

**RECHARGE ZONE EXCEPTION REQUEST
FOR
CPS GREEN MOUNTAIN SUBSTATION**

May 5, 2023

MBC Job. No. 33384/1877

PREPARED BY:



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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: CPS Green Mountain Substation | | | | | 2. Regulated Entity No.: 102768264 | | | | |
| 3. Customer Name: City Public Service of San Antonio | | | | | 4. Customer No.: 600129019 | | | | |
| 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): | | 3.399 | | |
| 9. Application Fee: | \$500.00 | | 10. Permanent BMP(s): | | | | | | |
| 11. SCS (Linear Ft.): | | | 12. AST/UST (No. Tanks): | | | | | | |
| 13. County: | Comal | | 14. Watershed: | | | Cibolo Creek | | | |

Application Distribution

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

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

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

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

| San Antonio Region | | | | | |
|--------------------------------------|--|--|---------------------------------|---|---|
| County: | Bexar | Comal | Kinney | Medina | Uvalde |
| Original (1 req.) | — | <u>X</u> | — | — | — |
| Region (1 req.) | <u>X</u> | <u>X</u> | — | — | — |
| County(ies) | <u>X</u> | <u>X</u> | — | — | — |
| Groundwater Conservation District(s) | <input checked="" type="checkbox"/> Edwards Aquifer Authority <input type="checkbox"/> Trinity-Glen Rose | <input checked="" type="checkbox"/> Edwards Aquifer Authority | <input type="checkbox"/> Kinney | <input type="checkbox"/> EAA <input type="checkbox"/> Medina | <input type="checkbox"/> EAA <input type="checkbox"/> Uvalde |
| City(ies) Jurisdiction | <input type="checkbox"/> Castle Hills <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Helotes <input type="checkbox"/> Hill Country Village <input type="checkbox"/> Hollywood Park <input checked="" type="checkbox"/> San Antonio (SAWS) <input type="checkbox"/> Shavano Park | <input type="checkbox"/> Bulverde <input type="checkbox"/> Fair Oaks Ranch <input type="checkbox"/> Garden Ridge <input type="checkbox"/> New Braunfels <input type="checkbox"/> Schertz | NA | <input type="checkbox"/> 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. | |
| Richard W. Hendrix | |
| Print Name of Customer/Authorized Agent | |
| <i>R. W. Hendrix</i> | <i>5/25/2023</i> |
| 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 (TCEQ-0587)**

Attachment A - Road Map

Attachment B - USGS / Edwards Recharge Zone Map

Attachment C - Project Description

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: Richard W. Hendrix

Date: 5/25/2023

Signature of Customer/Agent:



Project Information

1. Regulated Entity Name: CPS Green Mountain Substation

2. County: Comal

3. Stream Basin: Cibolo Creek

4. Groundwater Conservation District (If applicable): N/A

5. Edwards Aquifer Zone:

Recharge Zone

Transition Zone

6. Plan Type:

WPAP

SCS

Modification

AST

UST

Exception Request

7. Customer (Applicant):

Contact Person: Scott Lyssy

Entity: CPS Energy

Mailing Address: PO Box 1771

City, State: San Antonio, Texas

Telephone: (210) 305-0397

Email Address: sdlyssy@cpsenergy.com

Zip: 78296

FAX: _____

8. Agent/Representative (If any):

Contact Person: Richard W. Hendrix, P.E.

Entity: MBC Engineers

Mailing Address: 1035 Central Parkway North

City, State: San Antonio, Texas

Telephone: (210) 545-1122

Email Address: rhendrix@mbcengineers.com

Zip: 78232

FAX: (210) 545-9302

9. Project Location:

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

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

The site is located at 19365 Marbach Lane on the SW side of Marbach Lane, NW of FM 2252

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: Upon request

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: Electric bulk power transmission and control substation

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:

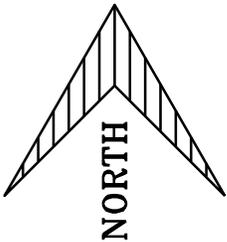
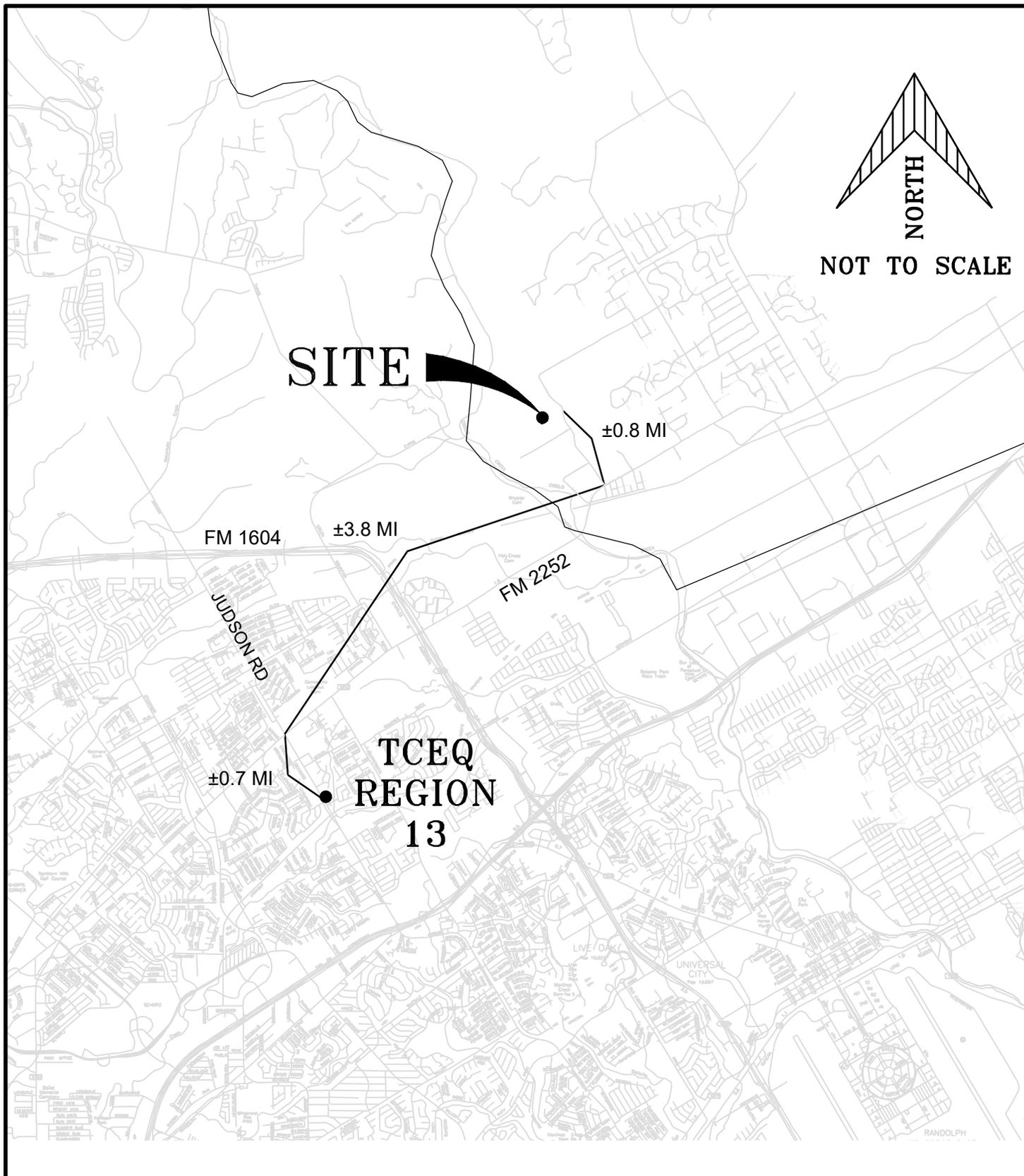
- For a Water Pollution Abatement Plan or Modification, the total acreage of the site where regulated activities will occur.
- For an Organized Sewage Collection System Plan or Modification, the total linear footage of all collection system lines.
- For a UST Facility Plan or Modification or an AST Facility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



NOT TO SCALE

SITE

±0.8 MI

FM 1604

±3.8 MI

FM 2252

JUDSON RD

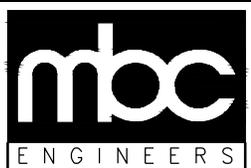
±0.7 MI

TCEQ
REGION
13

LIVE OAK

UNIVERSAL CITY

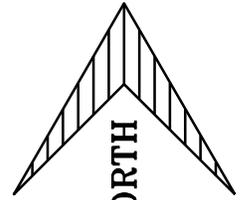
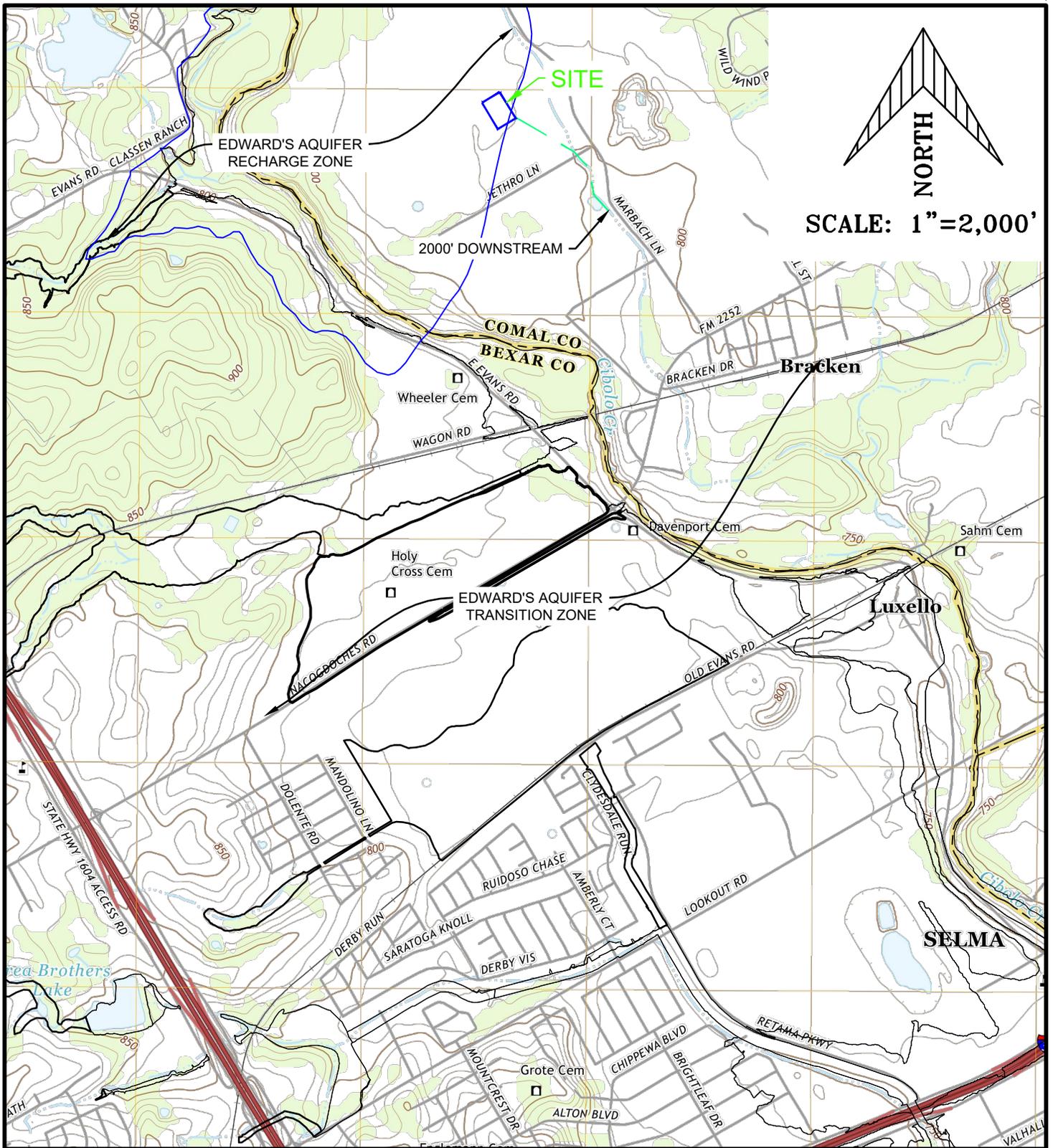
RANDOLPH



1035 Central Parkway North
San Antonio, Texas 78232
(210) 545-1122 FAX (210) 545-9302
TEXAS REGISTERED ENGINEERING FIRM F-784

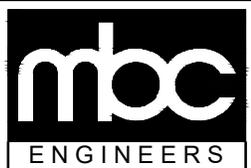
CPS GREEN MOUNTAIN
SUBSTATION
GARDEN RIDGE, TEXAS
ROAD MAP

| | |
|--------------|------------|
| DESIGN | RH |
| DRAWN | RH |
| CHECKED | RH |
| DATE | MAY 2023 |
| JOB NO. | 33384-1877 |
| ATTACHMENT A | |



SCALE: 1"=2,000'

USGS QUAD: SCHERTZ



1035 Central Parkway North
 San Antonio, Texas 78232
 (210) 545-1122 FAX (210) 545-9302
 TEXAS REGISTERED ENGINEERING FIRM F-784

**GREEN MOUNTAIN
 MARBACH LANE
 GARDEN RIDGE, TEXAS
 USGS EXHIBIT**

| | |
|-------------|------------|
| DESIGN | RH |
| DRAWN | RH |
| CHECKED | DLA |
| DATE | MAY 2023 |
| JOB NO. | 33384/1877 |
| EXHIBIT - C | |

FORM 0587 ATTACHMENT

ATTACHMENT “C” - Project Description

The Green Mountain CPS Substation is a 3.399 acre developed tract that is used as an electric bulk power transmission and control substation. The 3.399 acre tract is located at 19365 Marbach Lane in the City of San Antonio Extra Territorial Jurisdiction (ETJ).

The proposed project consists of the addition of (4) 4' diameter piers, (4) 2.5' diameter piers and (1) 8'x10' slab. The piers will be 10-15' deep and the slab will be approximately 2' deep. It will also include the addition of oil containing transformers, (3) voltage transformers (VTs) that contain of 33 gallons of oil and (3) current transformers (CTs) with 13 gallons each. It will also involve demolition of existing asphalt paving, BMP construction, asphalt and concrete paving. Approximately 0.50 acres will be disturbed during the construction of substation improvements. Of the 0.50 acres that are disturbed during the construction all of the area is existing impervious cover.

The existing impervious cover for this 3.399 acre drainage area is approximately 91.64% (3.115 acres). Since the proposed improvements will be constructed on existing impervious cover, there will be no increase in impervious cover through the construction of the piers and slab.

Temporary erosion control and sedimentation controls (silt fence and stabilized construction entrance) shall be installed prior to initiation of any other regulated activity.

No measures are proposed to prevent pollution of storm water originating on-site or up-gradient from the project site and potentially flowing across and off the site after construction.

– **Geologic Assessment Form (TCEQ-0585)**

Attachment A - Geologic Assessment Table (TCEQ-0585-Table)

Comments to the Geologic Assessment Table

Attachment B – Soil Profile and Narrative of Soil Units

Attachment C - Stratigraphic Column

Attachment d – Narrative of Site Specific Geology

Site Geologic Map(s)

Table or list for the position of the features' latitude/longitude (if mapped using GPS)

**GEOLOGIC ASSESSMENT (WPAP EXCEPTION)
GREEN MOUNTAIN SUBSTATION
RN102768264
NEW TRANSFORMER FOUNDATIONS**

Prepared for



CPS ENERGY

500 McCullough, Mail Drop RT0601
San Antonio, Texas 78215

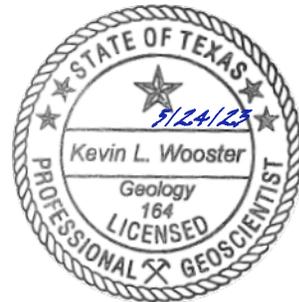
Prepared by

WESTON SOLUTIONS, INC.

70 North East Loop 410
Suite 200
San Antonio, Texas 78216-5842
210-308-4300 • Fax 210-308-4329

May 2023

W.O. No. 10690.020.004.0002



Kevin L. Wooster

P.G. No. 164, TBPG Firm No. 50258





Weston Solutions, Inc.
70 NE Loop 410, Ste. 200
San Antonio, TX 78216
210-308-4300
WestonSolutions.com



24 May 2023

Ms. Emily Speed
Environmental Analyst
Water Quality and Sustainability
CPS Energy
500 McCullough Avenue, Mail Drop RT0601
San Antonio, Texas 78215

Via E-Mail: elspeed@cpsenergy.com

**Re: Geologic Assessment (WPAP Exception)
Green Mountain Substation (RN102768264)
New Transformer Foundations
19365 Marbach Lane
Garden Ridge, Texas 78266**

Dear Ms. Speed:

Weston Solutions, Inc. (WESTON®) completed the enclosed Geologic Assessment (GA) prepared for the above referenced project pursuant to 30 Texas Administrative Code (TAC) §213.5(b)(3), effective June 1, 1999. The GA was performed in accordance with the Texas Commission on Environmental Quality (TCEQ) *Instructions to Geologists*, TCEQ-0585-Instructions (Rev. 10-1-04).

Thank you for the opportunity to assist CPS Energy on this project. Please contact me at 210-308-4371 with questions or comments you might have regarding this report.

Sincerely,

WESTON SOLUTIONS, INC.

Kevin L. Wooster, P.G.
Senior Project Geoscientist

Trust. Performance. People.

Act with Integrity • Live Safely • Advance Client Success • Deliver Exceptional Quality • Be Inclusive • Create a Better World; Be the Change

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GEOLOGIC ASSESSMENT FORM TCEQ-0585 (Rev.02-11-15)

STRATIGRAPHIC COLUMN

GEOLOGIC ASSESSMENT TABLE

LIST OF FIGURES

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| Figure 5 | Edwards Aquifer Recharge Zone Map |
| Figure 6 | Flood Insurance Rate Map |
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1. PURPOSE AND SCOPE OF SERVICES

CPS Energy (CPS) engaged Weston Solutions, Inc. (WESTON®) to conduct a Geologic Assessment (GA) at the existing Green Mountain Substation (Site). This is part of a Request for Exception to Aboveground Storage Tank (AST) and Water Pollution Abatement Plan (WPAP) for Facility Construction Plans and Specifications; pursuant to 30 Texas Administrative Code (TAC), to §313.4, §313.11, and §313.12; Edwards Aquifer Protection Program (EAPP). We understand the Site was originally grandfathered with respect to the EAPP prior to 1997, and there is no existing GA for the site.

1.1 PROJECT DESCRIPTION

The proposed project consists of new transformer foundations that will include piers and trench installations. The project will consist of the addition of four 4-foot diameter piers, four 2.5-foot diameter piers, and one 8-foot by 10-foot concrete slab. The piers will be 10 to 15 feet deep, and the slab will be approximately 2 feet deep. It will also include the addition of oil containing transformers: three voltage transformers (VTs) that contain 33 gallons of oil and three current transformers (CTs) with 13 gallons each.

1.2 LOCATION

The Site is located at 19365 Marbach Lane in Garden Ridge, Texas. The Site is situated on a 3.4-acre tract. The location and boundary of the site is shown on the attached Site Location Map (**Figure 1**).

2. GEOLOGIC ASSESSMENT

2.1 COMPONENTS OF REPORT

In accordance with the Texas Commission on Environmental Quality (TCEQ) *Instructions to Geologists*, the attached GA form includes the following attachments or documentation:

- Narrative description of site geology
- Soils description
- GA Form TCEQ-0585, (Rev. 2-11-15)
- Stratigraphic column
- Geologic assessment table
- Site geologic map

The GA Form TCEQ-0585, (Rev. 2-11-15), Stratigraphic Column, and the GA Table have been completed for the Site and are attached.

2.2 REVIEW OF EXISTING INFORMATION

A desktop review was performed of available information, including:

- U.S. Department of Agriculture (USDA) Soil Survey of Bexar County, Texas (web-based viewer).
- U.S. Geological Survey (USGS) 7.5 Minute Quadrangle Maps (1992).
- Edwards Aquifer Recharge Zone (EARZ) Maps (web-based viewer).
- Geologic Atlas of Texas, San Antonio Sheet.
- USGS, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366 (web-based viewer).
- Flood Insurance Rate Maps (FIRM) from the Federal Emergency Management Agency (FEMA).

3. DESCRIPTION OF STUDY AREA

3.1 SOILS

The Site is located in southwest Garden Ridge, Texas. According to the National Resource Conservation Service Web Soil Survey (USDA, 2023), the soils observed to surround the site

consist of Lewisville silty clay, with 0 to 1 percent (%) slopes. These mapped soils consist of very deep, well drained, moderately permeable soils that formed in ancient loamy and clayey calcareous sediments. The entire Site is covered by fill and asphalt impervious cover, with no soils exposed. A copy of the Web Soil Survey Map with a superimposed site boundary is attached as **Figure 2**.

3.2 TOPOGRAPHY

According to the USGS 7.5 Minute Quadrangle Map, Schertz, Texas Quadrangle Map (1992), the elevation across the Site ranges from approximately 810 to 820 feet. Sheet flow runoff from the substation flows to the east into a manmade concrete lined detention basin, designed to contain fluids from the substation. The topographic map shows the Site prior to development as a pasture or undeveloped tract. A copy of the portion of the Schertz Quadrangle Map with a superimposed Site boundary is attached as **Figure 3**.

3.3 GEOLOGY

According to the Geologic Atlas of Texas San Antonio Sheet, Bureau of Economic Geology (BEG), the outcropping geologic formation at the Site is the Edwards Person formation (BEG, 1992). According to the Geologic Map of the EARZ, South-Central Texas, the outcropping geologic formation at the Site is the Edwards Person Cyclic and Marine member (Kpcm), which consists of chert-bearing mudstone to packstone and miliolid grainstone (Blome, et al, 2005). This formation is known to have a thickness of up to 100 feet. A copy of the Geologic Map of the EARZ with a superimposed Site boundary is attached as **Figure 4**.

3.4 RECHARGE/TRANSITION ZONE

According to the Edwards Aquifer Viewer, the Site is located on the EARZ, just west of the boundary between the EARZ and Edwards Aquifer Transition Zone. A copy of the Site Geologic Map of the EARZ with a superimposed Site boundary is attached as **Figure 5**.

3.5 FLOOD PRONE AREAS

According to FEMA FIRMs for Comal County Unincorporated Areas, Texas (Community Panel Number 48091C0480F, dated 2 September 2009, the project site is in “Zone X,” which

represents mapped areas of minimal flood hazard. A copy of the FIRMette with a superimposed site boundary is attached as **Figure 6**.

4. SURVEY METHODOLOGY

4.1 FIELD PROCEDURES

After reviewing the available information, a field investigation was performed to identify any geologic or manmade potential recharge features, including faults. The project area was transected on foot and around the perimeter of the fenced-in substation, as recommended in the *Instructions to Geologists*, TCEQ-0585-Instructions (Rev. 10-1-04). The GA was performed on 17 April 2023 by Mr. Kevin L. Wooster, P.G., with WESTON. Mr. Wooster is a licensed Professional Geoscientist in the State of Texas (License Number 164).

4.2 SUMMARY OF FINDINGS

The entire Site is an existing substation with several feet of fill placed within a perimeter concrete footing and knee wall. The entire Site is covered with asphalt paved impervious cover, and drains to the northeast corner of the site to a concrete lined detention pond (feature S-1). This feature is a manmade closed depression; however, not in bedrock.

The Site Geologic Map, which shows the substation boundary, and the planned improvements is attached (**Figure 7**). No natural soils or geologic materials are present on the Site. No potential recharge features were identified on the Site. No obvious evidence of faults was observed.

5. RECOMMENDATIONS

If voids that could be potential recharge features are discovered during subsequent excavation activities, construction should be halted so that an evaluation can be made of the newly discovered feature(s).

6. REFERENCES

Barnes, V.E., 1983, Geologic Atlas of Texas, San Antonio Sheet: Bureau of Economic Geology.

Clark, A.K., Golab, J.A. and Morris, R.R., 2016, Geologic Framework and Hydrostratigraphy of the Edwards and Trinity Aquifers within Northern Bexar and Comal Counties, Texas, Science Investigations Map 3366, United States Geological Survey.

Federal Emergency Management Agency, Federal Insurance Administration, National Flood Insurance Program, Flood Insurance Map, Community Panel Number 48091C0220G dated September 29, 2010

Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas, Compiled by Charles D. Blome, Jason R. Faith, Diana E. Pedraza, George B. Ozuna, James C. Cole, Allan K. Clark, Ted A. Small, and Robert R. Morris, 2005.

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

TCEQ Edwards Aquifer Viewer – <https://tceq.maps.arcgis.com/apps/webappviewer/index.html>.

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

USDA (U.S. Department of Agriculture, National Resource Conservation Service) 2023. Web Soil Survey, accessed 10 May 2023. <https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx>

USGS (U.S. Geological Survey). 1992. 7.5-minute quadrangle map for Schertz. Texas. accessed 10 May 2023. <https://store.usgs.gov/product/98445>

Geologic Assessment

Texas Commission on Environmental Quality

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

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

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

Signature

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

Print Name of Geologist: Kevin L. Wooster,
PG No. 0164

Telephone: 210-308-4371

Fax: 210-308-4329

Date: 5/24/23

Representing: Weston Solutions, Inc., TBPG Firm No. 50258 (Name of Company and TBPG or TBPE registration number)

Signature of Geologist:



Regulated Entity Name: Green Mountain Substation RN102768264

Project Information

1. Date(s) Geologic Assessment was performed: 17 April 2023

2. Type of Project:

WPAP
 SCS

AST
 UST

3. Location of Project:

Recharge Zone
 Transition Zone
 Contributing Zone within the Transition Zone

4. **Attachment A - Geologic Assessment Table.** Completed Geologic Assessment Table (Form TCEQ-0585-Table) is attached.
5. Soil cover on the project site is summarized in the table below and uses the SCS Hydrologic Soil Groups* (Urban Hydrology for Small Watersheds, Technical Release No. 55, Appendix A, Soil Conservation Service, 1986). If there is more than one soil type on the project site, show each soil type on the site Geologic Map or a separate soils map.

Table 1 - Soil Units, Infiltration Characteristics and Thickness

| Soil Name | Group* | Thickness(feet) |
|-----------------------|--------|-----------------|
| Fill/asphalt | D | 2 |
| Lewisville silty Clay | B | 2 |
| | | |
| | | |
| | | |

* Soil Group Definitions (Abbreviated)

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

6. **Attachment B – Stratigraphic Column.** A stratigraphic column showing formations, members, and thicknesses is attached. The outcropping unit, if present, should be at the top of the stratigraphic column. Otherwise, the uppermost unit should be at the top of the stratigraphic column.
7. **Attachment C – Site Geology.** A narrative description of the site specific geology including any features identified in the Geologic Assessment Table, a discussion of the potential for fluid movement to the Edwards Aquifer, stratigraphy, structure(s), and karst characteristics is attached.
8. **Attachment D – Site Geologic Map(s).** The Site Geologic Map must be the same scale as the applicant's Site Plan. The minimum scale is 1": 400'
 Applicant's Site Plan Scale: 1" = 20'
 Site Geologic Map Scale: 1" = 20'
 Site Soils Map Scale (if more than 1 soil type): 1" = 100'
9. Method of collecting positional data:
 - Global Positioning System (GPS) technology.
 - Other method(s). Please describe method of data collection: GIS
10. The project site and boundaries are clearly shown and labeled on the Site Geologic Map.
11. Surface geologic units are shown and labeled on the Site Geologic Map.

12. Geologic or manmade features were discovered on the project site during the field investigation. They are shown and labeled on the Site Geologic Map and are described in the attached Geologic Assessment Table.
- Geologic or manmade features were not discovered on the project site during the field investigation.
13. The Recharge Zone boundary is shown and labeled, if appropriate.
14. All known wells (test holes, water, oil, unplugged, capped and/or abandoned, etc.): If applicable, the information must agree with Item No. 20 of the WPAP Application Section.
- There are _____ (#) wells present on the project site and the locations are shown and labeled. (Check all of the following that apply.)
- The wells are not in use and have been properly abandoned.
- The wells are not in use and will be properly abandoned.
- The wells are in use and comply with 16 TAC Chapter 76.
- There are no wells or test holes of any kind known to exist on the project site.

Administrative Information

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

STRATIGRAPHIC COLUMN

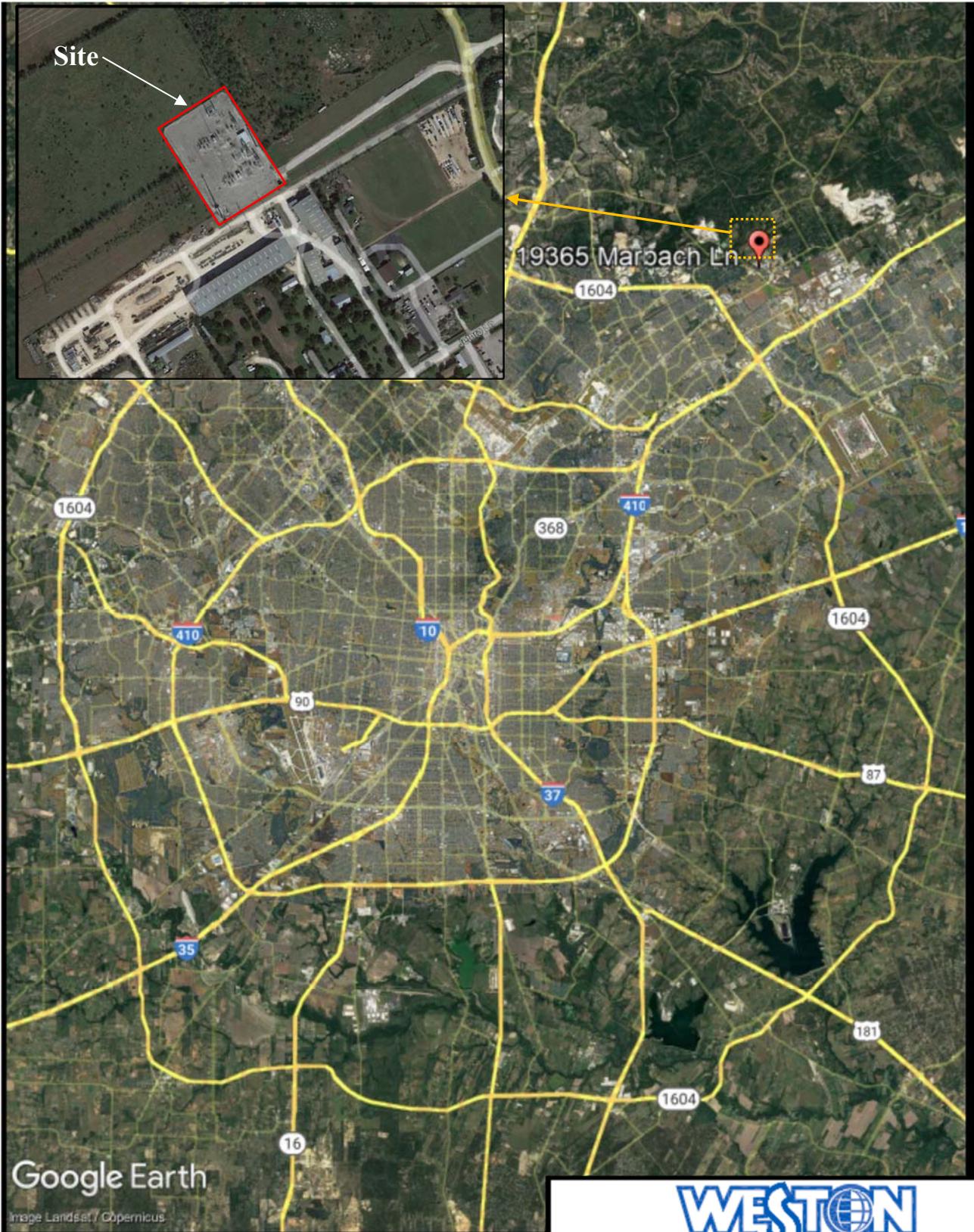
 Outcropping formation, covered with several feet of fill at the site.

Table 1. Summary of the lithologic and hydrologic properties of the hydrogeologic subdivisions of the Edwards aquifer outcrop, Bexar County, Texas

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

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

FIGURES



LEGEND



SITE LOCATION



FIGURE 1
SITE LOCATION MAP
 GREEN MOUNTAIN SUBSTATION
 CPS ENERGY
 19365 MARBACH LANE
 GARDEN RIDGE, TEXAS



LEGEND

LeA Lewisville silty clay



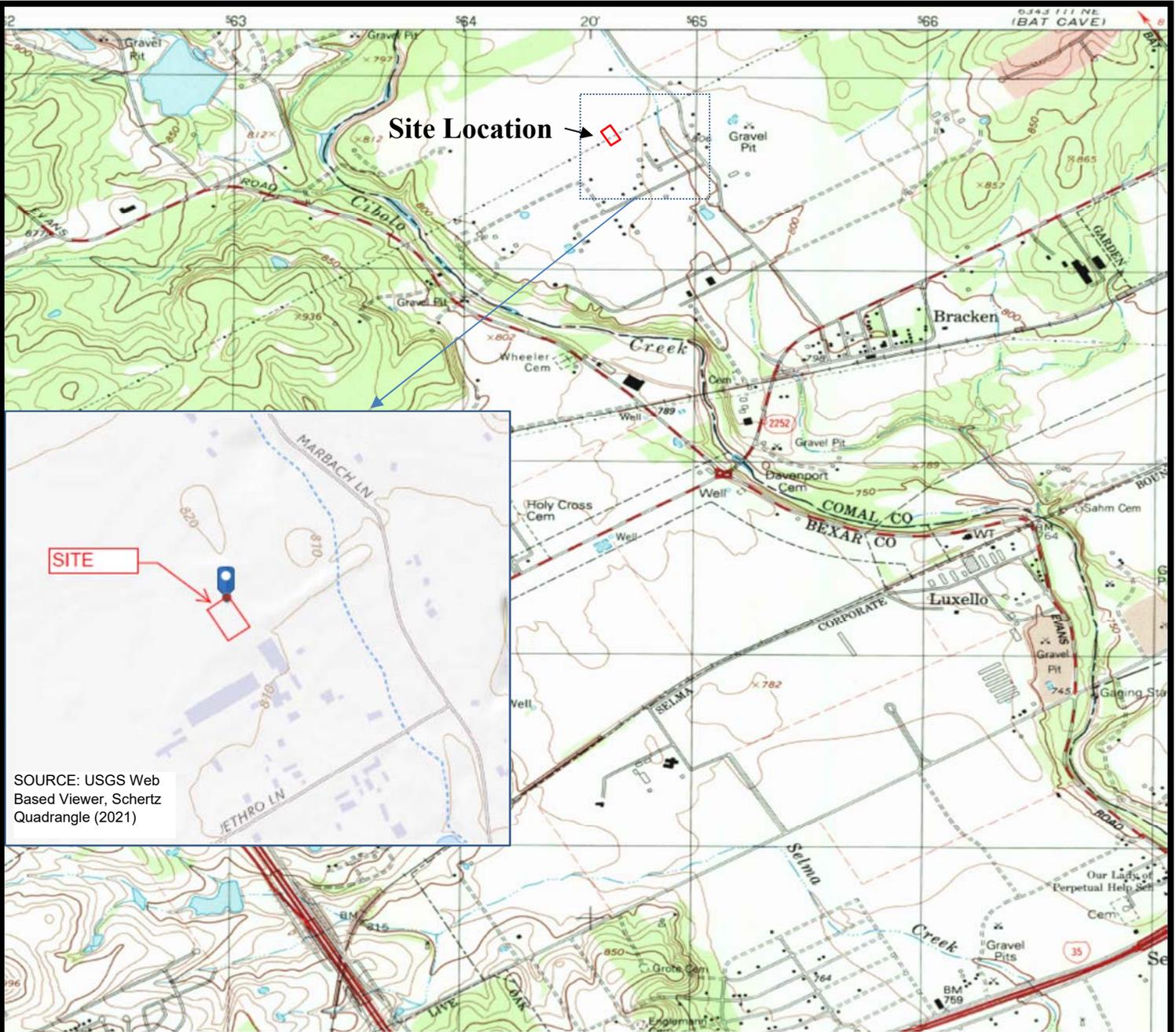
FIGURE 2
SOILS MAP
 GREEN MOUNTAIN SUBSTATION
 CPS ENERGY
 19365 MARBACH LANE
 GARDEN RIDGE, TEXAS

SOURCE: NRCS Website (2023)

DATE:
MAY 2023

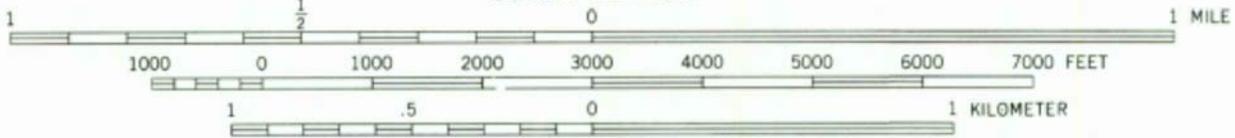
W.O. #
10690.020.004.0002

SCALE:
AS SHOWN



SOURCE: USGS Web Based Viewer, Schertz Quadrangle (2021)

SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



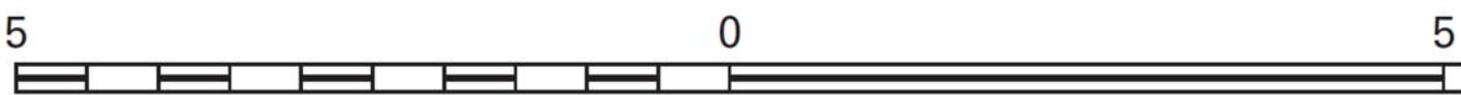
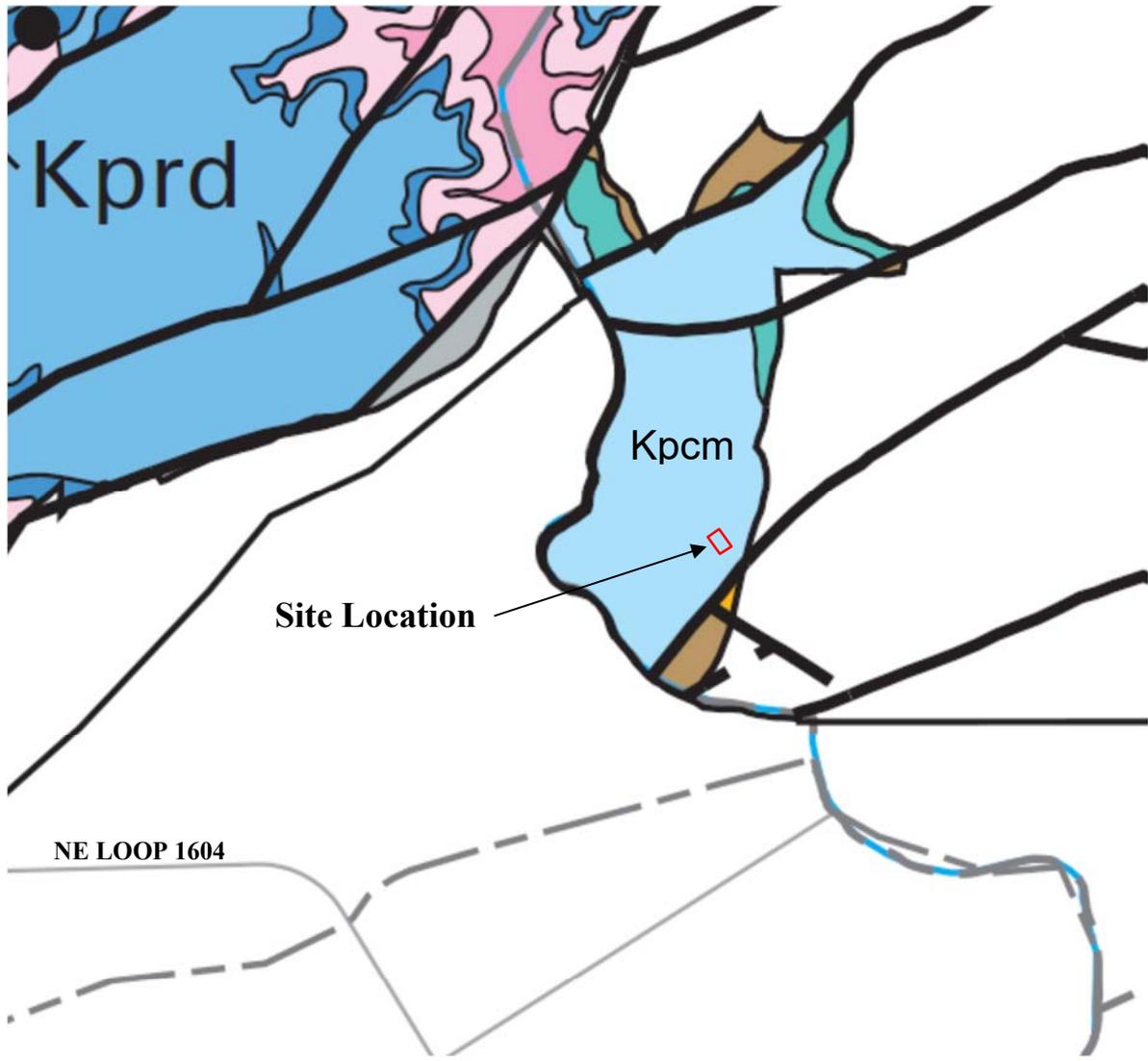
FIGURE 3
TOPOGRAPHIC MAP
GREEN MOUNTAIN SUBSTATION
CPS ENERGY
19365 MARBACH LANE
GARDEN RIDGE, TEXAS

SOURCE: USGS Schertz Quadrangle (1992)

DATE:
MAY 2023

W.O. #
10690.020.004.0002

SCALE:
AS SHOWN



CORRELATION OF MAP UNITS

MILES

- Kef Eagle Ford Group
- Kb Buda Limestone
- Kdr Del Rio Clay
- Kg Georgetown Formation
- Person Formation**
 - Kpcm Cyclic and marine member
 - Kplc Leached and collapsed member
 - Kprd Regional dense member
- Kainer Formation**
 - Kkg Grainstone member
 - Kkke Kirschberg evaporite member
 - Kkd Dolomitic member
 - Kkbn Basal nodular member

- Contact
- Fault—Dashed where inferred. U, upthrown side; D, downthrown side. Displacement amount in feet
- Geographic Information System polygon extent of county maps
- Cave or sink
- Spring



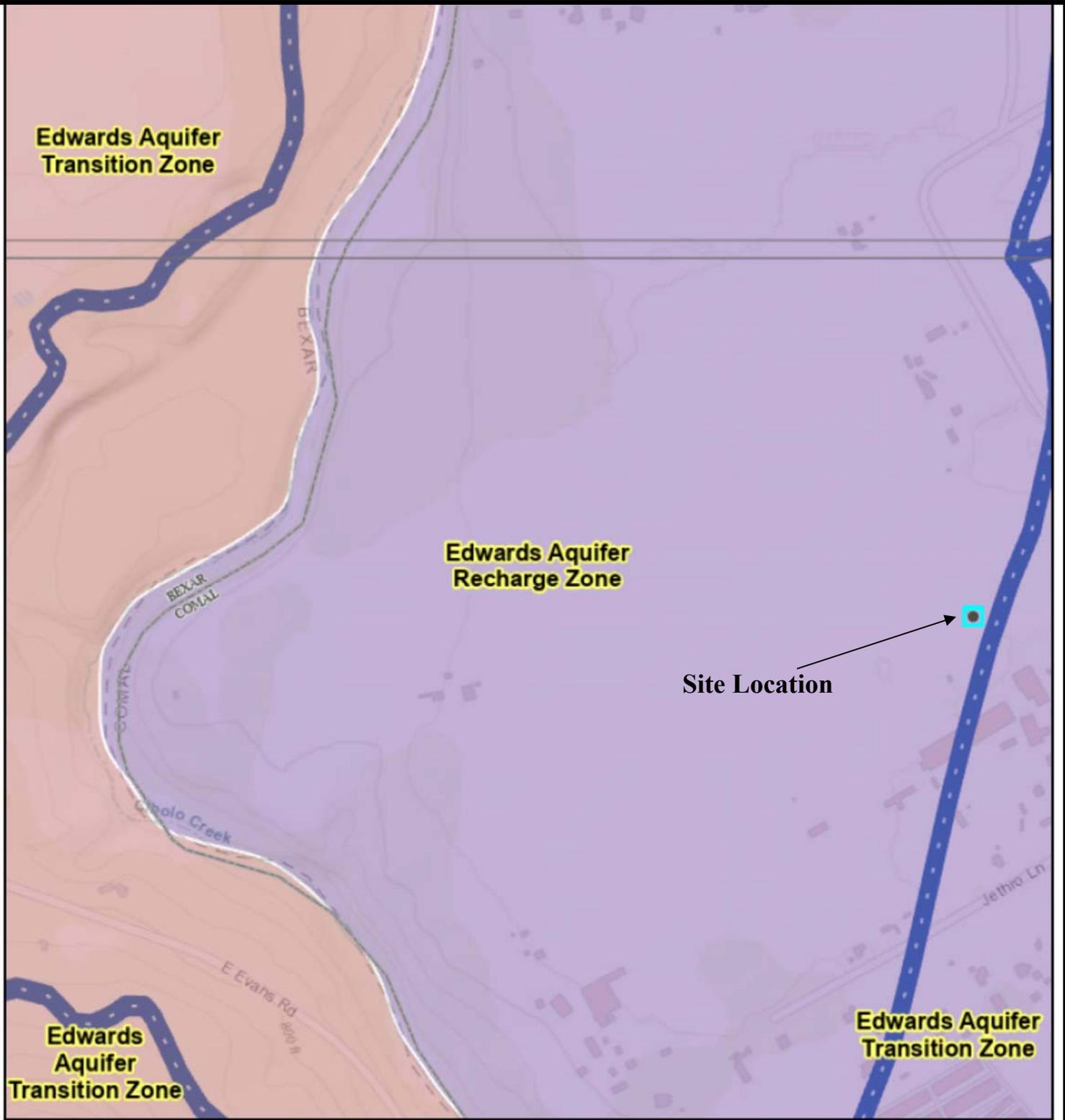
FIGURE 4
GEOLOGIC MAP OF EDWARDS AQUIFER RECHARGE ZONE
 GREEN MOUNTAIN SUBSTATION
 CPS ENERGY
 19365 MARBACH LANE
 GARDEN RIDGE, TEXAS

SOURCE: Geologic Map of the Edwards Aquifer Recharge Zone, South-Central Texas, Compiled by Charles D. Blome, Jason R. Faith, Diana E. Pedraza, George B. Ozuna, James C. Cole, Allan K. Clark, Ted A. Small, and Robert R. Morris, 2005.

DATE:
MAY 2023

W.O. #
10690.020.004.0002

SCALE:
AS SHOWN



- Edwards Aquifer Label
- Edwards Aquifer Boundary
- Edwards Aquifer Boundary central line
- Groundwater Conservation Districts
- Comal Trinity GCD
- Edwards Aquifer Authority
- Trinity Glen Rose GCD
- TX Counties
- 7.5 Minute Quad Grid
- TCEQ_EDWARDS_OFFICIAL_MAP

1:9,028

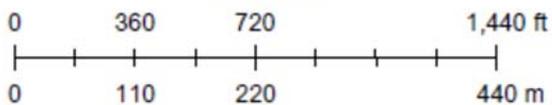


FIGURE 5

EDWARDS AQUIFER RECHARGE ZONE MAP
 GREEN MOUNTAIN SUBSTATION
 CPS ENERGY
 19365 MARBACH LANE
 GARDEN RIDGE, TEXAS

SOURCE: Texas Commission on Environmental Quality, Web based viewer, accessed 15 May 2023; <https://tceq.maps.arcgis.com/apps/webappviewer/index.html>

DATE:
MAY 2023

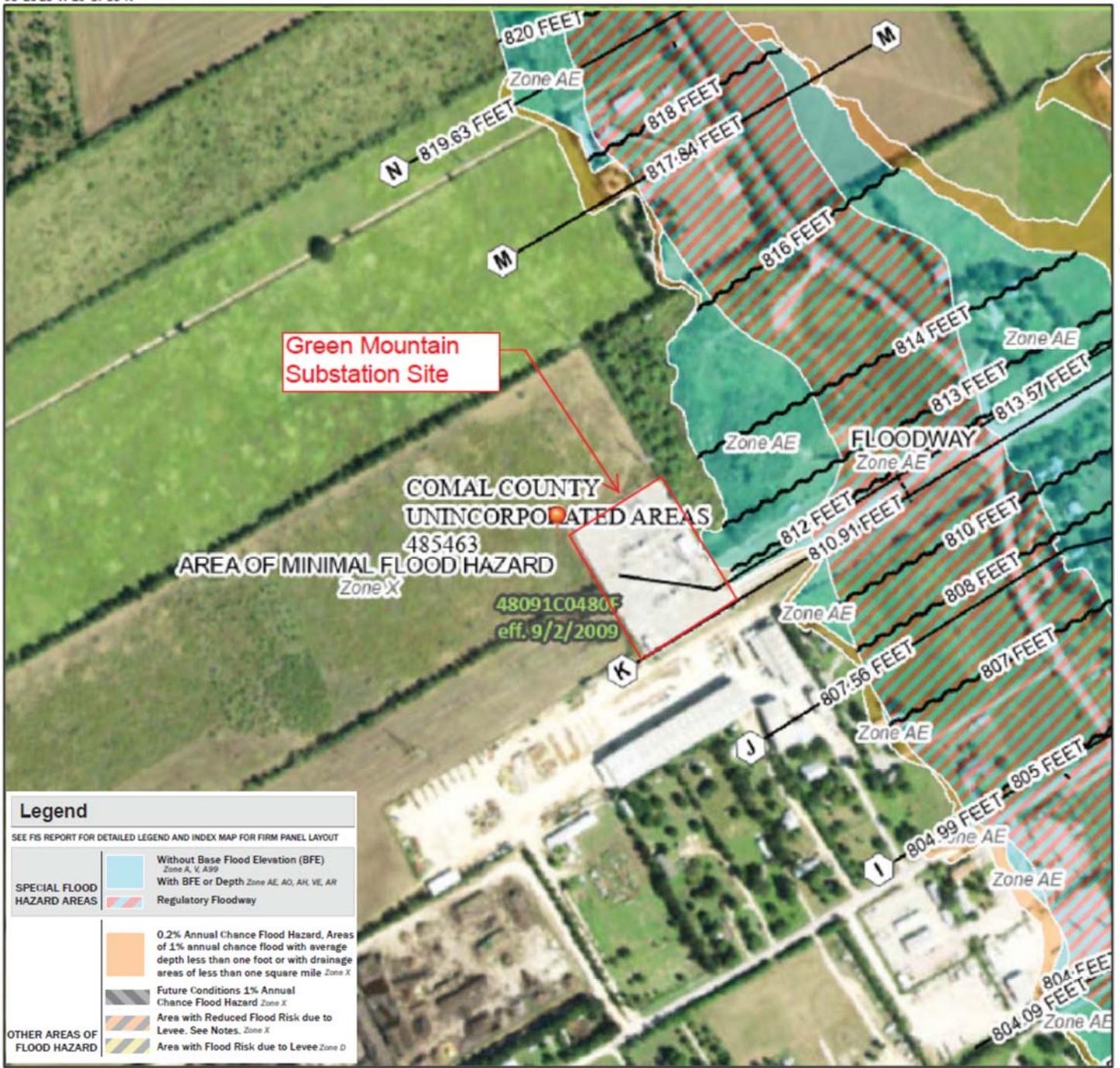
W.O. #
10690.020.004.0002

SCALE:
AS SHOWN

National Flood Hazard Layer FIRMette



96°20'20"W 29°37'30"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

| | | |
|-----------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) Zone A, V, A99 |
| | | With BFE or Depth Zone AE, AO, AH, VE, AR |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X |
| | | Future Conditions 1% Annual Chance Flood Hazard Zone X |
| | | Area with Reduced Flood Risk due to Levee. See Notes. Zone X |
| | | Area with Flood Risk due to Levee. Zone D |

0 250 500 1,000 1,500 2,000 Feet 1:6,000 96°19'43" W 29°36'59" N

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

| | |
|--------------------|--|
| NO SCREEN | Area of Minimal Flood Hazard Zone X |
| | Effective LOMRs |
| OTHER AREAS | Area of Undetermined Flood Hazard Zone D |
| GENERAL STRUCTURES | Channel, Culvert, or Storm Sewer |
| | Levee, Dike, or Floodwall |
| OTHER FEATURES | Cross Sections with 1% Annual Chance Water Surface Elevation 29.2 17.8 |
| | Coastal Transect |
| | Base Flood Elevation Line (BFE) |
| | Limit of Study |
| | Jurisdiction Boundary |
| | Coastal Transect Baseline |
| | Profile Baseline |
| | Hydrographic Feature |

FIGURE 6

FLOOD INSURANCE RATE MAP
GREEN MOUNTAIN SUBSTATION
CPS ENERGY
19365 MARBACH LANE
GARDEN RIDGE, TEXAS

SOURCE: Federal Emergency Management Agency, Web based viewer, accessed 15 May 2023; <https://msc.fema.gov/portal>

| | | |
|-------------------|------------------------------|--------------------|
| DATE: MAY 2023 | W.O. # 10690.020.004.0002 | SCALE: AS SHOWN |
|-------------------|------------------------------|--------------------|

– **Recharge and Transition Zone Exception Request Form (TCEQ-0628)**

Attachment A – Nature of Exception

Attachment B – Documentation of Equivalent Water Quality Protection

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: Richard W. Hendrix, P.E.

Date: 5/25/2023

Signature of Customer/Agent:



Regulated Entity Name: CPS Green Mountain Substation

Exception Request

- 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.
- Attachment B - Documentation of Equivalent Water Quality Protection.** Documentation demonstrating equivalent water quality protection for the Edwards Aquifer is attached.

Administrative Information

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

FORM 0628 ATTACHMENTS

ATTACHMENT “A” – Nature of Exception

The request is an exception to the requirement for capturing and containing 150% of the total volume of the AST's and the WPAP for development over the Edwards Aquifer Recharge Zone. The existing 3.399 acre electric bulk power transmission and control substation has 135,669 sf of impervious cover (91.64% of site). The construction of (4) 4' diameter piers, (4) 2.5' diameter piers and (1) 8'x10' slab will be within the existing impervious cover and will not result in an increase in impervious cover onsite the previously developed site. The piers will be 10-15' deep and the slab will be approximately 2' deep. It will also include the addition of oil containing transformers; (3) voltage transformers (VTs) that contain of 33 gallons of oil and (3) current transformers (CTs) with 13 gallons each.

ATTACHMENT “B” – Documentation of Equivalent Water Quality Protection

No measures are proposed to prevent pollution of storm water originating on-site or up-gradient from the project site and potentially flowing across and off the site after construction. The site will continue to utilize the existing containment chamber. Existing asphalt and curbing on-site was constructed to ensure any spillage from an AST will be directed to a controlled drainage chamber.

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

December 20, 1996

Mr. Curt D. Brockmann
City Public Service of San Antonio
P.O. Box 1771
San Antonio, Texas 78296

Re: EDWARDS AQUIFER, Comal County.
PROJECT NAME: CPS Green Mountain Substation, Located at 19365 Marbach Lane,
Garden Ridge, Texas
PLAN TYPE: Request for Exception to Aboveground Storage Tank (AST) and
Water Pollution Abatement Plan (WPAP) for Facility Construction
Plans and Specifications; 30 Texas Administrative Code (TAC)
§313.4, §313.11 & §313.12; Edwards Aquifer Protection Program

Dear Mr. Brockmann:

The Texas Natural Resource Conservation Commission (TNRCC) has completed its review of City Public Service's (CPS) request for exception received by the San Antonio office on September 4, 1996 and submitted on your behalf by Mr. Curt D. Brockmann.

Under 30 TAC §313.12,

It is the policy of the Commission to strictly enforce this chapter. Nevertheless, situations that would warrant exceptions to these rules will arise. Exceptions to the provisions of this chapter may be granted by the executive director if equivalent protection for the Edwards Aquifer can be demonstrated. Approvals of such requested exceptions will be reviewed on a case-by-case basis.

PROJECT DESCRIPTION

The proposed project for the 3.4 acre site will consist of the construction of a 32' x 44' control house and the installation of a 9,600 gallon electrical transformer which will contain mineral oil. A 15' x 20' x 6' containment vessel will be constructed around the tank and will consist of steel reinforced concrete. The vessel will contain a total volume of approximately 11,220 gallons or 110% of the largest tank. The inside of the containment vessel, according to the application, shall be coated with a modified polyester resin system manufactured by Polymorphic Polymers Corporation.

Mr. Curt D. Brockmann
December 20, 1996
Page 2

The request is for an exception to the requirement of capturing and containing 150% of the total volume of the AST's and the WPAP for the proposed construction, all of which is located on the Edwards Aquifer Recharge Zone.

GEOLOGY ON SITE

According to the geologic assessment submitted with the exception request there were no potential recharge features located on the proposed construction site.

GEOLOGY DOWN-GRADIENT OF SITE

A 400' downgradient geologic assessment for the site was submitted and revealed no potential recharge features.

POLLUTION ABATEMENT

I. During Construction:

The following measures will be taken to prevent pollution of stormwater originating on-site or up-gradient from the project site and potentially flowing across and off the site during construction:

- A. Temporary erosion and sedimentation controls (silt fences and rock berms) shall be installed prior to initiation of any other regulated activity.

II. After Construction:

No measures are proposed to prevent pollution of stormwater originating on-site or up gradient from the project site and potentially flowing across and off the site after construction.

EXCEPTION JUSTIFICATION

The justification presented for exception to the AST and WPAP requirement is that CPSB will:

1. Provide asphalt apron and curbing to direct any spillage from all ASTs to a controlled drainage chamber.
2. Provide controlled drainage for approximately 110% (11,220 gallons) of the largest oil-filled transformer on site (9,600 gallons).
3. Provide electronic release detection for each transformer.
4. Monitor electronic release detection system 24 hours/day by System Operator located at CPS's Jones Avenue operations control center.

Mr. Curt D. Brockmann
December 20, 1996
Page 3

5. Maintain contract with an emergency spill response provider to be dispatched in the event of any release at the site.
6. Implement a training program for personnel on environmental issues pertaining to the Edwards Aquifer.
7. Provide weekly site inspections for substation maintenance by CPS maintenance personnel with training mentioned in Item #6 above.
8. Notify TNRCC in the event of a spill.
9. Dispose of any spillage or oily stormwater properly.
10. Install and maintain temporary stormwater pollution abatement measures (i.e. silt fences and/or rock berms) until completion of the referenced project.
11. Reconfirm that no potential recharge features were discovered on the project site.
12. Confirm that no potential recharge features are located on the proposed development site.
13. Insure that no permanent population is located at the site.
14. Prevent any vehicle traffic or other activity which may increase the levels of oils and greases significantly beyond background conditions.

APPROVAL

The plan for this AST facility has been reviewed for compliance with 30 TAC §313.4, §313.11 and 30 TAC §313.12 which sets forth pollution abatement criteria for such facilities located on the recharge and transition zones of the Edwards Aquifer. The proposed pollution abatement activities are in general agreement with 30 TAC §313.4 and §313.11. Therefore, approval of the proposed facility is hereby granted with the specific conditions listed below.

Failure to comply with any of the following conditions or any other specific conditions of approval is a violation of these rules. Pursuant to Section 26.136 of the Texas Water Code, violations of these rules may result in administrative **penalties of up to \$10,000 for each act of violation and for each day of violation.**

SPECIAL CONDITIONS

1. The TNRCC has reviewed CPS's proposed elements of protection for the Edwards Aquifer in lieu of 150% capture of tank storage capacity required by 30 TAC §313.4 and §313.11.

Mr. Curt D. Brockmann

December 20, 1996

Page 4

The TNRCC agrees that the sum of the items listed above are adequate and acceptable for equivalent protection as stipulated by 30 TAC §313.12(a). Therefore, the request for exception is hereby granted for the Water Pollution Abatement Plan and the Above Ground Storage Tank applications.

STANDARD CONDITIONS FOR EXCEPTION

1. Please be reminded that 30 TAC §313.4(c) requires the owner/ developer to: (1) record in the county deed records that this property is subject to the approved WPAP; and (2) submit to the Executive Director through the San Antonio Regional Office, within 30 days of receiving this written notice of approval of the water pollution abatement plan and prior to commencing construction, proof of application for recordation of notice in the county deed records. Enclosed is a suggested format you may use to deed record your approved WPAP.
2. Prior to commencing construction, the applicant/agent shall submit to the San Antonio Regional Office copies of any changes made to the plans and specifications for this project which have been required by the TNRCC review and/or all other permitting authorities.
3. **Please note, following this approval of the regulated activities described in the referenced request for exception, any amendment to these activities required by some other regulating authority or desired by the applicant will require the submittal of an appropriate application or request to amend this approval. And, as indicated in 30 TAC §313.4 and 30 TAC §313.27, an application to amend any approved regulated activity shall include payment of appropriate fees and all information necessary for its review and Executive Director approval.**
4. Additionally, all contractors conducting regulated activities associated with this proposed regulated project shall be provided with copies of this approval letter and the entire contents of the exception request so as to convey to the contractors the specific conditions of this approval. During the course of these regulated activities, the contractors shall be required to keep on-site copies of the exception request and this approval letter.
5. The temporary erosion and sedimentation (E&S) controls for the entire project shall be installed prior to beginning any other construction work on this project.
6. The appropriate E&S control(s) that shall be used during the construction of the project should be determined as follows: (1) **Silt fences** should be used when the drainage area is less than 2 acres and the slope is less than 10%. (2) **Rock berms with filtration** should be used when the drainage areas are greater than two acres or when the slopes are in excess of 10%. The bottom edge of the filter fabric must be buried a minimum of 6 inches below grade.

Mr. Curt D. Brockmann

December 20, 1996

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7. The TNRCC may monitor stormwater discharges from the site to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection may be necessary if excessive solids are being discharged from the site.
8. Also, 30 TAC §313.4(d)(2) requires that if any significant recharge features, such as solution openings or sinkholes, are discovered during construction, all regulated activities near the significant recharge feature must be suspended immediately and may not be resumed until the Executive Director has reviewed and approved the methods proposed to protect the aquifer from any potential adverse impacts. Upon discovery of the significant recharge features, the developer shall immediately notify the San Antonio Regional Office.
9. Upon completion of the project, the applicant shall reseed or sod all areas disturbed during construction.
10. If any abandoned wells exist on the site or are found during construction of the proposed development, they shall be plugged in accordance with the local underground water conservation district's plugging procedures, if applicable, or 30 TAC §287.50(a) of this title (relating to Standards for Plugging Wells that Penetrate Undesirable Water Zones), or an equivalent method, as approved by the Executive Director. Pursuant to 30 TAC §287.48(e), the person that plugs such a well shall, within 30 days after plugging is complete, submit a Water Well Completion and Plugging Report to the Executive Director, through the San Antonio Regional Office and to the Edwards Aquifer Authority.

Any drill holes resulting from core sampling on-site or down-gradient of the site shall be plugged with cement slurry, from the bottom of the hole to the top of the hole, so as to not allow water or contaminants to enter the subsurface environment.

11. No waste-disposal wells, new confined animal feeding operations, land disposal of Class I wastes, or use of sewage holding tanks as parts of organized collection systems shall be allowed on the recharge zone of this regulated development.
12. During the course of the construction related to the referenced regulated project, the owner/developer shall comply with all applicable provisions of 30 TAC §313.4. Construction which is initiated and abandoned, or not completed, shall be returned to a permanent condition such that groundwater in the Edwards Aquifer is protected from potential contamination. Additionally, Prime Co. Personal Communications L.P., applicant, shall remain responsible for the provisions and special conditions of this approval until such responsibility is legally transferred to another person or entity, upon which that person or entity shall assume responsibility for all provisions and specific conditions of this approval.

Mr. Curt D. Brockmann

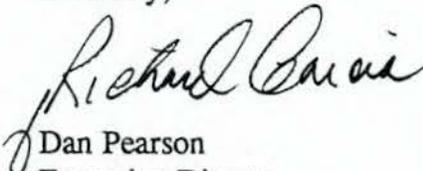
December 20, 1996

Page 6

13. Pursuant to 30 TAC §313.4(d)(1) and prior to commencing regulated activities, the applicant must provide the San Antonio Regional Office with the date on which the regulated activity will commence.
14. Please note that 30 TAC §313.4(g) states that this approval expires two years from this date unless, prior to the expiration date, construction has commenced on the regulated project.
15. Approval of the design of the sewage collection system for this proposed subdivision shall be obtained from the Texas Natural Resources Conservation Commission prior to the commencement of construction of any sewage collection system, the design of which shall be in accordance with 30 TAC §313.5 and 30 TAC §317.
16. The developer shall ensure that construction debris, such as but not limited to scrap wood, bricks, paint, adhesives, containers, paper, etc. is disposed of properly at an authorized landfill off of the Edwards Aquifer Recharge Zone.
17. If asphaltic materials such as "seal coat," emulsion or other asphaltic products used for paving, roofing, etc. wash off or leave the project site the developer shall notify the Texas Natural Resource Conservation Commission immediately and commence clean-up.

Should clarification of this letter be desired or if we may be of any other assistance, please contact Tom Gutierrez of our San Antonio office at 210/490-3096.

Sincerely,



Dan Pearson
Executive Director

DP/TG/eg

Enclosure: Deed Recordation Form

cc: Tom Hornseth, Comal County
Rebecca Cedillo, San Antonio Water System
Renee Green, Bexar County Public Works
Rick Illgner, Edwards Aquifer Authority
Steve Musick, TNRCC Groundwater Section
TNRCC Field Operations, Austin

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

May 19, 1997

Ms. Louisa B. Eclarinal
Environmental Analyst, Permits Section
City Public Service of San Antonio
PO Box 1771
San Antonio, TX 78296-1771

Re: EDWARDS AQUIFER, Bexar County
PROJECT: Existing City Public Service Utility Sites Located on Edwards Aquifer Recharge Zone, San Antonio, Texas
TYPE: Edwards Aquifer Protection Plans, Water Pollution Abatement Plan (WPAP) & Aboveground Hydrocarbon Storage Facility Plan (AST); 30 Texas Administrative Code (TAC) §213.5(b) & 213.5(e); Edwards Aquifer Protection Program

Dear Ms. Eclarinal:

The Texas Natural Resource Conservation Commission (TNRCC) received your request for information about regulation of electrical equipment containing insulating oil received by the San Antonio office on January 15, 1997. Additional information was received on May 6, 1997.

Section 213.5(e)(4)(A) addresses exemptions from the requirements of Section 213.5(e)(1), controlled drainage; 213.5(e)(2), contents of the application; and 213.5(e)(3) description of measures to contain any spills. Section 213.5(e)(4)(A), Exemptions from this section states:

"Equipment used to transmit electricity that utilizes insulating oil for insulation or cooling purposes, including transformers and oil circuit breakers, are exempt from this subsection. Construction of supporting structures is a regulated activity for which a water pollution abatement plan under subsection (a)(1) of this section is required."

The following are "minor" activities listed in your letter: "maintains these existing stations, and occasionally erects transmission towers, pre-fabricated control houses/communication buildings, and secondary containment. Other minor activities include site grading, trenching for conduit lines and pouring of slabs. Most of these activities involve only a slight disturbance of an already developed site, with minimal impact on the existing topographic, and geologic features and with very little potential for polluting the Edwards Aquifer."

REPLY TO: REGION 13 • 140 HEIMER RD., SUITE 360 • SAN ANTONIO, TEXAS 78232-5042 • AREA CODE 210/490-3096

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000

printed on recycled paper using soy-based ink

Ms. Louisa B. Eclarinal
May 19, 1997
Page 2

Section 213.5(h) states:

"The installation of natural gas, telephone or electric lines, water lines, or other such utility lines which are not designed to carry and will not carry pollutants, stormwater runoff, sewage effluent, or treated effluent from a wastewater treatment facility is exempt from the Edwards Aquifer protection plan submittal requirements under this section. The construction of these facilities on the recharge zone is a regulated activity and the installation and maintenance of appropriate temporary erosion and sedimentation controls is required. All temporary erosion and sedimentation controls must be installed prior to construction, must be maintained during construction, and shall be removed when vegetation is established and the construction area is stabilized. The executive director may monitor stormwater discharges from these projects to evaluate the adequacy of the temporary erosion and sedimentation control measures. Additional protection will be required if the executive director determines that these controls are inadequate to protect water quality."

The TNRCC agrees that not every construction related activity for an electric utility should be considered a regulated activity. The TNRCC will accept the list above as necessary and typical routine upgrades for operation and maintenance of an electric utility station. The activities must be confined to already developed sites, contain no other regulated hydrocarbons or hazardous substances, and produce no wastewater.

Should clarification of this letter be desired or if we may be of any other assistance, please contact John Mauser of our San Antonio office at 210/490-3096.

Sincerely,



Bobby D. Caldwell
Water Program Manager

BDC/JKM/eg

cc: Wesley Hamff, New Braunfels Utilities
Rebecca Cedillo, San Antonio Water System
Renee Green, Bexar County Public Works
Tom Hornseth, Comal County Engineer
Greg Ellis, Edwards Aquifer Authority
TNRCC Field Operations, Austin



City Public Service of San Antonio, Texas

January 14, 1997

Mr. John Mauser
Texas Natural Resource
Conservation Commission
140 Heimer Road, Suite 360
San Antonio, Texas 78232-5028

Dear Mr. Mauser:

City Public Service (CPS) is requesting clarification regarding Section 213.5 (e)(4)(A), which exempts electrical equipment filled with insulating oil from the requirements of the section but subjects the construction of the equipment's supporting structures to a water pollution abatement plan (WPAP).

While this provision obviously applies to construction of new substations, it is not entirely clear whether the requirement of a WPAP for construction of supporting structures applies to existing sites. CPS, which is the gas and electric utility for San Antonio and surrounding area, owns several electrical substations on the Edwards Recharge and Transition Zones. CPS routinely maintains these existing stations and occasionally erects transmission towers, pre-fabricated control houses/communication buildings, and secondary containment. Other minor activities include site grading, trenching for conduit lines and pouring of slabs. Most of these activities involve only a slight disturbance of an already developed site, with minimal impact on the existing topographic and geologic features and with very little potential for polluting the Edwards Aquifer. CPS believes that these activities do not warrant a full WPAP application process.

CPS in the past has requested and obtained WPAP exceptions for similar substation construction projects over the recharge zone. CPS also has WPAP approvals for substation projects that may require minor modifications in the future. Given the exemption for oil-filled electrical equipment under the newly adopted rules, it was indicated in previous discussions with Texas Natural Resource Conservation Commission officials that CPS would only have to provide the Commission with a courtesy notification letter prior to initiating such activities on existing substations. Such approach is in line with the Commission's intent to streamline the application process and to increase the efficiency and effectiveness of the day-to-day implementation of the Edwards Aquifer program.

Mr. John Mauser

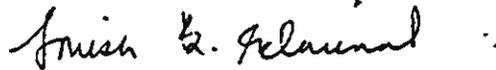
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January 14, 1997

CPS is committed to protecting the Edwards Aquifer and to safeguarding its water quality. CPS, as it has demonstrated in the past, conscientiously applies best management practices in its construction projects as well as in its maintenance program for substations located on the Edwards Aquifer Zones. CPS, however, requests that a more practical way of dealing with minor construction activities that pose little or no threat to the aquifer be implemented by the Commission. The notification approach, as mentioned in the above paragraph, seems to be more appropriate for these type of activities rather than the full WPAP application process.

CPS appreciates your prompt consideration of this request to submit notification letters in lieu of full WPAP applications for minor construction activities. Please call me at 978-2367 if more information is necessary or would be helpful.

Sincerely,



Louisa B. Eclarinal
Environmental Analyst
Permits Section

LBC:aa

– **Temporary Stormwater Section (TCEQ-0602), if necessary**

Attachment A - Spill Response Actions

Attachment B - Potential Sources of Contamination

Attachment C - Sequence of Major Activities

Attachment D - Temporary Best Management Practices and Measures

Attachment E - Request to Temporarily Seal a Feature, (if sealing a feature)

Attachment F - Structural Practices

Attachment G - Drainage Area Map

Attachment H - Temporary Sediment Pond(s) Plans and Calculations

Attachment I - Inspection and Maintenance for BMPs

Attachment J - Schedule of Interim and Permanent Soil Stabilization Practices

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: Richard W. Hendrix, P.E.

Date: 5/25/2023

Signature of Customer/Agent:



Regulated Entity Name: CPS Green Mountain Substation

Project Information

Potential Sources of Contamination

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

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

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

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

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

- Aboveground storage tanks with a cumulative storage capacity between 250 gallons and 499 gallons will be stored on the site for less than one (1) year.
- Aboveground storage tanks with a cumulative storage capacity of 500 gallons or more will be stored on the site. An Aboveground Storage Tank Facility Plan application must be submitted to the appropriate regional office of the TCEQ prior to moving the tanks onto the project.
- Fuels and hazardous substances will not be stored on the site.
- 2. **Attachment A - Spill Response Actions.** A site specific description of the measures to be taken to contain any spill of hydrocarbons or hazardous substances is attached.
- 3. Temporary aboveground storage tank systems of 250 gallons or more cumulative storage capacity must be located a minimum horizontal distance of 150 feet from any domestic, industrial, irrigation, or public water supply well, or other sensitive feature.
- 4. **Attachment B - Potential Sources of Contamination.** A description of any activities or processes which may be a potential source of contamination affecting surface water quality is attached.

Sequence of Construction

- 5. **Attachment C - Sequence of Major Activities.** A description of the sequence of major activities which will disturb soils for major portions of the site (grubbing, excavation, grading, utilities, and infrastructure installation) is attached.
 - For each activity described, an estimate (in acres) of the total area of the site to be disturbed by each activity is given.
 - For each activity described, include a description of appropriate temporary control measures and the general timing (or sequence) during the construction process that the measures will be implemented.
- 6. Name the receiving water(s) at or near the site which will be disturbed or which will receive discharges from disturbed areas of the project: Cibolo 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.

FORM 0602 ATTACHMENTS

ATTACHMENT “A” - SPILL RESPONSE

In the event of a spill involving hydrocarbons or other hazardous substances, the contractor will immediately notify TCEQ (at 210-490-3096) and the engineer (210 545-1122) explaining the type and nature of the spill. The contractor shall be required to maintain a sufficient stockpile of sand material in the staging area. This sand material shall be used to immediately isolate and provide containment of the spill by constructing dikes. Furthermore, this sand material shall act as an absorbent material that can be disposed of offsite and out of the Recharge Zone during cleanup operations. All contaminated soils resulting from an accidental release will be required to be removed and disposed of in accordance with all local, state, and federal regulations.

The objective of this attachment is to describe measures to prevent or reduce the discharge of pollutants to drainage systems or watercourses from leaks and spills by reducing the chance for spills, stopping the source of spills, containing and cleaning up spills, properly disposing of spill materials, and training employees. The following steps will help reduce the storm water impacts of leaks and spills:

Education

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

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

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

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

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

General Measures

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

- (2) Store hazardous materials and wastes in covered containers and protect from vandalism.
- (3) Place a stockpile of spill cleanup materials where it will be readily accessible.
- (4) Train employees in spill prevention and cleanup.
- (5) Designate responsible individuals to oversee and enforce control measures.
- (6) Spills should be covered and protected from storm-water runoff during rainfall to the extent that it doesn't compromise clean-up activities.
- (7) Do not bury or wash spills with water.
- (8) Store and dispose of used clean up materials, contaminated materials, and recovered spill material that is no longer suitable for the intended purpose in conformance with the provisions in applicable BMPs.
- (9) Do not allow water used for cleaning and decontamination to enter storm drains or watercourses. Collect and dispose of contaminated water in accordance with applicable regulations.
- (10) Contain water overflow or minor water spillage and do not allow it to discharge into drainage facilities or watercourses.
- (11) Place Material Safety Data Sheets (MSDS), as well as proper storage, cleanup, and spill reporting instructions for hazardous materials stored or used on the project site in an open, conspicuous, and accessible location.
- (12) Keep waste storage areas clean, well-organized, and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.

Cleanup

- (1) Clean up leaks and spills immediately.
- (2) Use a rag for small spills on paved surfaces, a damp mop for general cleanup, and absorbent material for larger spills. If the spilled material is hazardous, then the used cleanup materials are also hazardous and must be disposed of as hazardous waste.
- (3) Never hose down or bury dry material spills. Clean up as much of the material as possible and dispose of properly. See the waste management BMPs in this section for specific information.

Minor Spills

- (1) Minor spills typically involve small quantities of oil, gasoline, paint, etc. which can be controlled by the first responder at the discovery of the spill.
- (2) Use absorbent materials on small spills rather than hosing down or burying the spill.
- (3) Absorbent materials should be promptly removed and disposed of properly.
- (4) Follow the practice below for a minor spill:
- (5) Contain the spread of the spill.
- (6) Recover spilled materials.
- (7) Clean the contaminated area and properly dispose of contaminated materials.

Semi-Significant Spills

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

Spills should be cleaned up immediately:

- (1) Contain spread of the spill.
- (2) Notify the project foreman immediately.
- (3) If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (absorbent materials, cat litter and/or rags). Contain the spill by encircling with absorbent materials and do not let the spill spread widely.
- (4) If the spill occurs in dirt areas, immediately contain the spill by constructing an earthen dike. Dig up and properly dispose of contaminated soil.
- (5) If the spill occurs during rain, cover spill with tarps or other material to prevent contaminating runoff.

Significant/Hazardous Spills

For significant or hazardous spills that are in reportable quantities:

- (1) Notify the TCEQ by telephone as soon as possible and within 24 hours at 512-339-2929 (Austin) or 210-490-3096 (San Antonio) between 8 AM and 5 PM.

After hours, contact the Environmental Release Hotline at 1-800-832-8224. It is the contractor's responsibility to have all emergency phone numbers at the construction site.
(2) For spills of federal reportable quantities, in conformance with the requirements in 40 CFR parts 110,119, and 302, the contractor should notify the National Response Center at (800) 424-8802.

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

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

(5) Other agencies which may need to be consulted include, but are not limited to, the City Police Department, County Sheriff Office, Fire Departments, etc.

More information on spill rules and appropriate responses is available on the TCEQ website at: http://www.tnrcc.state.tx.us/enforcement/emergency_response.html

Vehicle and Equipment Maintenance

(1) If maintenance must occur on-site, use a designated area and a secondary containment, located away from drainage courses, to prevent the run-on of storm-water and the runoff of spills.

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

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

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

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

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

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

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

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

Vehicle and Equipment Fueling

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

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

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

ATTACHMENT “B” – POTENTIAL SOURCES OF CONTAMINATION

Other potential sources are:

1. Oil and gasoline leaks from construction equipment.
2. Vehicles tracking in and out of the project.
3. Asphaltic paving and associated materials.
4. Minor leakage or spillage of paints, lacquers, solvents, etc., used in conjunctions with building construction which may occur simultaneously with infrastructure construction.
5. Leakage from self-contained portable toilet facilities.

ATTACHMENT “C” – SEQUENCE OF MAJOR ACTIVITIES

1. Install all Temporary BMP’s (rock berms and silt fencing), construction entrance, and concrete wash-out for on-site construction. (0.5 acres)
2. Clear site of any existing debris & prepare area for construction (0.5 acres)
3. Excavate and fill site as dictated by the grading plan (0.5 acres)
4. Construct piers and slab per plan (0.5 acres)
5. Construct paved surfaces; concrete parking areas (0.2 acres)
6. Remove any left-over debris after construction (0.5 acres)
7. Remove temporary BMPs (0.5 acres)

ATTACHMENT “D” - Temporary Best Management Practices

A) There is no up-gradient water flowing onto the site. Underground storm drain systems are proposed to take the treated and untreated run-off through site. The run-off will then discharge through outfall structures and be allowed to flow toward Leon Creek south of the site.

B) All contractors, subcontractors, and builders shall endeavor to avoid the pollution of runoff water by using “best management practices” and reasonable foresight to avoid contact between runoff water and polluting materials.

Some best management practices to which all parties are expected to conform are as follows:

1. Prior to the beginning of the work listed in “Attachment C”, the contractor will install the sediment control barriers as specified on the separate “Temporary Pollution Abatement Plan” which is attached at the end of this section. These barriers (silt fences, etc.) will be maintained during the entire time construction is in progress. Thus erodible material and pollution that might be generated during construction will be intercepted by these same barriers.
2. The installation of a stabilized construction entrance/exit(s) and a construction staging area to reduce the dispersion of sediment from the site.
3. The silt fences specified on the “Temporary Pollution Abatement Plan” were positioned to be down-gradient of all construction zones. Thus, with proper installation and maintenance these barriers shall be effective in preventing potentially contaminated runoff from leaving the site.
4. The general contractor shall develop a written plan to control the generation of dust during construction phase and submit it to the developer.
5. Builders and their contractors shall clean equipment only onto areas protected by their silt fences or dikes. Set forth in the TBMP’s plan is a location where a “Concrete Truck Washout Pit” will be constructed. The builder shall inform his concrete supplier that this Washout Pit is the only point in the project where washout and waste concrete mix may be discharged.
6. Stockpiles of erodible material (topsoil, sand, etc.) shall be placed in areas only protected by silt fences or other erosion barriers.
7. All contractors shall provide self-contained toilet facilities for their employees.
8. Chemicals, solvents, paints, and other potentially toxic materials must be stored in such a manner that they are protected from rainfall and surface runoff water.
9. All contractors shall provide waste receptacles at locations convenient to their construction area; to protect from leaching by rainfall; and provide regular collection.

C) Temporary measures installed onsite are intended to provide a method of slowing the flow of runoff from the construction site in order to allow sediment and suspended solids

to settle out of the runoff. By containing the sediment and solids within the site, they will not enter the aquifer, sensitive features, or surface streams downgradient of the site.

D) BMP measures utilized in this plan are intended to allow stormwater to continue downstream after passing through the BMP's. This will allow stormwater runoff to continue downgradient to streams or features that may exist downstream of the site.

If any sensitive features are discovered during construction, all regulated activities near the sensitive feature shall be suspended. The TCEQ Regional office will be notified immediately and a plan will be submitted to TCEQ for treatment of the feature. See note 3 of TCEQ WPAP General Construction Notes.

| | |
|---|--|
| San Antonio Regional Office 14250 Judson Road San Antonio, Texas 78233-4480 Phone (210) 490-3096 Fax (210) 545-4329 | State of Texas Spill-Reporting Hotline (800) 832-8224 Bexar County Storm Water Quality (210) 335-6663 |
|---|--|

ATTACHMENT “E” – Request to Temporarily Seal a Feature

Not Applicable

ATTACHMENT “F” – Structural Practices

The following measures will be installed as part of the site preparation activities:

- Erection of silt fences along the downgradient boundary of construction activities.
- Stabilized construction entrance/exit(s) will be installed.
- A construction staging area will be designated.
- Concrete truck washout pit(s) will be installed where required to facilitate controlled disposal of concrete truck washout.

ATTACHMENT “G” – Drainage Area Map

Please reference the attached drawing illustrating the proposed drainage areas and sub-areas. Other erosion controls within each disturbed area will be used, such as silt fencing and inlet protection.

ATTACHMENT “H”- Temporary Sediment Pond Plans and Calculations

Not Applicable. No areas greater than 10 acres with a common drainage area will be disturbed at one time.

ATTACHMENT “I” – Inspection and Maintenance

All TBMP'S shall be inspected by the contractor on a weekly basis and after all substantial rain events. The contractor shall keep records of all inspections that were

made. Also the contractor shall repair or replace any damaged or dysfunctional TBMP's. The contractor shall insure that all TBMP's are maintained and inspected according to TCEQ's Technical Guidance Manual.

Inspection and Maintenance shall include but is not limited to:

For the Construction Entrance:

- The contractor shall maintain the entrance in a condition which will prevent tracking or flowing of sediment onto public right-of-way. This may require periodic top dressing with additional stone as conditions demand and repair and/or cleanout of any measures used to trap sediment.
- The contractor shall immediately remove any and all sediment spilled, dropped, washed or tracked onto public rights-of-way.
- When necessary, the contractor shall clean wheels to remove sediment prior to entrance onto public rights-of-way.
- When washing is required, it should be done on an area stabilized with crushed stone that drains into an approved sediment trap or sediment basin.
- The contractor shall prevent all sediment from entering any storm drain, ditch, or water course by using approved methods.

For Silt Fencing:

- The contractor shall inspect all silt fencing weekly and after any rainfall for sediment accumulation, torn fabric and crushed or collapsed sections throughout the duration of construction.
- Sediment shall be removed when sediment buildup reaches 6 inches, or a second line of fencing shall be installed parallel to the original fence.
- Torn fabric shall be replaced by the contractor; a second line of fencing shall be erected parallel to the torn section if replacement is not feasible.
- Contractor shall replace or repair any fence sections crushed or collapsed during the course of construction. Silt fence may be relocated by the contractor to a location where it will provide equal protection should the original/planned installation obstruct vehicular access to the site.
- 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.

For Rock Berms:

- The contractor shall inspect all rock berms weekly and after any rainfall for sediment accumulation, debris building up, or damage throughout the duration of construction.
- Sediment and other debris shall be removed when sediment buildup reaches 6 inches. The accumulated silt and debris shall be disposed in an approved manner that will not cause any additional siltation.
- The contractor to repair any loose wire sheathing.

- The contractor shall reshape the berm as needed during inspection throughout the duration of construction.
- The contractor shall replace the berm when the structure ceases to function as intended due to silt accumulation among the rocks, washout, construction traffic damage, etc.
- The rock berm shall remain in place until all upstream areas are stabilized and accumulated silt removed.

For Grate and Curb Inlet Protection:

- The contractor shall inspect all inlet protection weekly and after any rainfall for sediment accumulation, debris building up, or damage throughout the duration of construction. Repair or replacement should be made promptly as needed by the contractor.
- Sediment and other debris shall be removed when sediment buildup reaches 3 inches. The removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- The contractor shall check placement of inlet protection measures to prevent gaps between these measures and the curb.
- The contractor shall inspect the filter fabric and patch or replace if torn or missing.
- Records will be kept with the construction site Superintendent of all inspection and maintenance actions. See maintenance record chart next on the next page.

For Concrete Washout Pit

- The contractor shall inspect all concrete washout pits weekly and after any rainfall.
- Contractor shall ensure that all excess concrete is being washed out into the designated washout pits only.
- The hardened concrete shall be disposed of when the pit is no longer required and when it becomes full.

General

- Records will be kept with the construction site superintendent of all inspections and maintenance actions. See the attached maintenance record chart.
- Litter, construction debris, and construction chemicals exposed to storm water shall be prevented from becoming a pollutant source for storm water discharges (e.g., screening outfalls, picked up daily).
- 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).

ATTACHMENT “J” – Interim and Permanent Soil Stabilization

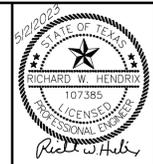
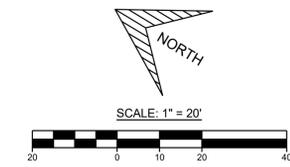
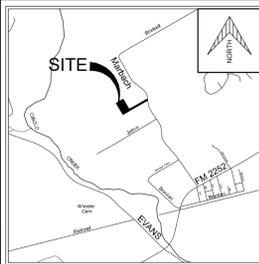
Interim on-site stabilization measures, which are continuous, will include minimizing soil disturbances by exposing only the smallest practical area of land required for the shortest period of time and maximizing use of natural vegetation. As soon as practical, all disturbed soil will be stabilized as per project specifications in accordance with pages 1-35 to 1-60 of TCEQ's Technical Guidance Manual (TGM) RG-348 (2005).

Stabilization measures will be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, and except as provided below, will be initiated no more than fourteen (14) days after the construction activity in that portion of the site has temporarily or permanently ceased. Where construction activity on a portion of the site is temporarily ceased, and earth disturbing activities will be resumed within twenty-one (21) days, temporary stabilization measures do not have to be initiated on that portion of site. In areas experiencing droughts where the initiation of stabilization measures by the 14th day after construction activity has temporarily or permanently ceased is precluded by seasonably arid conditions, stabilization measures must be initiated as soon as practicable.

The site shall be stabilized with sod and/or seed upon the completion of construction. If construction is to temporary cease and temporary stabilization is required as noted above, the exposed soil shall be stabilized by mulch until construction resumes.

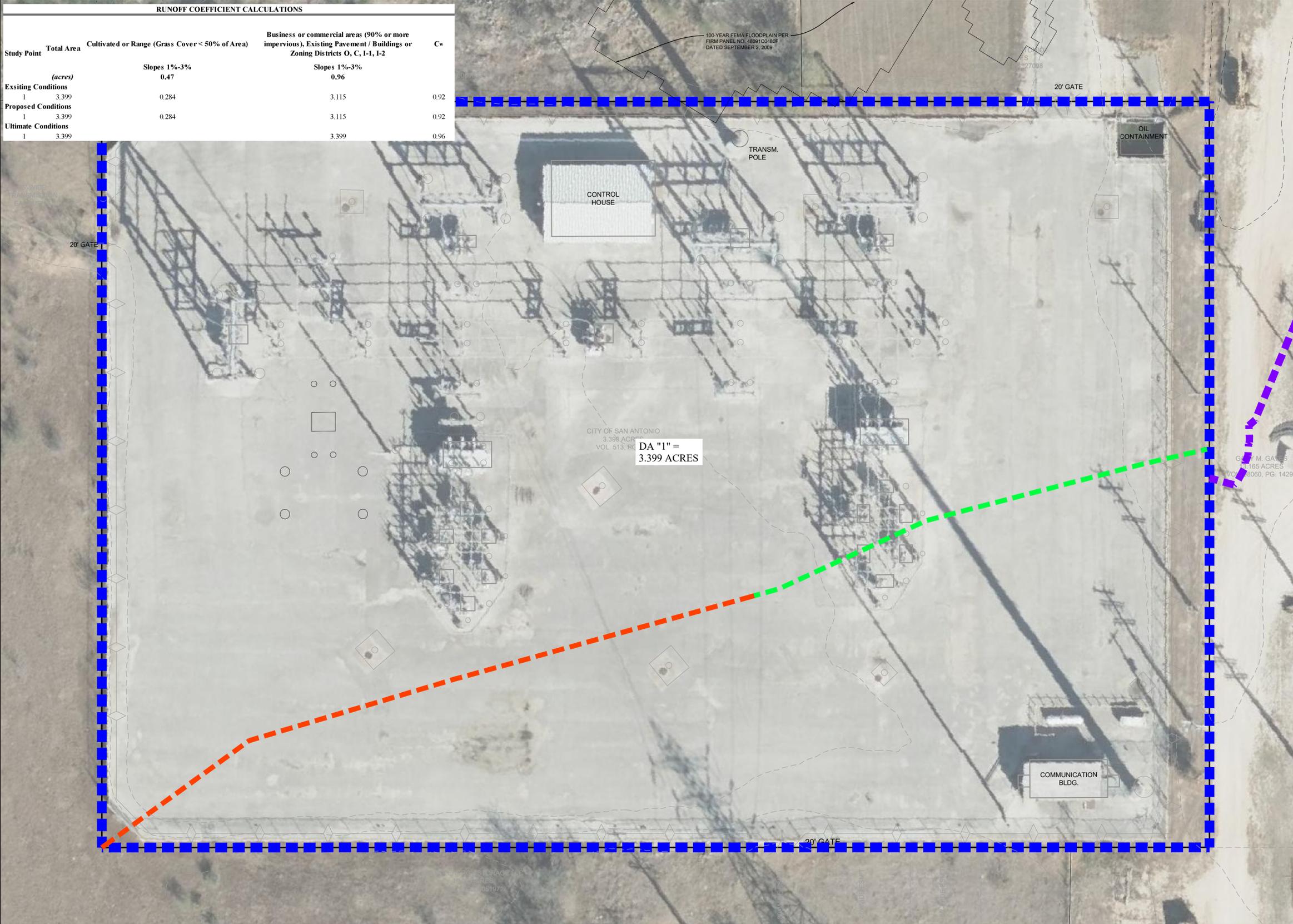
HYDROLOGY CALCULATIONS

| Inlet/Study Point | Structure/Description | Contributing Areas | Area (acres) | Cw | Overland Flow (Equation 3-3, TR-55) | | | | | Shallow Concentrated Flow (Figure 3-1, TR-55) | | | | Channel Flow | | | Total Time of Conc. (min) | I5 (in/hr) | I25 (in/hr) | I100 (in/hr) | Q5 (cfs) | Q25 (cfs) | Q100 (cfs) | |
|----------------------------|-----------------------|--------------------|--------------|------|-------------------------------------|-------|---------|--------|-----------|---|---------|--------|-----------|--------------|--------|----------|---------------------------|------------|-------------|--------------|----------|-----------|------------|-----------|
| | | | | | Surface Condition | n | P2 (in) | L (ft) | S (ft/ft) | Tr (min) | Surface | L (ft) | S (ft/ft) | Tsc (min) | L (ft) | V (ft/s) | | | | | | | | Tch (min) |
| Existing Conditions | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | 3.399 | 0.92 | Smooth Surface | 0.011 | 4.44 | 100 | 0.01 | 5.0 | Paved | 402 | 0.01 | 3.3 | 0 | 4 | 0.0 | 8 | 6.81 | 9.54 | 11.97 | 21.27 | 29.80 | 37.39 |
| Proposed Conditions | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | 3.399 | 0.92 | Smooth Surface | 0.011 | 4.44 | 100 | 0.01 | 5.0 | Paved | 402 | 0.01 | 3.3 | 0 | 5 | 0.0 | 8 | 6.81 | 9.54 | 11.97 | 21.27 | 29.80 | 37.39 |
| Ultimate Conditions | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | | 1 | 3.399 | 0.96 | Smooth Surface | 0.011 | 4.44 | 100 | 0.01 | 5.0 | Paved | 402 | 0.01 | 3.3 | 0 | 6 | 0.0 | 8 | 6.81 | 9.54 | 11.97 | 22.22 | 31.13 | 39.06 |



RUNOFF COEFFICIENT CALCULATIONS

| Study Point | Total Area (acres) | Cultivated or Range (Grass Cover < 50% of Area) | | Business or commercial areas (90% or more impervious), Existing Pavement / Buildings or Zoning Districts O, C, I-1, I-2 | | Cw |
|----------------------------|--------------------|---|------|---|------|------|
| | | Slopes 1%-3% | 0.47 | Slopes 1%-3% | 0.96 | |
| Existing Conditions | | | | | | |
| 1 | 3.399 | 0.284 | | 3.115 | | 0.92 |
| Proposed Conditions | | | | | | |
| 1 | 3.399 | 0.284 | | 3.115 | | 0.92 |
| Ultimate Conditions | | | | | | |
| 1 | 3.399 | | | 3.399 | | 0.96 |



LEGEND

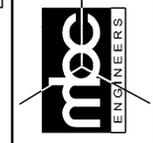
- Orange dashed line: DRAINAGE PATH OVERLAND FLOW
- Green dashed line: DRAINAGE PATH SHALLOW CONCENTRATED
- Blue dashed line: DRAINAGE PATH CHANNEL FLOW
- Red arrow: DRAINAGE FLOW
- Grey dashed line: EXISTING CONTOUR
- Black dashed line: PROPOSED CONTOUR
- Black box: PROPOSED FINISHED FLOOR EL. (FF=1000.00)
- Blue dashed line: AREA BOUNDARY
- Purple dashed line: DRAINAGE PATH DOWNSTREAM

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY PLAN AND CONSIDER EXISTING AND PROPOSED DRAINAGE PATTERNS DURING THE CONSTRUCTION OF THE PROJECT. IN ORDER TO ACCOMPLISH THIS, IT MAY BE NECESSARY TO PHASE THE GRADING, CONSTRUCT TEMPORARY BERMS AND SWALES WHILE FACTORING IN SURROUNDING CONDITIONS TO PROPERLY DIRECT AND CONTROL SURFACE RUNOFF. ADDITIONALLY, THE CONTRACTOR SHOULD TAKE INTO ACCOUNT THE TIMING OF CONSTRUCTING PONDS, CHANNELS AND STORM DRAINAGE SYSTEMS.

CITY OF SAN ANTONIO
3.399 ACRES
VOL. 513, R...
DA "1" =
3.399 ACRES

PRIMARY CONTACT:
RICHARD HENDRIX, P.E.

MACINA • BOSE • COPELAND & ASSOC., INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1035 Central Parkway North, San Antonio, Texas 78232
(210) 545-1122 Fax (210) 545-9002 www.mbcengineers.com
FIRM REGISTRATION NUMBER: T.B.P.E. F-784 & T.B.P.L.S. 10011700



GREEN MOUNTAIN SUBSTATION
19365 MARBACH LANE
SAN ANTONIO, TEXAS
DRAINAGE AREA MAP



| REVISIONS: | DATE | NO. | DESCRIPTION | BY |
|------------|------|-----|-------------|----|
| | | | | |
| | | | | |
| | | | | |

PLAT ID: RH
DESIGN: GG
DRAWN: DLA
CHECKED: DLA
DATE: 1877-33384
JOB NO.: 1877-33384

EX-06

Date: May 02, 2023, 11:17am User: ID: rhendrix Layout: DRAINAGE AREA MAP File: P:\1877\33384-Green Mountain Substation\Design\Exhibit\06-DAM-33384.dwg Layout name: DRAINAGE AREA MAP

NOTE:
ALL AREAS WITHIN PROPERTY ARE EXPECTED TO BE DISTURBED AND STABILIZED. EXAMPLES OF ACCEPTABLE TEMPORARY AND PERMANENT SOIL STABILIZATION MEASURES ARE ESTABLISHMENT OF TEMPORARY VEGETATION, ESTABLISHMENT OF PERMANENT VEGETATION, MULCHING, GEOTEXTILES, SOIL STABILIZATION, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, OR PRESERVATION OF MATURE VEGETATION. THE SOIL STABILIZATION METHOD USED IN THIS PROJECT SHALL BE AN APPROVED METHOD WITHIN THE TCEQ TECHNICAL GUIDANCE MANUAL AND MUST BE APPROVED BY MBC ENGINEERS BEFORE IT IS IMPLEMENTED IN THE PROJECT.

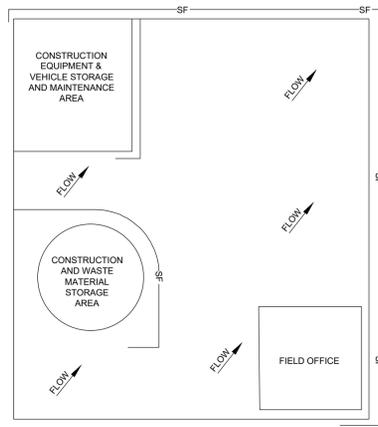
SILT FENCING SHALL FOLLOW LIMITS OF CONSTRUCTION UNLESS SHOWN OTHERWISE.

"IF DISTURBED AREA IS NOT TO BE WORKED ON FOR MORE THAN 14 DAYS, DISTURBED AREA NEEDS TO BE STABILIZED BY REVEGETATION, MULCH, TARP OR REVEGETATION MATTING.

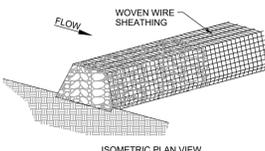
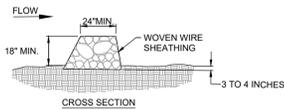
ENVIRONMENTAL INSPECTOR HAS THE AUTHORITY TO ADD/OR MODIFY EROSION/SEDIMENTATION CONTROLS ON SITE TO KEEP PROJECT IN COMPLIANCE WITH THE CITY OF SAN ANTONIO RULES AND REGULATIONS.

CONTRACTOR SHALL UTILIZE DUST CONTROL MEASURES DURING THE SITE CONSTRUCTION SUCH AS IRRIGATION TRUCKS AND MULCHING, OR AS DIRECTED BY THE ENVIRONMENTAL INSPECTOR.

THE CONTRACTOR WILL CLEAN UP SPOILS THAT MIGRATE ONTO THE ROADS A MINIMUM OF ONCE DAILY.



TYP. CONSTRUCTION STAGING AREA DTL.
NOT TO SCALE



ROCK BERM
NOT TO SCALE

ROCK BERM NOTES

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

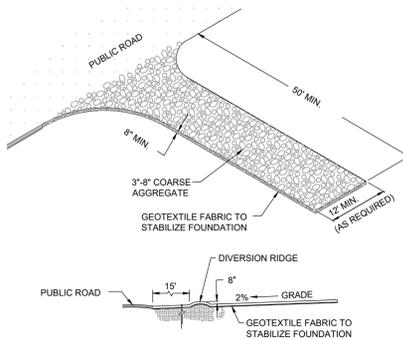
**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER POLLUTION ABATEMENT PLAN
GENERAL CONSTRUCTION NOTES**

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY REGULATED ACTIVITIES. THIS NOTICE MUST INCLUDE:
 - THE NAME OF THE APPROVED PROJECT;
 - THE ACTIVITY START DATE; AND
 - THE CONTACT INFORMATION OF THE PRIME CONTRACTOR.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROJECT MUST BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED WATER POLLUTION ABATEMENT PLAN (WPAP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS ARE REQUIRED TO KEEP ON-SITE COPIES OF THE APPROVED PLAN AND APPROVAL LETTER.
3. IF ANY SENSITIVE FEATURE(S) (CAVES, SOLUTION CAVITY, SINK HOLE, ETC.) IS DISCOVERED DURING CONSTRUCTION, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE FEATURE MUST BE SUSPENDED IMMEDIATELY. THE APPROPRIATE TCEQ REGIONAL OFFICE MUST BE IMMEDIATELY NOTIFIED OF ANY SENSITIVE FEATURES ENCOUNTERED DURING CONSTRUCTION. CONSTRUCTION ACTIVITIES MAY NOT BE RESUMED UNTIL THE TCEQ HAS REVIEWED AND APPROVED THE APPROPRIATE PROTECTIVE MEASURES IN ORDER TO PROTECT ANY SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY.
4. NO TEMPORARY OR PERMANENT HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF A WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM WELL, OR SENSITIVE FEATURE.
5. PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY, ALL TEMPORARY EROSION AND SEDIMENTATION (E&S) CONTROL MEASURES MUST BE PROPERLY INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED PLANS AND MANUFACTURERS SPECIFICATIONS. IF INSPECTIONS INDICATE A CONTROL HAS BEEN USED INAPPROPRIATELY, OR INCORRECTLY, THE APPLICANT MUST REPLACE

OR MODIFY THE CONTROL FOR SITE SITUATIONS. THESE CONTROLS MUST REMAIN IN PLACE UNTIL THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED.

6. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE THE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
7. SEDIMENT MUST BE REMOVED FROM THE SEDIMENT TRAPS OR SEDIMENTATION BASINS NOT LATER THAN WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
8. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFF-SITE.
9. ALL SPOILS (EXCAVATED MATERIAL) GENERATED FROM THE PROJECT SITE MUST BE STORED ON-SITE WITH PROPER E&S CONTROLS FOR STORAGE OR DISPOSAL OF SPOILS AT ANOTHER SITE ON THE EDWARDS AQUIFER RECHARGE ZONE. THE OWNER OF THE SITE MUST RECEIVE APPROVAL OF A WATER POLLUTION ABATEMENT PLAN FOR THE PLACEMENT OF FILL MATERIAL OR MASS GRADING PRIOR TO THE PLACEMENT OF SPOILS AT THE OTHER SITE.

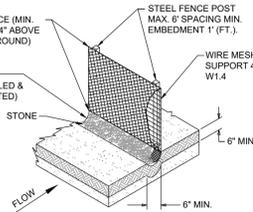
SAN ANTONIO REGIONAL OFFICE
14250 JUDSON ROAD
SAN ANTONIO, TEXAS 78233-4480
PHONE (210) 490-3096
FAX (210) 445-4329
10. IF PORTIONS OF THE SITE WILL HAVE A TEMPORARY OR PERMANENT CEASE IN CONSTRUCTION ACTIVITY LASTING LONGER THAN 14 DAYS, SOIL STABILIZATION IN THOSE AREAS SHALL BE INITIATED AS SOON AS POSSIBLE PRIOR TO THE 14TH DAY OF INACTIVITY. IF ACTIVITY WILL RESUME PRIOR TO THE 21ST DAY, STABILIZATION MEASURES ARE NOT REQUIRED. IF DROUGHT CONDITIONS OR INCLEMENT WEATHER PREVENT ACTION BY THE 14TH DAY, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS POSSIBLE.
11. THE FOLLOWING RECORDS SHALL BE MAINTAINED AND MADE AVAILABLE TO THE TCEQ UPON REQUEST:
 - THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR;
 - THE DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND
 - THE DATES WHEN STABILIZATION MEASURES ARE INITIATED.



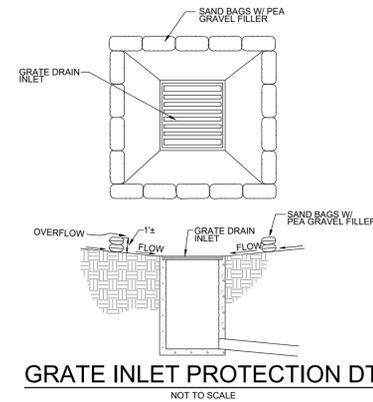
STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE

**STABILIZED CONSTRUCTION ENTRANCE (S.C.E.)
INSTALLATION OF CONSTRUCTION ENTRANCE:**

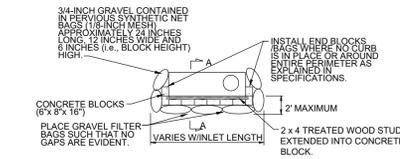
1. CLEAR THE AREA OF DEBRIS, ROCKS, OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
2. GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE. RUNOFF FROM THE S.C.E. ONTO A PUBLIC STREET WILL NOT BE ACCEPTED.
3. PLACE ROCK AS REQUIRED (3'-5" OPEN GRADED CLEAN CRUSHED STONE)
4. SIDE CONTAMINANT, AT THE CONTRACTOR'S DISCRETION, IS SUGGESTED. THE SPECIFIED 8" THICKNESS OF CRUSHED STONE MUST BE MAINTAINED.



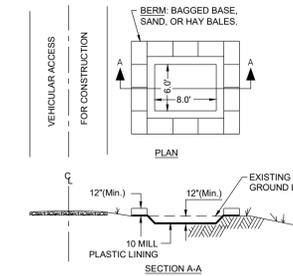
TYPICAL SILT FENCE DETAIL
NOT TO SCALE



GRATE INLET PROTECTION DTL.
NOT TO SCALE



CURB INLET GRAVEL FILTER
NOT TO SCALE



CONCRETE TRUCK WASHOUT PIT
NOT TO SCALE

WASHOUT PIT GENERAL NOTES:

DETAILS ILLUSTRATE MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.

IF HAY BALES ARE USED FOR BERM, THEY SHALL BE ANCHORED IN PLACE WITH 2 REBARS PER BALE, DRIVEN INTO GROUND ENOUGH TO PROVIDE REASONABLE STABILITY.

WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.

WASHOUT PIT SHALL NOT BE LOCATED IN AREA SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.

PIT SHALL NOT BE LOCATED OVER OR IN THE IMMEDIATE VICINITY OF A FEATURE OF GROUNDWATER RECHARGE.

SWPPP GENERAL NOTES:

1. DO NOT DISTURB VEGETATED AREAS (TREES, GRASS, WEEDS, BRUSH, ETC.) ANY MORE THAN NECESSARY FOR CONSTRUCTION.
2. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASHOUT PIT, AND CONSTRUCTION EQUIPMENT AND MATERIAL STORAGE YARD TO BE DETERMINED IN THE FIELD.
3. STORM WATER POLLUTION PREVENTION CONTROLS MAY NEED TO BE MODIFIED IN THE FIELD TO ACCOMPLISH THE DESIRED EFFECT. ALL MODIFICATIONS ARE TO BE NOTED ON THIS EXHIBIT AND SIGNED AND DATED BY THE RESPONSIBLE PARTY.
4. RESTRICT ENTRY/EXIT TO THE PROJECT SITE TO DESIGNATED LOCATIONS BY USE OF ADEQUATE FENCING, IF NECESSARY.
5. ALL STORM WATER POLLUTION PREVENTION CONTROLS ARE TO BE MAINTAINED AND IN WORKING CONDITIONS AT ALL TIMES.
6. FOR A COMPLETE LISTING OF TEMPORARY STORM WATER POLLUTION PREVENTION CONTROLS REFER TO THE TPDES STORM WATER POLLUTION PREVENTION PLAN.
7. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES FOR VISUAL CLARITY.
8. AS SOON AS PRACTICAL, ALL DISTURBED SOIL THAT WILL NOT BE COVERED BY IMPERVIOUS COVER SUCH AS PARKWAY AREAS, EASEMENT AREAS, EMBANKMENT SLOPES, ETC. WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
9. BEST MANAGEMENT PRACTICES MAY BE INSTALLED IN STAGES TO COINCIDE WITH THE DISTURBANCE OF UPGRADEMENT AREAS.
10. BEST MANAGEMENT PRACTICES MAY BE REMOVED IN STAGES ONCE THE WATER SHED FOR THAT PORTION CONTROLLED BY THE BEST MANAGEMENT PRACTICES HAS BEEN STABILIZED IN ACCORDANCE WITH TPDES REQUIREMENTS.
11. UPON COMPLETION OF THE PROJECT AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT & EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
12. GRADING SHOWN HEREON IS APPROXIMATE ONLY. REFER TO DETAILED GRADING PLANS INCLUDED IN THE CONSTRUCTION DOCUMENTS.

GENERAL NOTES:

1. STORM WATER POLLUTION PREVENTION STRUCTURES SHOULD BE CONSTRUCTED WITHIN THE SITE BOUNDARIES. SOME OF THESE FEATURES MAY BE SHOWN OUTSIDE THE SITE BOUNDARIES ON THIS PLAN FOR VISUAL CLARITY.
2. AS SOON AS PRACTICAL, ALL DISTURBED SOIL WILL BE STABILIZED PER APPLICABLE PROJECT SPECIFICATIONS.
3. ALL TEMPORARY BMP'S WILL BE REMOVED ONCE WATERSHED IS STABILIZED.
4. MUD OR DIRT INADVERTENTLY TRACKED OFF-SITE AND ONTO EXISTING STREETS SHALL BE REMOVED IMMEDIATELY BY HAND OR MECHANICAL BROOM SWEEPING.
5. UPON COMPLETION OF THE PROJECT AND BEFORE FINAL PAYMENT IS ISSUED, CONTRACTOR SHALL REMOVE ALL SEDIMENT AND EROSION CONTROL MEASURES, PAYING SPECIAL ATTENTION TO ROCK BERMS IN DRAINAGE FEATURES.
6. PRIOR TO INITIATION OF SUBSEQUENT PHASES OF CONSTRUCTION, TEMPORARY BMP'S INCLUDING SILT FENCING, CONSTRUCTION ENTRANCE/EXIT, AND CONSTRUCTION STAGING AREA SHALL BE FIELD LOCATED AS APPROPRIATE FOR THE AREA OF CONSTRUCTION.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND REMOVAL OF TEMPORARY POLLUTION ABATEMENT MEASURES THAT CONFLICT WITH SITE IMPROVEMENTS SUCH AS LANDSCAPING AND FENCES SO AS TO PREVENT SEDIMENT FROM ESCAPING THE PROJECT SITE.
8. CONTRACTOR TO NOTE THAT SITE IS SUBJECT TO A TPDES SWPPP AND A WATER POLLUTION ABATEMENT PLAN. ALL NECESSARY REPORTS AND DOCUMENTS TO BE MAINTAINED ON-SITE.

TEMPORARY POLLUTION ABATEMENT NOTES:

1. CONSTRUCTION OF PARKING LOT AND DRAINAGE STRUCTURES WILL PRECEDE BUILDING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PLACING SILT FENCE ALONG THE DOWN GRADIENT SIDE OF THE DISTURBED AREA PERPENDICULAR TO THE DRAINAGE FLOW.
2. CONSTRUCTION OF BUILDINGS WITHIN THE DEVELOPMENT MAY NOT BE CONTINUOUS. THE CONTRACTOR IS RESPONSIBLE FOR PLACING SILT FENCE ALONG THE DOWN GRADIENT SIDE OF EACH PAD DURING BUILDING CONSTRUCTION. ALL SILT FENCE SHALL BE PLACED PERPENDICULAR TO DRAINAGE FLOW AS SHOWN ON EXHIBIT 3.
3. ROCK BERMS SHALL BE PLACED IN AREAS WHERE DRAINAGE FLOW IS CONCENTRATED DUE TO NATURAL CONDITIONS OR CONSTRUCTION ACTIVITIES SUCH AS AT DRAINAGE STRUCTURES. THESE BERMS WILL BE MAINTAINED UNTIL THEY ARE NO LONGER NEEDED OR UNTIL THEY ARE REPLACED WITH PERMANENT POLLUTION ABATEMENT MEASURES.



PRIMARY CONTACT:
RICHARD HENDRIX, P.E.

MACINA • BOSE • COPELAND & ASSOC., INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1035 Central Parkway North, San Antonio, Texas 78232
(210) 545-1122 Fax (210) 545-9302 www.mbcengineers.com
FIRM REGISTRATION NUMBER: T.B.P.E. F-784 & T.B.P.L.S. 10011700



GREEN MOUNTAIN SUBSTATION
19365 MARBACH LANE
SAN ANTONIO, TEXAS
EROSION CONTROL DETAILS



| REVISIONS: | DATE | NO. | DESCRIPTION | BY |
|------------|------|-----|-------------|----|
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|----------|------------|
| PLAT ID# | RH |
| DESIGN | GG |
| DRAWN | DLA |
| CHECKED | 1877-33384 |
| DATE | |

JOB NO.

1877-33384
C04.01

– **Permanent Stormwater Section (TCEQ-0600), if necessary**

Attachment A - 20% or Less Impervious Cover Waiver, (if project is multi-family residential, a school, or a small business and 20% or less impervious cover is proposed for the site)

Attachment B - BMPs for Upgradient Stormwater

Attachment C - BMPs for On-site Stormwater

Attachment D - BMPs for Surface Streams

Attachment E - Request to Seal Features, if sealing a feature

Attachment F - Construction Plans

Attachment G - Inspection, Maintenance, Repair and Retrofit Plan

Attachment H - Pilot-Scale Field Testing Plan, if BMPs not based on

Complying with the Edwards Aquifer Rules: Technical Guidance for BMPs

Attachment I - Measures for Minimizing Surface Stream Contamination

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: Richard W. Hendrix, P.E.

Date: 5/25/2023

Signature of Customer/Agent



Regulated Entity Name: CPS Green Mountain Substation

Permanent Best Management Practices (BMPs)

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

- Permanent BMPs and measures must be implemented to control the discharge of pollution from regulated activities after the completion of construction.
 N/A
- 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

FORM 0600 ATTACHMENTS

ATTACHMENT “A” – 20% or less Impervious Cover Waiver

Not Applicable

ATTACHMENT “B” – BMP For Upgradient Storm Water

No storm water flow originates upgradient from the site.

ATTACHMENT “C” – BMPs for On-site Storm Water

The Green Mountain Substation is a 3.399 acre site that has existing impervious cover on 91.64% of the site. The proposed installation of the piers and slab will be placed on existing impervious cover and will not result in an increase in onsite impervious cover. No permanent BMPs are proposed with the project.

ATTACHMENT “D” – BMPs for Surface Streams

There are no permanent BMPs proposed.

ATTACHMENT “E”- Request to Seal Features

There are no sensitive features that will need to be sealed.

ATTACHMENT “F”- Construction Plans

No permanent BMPs are proposed.

ATTACHMENT "G" Maintenance Plan and Schedule for Permanent BMPs

PROJECT NAME CPS Green Mountain Substation

ADDRESS 19365 Marbach Ln

CITY, STATE ZIP San Antonio, TX 78266

After Construction

No measures are proposed to prevent pollution of storm water originating on-site or up-gradient from the project site and potentially flowing across and off the site after construction.

Responsible Party for Maintenance CPS Energy

Address PO Box 1771

City, State Zip San Antonio, TX 78296

Telephone Number (210) 305-0397

Signature of Responsible Party _____

Print name of Responsible Party Scott Lyssy

THE STATE OF _____ §

County of _____ §

BEFORE ME, the undersigned authority, on this day personally appeared 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 ___ day of _____, _____.

NOTARY PUBLIC

Typed or Printed Name of Notary

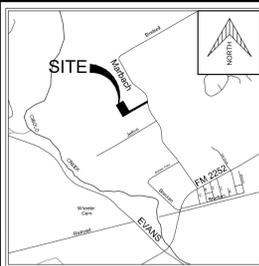
MY COMMISSION EXPIRES: _____

ATTACHMENT “H” – Pilot Scale Field Testing Plan

Not Applicable

ATTACHMENT “I” – Measure for Minimizing Surface Stream Contamination.

There will be no appreciable increase in velocity that would cause surface stream contamination associated with this development. Storm water by-pass structures have been designed for the 25 year storm for the basin to surface drain storm water run-off. Energy dissipaters have been designed at the outlet structure in order to further minimize the possibility for erosion and surface stream contamination.



LOCATION MAP
NOT TO SCALE

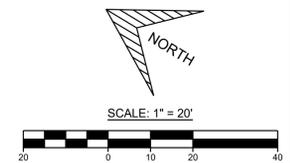
IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY PLAN AND CONSIDER EXISTING AND PROPOSED DRAINAGE PATTERNS DURING THE CONSTRUCTION OF THE PROJECT. IN ORDER TO ACCOMPLISH THIS, IT MAY BE NECESSARY TO PHASE THE GRADING, CONSTRUCT TEMPORARY BERMS AND SWALES WHILE FACTORING IN SURROUNDING CONDITIONS TO PROPERLY DIRECT AND CONTROL SURFACE RUNOFF. ADDITIONALLY, THE CONTRACTOR SHOULD TAKE INTO ACCOUNT THE TIMING OF CONSTRUCTING PONDS, CHANNELS AND STORM DRAINAGE SYSTEMS.

GRADING NOTES:
CONTRACTOR TO MAINTAIN POSITIVE SITE DRAINAGE AWAY FROM BUILDING AT ALL TIMES.

NOTE:
RE-VEGETATE ALL DISTURBED AREAS BY SEEDING WITH A COMBINATION OF BERMUDA AND WINTER RYE. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY IRRIGATION AND OR WATERING UNTIL 80% GROWTH HAS BEEN ESTABLISHED.

ADA NOTE:
ALL SIDEWALKS, CURBS, RAMPS, AND DRIVE APPROACHES IN THE RIGHT OF WAY SHALL BE IN COMPLIANCE WITH CURRENT TEXAS ACCESSIBILITY STANDARDS (TAS), BEXAR COUNTY AND CITY OF SAN ANTONIO DESIGN STANDARDS PRIOR TO FINAL INSPECTION.

NOTE:
ALL ACCESSIBLE ROUTES SHALL HAVE A MAX CROSS SLOPE OF 2%. THE ACCESSIBLE ROUTE SHALL NOT EXCEED 8.33% RUNNING SLOPE. HANDRAILS SHALL BE INSTALLED ON RUNNING SLOPES GREATER THAN 5%.



PRIMARY CONTACT:
RICHARD HENDRIX, P.E.

MACINA • BOSE • COPELAND & ASSOC., INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1035 Central Parkway North, San Antonio, Texas 78232
(210) 545-1122 Fax (210) 545-9002 www.mbcenginereers.com
FIRM REGISTRATION NUMBER: T.B.P.E. F-784 & T.B.P.L.S. 10011700



GREEN MOUNTAIN SUBSTATION
19365 MARBACH LANE
SAN ANTONIO, TEXAS
OVERALL SITE PLAN'



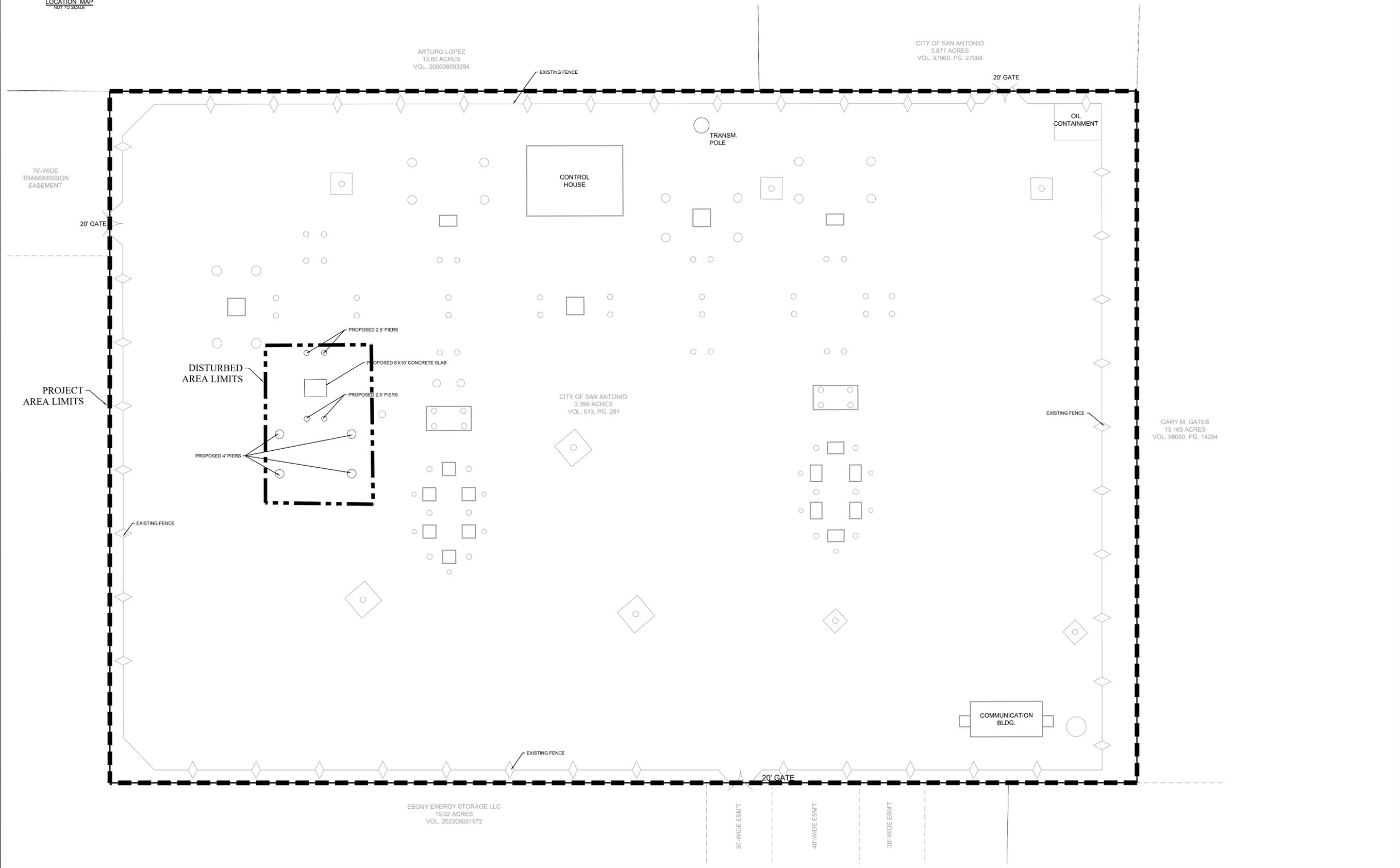
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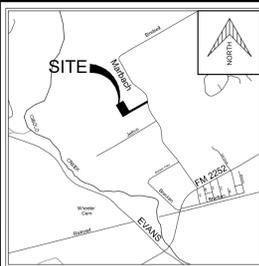
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EX-05

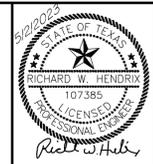
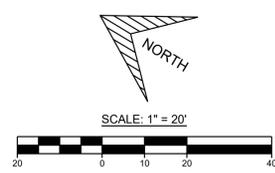
Date: May 02, 2023, 1:17pm User: ID: rhendrix Layout: OVERALL SITE PLAN
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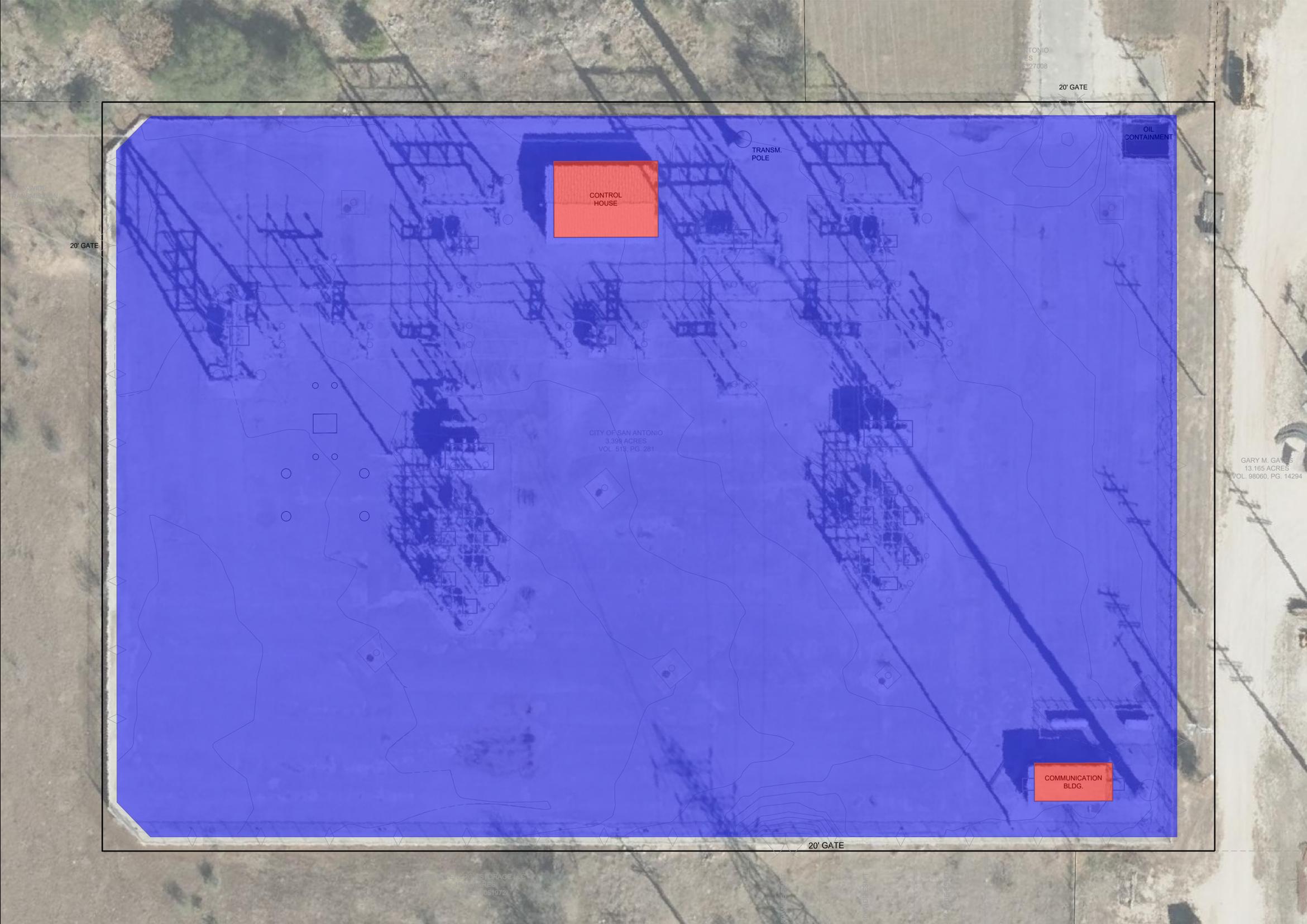


| IMPERVIOUS COVER | |
|------------------------------------|-----------------------------|
| TOTAL SITE AREA | 148,049 SQ. FT. 3.399 ACRES |
| IMPERVIOUS COVER AREA (BUILDINGS) | 1,938 SQ. FT. |
| IMPERVIOUS COVER AREA (PARKING) | 133,732 SQ. FT. |
| IMPERVIOUS COVER AREA (SIDEWALK) | 0 SQ. FT. |
| IMPERVIOUS COVER AREA (TOTAL SITE) | 135,669 SQ. FT. 3.115 ACRES |
| IMPERVIOUS COVER SHOWN % | 91.64% |

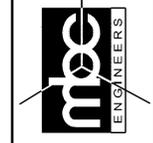
SITE PLAN IS FOR CONCEPTUAL USE ONLY.



PRIMARY CONTACT:
RICHARD HENDRIX, P.E.



MACINA • BOSE • COPELAND & ASSOC., INC.
CONSULTING ENGINEERS AND LAND SURVEYORS
1035 Central Parkway North, San Antonio, Texas 78232
(210) 545-1122 Fax (210) 545-9002 www.mbcengr.com
FIRM REGISTRATION NUMBER: T.B.P.E. F-784 & T.B.P.L.S. 10011700



GREEN MOUNTAIN SUBSTATION
19365 MARBACH LANE
SAN ANTONIO, TEXAS
IMPERVIOUS COVER



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1877-33384

EX-07

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- **Agent Authorization Form (TCEQ-0599), if application submitted by agent**

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

I _____ Ricardo Renteria _____
Print Name
Sr. Director Substation & Transmission
_____ Title - Owner/President/Other _____
of _____ CPS Energy _____
Corporation/Partnership/Entity Name
have authorized _____ Richard W. Hendrix, P.E. _____
Print Name of Agent/Engineer
of _____ MBC Engineers _____
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

5/10/2023

Date

THE STATE OF _____ §

County of _____ §

BEFORE ME, the undersigned authority, on this day personally appeared _____ 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 ____ day of _____, _____.

NOTARY PUBLIC

Typed or Printed Name of Notary

MY COMMISSION EXPIRES: _____

- **Application Fee Form (TCEQ-0574)**
- **Check Payable to the “Texas Commission on Environmental Quality”**

Application Fee Form

Texas Commission on Environmental Quality

Name of Proposed Regulated Entity: CPS Green Mountain Substation

Regulated Entity Location: 19365 Marbach Lane San Antonio, Texas 78266

Name of Customer: CPS Energy

Contact Person: Scott Lyssy

Phone: (210) 305-0397

Customer Reference Number (if issued): CN 600129019

Regulated Entity Reference Number (if issued): RN 102768264

Austin Regional Office (3373)

Hays

Travis

Williamson

San Antonio Regional Office (3362)

Bexar

Medina

Uvalde

Comal

Kinney

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

Austin Regional Office

San Antonio Regional Office

Mailed to: TCEQ - Cashier

Overnight Delivery to: TCEQ - Cashier

Revenues Section

12100 Park 35 Circle

Mail Code 214

Building A, 3rd Floor

P.O. Box 13088

Austin, TX 78753

Austin, TX 78711-3088

(512)239-0357

Site Location (Check All That Apply):

Recharge Zone

Contributing Zone

Transition Zone

| <i>Type of Plan</i> | <i>Size</i> | <i>Fee Due</i> |
|---|-------------|----------------|
| Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling | Acres | \$ |
| Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks | 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 | \$ 500.00 |
| Extension of Time | Each | \$ |

Signature: 

Date: 5/25/2023

Application Fee Schedule

Texas Commission on Environmental Quality

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

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

Extension of Time Requests

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

– **Core Data Form (TCEQ-10400)**



TCEQ Core Data Form

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

SECTION I: General Information

| | | |
|--|---|---|
| 1. Reason for Submission (If other is checked please describe in space provided.) | | |
| <input checked="" type="checkbox"/> New Permit, Registration or Authorization (Core Data Form should be submitted with the program application.) | | |
| <input type="checkbox"/> Renewal (Core Data Form should be submitted with the renewal form) | <input type="checkbox"/> Other | |
| 2. Customer Reference Number (if issued) | Follow this link to search for CN or RN numbers in Central Registry** | 3. Regulated Entity Reference Number (if issued) |
| CN 600129019 | | RN 102768264 |

SECTION II: Customer Information

| | | | | | |
|---|--|--|------------------------------|--|--|
| 4. General Customer Information | | 5. Effective Date for Customer Information Updates (mm/dd/yyyy) | | 6/12/2016 | |
| <input type="checkbox"/> New Customer <input type="checkbox"/> Update to Customer Information <input type="checkbox"/> Change in Regulated Entity Ownership <input type="checkbox"/> Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts) | | | | | |
| <i>The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).</i> | | | | | |
| 6. Customer Legal Name (If an individual, print last name first: eg: Doe, John) | | | | <i>If new Customer, enter previous Customer below:</i> | |
| City Public Service of San Antonio | | | | | |
| 7. TX SOS/CPA Filing Number | | 8. TX State Tax ID (11 digits) | | 9. Federal Tax ID | 10. DUNS Number (if applicable) |
| | | 17460020716 | | (9 digits) | |
| | | | | 746002071 | |
| 11. Type of Customer: | | <input type="checkbox"/> Corporation | | <input type="checkbox"/> Individual | |
| Government: <input checked="" type="checkbox"/> City <input type="checkbox"/> County <input type="checkbox"/> Federal <input type="checkbox"/> Local <input type="checkbox"/> State <input type="checkbox"/> Other | | | | Partnership: <input type="checkbox"/> General <input type="checkbox"/> Limited | |
| | | | | <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Other: | |
| 12. Number of Employees | | | | 13. Independently Owned and Operated? | |
| <input type="checkbox"/> 0-20 <input type="checkbox"/> 21-100 <input type="checkbox"/> 101-250 <input type="checkbox"/> 251-500 <input checked="" type="checkbox"/> 501 and higher | | | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 14. Customer Role (Proposed or Actual) – as it relates to the Regulated Entity listed on this form. Please check one of the following | | | | | |
| <input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator <input type="checkbox"/> Owner & Operator <input type="checkbox"/> Other: <input type="checkbox"/> Occupational Licensee <input type="checkbox"/> Responsible Party <input type="checkbox"/> VCP/BSA Applicant | | | | | |
| 15. Mailing Address: | | PO Box 1771 | | | |
| | | | | | |
| City | | San Antonio | State | TX | ZIP |
| | | | | 78296 | ZIP + 4 |
| | | | | | |
| 16. Country Mailing Information (if outside USA) | | | | 17. E-Mail Address (if applicable) | |
| | | | | sdlyssy@cpsenergy.com | |
| 18. Telephone Number | | | 19. Extension or Code | | 20. Fax Number (if applicable) |
| | | | | | |

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

CPS Green Mountain Substation

23. Street Address of the Regulated Entity:(No PO Boxes)

19365 Marbach Ln

| City | San Antonio | State | TX | ZIP | 78266 | ZIP + 4 | 2267 |
|------|-------------|-------|----|-----|-------|---------|------|
|------|-------------|-------|----|-----|-------|---------|------|

24. County

Bexar

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

25. Description to**Physical Location:**

SW side of Marbach Lane NW of FM 2252

26. Nearest City**State****Nearest ZIP Code**

San Antonio

TX

78266

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:

29.61778

28. Longitude (W) In Decimal:

-98.32778

Degrees

Minutes

Seconds

Degrees

Minutes

Seconds

29

37

4.007

98

19

40.008

29. Primary SIC Code**30. Secondary SIC Code****31. Primary NAICS Code****32. Secondary NAICS Code**

(4 digits)

(4 digits)

(5 or 6 digits)

(5 or 6 digits)

4911

1623

221121

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

Electric bulk power transmission

34. Mailing

PO Box 1771

Address:

| City | San Antonio | State | TX | ZIP | 78296 | ZIP + 4 |
|------|-------------|-------|----|-----|-------|---------|
|------|-------------|-------|----|-----|-------|---------|

35. E-Mail Address:

sdlyssy@cpsenergy.com

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

(210) 305-397

() -

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

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

SECTION IV: Preparer Information

| | | | |
|----------------------|-----------------|----------------|---------------------------|
| 40. Name: | Richard Hendrix | 41. Title: | Project Manager |
| 42. Telephone Number | 43. Ext./Code | 44. Fax Number | 45. E-Mail Address |
| (210) 545-1122 | | () - | rhendrix@mbcengineers.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: | MBC Engineers | Job Title: | Project Manager |
| Name (In Print): | RICHARD HENDRIX | Phone: | (210) 545 1122 |
| Signature: |  | Date: | 5/25/2023 |