQ) in Table 302.4 in 40 CFR §302.4; or

(2) for spills or discharges into waters in the state--the quantity designated as the Final RQ in Table 302.4 in 40 CFR §302.4, except where the Final RQ is greater than 100 pounds in which case the RQ shall be 100 pounds.

The RQ for crude oil and oil other than that defined as petroleum product or used oil shall be:

(A) for spills or discharges onto land--210 gallons (five barrels); or

(B) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

The RQ for petroleum product and used oil shall be:

(A) except as noted in subparagraph (B) of this paragraph, for spills or discharges onto land--25 gallons;

(B) for spills or discharges to land from PST exempted facilities--210 gallons (five barrels); or

(C) for spills or discharges directly into water in the state--quantity sufficient to create a sheen.

Industrial solid waste or other substances. The RQ for spills or discharges into water in the state shall be 100 pounds.

Upon the determination that a reportable discharge or spill has occurred, the responsible person shall notify the agency as soon as possible but not later than 24 hours after the discovery of the spill or discharge. The responsible person shall notify the agency in any reasonable manner including by telephone, in person, or by any other method approved by the agency. In all cases, the initial notification shall provide, to the extent known, the following information:

(1) the name, address and telephone number of the person making the telephone report;

(2) the date, time, and location of the spill or discharge;

(3) a specific description or identification of the oil, petroleum product, hazardous substances or other substances discharged or spilled;

(4) an estimate of the quantity discharged or spilled;

(5) the duration of the incident;

(6) the name of the surface water or a description of the waters in the state affected or threatened by the discharge or spill;

(7) the source of the discharge or spill;

(8) a description of the extent of actual or potential water pollution or harmful impacts to the environment and an identification of any environmentally sensitive areas or natural resources at risk;

(9) if different from paragraph (1) of this subsection, the names, addresses, and telephone numbers of the responsible person and the contact person at the location of the discharge or spill;

(10) a description of any actions that have been taken, are being taken, and will be taken to contain and respond to the discharge or spill;

(11) any known or anticipated health risks;

(12) the identity of any governmental representatives, including local authorities or third parties, responding to the discharge or spill; and

(13) any other information that may be significant to the response action.

In order to satisfy the federal requirement to notify the State Emergency Response Commission in the State of Texas, the responsible person shall notify one of the following:

(1) the State of Texas Spill-Reporting Hotline at 1-800-832-8224;

(2) during normal business hours only, the regional office for the agency region in which the discharge or spill occurred; or

(3) the National Response Center at 1-800-424-8802.

The responsible person shall notify the agency as soon as possible whenever necessary to provide information that would trigger a change in the response to the spill or discharge. If the discharge or spill creates an imminent health threat, the responsible person shall immediately notify and cooperate with local emergency authorities (fire department, fire marshal, law enforcement authority, health authority, or Local Emergency Planning Committee (LEPC), as appropriate). The responsible party will cooperate with the local emergency authority in providing support to implement appropriate notification and response actions. The local emergency authority, as necessary, will implement its emergency management plan, which may include notifying and evacuating affected persons. In the absence of a local emergency authority, the responsible person shall take reasonable measures to notify potentially affected persons of the imminent health threat.

The responsible person shall immediately abate and contain the spill or discharge and cooperate fully with the executive director and the local incident command system. The responsible person shall also begin reasonable response actions which may include, but are not limited to, the following actions:

(1) arrival of the responsible person or response personnel hired by the responsible person at the site of the discharge or spill;

(2) initiating efforts to stop the discharge or spill;

(3) minimizing the impact to the public health and the environment;

(4) neutralizing the effects of the incident;

(5) removing the discharged or spilled substances; and

(6) managing the wastes.

Texas Commission on Environmental Quality (TCEQ). 2016. 30 TAC § 327.1-5. Chapter 327: Spill Prevention and Control. https://www.tceq.texas.gov/assets/public/legal/rules/rules/pdflib/327.pdf

Attachment B

Potential Sources of Contamination

During the proposed project, the sources of potential contamination include the diesel fuel and hydraulic fluid in the equipment that will be used for construction of the concrete pad. Fuel for construction vehicles and work trucks will be used and be stored on site in sealed containers. No contamination is expected to occur.

ATTACHMENT C

SEQUENCE OF MAJOR ACTIVITIES

Activity	Description	Area of Disturbance	BMPs
Install temporary BMPs	Install temporary BMPs such as silt fencing	<0.01 ac	Silt Fencing
Clearing	Remove vegetation within the project area	<0.01 ac	Silt fencing
Construction	Construction of the concrete pad	0.003 ac	Silt fencing
Revegetation	Revegetate disturbed ground	<0.01 ac	Vegetative filter strips

Attachment D

Temporary Best Management Practices and Measures

BMP	Sequence of Construction	Control Measures
Debris and trash management	Pre-construction	Trash and litter control
Sanitary facilities	Pre-construction	Sanitary waste control
Silt fence	Pre-construction	Sediment control
Vegetative filter strips	Post construction	Slope protection; channel protection; temporary stabilization

The BMPs that will be in place during and after construction have been selected to help prevent pollution of surface water, groundwater, stormwater, the aquifer, or any other sensitive features that may be on or near the proposed project site. The measures to help prevent this pollution and maintain flow to naturally-occurring sensitive features are described below. There is no surface water on the project site.

Sanitary facilities and debris and trash management will help reduce sanitary waste and trash from littering the project site and surrounding areas.

A silt fence will be constructed around the perimeter of the disturbed area to filter sediment from water flowing over the disturbed area. The silt fence will help detain soil and sediment from leaving the construction site. By filtering water runoff, the possibility of pollution to any surface water, sensitive features, or aquifers that may be near the site is reduced.

Additional vegetative filter strips will be used for soil stabilization throughout the disturbed project area. The vegetated area provides protection from erosion and filtering from overland runoff. The filtered and reduced runoff will prevent the pollution of surface water, groundwater, or sensitive features that may be on or near the project site during and after construction activities.

Resources:

North Central Texas Council of Governments (NCTCOG). 2003. Integrated Storm Water Management Design Manual for Construction. http://www.iswm.nctcog.org/Documents/Construction/Final/pdf/Ch4_E_BMPs.pdf

Barrett, Michael. 2005. TCEQ Complying with the Edwards Aquifer Rules: Technical Guidance of Best Management Practices (RG-348).

Attachment F

Structural Practices

Use of a silt fence will filter sediment from on-site runoff, containing sediment in the disturbed area and preventing potential pollution to off-site areas.

Attachment G. Drainage Area Maps

Cover Type	Area (acres)
Existing Impervious Cover	0.010067
Proposed Impervious Cover	0.003763
Proposed Vegetated Filter Strip	0.003798

STATE OF TEXAS
J. BLAINE LAECHELIN
103616
REGISTERED PROFESSIONAL ENGINEER
8-5-2024

FREESE AND NICHOLS, INC.
TEXAS REGISTERED
ENGINEERING FIRM
F-2144

FN PROJECT NO.	NBU23436
DATE CREATED	Date: 8/5/2024
DATUM & COORDINATE SYSTEM	
FILE NAME	Name: TCEQ_DA_Maps
PREPARED BY	HV

FREESE AND NICHOLS, INC.
10431 MORADO CIR SUITE 300,
AUSTIN, TX 78759
PHONE: (512) 617-3100

City of New Braunfels
Hoffman Pump Station

Hoffman Pump Station Water Quality Calcs

N W E S

FIGURE
1

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Additional information is provided for cells with a red triangle in the upper right corn
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will r

1. The Required Load Reduction for the total project: Calculations from RG-348

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

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resul
A_N = Net increase in impervious a
P = Average annual precipitation

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

County =	Comal	
Total project area included in plan * =	0.07	acres
Predevelopment impervious area within the limits of the plan * =	0.02	acres
Total post-development impervious area within the limits of the plan* =	0.03	acres
Total post-development impervious cover fraction * =	0.37	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	3	lbs.

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

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

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

Drainage Basin/Outfall Area No. = 1

Total drainage basin/outfall area =	0.02	acres
Predevelopment impervious area within drainage basin/outfall area =	0.01	acres
Post-development impervious area within drainage basin/outfall area =	0.01	acres
Post-development impervious fraction within drainage basin/outfall area =	0.57	
$L_{M\ THIS\ BASIN}$ =	3	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 3

where:

A_C = Total On-Site drainage area
A_I = Impervious area proposed in
A_P = Pervious area remaining in tl
L_R = TSS Load removed from this

A_C =	**0.02**	acres
A_I =	**0.01**	acres
A_P =	**0.01**	acres
L_R =	**14**	lbs

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

Desired $L_{M\ THIS\ BASIN}$ =	**3**	lbs.
F =	**0.22**	

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area.

Rainfall Depth =	**0.13**	inches
Post Development Runoff Coefficient =	**0.40**	
On-site Water Quality Volume =	**5**	cubic feet

Calculations from RG-348

Off-site area draining to BMP =	**0.00**	acres
Off-site Impervious cover draining to BMP =	**0.00**	acres
Impervious fraction of off-site area =	**0**	
Off-site Runoff Coefficient =	**0.00**	
Off-site Water Quality Volume =	**0**	cubic feet

Storage for Sediment =	**1**	
Total Capture Volume (required water quality volume(s) x 1.20) =	**5**	cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP
The values for BMP Types not selected in cell C45 will show NA.

7. Retention/Irrigation System Designed as Required in RG

Required Water Quality Volume for retention basin =	**NA**	cubic feet

Irrigation Area Calculations:

Soil infiltration/permeability rate =	**0.1**	in/hr
Irrigation area =	**NA**	square feet
	NA	acres

8. Extended Detention Basin System Designed as Required in RG

Required Water Quality Volume for extended detention basin =	**NA**	cubic feet

9. Filter area for Sand Filters Designed as Required in RG

9A. Full Sedimentation and Filtration System

Water Quality Volume for sedimentation basin =	**NA**	cubic feet
Minimum filter basin area =	**NA**	square feet
Maximum sedimentation basin area =	**NA**	square feet
Minimum sedimentation basin area =	**NA**	square feet

9B. Partial Sedimentation and Filtration System

Water Quality Volume for combined basins =	**NA**	cubic feet
Minimum filter basin area =	**NA**	square feet
Maximum sedimentation basin area =	**NA**	square feet
Minimum sedimentation basin area =	**NA**	square feet

10. Bioretention System Designed as Required in RG

Required Water Quality Volume for Bioretention Basin =	**NA**	cubic feet

11. Wet Basins Designed as Required in RG

Required capacity of Permanent Pool =	**NA**	cubic feet
Required capacity at WQV Elevation =	**NA**	cubic feet

12. Constructed Wetlands Designed as Required in RG

Required Water Quality Volume for Constructed Wetlands =	**NA**	cubic feet

13. AquaLogic™ Cartridge System Designed as Required in RG

**** 2005 Technical Guidance Manual (RG-348) does not exempt the required 20% increase with mainten**

Required Sedimentation chamber capacity =	**NA**	cubic feet
Filter canisters (FCs) to treat WQV =	**NA**	cartridges
Filter basin area (RIA_F) =	**NA**	square feet

14. Stormwater Management StormFilter® by CONTECH

Required Water Quality Volume for Contech StormFilter System =	**NA**	cubic feet

THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FL

15. Grassy Swales Designed as Required in RG

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A =	8.00	acres
Impervious Cover in Drainage Area =	4.00	acres
Rainfall intensity = i =	1.1	in/hr
Swale Slope =	0.01	ft/ft
Side Slope (z) =	3	
Design Water Depth = y =	0.33	ft
Weighted Runoff Coefficient = C =	0.54	

A_{CS} = cross-sectional area of flow in Swale =	13.17	sf
P_W = Wetted Perimeter =	40.62	feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_W =	0.32	feet
n = Manning's roughness coefficient =	0.2	

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

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

$$b = \frac{0.134 \times Q}{} - zy = 38.51 \text{ feet}$$

$y^{1.67} S^{0.5}$

Q = CiA =	4.71	cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} =	0.36	ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) =	107.24	feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the des

15B. Alternative Method using Excel Solver

Design Q = CiA =	4.71	cfs
Manning's Equation Q =	0.76	cfs
Swale Width=	6.00	ft

Instructions are provided to the right (green comments).

Flow Velocity	0.36	ft/s
Minimum Length =	107.24	ft

Instructions are provided to the right (blue comments).

Design Width =	6	ft
Design Discharge =	0.76	cfs
Design Depth =	0.33	ft
Flow Velocity =	0.32	cfs
Minimum Length =	97.48	ft

If any of the resulting values do not meet the design requirement set forth in RG-348, the design param
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the

16. Vegetated Filter Strips Designed as Required in RG

There are no calculations required for determining the load or size of vegetative filter strips.
The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction o
the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with m
across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as lo

If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described c

17. Wet Vaults Designed as Required in RG

Required Load Removal Based upon Equation 3.3 =	**NA**	lbs

First calculate the load removal at 1.1 in/hour

RG-348 Page 3-30 Equation 3.4: Q = CiA

C = runoff coefficient for the drainage area =	0.39	
i = design rainfall intensity =	1.1	in/hour
A = drainage area in acres =	1	acres
Q = flow rate in cubic feet per second =	0.43	cubic feet/se

RG-348 Page 3-31 Equation 3.5: V_{OR} = Q/A

Q = Runoff rate calculated above =	0.43	cubic feet/se
A = Water surface area in the wet vault =	150	square feet
V_{OR} = Overflow Rate =	0.00	feet/sec
Percent TSS Removal from Figure 3-1 (RG-348 Page 3-31) =	53	percent
Load removed by Wet Vault =	#VALUE!	lbs

If a bypass occurs at a rainfall intensity of less than 1.1 in/hours
Calculate the efficiency reduction for the actual rainfall intensity rate

Actual Rainfall Intensity at which Wet Vault bypass Occurs =	0.5	in/hour
Fraction of rainfall treated from Figure 3-2 RG-348 Page 3-32 =	0.75	percent
Efficiency Reduction for Actual Rainfall Intensity =	0.83	percent
Resultant TSS Load removed by Wet Vault =	#VALUE!	lbs

18. Permeable Concrete Designed as Required in RG

PERMEABLE CONCRETE MAY ONLY BE USED ON THE CONTRIBUTING ZONE

19. BMPs Installed in a Series Designed as Required in RG

Michael E. Barrett, Ph.D.. P.E. recommended that the coefficient for E_2 be changed fror

$E_{TOT} = [1 - ((1 - E_1) X (1 - 0.65E_2) x (1 - 0.25E_3))] X 100$ =	86.38	percent
EFFICIENCY OF FIRST BMP IN THE SERIES = E_1 =	75.00	percent
EFFICIENCY OF THE SECOND BMP IN THE SERIES = E_2 =	70.00	percent
EFFICIENCY OF THE THIRD BMP IN THE SERIES = E_3 =	0.00	percent

THEREFORE, THE NET LOAD REMOVAL WOULD BE:
(A_I AND A_P VALUES ARE FROM SECTION 3 ABOVE)

$L_R = E_{TOT}$ X P X (A_I X 34.6 X A_P X0.54) = 13.80 lbs

20. Stormceptor

Required TSS Removal in BMP Drainage Area=	**NA**	lbs
Impervious Cover Overtreatment=	0.0000	ac
TSS Removal for Uncaptured Area =	0.00	lbs

BMP Sizing

Effective Area =	NA	EA
Calculated Model Size(s) =	#N/A	
Actual Model Size (if multiple values provided in Calculated Model Size or if you are choosing a larger model size) =	0	Model Size
Surface Area =	#N/A	ft^2
Overflow Rate =	#VALUE!	V_{or}
Rounded Overflow Rate =	#VALUE!	V_{or}
BMP Efficiency % =	#VALUE!	%
L_R Value =	#VALUE!	lbs
TSS Load Credit =	#VALUE!	lbs
Is Sufficient Treatment Available? (TSS Credit ≥ TSS Uncapt.)	#VALUE!	
TSS Treatment by BMP (LM + TSS Uncapt.) =	#VALUE!	

21. Vortech

Required TSS Removal in BMP Drainage Area=	**NA**	lbs
Impervious Cover Overtreatment=	0.0000	ac
TSS Removal for Uncaptured Area =	0.00	lbs

BMP Sizing

Effective Area =	NA	EA
Calculated Model Size(s) =	#N/A	
Actual Model Size (if choosing larger model size) =	Vx1000	Pick Model S
Surface Area =	7.10	ft^2
Overflow Rate =	#VALUE!	V_{or}
Rounded Overflow Rate =	#VALUE!	V_{or}
BMP Efficiency % =	#VALUE!	%
L_R Value =	#VALUE!	lbs
TSS Load Credit =	#VALUE!	lbs
Is Sufficient Treatment Available? (TSS Credit ≥ TSS Uncapt.)	#VALUE!	

TSS Treatment by BMP (LM + TSS Uncapt.) = #VALUE!

Project Name: Hoffman
Date Prepared: 8/1/2024

er. Place the cursor over the cell.
·348.

'emove the equations used in the spreadsheet.

Pages 3-27 to 3-30

ting from the proposed development = 80% of increased load
rea for the project
, inches

Aqualogic Cartridge Filter

Bioretention
Contech StormFilter
Constructed Wetland
Extended Detention
Grassy Swale
Retention / Irrigation
Sand Filter
Stormceptor
Vegetated Filter Strips
Vortechs
Wet Basin
Wet Vault

34.6 + A_P x 0.54)

in the BMP catchment area
the BMP catchment area
ne BMP catchment area
catchment area by the proposed BMP

Calculations from RG-348 Pages 3-34 to 3-36

Pages 3-36 to 3-37

.

i-348 Pages 3-42 to 3-46

Enter determined permeability rate or assumed value of 0.1

i-348 Pages 3-46 to 3-51

i-348 Pages 3-58 to 3-63

For minimum water depth of 2 feet
For maximum water depth of 8 feet

For minimum water depth of 2 feet
For maximum water depth of 8 feet

i-348 Pages 3-63 to 3-65

i-348 Pages 3-66 to 3-71

Permanent Pool Capacity is 1.20 times the WQV
Total Capacity should be the Permanent Pool Capacity

plus a second WQV.

i-348 Pages 3-71 to 3-73

i-348 Pages 3-74 to 3-78

ance contract with AquaLogic ™.

OW RATES - NOT CALCULATED WATER QUALITY VOLUMES

i-348 Pages 3-51 to 3-54

ign parameters must be modified and the solver rerun.

Error 1 = 3.95

Error 2 = 3.95

neters may be modified and the solver rerun.
e swale bottom value may not be possible.

-348 Pages 3-55 to 3-57

f flow) and
aximum slope of 20% or
ong as no slope exceeds 20%.

on Page 3-56 of RG-348.

-348 Pages 3-30 to 3-32 & 3-79

To solve for bottom width of the
Excel can simultaneously solve
The required “Swale Width” occ

First, highlight Cell F219 (Error
Then click on “Tools” and “Solv
The value in the “Set Target cell
The value in the “By Changing C
Click on solve.

The resulting “Swale Width” mu
If the resulting “Swale Width” ex

If there is not the option for “So
Click on “Tools” and “Add Ins”
Then proceed as instructed abo

If you would like to increase the
Excel can simultaneously solve
The required “Design Depth” for

First set the desired bottom wid
Highlight Cell F232. The equatio

Click on “Tools” and “Solver”.
The value in the “Set Target cell
The value in the “By Changing C
Click on solve.

The resulting “Design Depth” m
If the resulting “Design Depth” e
First set the desired bottom wid
Highlight Cell F232. The equatio
Click on “Tools” and “Solver”.
The value in the “Set Target cell
The value in the “By Changing C
Click on solve.

The resulting “Design Depth” m
If the resulting “Design Depth” e

C = Runoff Coefficient = 0.546 (IC)^2 + 0.328 (IC) + 0.03

c

c

-348 Pages 3-79 to 3-83

-348 Pages 3-32

n 0.5 to 0.65 on May 3, 2006

NET EFFICIENCY OF THE BMPs IN THE SERIES

Size

trapezoidal swale (b) using the Excel solver:
the “Design Q” (C217) vs “Manning's Q” (C219) by varying the “Swale Width” (C220).
urs when the “Design Q” = “Manning's Q”

1 value). The equation showing in the fx screen for Cell F219 should be “= C217-C219"
ver”. The “Solver Parameters” screen pops up.
” should be F219 “Error 1 ="
Cells” should be C220 “Swale Width”

st be less than 10 feet to meet the requirements of the TGM.
xceeds 10 feet then the design parameters must be revised and the solver run again.

lver” under “Tools”
and then check “Solver Add-in”
ve.

bottom width of the trapezoidal swale (b):
the “Design Q” (C217) vs “Design Discharge” (C232) by varying the “Design Depth” (C233).
r a 10-foot bottom width occurs when the “Design Q” (C217) = the “Design Discharge” (C232).

th in Cell C231.
on showing in the fx screen for Cell F232 should be “= C217-C232"

The “Solver Parameters” screen pops up.
” should be F232 “Error 2"
Cells” should be C233 “Design Depth”

ust be equal to or less than 0.33 feet to meet the requirements of the TGM.
exceeds 0.33 feet then the design parameters must be revised and the solver run again.
th in Cell C231.
on showing in the fx screen for Cell F232 should be “= C217-C232"
The “Solver Parameters” screen pops up.
” should be F232 “Error 2"
Cells” should be C233 “Design Depth”

ust be equal to or less than 0.33 feet to meet the requirements of the TGM.
exceeds 0.33 feet then the design parameters must be revised and the solver run again.

Attachment I

Inspection and Maintenance for BMPs

The proposed project of trenching and pump station construction is anticipated to disturb less than five acres. Being less than five acres of disturbance, a Stormwater Pollution Prevention Plan (SW3P) without Notice of Intent (NOI) to TCEQ will be in place prior to and during construction. An Inspector's Qualifications and Inspection Form is part of the SW3P. The roles and responsibilities for implementation and maintenance of the elements of the SW3P and BMPs are also specified in the SW3P and will be agreed to by all parties involved with the construction activity who meet the definition of a primary operator. The following are inspection and maintenance guidelines for the selected temporary BMPs as stated in TCEQ RG-348:

Silt fence:

1) Inspect all fencing weekly, and after any rainfall.
2) Remove sediment when buildup reaches 6 inches.
3) Replace any torn fabric or install a second line of fencing parallel to the torn section.
4) Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A triangular filter dike may be preferable to a silt fence at common vehicle access points.
5) When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be re-vegetated. The fence itself should be disposed of in an approved landfill.

Vegetative Filter Strips:

1) Vegetation strips should be inspected weekly and after each rain event to locate and repair any erosion.
2) Erosion from storms or other damage should be repaired as soon as practical by re-grading the area and applying new seed.
3) If the vegetated cover is less than 70%, the area should be reseeded.

Completed inspection reports will include the following information:

- scope of the inspection,
- name(s) of personnel making the inspection,
- reference to qualifications of inspection personnel,
- date of the inspection,
- observed major construction activities, and
- actions taken as a result of the inspection.

The inspection report should state whether the site was in compliance or identify any incidents of non-compliance. The report will be signed by the inspector in accordance with Part III.F.7 of the TPDES general permit and filed in the SWP3. Inspection reports will be kept in the Contractor's file, along with the SWP3, for at least three years from the date that the project is completed.

Final stabilization of the construction site has been achieved when all soil disturbing activities at the site have been completed, and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures. If a vegetative cover cannot be established, equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) can be employed. When these conditions have been met, BMPs can be removed from the construction area.

Attachment J

Schedule of Interim and Permanent Soil Stabilization Practices

Interim and Permanent Soil Stabilization Practices	Schedule
Silt Fence	Before and during construction
Stabilized construction entrance	Before and during construction
Protection of protected and heritage trees	During construction
Vegetative Filter Strips	Post construction
Permanent Vegetation	Post construction

Permanent Stormwater Section

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Customer/Agent: Tam Tran

Date: 07/31/2024

Signature of Customer/Agent

Regulated Entity Name: Hoffmann Pump Station

Permanent Best Management Practices (BMPs)

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

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

   ☐ N/A

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

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

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

☐ N/A

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

   ☐ N/A

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

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

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

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

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

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

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

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

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

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

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

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

☐ N/A

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

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

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

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

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

☐ N/A

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

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

    ☐ N/A

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

    ☒ N/A

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

    ☐ N/A

Responsibility for Maintenance of Permanent BMP(s)

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

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

    ☐ N/A

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

    ☐ N/A

Attachment B

BMPs for Upgradient Stormwater

Vegetation upgradient of the project site will remain in its natural condition. Disturbed areas of the project site that are not imperviously covered will be re-vegetated upon completion of construction. With a minimal slope gradient, 0-5% slopes, runoff velocities in the project area are low. Any additional overland sheet flow originating upgradient of the project site will flow over the vegetative filter strips. Sediment laden stormwater will be filtered by the materials to prevent pollution of any surface water, groundwater, or stormwater channels. There is no observed surface water or groundwater sources upgradient of the project site that is expected to flow over the site.

Attachment C

BMPs for On-site Stormwater

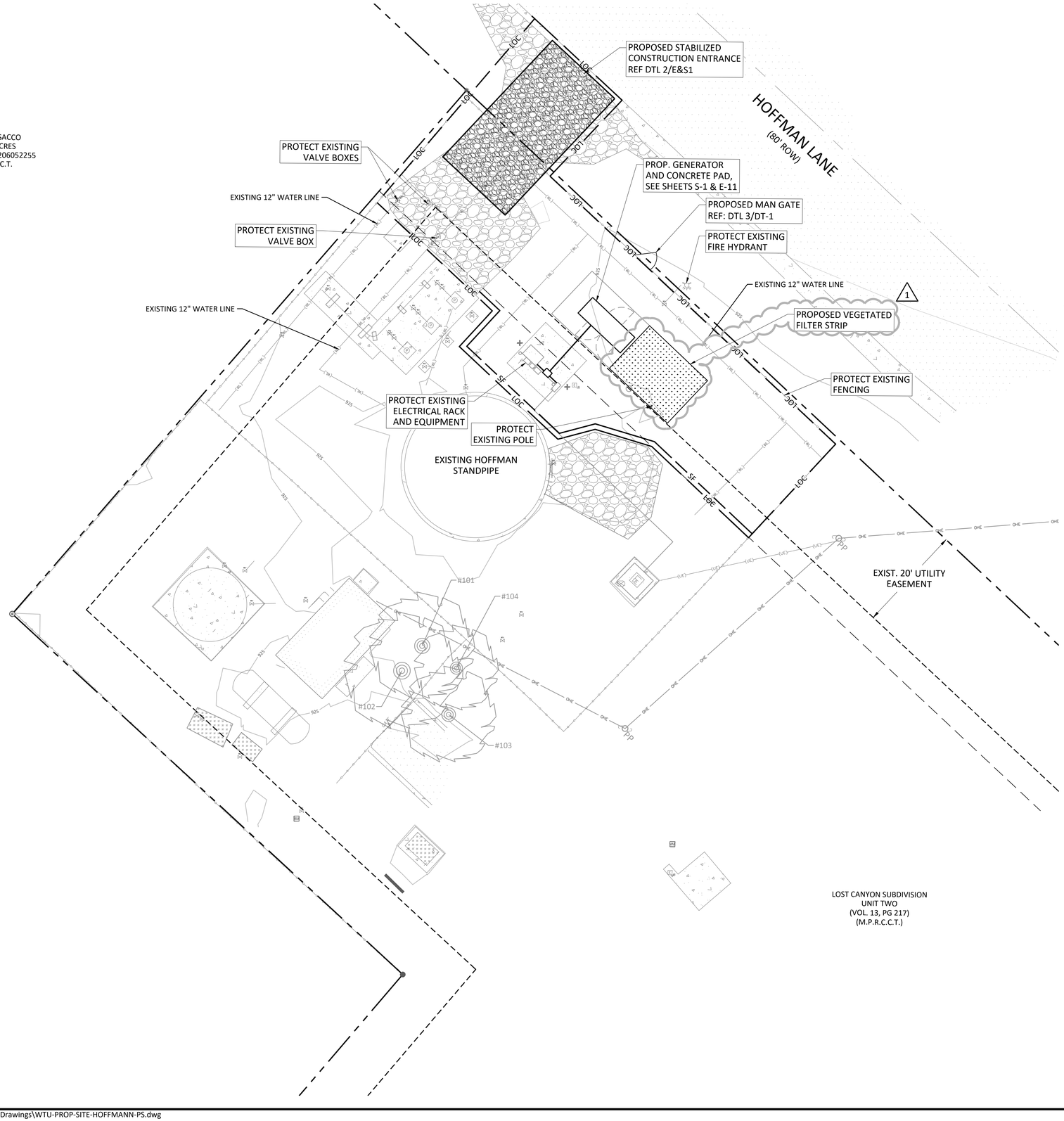
Disturbed areas of the project site that are not imperviously covered will be re-vegetated upon completion of construction. With a minimal slope gradient, runoff velocities in the project area are low. There is a 6” cement curb with a chain-linked fence running along the entire perimeter of the site that will keep the majority of on-site stormwater within the project area. Any additional overland sheet flow originating on-site will flow over the vegetative strips and be filtered to help prevent pollution of any potential surface water, groundwater, or stormwater. There is no observed surface water or ground water on the project site that is expected to flow over the site.

Attachment D

BMPs for Surface Streams

There is an ephemeral tributary to Alligator Creek just south of the project area, across from N. Walnut Avenue. Silt fencing running along the perimeter of the construction area and roadway storm drains will keep upgradient and on-site stormwater within the project area and prevent disturbed sediments from entering the stream. Disturbed areas of the project site that are not imperviously covered will be re-vegetated upon completion of construction. Any additional overland sheet flow originating from the project area will flow over the vegetative filter strips. There the stormwater will be filtered to prevent pollution of any potential surface water, groundwater, or stormwater, and flow rates will be reduced.

Attachment F. Construction Plans



NOTES:

1. CONTRACTOR SHALL FIELD VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION
2. ALL TREES SHALL BE PRESERVED.
3. ALL DISTURBED AREAS SHALL BE RESTORED WITH TOPSOIL PER TXDOT ITEM 160 "TOPSOIL" AND SEEDED PER TXDOT ITEM 164 "SEEDING FOR EROSION CONTROL."
4. PER TPDES REQUIREMENTS, DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITIES HAVE CEASED (TEMPORARILY OR PERMANENTLY) SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITY RESUMES WITHIN 21 DAYS. SEEDING DOES NOT CONSTITUTE AS STABILIZATION.
5. AFTER MASS GRADING IS COMPLETED, CONTRACTOR TO LOOSEN TOP 6" OF SOIL WITHIN ALL VEGETATED FILTER STRIP AREAS PRIOR TO PLACING THE 4" TOPSOIL LAYER.
6. CONTRACTOR TO PLAN BUFFALO GRASSES OR OTHER APPROVED NATIVE GRASS IN VEGETATED FILTER STRIP AREAS.

NORTH

0 10 20
SCALE IN FEET

100% SUBMITTAL

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

STATE OF TEXAS
MICHAEL LAFFERTY
118708
LICENSED PROFESSIONAL ENGINEER
2024-08-06

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San Marcos, Texas 78666
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PHASE 1
CIVIL
HOFFMANN PUMP STATION
SITE LAYOUT

NO.	ISSUE	BY	DATE
1	RCP-1	ML	8/6/2024

F&N JOB NO. NBU23436
DATE 2/2/2024
DESIGNED MSL
DRAWN EWL
CHECKED
APPROVED MSL
FILE NAME WTU-PROP-SITE-HOFFMANN-PS.dwg

Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.
VERIFY SCALE 0 1

SHEET C-6
SEQ.

ACAD Rel: 24.2s (LMS Tech)
Filename: N:\WTU\Drawings\WTU-PROP-SITE-HOFFMANN-PS.dwg
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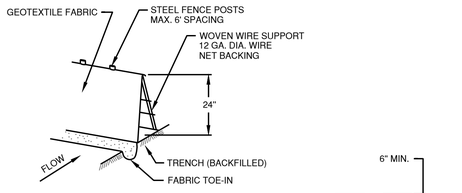
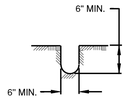


STANDARD SYMBOL
FOR SILT FENCE (SF)

SF
L=

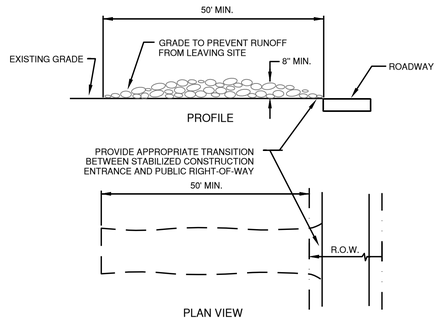


TRENCH CROSS SECTION

NOTES:

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF 1".
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CAN NOT BE TRENCHED INTO THE SURFACE (E.G. PAVEMENT), THE FABRIC FLAP SHALL BE WEIGHTED DOWN WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 inches DEEP AND 6 inches WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POST.
5. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 inches. THE SILT SHALL BE DISPOSED OF ON AN APPROVED SITE AND IN SUCH A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.

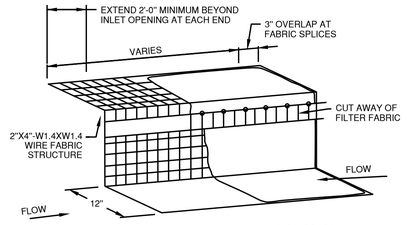
1 E&S-1 **SILT FENCE**
NOT TO SCALE

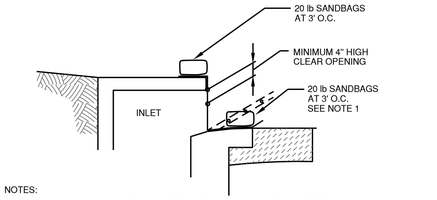


NOTES:

1. STONE SIZE: 3"-5" OPEN GRADED ROCK.
2. LENGTH: AS EFFECTIVE BUT NOT LESS THAN 50'.
3. THICKNESS: NOT LESS THAN 8".
4. WIDTH: 20'
5. WASHING: WHEN NECESSARY, VEHICLE WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE AND DRAINS INTO AN APPROVED TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.
6. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AS WELL AS REPAIR AND CLEAN OUT OF ANY MEASURE DEVICES USED TO TRAP SEDIMENT. ALL SEDIMENTS THAT IS SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAY MUST BE REMOVED IMMEDIATELY.
7. DRAINAGE: ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

2 E&S-1 **STABILIZED CONSTRUCTION ENTRANCE**
NOT TO SCALE





NOTES:

1. WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1" X 4" BOARD SECURED WITH CONCRETE NAILS 3' O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
2. A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
3. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
4. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVER-TOP THE CURB.
5. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

3 E&S-1 **INLET PROTECTION**
NOT TO SCALE

100% SUBMITTAL

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

STATE OF TEXAS
MICHAEL LAFFERTY
118708
LICENSED
PROFESSIONAL ENGINEER
07-17-2024

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Phone - (512) 233-3200
Web - www.freese.com

NEW BRAUNFELS UTILITIES

EMERGENCY PREPAREDNESS PLAN GENERATORS PHASE 1

EROSION CONTROL DETAILS

EROSION CONTROL DETAILS

NO.	ISSUE	BY	DATE

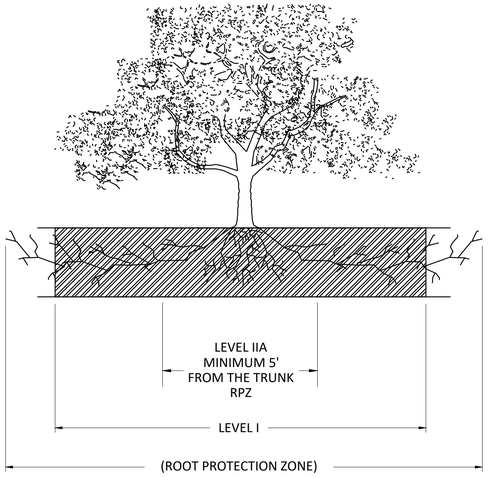
F&N JOB NO. NBU23436
DATE 2/2/2024
DESIGNED MSL
DRAWN EWL
CHECKED
APPROVED MSL
FILE NAME WTU-DT-E&S1.dwg

VERIFY SCALE Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.
0 1

SHEET E&S-1
SEQ.

ACAD Rel: 24.2s (LMS Tech)
Filename: N:\WTU\Drawings\WTU-DT-E&S1.dwg
Last Saved: 3/20/2024 7:36 AM Saved By: 07155

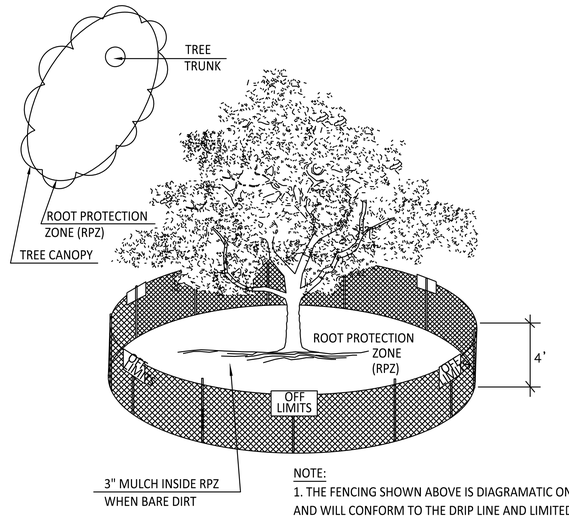
Plot Date: 7/17/2024 4:08 PM Plot By: 08688 Filename: N:\WTU\Drawings\WTU-DT-E&S1.dwg



ROOT PROTECTION ZONE-THE ROOT PROTECTION ZONE IS A CIRCULAR AREA AROUND A TREE THAT IS BASED ON THE DIAMETER OF THE TREE. EACH 1 INCH DIAMETER OF THE TREE EQUALS 1 FOOT RADIUS FOR ROOT PROTECTION ZONE.

1 E&S-2 ELEVATION

N.T.S.

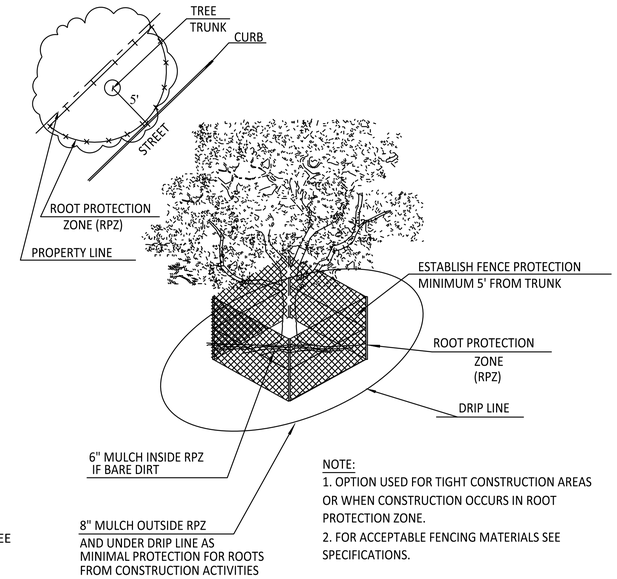


NOTE:

1. THE FENCING SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND LIMITED TO PROJECT BOUNDARY.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.
3. LEVEL I FENCE PROTECTION MUST BE USED IN ALL TREE PROTECTION AREA UNLESS THEY ARE TIGHT AREAS.

2 E&S-2 LEVEL I FENCE PROTECTION

N.T.S.

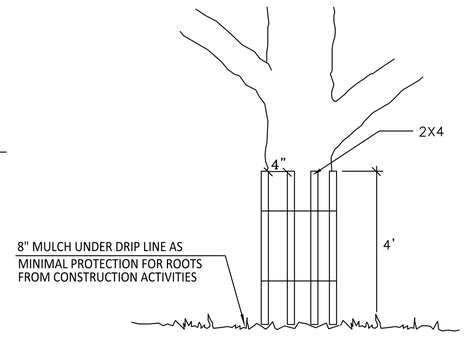


NOTE:

1. OPTION USED FOR TIGHT CONSTRUCTION AREAS OR WHEN CONSTRUCTION OCCURS IN ROOT PROTECTION ZONE.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

3 E&S-2 LEVEL II A FENCE PROTECTION

N.T.S.



NOTE:

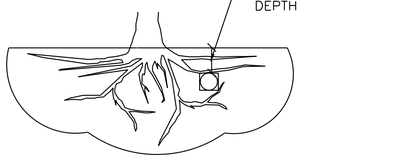
WRAP TREE TRUNK WITH 2"X4" STUDS AND ROPE OR BAND IN PLACE AS NEEDED TO PROTECT TREES IN WORK AREAS.

4 E&S-2 LEVEL II B FENCE POTECTION

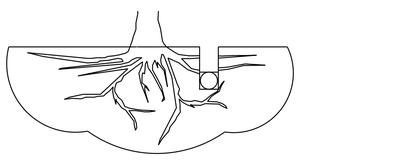
N.T.S.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS TROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.



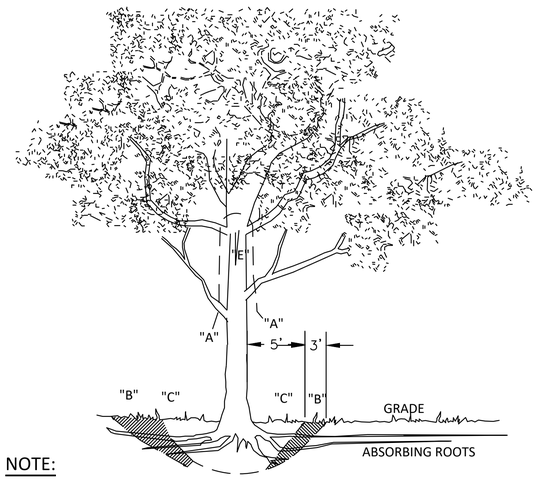
TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

5 E&S-2 BORING THRU TREE ROOT ZONE

N.T.S.



NOTE:

A" REMOVE BULKY TREE PARTS "SHRED" AND/OR HAUL SEPARATELY.

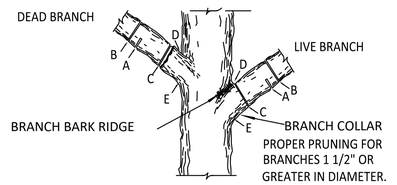
"B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK - CUT THRU ANCHOR ROOTS AT AN ANGLE - 3' TO 4' DEEP

"C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.)

"D" BACKFILL HOLE AND CLEAN UP.

6 E&S-2 TREE REMOVAL DIAGRAM

N.T.S.



NOTE: DO NOT CUT FROM D to E.

A. FIRST CUT - TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCH.
C. FINAL CUT - ALLOW FOR HEALING COLLAR BUT NO STUBS
D. BRANCH RIDGES - INDENT PROPERLY BRANCH RIDGES WHICH ARE SITE FOR DECAY.

FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.

7 E&S-2 BRANCH PRUNING DETAIL

N.T.S.

NOTES:

1. PROTECT ALL TREES WITH DIAMETERS GREATER THAN 8 INCHES WITH TEMPORARY CONSTRUCTION EASEMENT. ALL TREES WITHIN PERMANENT CONSTRUCTION EASEMENT MAY BE REMOVED AS NEEDED UNLESS OTHERWISE NOTED.
2. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT BEEN COMPLETED.
3. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
4. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN THREE INCHES IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE INSPECTOR.
5. THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS 1 FOOT PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A 10-INCH DIAMETER TREE WOULD HAVE A 5-FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. LIVE OAK WOUNDS SHALL BE PAINTED OVER, WITHIN 20 MINUTES TO PREVENT OAK WILT.
6. ACCESS TO FENCED AREAS WILL BE PERMITTED ONLY WITH THE APPROVAL OF THE ENGINEER OR CITY INSPECTOR.
7. GRADING, IF REQUIRED, SHALL BE LIMITED TO A 3 INCH CUT OR FILL WITHIN THE FENCED ROOT ZONE AREAS.
8. TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND AS DIRECTED BY THE PROJECT MANAGER OR INSPECTOR.
9. TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE ENGINEER'S SATISFACTION.
10. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.

100% SUBMITTAL

Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144

STATE OF TEXAS
MICHAEL LAFFERTY
118708
LICENSED
PROFESSIONAL ENGINEER
2024-07-17

FREESE NICHOLS
1251 Sadler Drive, Building 1
Suite 1150
San Marcos, Texas 78666
Phone - (512) 233-3200
Web - www.freese.com

NEW BRAUNFELS UTILITIES
EMERGENCY PREPAREDNESS PLAN GENERATORS
PHASE 1
EROSION CONTROL DETAILS
TREE PROTECTION DETAILS

NO.	ISSUE	BY	DATE

F&N JOB NO. NBU23436
DATE 2/2/2024
DESIGNED MSL
DRAWN EWL
CHECKED
APPROVED MSL
FILE NAME WTU-DT-E&S2.dwg

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SEQ.

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Plot Date: 7/17/2024 4:09 PM Plot By: 08688 Filename: N:\WTU\Drawings\WTU-DT-E&S2.dwg

Attachment G

Inspection, Maintenance, Repair and Retrofit Plan

The following are inspection, maintenance, repair and retrofit guidelines for the selected permanent BMPs as stated in TCEQ RG-348:

Vegetative Filter Strips and Grassy Swales:

(1) Inspections should be made at least twice annually for erosion or damage to vegetation, checking the strips for uniformity of grass cover, debris and litter, and areas of sediment accumulation.

(2) Trash and excess sediment accumulated on the strips should be removed during inspections.

(3) Bare spots and areas of erosion found during inspections should be replanted and restored.

(4) The vegetative filter strips should be mowed a minimum of twice annually if planted with native grasses.

Inspection Reports:

Completed inspection reports will include the following information:

- scope of the inspection,
- name(s) of personnel making the inspection,
- reference to qualifications of inspection personnel,
- date of the inspection,
- observed major construction activities, and
- actions taken as a result of the inspection.

The inspection report should state inspection report should state whether the site was in compliance or identify any incidents of non-compliance.

Final stabilization of the construction site has been achieved when all soil disturbing activities at the site have been completed, and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by

- actions taken as a result of the inspection.

The inspection report should state inspection report should state whether the site was in compliance or identify any incidents of non-compliance.

Final stabilization of the construction site has been achieved when all soil disturbing activities at the site have been completed, and a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures. If a vegetative cover cannot be established, equivalent permanent stabilization measures (such as riprap, gabions, or geotextiles) can be employed. When these conditions have been met, temporary BMPs can be removed from the construction area.

Owner & Responsible Party for Maintenance:	New Braunfels Utilities
Address:	355 FM 306
City, State, Zip:	New Braunfels, Texas 78130
Telephone Number:	(830) 608-8970

Signature of Responsible Party: _____ Date: 8/1/24

Attachment I

Measures for Minimizing Surface Stream Contamination

There are no surface streams observed on the project site or in the adjacent surrounding areas. Therefore, no measures are necessary for minimizing surface stream contamination and changes in the way in which water enters a stream as a result of the construction and development.

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

I Adam Willard, P.E.,
Print Name

Chief Engineer of Water Systems,
Title - Owner/President/Other

of New Braunfels Utilities,
Corporation/Partnership/Entity Name

have authorized Tam Tran
Print Name of Agent/Engineer

of Freese and Nichols, Inc.
Print Name of Firm

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

I also understand that:

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

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

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

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

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

SIGNATURE PAGE:

Applicant's Signature

8/1/24
Date

THE STATE OF Texas §

County of Comal §

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

GIVEN under my hand and seal of office on this 1st day of August, 2024.

NOTARY PUBLIC

ALBY L. MARTINEAR
Typed or Printed Name of Notary

ALBY L. MARTINEAR
Notary Public, State of Texas
Comm. Expires 06-26-2028
Notary ID 132525882

MY COMMISSION EXPIRES: 6/26/2028

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Hoffmann Pump Station
Regulated Entity Location: New Braunfels, Texas
Name of Customer: New Brunfels Utilities
Contact Person: Tam Tran Phone: (512)381-1830
Customer Reference Number (if issued):CN 600522957
Regulated Entity Reference Number (if issued):RN 101281202
Austin Regional Office (3373)

☐ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☒ Comal ☐ Kinney

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

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

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

Site Location (Check All That Apply):

☒ Recharge Zone ☐ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	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	1 Each	$ 500
Extension of Time	Each	$

Signature: _____

Date: 07/31/2024

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

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

TCEQ Use Only

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.*)

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

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

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600522957		**RN**

SECTION II: Customer Information

4. General Customer Information | **5. Effective Date for Customer Information Updates** (mm/dd/yyyy)

☐ New Customer ☐ Update to Customer Information ☒ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

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

New Braunfels Utilities

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:
☐ Corporation ☐ Individual Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☒ Other: Utility

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

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

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

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:

305 FM 306

City	New Braunfels	**State**	TX	**ZIP**	78130	**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)*

(830) 629-8400		( ) -

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

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

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

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

Hoffmann Pump Station

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	4600 FM 306							
	City	Canyon Lake	**State**	TX	**ZIP**	78132	**ZIP + 4**	
24. County								

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

25. Description to Physical Location:	Located near the intersection of FM 306 and Hoffmann Lane in Canyon Lake. The facility is located behind Hoffmann Lane Elementary School.

26. Nearest City	**State**	**Nearest ZIP Code**
Canyon Lake	TX	78132

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).

27. Latitude (N) In Decimal:	29.79203		**28. Longitude (W) In Decimal:**	-98.10259	
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)
4941			

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

Water supply

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.

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

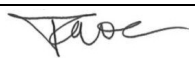
SECTION IV: Preparer Information

40. Name:	Tam Tran	**41. Title:**	Environmental Scientist

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 381-1830		**( )** -	Tam.Tran@freese.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	Freese and Nichols, Inc.	**Job Title:**	Environmental Scientist
Name *(In Print):*	Tam Tran	**Phone:**	**(** 512 **)** 381- **1830**
Signature:		**Date:**	8/21/2024