CONTRIBUTING ZONE PLAN

FOR

Silver Creek Subdivision

Silver Creek Rd.
Dripping Springs, Texas 78620

Prepared for:
Dripping Springs Owner, LLC
3990 Hillsboro Pike, Suite 400
Nashville, TN 37215

For Review by:

Texas Commission on Environmental Quality

Prepared by:

Doucet & Associates, Inc.
TBPE Firm #3937
SUMITA KADARIYA, P.E.
7401B Highway 71 W., Ste. 160
Austin, Texas 78735

Engineer's Certification:
To the best of my knowledge, this application and all attachments accurately reflect all information requested concerning the proposed regulated activities and methods to protect the Edwards Aquifer and were prepared in compliance with the rules of TAC Title 30, Part 1, Chapter 213, Subchapter B.

Sumita

Sumita Kadariya, P.E.

April 28, 2023
D&A Project No. 2408-002

4/28/2023

Contributing Zone Plan

Table of Contents

SECTION 1

EDWARDS AQUIFER APPLICATION COVERPAGE

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: Silver Creek Subdivision						**2. Regulated Entity No.:**			
3. Customer Name: Dripping Springs Owner, LLC						**4. Customer No.:**			
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):**		70 acres	
9. Application Fee:	$6,500		**10. Permanent BMP(s):**			Vegetated filter strips, grassy swales			
11. SCS (Linear Ft.):	0		**12. AST/UST (No. Tanks):**			N/A			
13. County:	Hays		**14. Watershed:**			Barton 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.)	X	___	___
Region (1 req.)	X	___	___
County(ies)	___	___	___
Groundwater Conservation District(s)	___Edwards Aquifer Authority ___Barton Springs/ Edwards Aquifer ___Hays Trinity ___Plum Creek	___Barton Springs/ Edwards Aquifer	NA
City(ies) Jurisdiction	___Austin ___Buda ___Dripping Springs ___Kyle ___Mountain City ___San Marcos ___Wimberley ___Woodcreek	___Austin ___Bee Cave ___Pflugerville ___Rollingwood ___Round Rock ___Sunset Valley ___West Lake Hills	___Austin ___Cedar Park ___Florence ___Georgetown ___Jerrell ___Leander ___Liberty Hill ___Pflugerville ___Round Rock

San Antonio Region					
County:	**Bexar**	**Comal**	**Kinney**	**Medina**	**Uvalde**
Original (1 req.)	___	___	___	___	___
Region (1 req.)	___	___	___	___	___
County(ies)	___	___	___	___	___
Groundwater Conservation District(s)	___ Edwards Aquifer Authority ___Trinity-Glen Rose	___Edwards Aquifer Authority	___Kinney	___EAA ___Medina	___EAA ___Uvalde
City(ies) Jurisdiction	___Castle Hills ___Fair Oaks Ranch ___Helotes ___Hill Country Village ___Hollywood Park ___San Antonio (SAWS) ___Shavano Park	___Bulverde ___Fair Oaks Ranch ___Garden Ridge ___New Braunfels ___Schertz	NA	___San Antonio ETJ (SAWS)	NA

I certify that to the best of my knowledge, that the application is complete and accurate. This application is hereby submitted to TCEQ for administrative review and technical review. Sumita Kadariya, P.E.
Print Name of Customer/Authorized Agent Sumita 4/28/2023
Signature of Customer/Authorized Agent Date

FOR TCEQ INTERNAL USE ONLY				
Date(s)Reviewed:		Date Administratively Complete:		
Received From:		Correct Number of Copies:		
Received By:		Distribution Date:		
EAPP File Number:		Complex:		
Admin. Review(s) (No.):		No. AR Rounds:		
Delinquent Fees (Y/N):		Review Time Spent:		
Lat./Long. Verified:		SOS Customer Verification:		
Agent Authorization Complete/Notarized (Y/N):		Fee Check:	Payable to TCEQ (Y/N):	
Core Data Form Complete (Y/N):			Signed (Y/N):	
Core Data Form Incomplete Nos.:			Less than 90 days old (Y/N):	

SECTION 2

CONTRIBUTING ZONE PLAN
(TCEQ-10257)

Contributing Zone Plan Application

Texas Commission on Environmental Quality

for Regulated Activities on the Contributing Zone to the Edwards Aquifer and Relating to 30 TAC §213.24(1), 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.

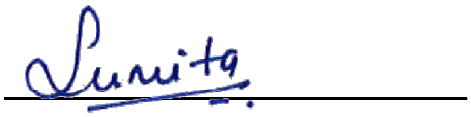
Signature

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 **Contributing Zone Plan Application** is hereby submitted for TCEQ review and Executive Director approval. The application was prepared by:

Print Name of Customer/Agent: Sumita Kadariya, P.E.

Date: April 28, 2023

Signature of Customer/Agent:



Regulated Entity Name: Silver Creek Subdivision

Project Information

1. County: Hays
2. Stream Basin: Barton Creek
3. Groundwater Conservation District (if applicable): Hays-Trinity Groundwater Conservation District
4. Customer (Applicant):

   Contact Person: Brian Sewell
   Entity: Dripping Springs Owner, LLC
   Mailing Address: 3990 Hillsboro Pike, Suite 400
   City, State: Nashville, TN Zip: 37215
   Telephone: 615-778-2889 Fax: _____

Email Address: brian.sewell@southernland.com

5. Agent/Representative (If any):

Contact Person: Sumita Kadariya, P.E.
Entity: Doucet
Mailing Address: 7401B Highway 71 W, Ste. 160
City, State: Austin, TX Zip: 78735
Telephone: 512-774-6152 Fax: 800-587-2817
Email Address: skadariya@doucetengineers.com

6. 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 Dripping Springs, TX.
☐ The project site is not located within any city's limits or ETJ.

7. ☒ The location of the project site is described below. Sufficient detail and clarity has been provided so that the TCEQ's Regional staff can easily locate the project and site boundaries for a field investigation.

Silver Creek Rd., approximately 4,100 ft. southwest of the intersection with Fitzhugh Rd., Dripping Springs, TX 78620

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

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

☒ Project site boundaries.
☒ USGS Quadrangle Name(s).

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

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

11. 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/Not cleared)
☐ Other: _____

12. The type of project is:

☒ Residential: # of Lots: 28
☒ Residential: # of Living Unit Equivalents: 30
☐ Commercial
☐ Industrial
☐ Other: _____

13. Total project area (size of site): 70 Acres

    Total disturbed area: 9.85 Acres

14. Estimated projected population: 112

15. The amount and type of impervious cover expected after construction is complete is shown below:

Table 1 - Impervious Cover

Impervious Cover of Proposed Project	***Sq. Ft.***	***Sq. Ft./Acre***	***Acres***
Structures/Rooftops	464,240	÷ 43,560 =	10.66
Parking		÷ 43,560 =	
Other paved surfaces	101,104	÷ 43,560 =	2.32
Total Impervious Cover	565,344	÷ 43,560 =	12.98

Total Impervious Cover 12.98 **÷ Total Acreage** 70 **X 100 =** 18.54**% Impervious Cover**

16. ☒ **Attachment D - Factors Affecting Surface Water Quality**. A detailed description of all factors that could affect surface water quality is attached. If applicable, this includes the location and description of any discharge associated with industrial activity other than construction.

17. ☒ Only inert materials as defined by 30 TAC 330.2 will be used as fill material.

For Road Projects Only

Complete questions 18 - 23 if this application is exclusively for a road project.

☒ N/A

18. Type of project:

☐ TXDOT road project.
☐ County road or roads built to county specifications.
☐ City thoroughfare or roads to be dedicated to a municipality.
☐ Street or road providing access to private driveways.

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

☐ Concrete
☐ Asphaltic concrete pavement
☐ Other: _____

20. Right of Way (R.O.W.):

Length of R.O.W.: _____ feet.
Width of R.O.W.: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.

21. Pavement Area:

Length of pavement area: _____ feet.
Width of pavement area: _____ feet.
L x W = _____Ft^2 ÷ 43,560 Ft^2/Acre = _____ acres.
Pavement area _____ acres ÷ R.O.W. area _____ acres x 100 = _____% impervious cover.

22. ☐ A rest stop will be included in this project.

☐ A rest stop will not be included in this project.

23. ☐ Maintenance and repair of existing roadways that do not require approval from the TCEQ Executive Director. Modifications to existing roadways such as widening roads/adding shoulders totaling more than one-half (1/2) the width of one (1) existing lane require prior approval from the TCEQ.

Stormwater to be generated by the Proposed Project

24. ☒ **Attachment E - Volume and Character of Stormwater**. A detailed description of the volume (quantity) and character (quality) of the stormwater runoff which is expected to occur from the proposed project is attached. The estimates of stormwater runoff quality and quantity are based on area and type of impervious cover. Include the runoff coefficient of the site for both pre-construction and post-construction conditions.

Wastewater to be generated by the Proposed Project

25. ☒ Wastewater is to be discharged in the contributing zone. Requirements under 30 TAC §213.6(c) relating to Wastewater Treatment and Disposal Systems have been satisfied.

☐ N/A

26. Wastewater will be disposed of by:

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

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

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

☐ Sewage Collection System (Sewer Lines):

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

☐ Existing.
☐ Proposed.

☐ N/A

Permanent Aboveground Storage Tanks(ASTs) ≥ 500 Gallons

Complete questions 27 - 33 if this project includes the installation of AST(s) with volume(s) greater than or equal to 500 gallons.

☐ N/A

27. Tanks and substance stored:

Table 2 - Tanks and Substance Storage

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
1	two - 33,000	groundwater (raw)	CorGal steel
2	two - 17,000	potable water	CorGal steel
3	two - 17,000	groundwater (reject)	CorGal steel

AST Number	*Size (Gallons)*	*Substance to be Stored*	*Tank Material*
4	two - 1,500	hydropnuematic	CorGal steel
5	28,800	water for fire protection	CorGal steel

Total x 1.5 = N/A **Gallons**

28. ☐ The AST will be placed within a containment structure that is sized to capture one and one-half (1 1/2) times the storage capacity of the system. For facilities with more than one tank system, the containment structure is sized to capture one and one-half (1 1/2) times the cumulative storage capacity of all systems.

☐ **Attachment G - Alternative Secondary Containment Methods**. Alternative methods for providing secondary containment are proposed. Specifications showing equivalent protection for the Edwards Aquifer are attached.

29. Inside dimensions and capacity of containment structure(s):

Table 3 - Secondary Containment

Length (L)(Ft.)	*Width(W)(Ft.)*	*Height (H)(Ft.)*	*L x W x H = (Ft3)*	*Gallons*

Total: _____ Gallons

30. Piping:

☒ All piping, hoses, and dispensers will be located inside the containment structure.
☒ Some of the piping to dispensers or equipment will extend outside the containment structure.
☒ The piping will be aboveground
☒ The piping will be underground

31. ☒ The containment area must be constructed of and in a material impervious to the substance(s) being stored. The proposed containment structure will be constructed of: CorGal steel.

32. ☒ **Attachment H - AST Containment Structure Drawings**. A scaled drawing of the containment structure is attached that shows the following:

☒ Interior dimensions (length, width, depth and wall and floor thickness).
☒ Internal drainage to a point convenient for the collection of any spillage.
☒ Tanks clearly labeled

☒ Piping clearly labeled
☒ Dispenser clearly labeled

33. ☐ Any spills must be directed to a point convenient for collection and recovery. Spills from storage tank facilities must be removed from the controlled drainage area for disposal within 24 hours of the spill.

☐ In the event of a spill, any spillage will be removed from the containment structure within 24 hours of the spill and disposed of properly.
☐ In the event of a spill, any spillage will be drained from the containment structure through a drain and valve within 24 hours of the spill and disposed of properly. The drain and valve system are shown in detail on the scaled drawing.

Site Plan Requirements

Items 34 - 46 must be included on the Site Plan.

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

Site Plan Scale: 1" = 80'.

35. 100-year floodplain boundaries:

☒ Some part(s) of the project site is located within the 100-year floodplain. The floodplain is shown and labeled.
☐ No part of the project site is located within the 100-year floodplain.
The 100-year floodplain boundaries are based on the following specific (including date of material) sources(s): FEMA FIRMette Panel #48209C0106F effective date 9/2/2005.

36. ☒ The layout of the development is shown with existing and finished contours at appropriate, but not greater than ten-foot contour intervals. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

☐ The layout of the development is shown with existing contours at appropriate, but not greater than ten-foot contour intervals. Finished topographic contours will not differ from the existing topographic configuration and are not shown. Lots, recreation centers, buildings, roads, etc. are shown on the site plan.

37. ☒ A drainage plan showing all paths of drainage from the site to surface streams.

38. ☒ The drainage patterns and approximate slopes anticipated after major grading activities.

39. ☒ Areas of soil disturbance and areas which will not be disturbed.

40. ☒ Locations of major structural and nonstructural controls. These are the temporary and permanent best management practices.

41. ☒ Locations where soil stabilization practices are expected to occur.

42. ☐ Surface waters (including wetlands).

☒ N/A

43. ☒ Locations where stormwater discharges to surface water.

    ☐ There will be no discharges to surface water.

44. ☐ Temporary aboveground storage tank facilities.

    ☒ Temporary aboveground storage tank facilities will not be located on this site.

45. ☒ Permanent aboveground storage tank facilities.

    ☐ Permanent aboveground storage tank facilities will not be located on this site.

46. ☒ Legal boundaries of the site are shown.

Permanent Best Management Practices (BMPs)

Practices and measures that will be used during and after construction is completed.

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

    ☐ N/A

48. ☒ 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

49. ☒ 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

50. 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.

51. 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 I - 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.

52. ☒ **Attachment J - 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.

53. ☒ **Attachment K - 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.

54. ☒ **Attachment L - BMPs for Surface Streams**. A description of the BMPs and measures that prevent pollutants from entering surface streams is attached.

☐ N/A

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

☐ N/A

56. ☒ **Attachment N - Inspection, Maintenance, Repair and Retrofit Plan**. A site and BMP specific plan for the inspection, maintenance, repair, and, if necessary, retrofit of the permanent BMPs and measures is attached. The plan fulfills all of the following:

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

☐ N/A

57. ☐ **Attachment O - 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

58. ☒ **Attachment P - 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 result in water quality degradation.

☐ N/A

Responsibility for Maintenance of Permanent BMPs and Measures after Construction is Complete.

59. ☒ 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.

60. ☒ 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.

Administrative Information

61. ☒ 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.

62. ☒ Any modification of this Contributing Zone Plan may require TCEQ review and Executive Director approval prior to construction, and may require submission of a revised application, with appropriate fees.

63. ☒ The site description, controls, maintenance, and inspection requirements for the storm water pollution prevention plan (SWPPP) developed under the EPA NPDES general permits for stormwater discharges have been submitted to fulfill paragraphs 30 TAC §213.24(1-5) of the technical report. All requirements of 30 TAC §213.24(1-5) have been met by the SWPPP document.

☐ The Temporary Stormwater Section (TCEQ-0602) is included with the application.

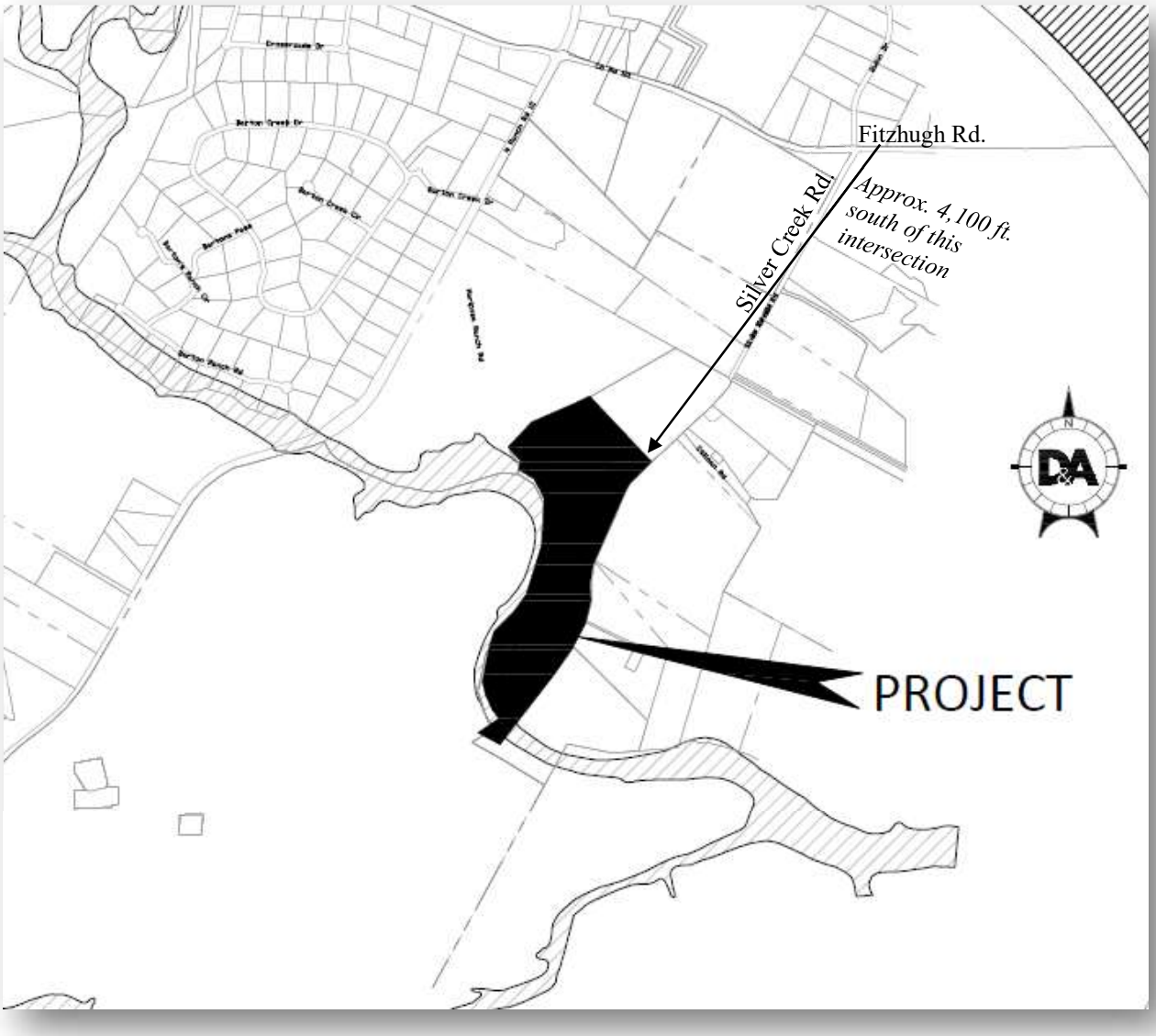
ATTACHMENT A

ROAD MAP

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT A

ROAD MAP

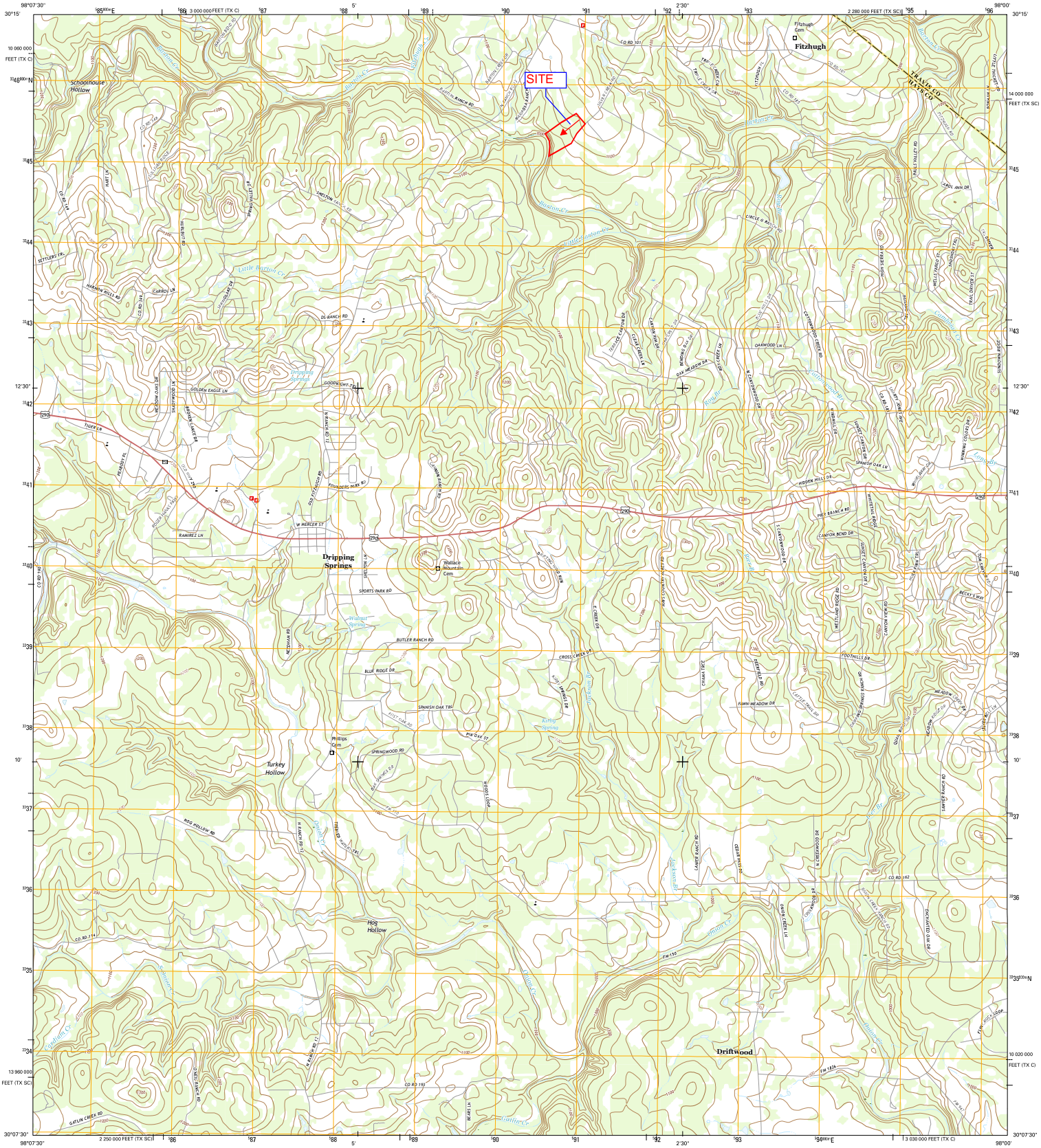


Silver Creek Rd., approximately 4,100 ft. south of the intersection with Fitzhugh Rd.
Dripping Springs, TX 78620

ATTACHMENT B

USGS MAP

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)



U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

DRIPPING SPRINGS QUADRANGLE
TEXAS
7.5-MINUTE SERIES

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central and central zones)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, October 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2002
Boundaries.....multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NU
Grid Zone Designation
14R

SCALE 1:24 000

KILOMETERS 1 0 0.5 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 20 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Hammetts Crossing
2 Shingle Hills
3 Bee Cave
4 Henly
5 Signal Hill
6 Rough Hollow
7 Driftwood
8 Mountain City

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

DRIPPING SPRINGS, TX
2016

NGA REF NO. USGS24128013

ATTACHMENT C

PROJECT NARRATIVE

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT C

PROJECT NARRATIVE

The Silver Creek Subdivision project is located along Silver Creek Rd., approximately 4,100 ft. southwest of the intersection with Fitzhugh Rd. in the City of Dripping Springs Extraterritorial Jurisdiction (ETJ) with a total of 70 acres for a low density single-family residential subdivision. The proposed development includes 28 single-family large residential lots (each lot a minimum of 1.5 acres) with access, paving, on-site sewage facility for each lot, water supply well, above ground storage tank for fire protection, and undisturbed open space. Water quality provided by grassy swales and vegetated filter strips. The limit of construction is 9.85 acres of the 70-acre development.

The subject tract is located within the Barton Creek Watershed. Per current FEMA floodplain map panel #48209C0106F dated 9/1/05, the southern portion of the property is located within the 100-year and 500-year floodplain. The site generally slopes to the south towards Barton Creek. In the existing and proposed overall conditions, drainage from the site generally conveys from north to south towards Barton Creek. The development is expected to have a maximum of 20% impervious cover and per drainage analysis, detention is not required. 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. However, grassy swales and vegetated filter strips are provided to serve as a water quality measure.

It is also understood 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 roadside ditches within the right of way and the conveyance channels along the lot line are sized appropriately to contain 100-year runoff with required freeboard. The channel sections and the water surface elevations are provided in the construction plans.

Water service will be provided by an on-site water well system, 3-inch waterline to serve each lot, and a 150-foot septic tank soil absorption system setback is provided for the water well. A public water well permit is in process by TCEQ and a water availability study is in review by Hays-Trinity Groundwater Conservation District (HTGCD).

Aboveground storage tanks with hose connection will be provided for fire protection and is in review by the Hays County Fire Marshal. A Utility Plan is provided in Section 9 to illustrate the water distribution system and location of the water well and storage tanks for potable water and fire protection.

Wastewater service will be provided by an on-site sewage facility (OSSF) with septic spray field for each lot. The location of each OSSF is illustrated within the Utility Plan (Section 9).

This project proposes grassy swales along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek.

ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT D

FACTORS AFFECTING SURFACE WATER QUALITY

Surface water quality can be affected by disturbance during construction and by development after construction. Soil disturbance from clearing and grubbing and cut and fill operations can lead to discharge of sediment unless adequate temporary erosion control measures are in place. For this project, perimeter silt fence and rock berms will prevent sediment from leaving the site. Siltation collected by the control measures will be cleaned from fences, berms, etc. on a routine schedule as outlined in the SWPPP and contract specifications. A comprehensive list of potential site pollutants is shown on the attached 'Table 1. Potential Construction Site Pollutants'.

The drainage area of Barton Creek upstream from the site is made up of approximately 25 square miles. However, the on-site and off-site contributing area that the drainage system is designed for is approximately 110 acres (on-site area is approximately 70 acres). During construction, surface water quality may also be affected by a spill of hydrocarbons or other hazardous substances used in construction. The most likely instances of a spill of hydrocarbons or hazardous substances are:

1. Refueling construction equipment.
2. Performing operator-level maintenance, including adding petroleum, oils, or lubricants.
3. Unscheduled or emergency repairs, such as hydraulic fluid leaks.

Every effort will be taken to be cautious and prevent spills. In the event of a fuel or hazardous substance spill as defined by the Reportable Quantities Table (30 TAC 327 and printed from TCEQ website), the contractor is required to clean up the spill and notify the TCEQ as required in 30 TAC 327. During business hours report spills to the TCEQ's Austin Regional Office at (512) 339-2929, after business hours call 1-800-832-8224, the State Emergency Response Center.

After construction is complete, impervious cover for the subject tract is the major reason for degradation of water quality. Impervious cover includes mainly the asphaltic pavement surface. Oil and fuel discharge from vehicles is anticipated. Grassy swales along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek. The 70-acre site assumes a maximum of 20% of impervious cover with 9.85 acres of disturbance.

Table 1. Potential Construction Site Pollutants

Material/Chemical	Physical Description	Stormwater Pollutants	Location or related Construction Activity
Sediment	Various colored soil particles, turbid water (dissolved sediments)	Turbidity, suspended sediment, metals and nutrients attached to sediment particles	Clearing and grubbing operations, grading and site excavation operations, vehicle tracking, topsoil stripping and stockpiling, landscaping operations
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides used for noxious weed control
Fertilizer	Liquid or solid grains	Nitrogen, phosphorous	Newly seeded areas
Plaster	White granules or powder	Calcium sulphate, calcium carbonate, sulfuric acid	Wall construction
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	No equipment cleaning allowed in project limits
Asphalt	Black solid	Oil, petroleum distillates	Streets and roofing
Concrete	White solid/grey liquid	Limestone, sand, pH, chromium	Curb and gutter, building construction
Glue, adhesives	White or yellow liquid	Polymers, epoxies	General construction
Paints	Various colored liquid	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic	General construction
Curing compounds	Creamy white liquid	Naphtha	Curb and gutter
Wood preservatives	Clear amber or dark brown liquid	Stoddard solvent, petroleum distillates, arsenic, copper, chromium	General construction
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Leaks or broken hoses from equipment
Gasoline	Colorless, pale brown or pink petroleum hydrocarbon	Benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment/staging area, vehicle leaks
Diesel Fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil & grease, naphthalene, xylenes	Secondary containment/staging area, vehicle leaks
Kerosene	Pale yellow liquid petroleum hydrocarbon	Coal oil, petroleum distillates	Secondary containment/staging area

Spills: Reportable Quantities

The RQ depends on the substance released and where released. Use this table to determine whether you must report and under what rule.

In Texas, upon determining that a reportable discharge or spill has occurred, the responsible person must notify the state. The threshold quantity that triggers the requirement to report a spill is called the **reportable quantity (RQ).** The reportable quantity depends on the type of substance released and where released (e.g. into water vs. on land); different kinds of spills are subject to different provisions of state and federal rules.

Kind of spill	Where discharged	Reportable quantity	Rule, statute, or responsible agency
Hazardous substance	onto land	"Final RQ" in Table 302.4 in 40 CFR 302.4 (PDF) Exit...	30 TAC 327 Exit...
	into water	"Final RQ" or 100 lbs, whichever is **less**	
Any oil	coastal waters	as required by the Texas General Land Office	Texas General Land Office Exit...
Crude oil, oil that is neither a petroleum product nor used oil	onto land	210 gallons (five barrels)	30 TAC 327 Exit...
	directly into water	enough to create a sheen	
Petroleum product, used oil	onto land, from an exempt PST facility	210 gallons (five barrels)	30 TAC 327 Exit...
	onto land, or onto land from a non-exempt PST facility	25 gallons	
	directly into water	enough to create a sheen	
Associated with the exploration, development and production of oil, gas, or geothermal resources	under the jurisdiction of the Railroad Commission of	as required by the Railroad Commission of Texas	Railroad Commission of Texas Exit...

	Texas		
Industrial solid waste or other substances	into water	100 lbs	30 TAC 327 Exit...
From petroleum storage tanks, underground or aboveground	into water	enough to create a sheen on water	30 TAC 334.75-81 Exit...
From petroleum storage tanks, underground or aboveground	onto land	25 gallons or equal to the RQ under 40 CFR 302 Exit...	30 TAC 327 Exit...
Other substances that may be useful or valuable and are not ordinarily considered to be waste, but will cause pollution if discharged into water in the state	into water	100 lbs	30 TAC 327

ATTACHMENT E

VOLUME AND CHARACTER OF STORMWATER

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT E

VOLUME AND CHARACTER OF STORMWATER

The 70 acre Silver Creek Subdivision project has a maximum of 20% impervious cover consisting of rooftops, sidewalks and street pavement. The remaining pervious portion of the site will consist of landscape and natural areas. The roadside ditches within the right of way and the conveyance channels along the lot line are sized appropriately to contain 100-year runoff with required freeboard. The channel sections and the water surface elevations are provided in the construction plans.

This project proposes grassy swales along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek.

The site-specific drainage area map demonstrating drainage conveyance through the site is provided on the Proposed Drainage Area Map in Section 9 of this application.

- Drainage area DA#A1 sheet flows through the site and runoff is collected by the roadside ditch within the east right of way and conveyed through the 2'X4' box culvert across to the channel downstream.

- Drainage area DA #A2 also sheet flows through the site and runoff is collected by the roadside ditch within the east right of way. The runoff is partially routed to each 2'X4' box culvert across and to the channels downstream.

- Drainage area DA #B1 flows southwest and is conveyed through the roadside ditch along the east right of way and discharges to the floodplain.

- Drainage area DA #B2 flows southwest and is conveyed through the roadside ditch along the west right of way and discharges to the floodplain.

- Area on the west side of Skyward Lane right of way sheet flows west towards the flood plain.

ATTACHMENT F

SUITABILITY LETTER FROM AUTHORIZED AGENT

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

Hays County Development Services

2171 Yarrington Road, Suite 100, Kyle TX 78640
512-393-2150 main / 512-493-1915 fax

July 5, 2023

To Whom It May Concern:

Re: On Site Sewage Facility Suitability (OSSF) for the Silver Creek Subdivision located at approximately 13755 Silver Creek Road, Dripping Springs, Texas 78620, parcel ID: R184803 per Hays Central Appraisal District.

I have completed my preliminary review of the Facility Planning Report submitted in support of the above referenced development in Hays County. I concur with Stan Burrier, P.E., findings that this 28-lot subdivision can be adequately served by individual on-site sewage facilities. These lots will be served by a public ground water supply served by a public water well.

This review does not authorize the start of any construction and all Hays County development authorizations and subdivision requirements must be obtained before the start of any development.

Please contact me if you have any questions concerning this matter.

Sincerely,

Eric Van Gaasbeek, R.S., C.F.M.
Chief Environmental Health Specialist
Floodplain Administrator
OS# 0028967

ATTACHMENT G

ALTERNATIVE SECONDARY CONTAINMENT METHODS

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

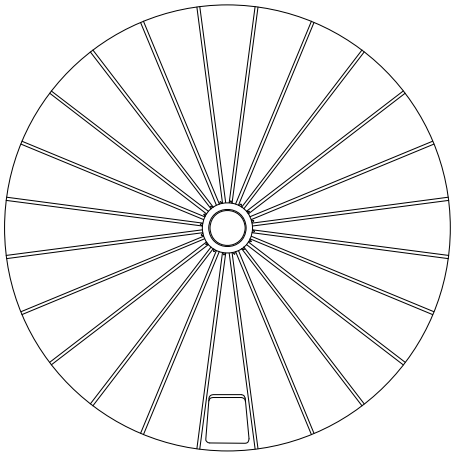
(NOT APPLICABLE)

ATTACHMENT H

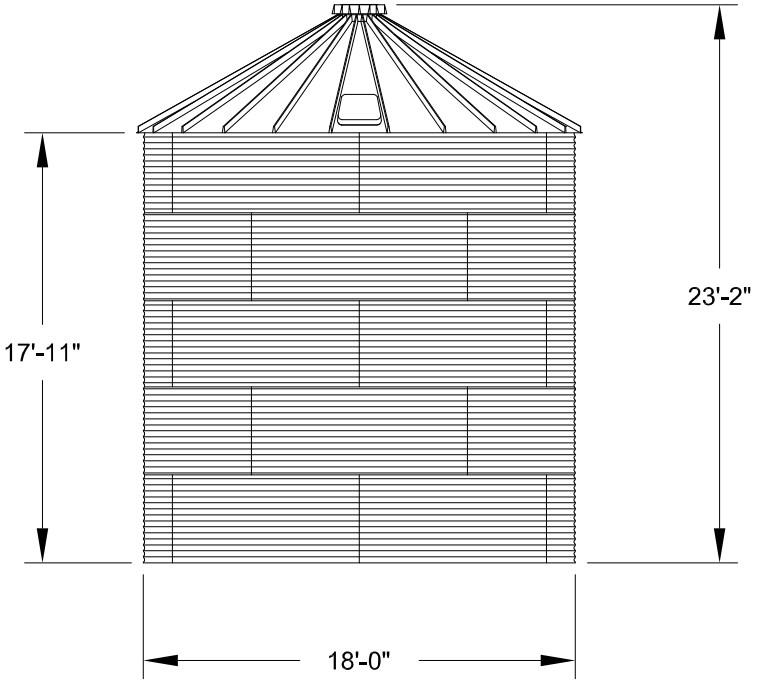
AST CONTAINMENT STRUCTURE DRAWINGS (IF AST)

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

Corrugations on roof panels are not shown for clarity.



PLAN



ELEVATION

		BY	DATE
DWN		IU	7/16/09
CKD		JH	7/16/09
ENG		JH	7/16/09

CORGAL WATER TANKS

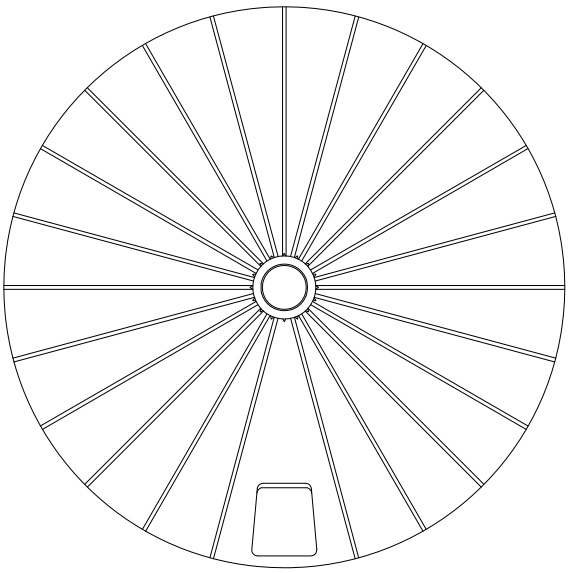
WATER STORAGE TANKS, INC.
1-800-463-1898
www.corgaltanks.com

TITLE: MODEL 1805-WT-CHR
CORGAL STEEL WATER STORAGE TANK
NOMINAL CAPACITY - 33,000 GALLONS (U.S.)

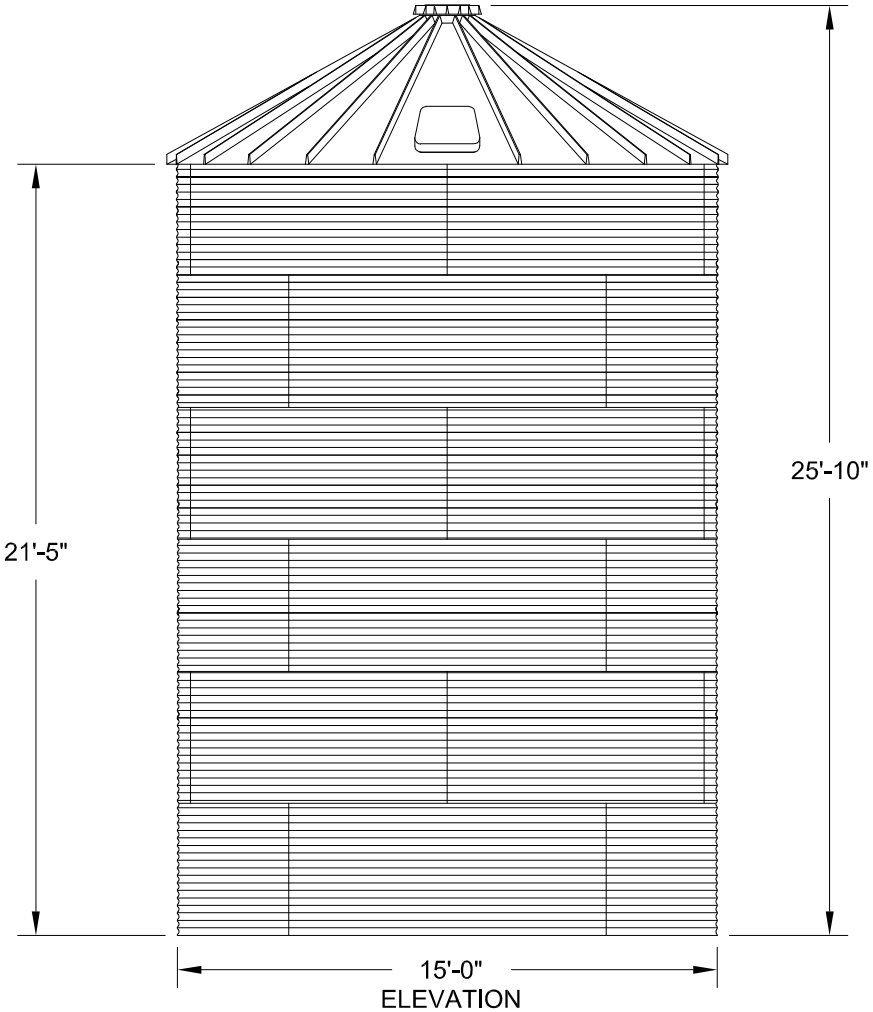
DWG. NO.	REV. NO.
1805-WT-CHR	A

SIZE	SCALE	SHEET	OF
A	1/8"=1'-0"	1	1

Corrugations on roof panels are not shown for clarity.



PLAN



ELEVATION

CORGAL WATER TANKS

WATER STORAGE TANKS, INC.
1-800-463-1898
www.corgaltanks.com

	BY	DATE
DWN	IU	2/18/2013
CKD	JH	2/18/2013
ENG	JH	2/18/2013

TITLE: MODEL 1506-WT-CHR
CORGAL STEEL WATER STORAGE TANK
NOMINAL CAPACITY - 28,800 GALLONS (U.S.)

DWG. NO. 1506-WT-CHR | REV. NO. B

SIZE A | SCALE 3/16"=1'-0" | SHEET 1 OF 1

WELL SCOPE
DRIPPING SPRINGS, TEXAS
GEOPHYSICAL LOGGING & CAMERA SERVICES
PO Box 572, Dripping Springs, TX 78620
www.well-scope.com
512-798-1888

Borehole:	Test #2		
Logs:	Gam, 4Res, SP,SPR		
	Cal		
Project:	Southerland- Silver Creek	**Date:**	10/13/2022
Client:	Bee Cave Drilling	**County:**	Hays
Location:	30.237055, -98.057242	**State:**	TX

Borehole Data

Contractor:	Bee Cave Drilling	**Drilled TD (ft):**	795
Elevation:	*1080'*	**Logged TD (ft):**	795
Depth Ref:	ground level	**Date Drilled:**	10/13/2022

BIT RECORD				CASING RECORD		
RUN	BIT SIZE (in)	FROM (ft)	TO (ft)	SIZE/WGT/THK	FROM (ft)	TO (ft)
1	8 1/2"	0	795			
2						

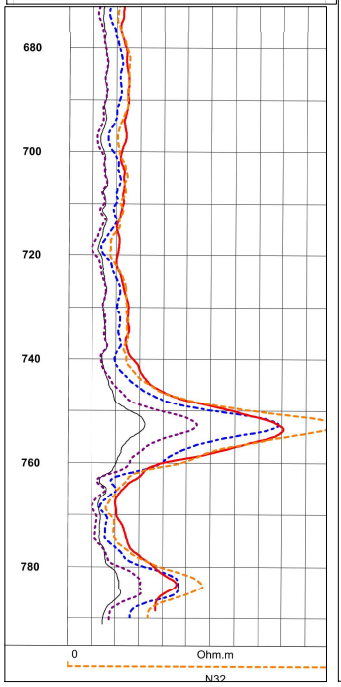
Drill Method:	Air rotary	**Weight:** NA	**Fluid Lvl (ft):** 565'
Hole Medium:	Rock/clay	**Mud Type:** Foam	**Circ Time:** 1hr
Viscosity:	NA	**Rm:** NA	**at (Deg F):** NA

General Data

Logged By:	Chase Crane	**Unit/Truck:**	1
Witness:	Mike Scott		

LOG TYPE	RUN	SPEED (ft/min)	FROM (ft)	TO (ft)	FT/IN
CALIPER	2	30	790	5	ft
GAMMA	1	30	795	10	ft
RESISTIVITY/SP/SPR	1	30	790	560	ft
VIDEO					

COMMENTS:

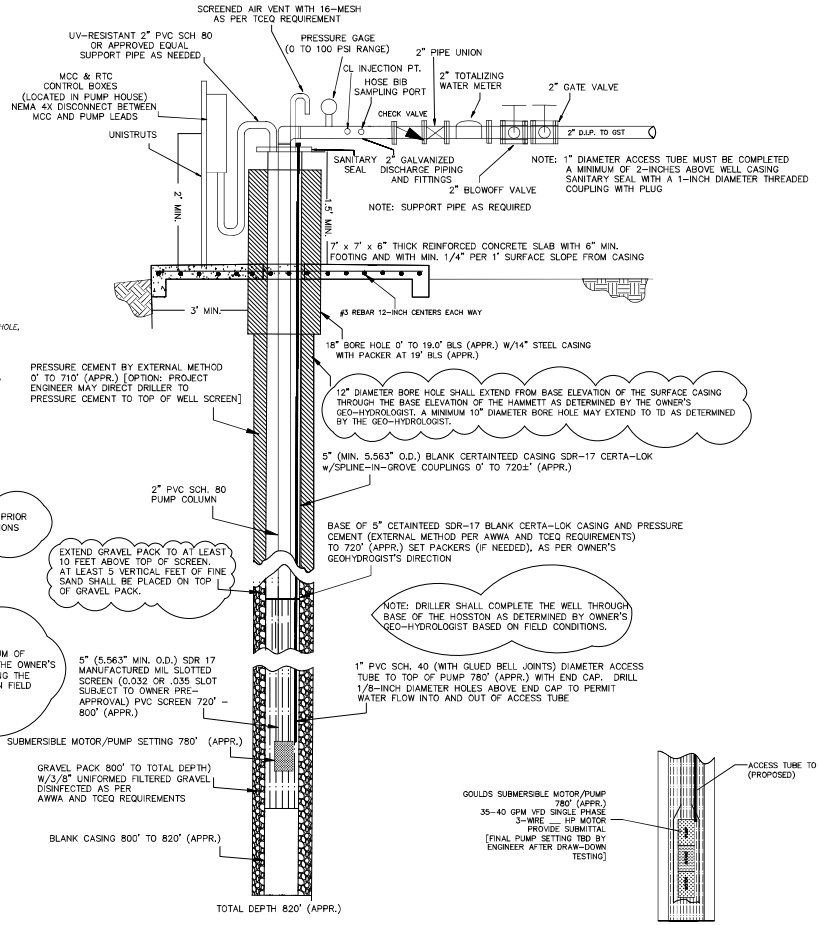


CONSTRUCTION NOTES:

1. WELL CONSTRUCTION MATERIALS CONTAINING MORE THAN 0.25% (ONE QUARTER OF ONE PERCENT) LEAD ARE PROHIBITED.
2. THE SPACE BETWEEN CASING AND DRILL HOLE WALL SHALL BE SEALED BY USING ENOUGH CEMENT UNDER PRESSURE TO COMPLETELY FILL AND SEAL THE ANNULAR SPACE BETWEEN THE CASING AND THE DRILL HOLE. THE WELL CASING SHALL BE CEMENTED USING THIS METHOD FROM THE TOP OF THE SHALLOWEST FORMATION TO BE DEVELOPED TO THE EARTH'S SURFACE. THE DRILLER SHALL UTILIZE A PRESSURE CEMENTATION METHOD IN ACCORDANCE WITH THE AWWA STANDARD FOR WATER WELLS (A100-15) OR MOST RECENT, APPENDIX C: SECTION C.2 (POSITIVE DISPLACEMENT EXTERIOR METHOD).
3. SEE TECHNICAL SPECIFICATIONS SECTION 13153 FOR ADDITIONAL WELL CONSTRUCTION AND TESTING REQUIREMENTS.
4. CONTRACTOR SHALL ENSURE TO PROTECT ALL PVC PIPE, FITTINGS AND OTHER WELL APPURTENANCES ARE NOT IMPACTED BY "HEAT OF HYDRATION" CAUSED BY THE PLACEMENT OF CEMENT PRODUCTS.
5. CEMENT SHALL BE PLACED IN LIFTS IN STRICK ACCORDANCE WITH AWWA AND TCEQ REQUIREMENTS FOR PUBLIC WATER SUPPLY WELLS.
6. TYPE "I" CEMENT SHALL NOT BE USED UNLESS APPROVED BY THE PROJECT ENGINEER AND THE TCEQ.
7. 1" DIAMETER ACCESS TUBE MUST BE COMPLETED A MINIMUM OF 2-INCHES ABOVE WELL CASING SANITARY SEAL WITH A 1-INCH DIAMETER THREADED COUPLING WITH PLUG.
8. ALL OUTDOOR ELECTRICAL SHALL BE NEMA 4X. INDOOR ELECTRICAL MAY BE NEMA 3R OR 4X.
9. LONG BODY CHECK VALVES SHALL BE INSTALLED AT 200' INTERVALS. DIAMETER TO MATCH PIPE COLUMN OD. DRILLER SHALL PROVIDE SUBMITTAL.
10. ALL MATERIALS SHALL BE NSF CERTIFIED FOR DRINKING WATER. SEE NOTES ON SHEET 2.
11. WELL SHALL BE COMPLETED IN THE LOWER TRINITY FORMATION.

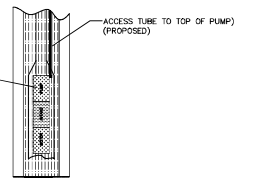
ADDITIONAL CONSTRUCTION NOTES::

1. ON OR ABOUT OCTOBER 13, 2022, BEE CAVE DRILLING COMPANY, DRIPPING SPRINGS, TEXAS, DRILLED AND COMPLETED A SITE MONITOR WELL (SEE STATE OF TEXAS WELL REPORT OF TRACKING #626085. BEE CAVE DRILLING IS PROPOSING TO "DRILL-OUT" THIS MONITOR WELL AND COMPLETE THE NEW BOREHOLE AS TCEQ COMPLIANT PWS WELL AND AS GENERALLY SHOWN ON THIS SHEET.
2. BEE CAVE DRILLING IS PROPOSING TO PERFORM THIS PROJECT AS FOLLOWS:
A. DRILL OUT REMAINING/EXISTING 4.5" ID PVC CASING TO TOTAL DEPTH OF THE PWS WELL USING 10" DIAMETER BIT.
B. ATTEMPT DOWNHOLE CAMERA SURVEY, GAMMA/ELECTRIC LOG, AND CALIPER LOGS. IF INSTRUMENTS DO NOT ADVANCE IN NEW BOREHOLE, PROCEED WITH THE FOLLOWING STEPS:
I. REAM BORE TO 12" DIAMETER TO 550' BGL (APPROXIMATE) OR THROUGH BASE OF HAMMETT FORMATION.
II. INTRODUCE 60' TO 80' OF STABILIZATION CEMENT SLURRY THROUGH STIFF ZONE (OR AS NECESSARY). ALLOW FOR ADEQUATE CURING TIME (MINIMUM 24-HOURS)
III. DRILL BACK THROUGH CURED SLUG WITH 10" BIT AND CONTINUE FINAL BIT PASS TO TOTAL DEPTH (820'+/-).
3. IF IN THE SOLE OPINION OF THE OWNER AND OWNER'S GEO-HYDROGIST AND ENGINEER THAT THE RE-COMPLETION OF THE MONITOR WELL IS NOT ADEQUATE TO PROVIDE A PUBLIC WATER SUPPLY AND/OR DOES NOT MEET TCEQ PWS REQUIREMENTS, BEE CAVE DRILLING SHALL PLUG AND ABANDON THIS WELL AND DRILL AT ONSET, NEW AND COMPLIANT WELL.
4. FOLLOWING PRIMARY WELL DRILLING AND STRUCTURAL CONSTRUCTION, THE WELL SHALL BE CLEANED AND DEVELOPED USING AIR JETTING PROCEDURES DIRECTED BY THE OWNER'S GEO-HYDROLOGIST.



NOT FOR CONSTRUCTION
FOR REVIEW PURPOSES ONLY

DRIPPING SPRINGS OWNER, LLC
PROPOSED PUBLIC WATER SUPPLY WELL
TYPICAL WELL PROFILE VIEW
(N. T. S.)



PUMP COMPLETION DETAIL
(N. T. S.)

NOTE: DRILLER SHALL HAVE A FIELD AVAILABLE PUMP SHROUD TO INSTALL ON THE PUMP AND MOTOR ASSEMBLY IF THE OWNER'S GEO-HYDROLOGIST/ENGINEER DETERMINES THAT BASED ON OBSERVED FIELD CONDITIONS A PUMP SHROUD IS REQUIRED.

NO.	DATE	REVISIONS	REMARKS

dgra
Donald G. Rauschuber & Associates, Inc.
Consultants ■ Water Engineering ■ Municipal Engineering

SURVEYED	DESIGNED	DRAWN	CHECKED	DATE	FILE NAME:
NONE	DGR	DGR		02202023	DANHUTTS

DRIPPING SPRINGS OWNER, LLC
PROPOSED PUBLIC WATER SYSTEM
WELL -TYPICAL PROFILE

N.T.S.

SHEET 1 OF 1

DGRA, INC.
FIRM NO. F-8806

ATTACHMENT I

20% OR LESS IMPERVIOUS COVER WAIVER

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

(NOT APPLICABLE)

ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT J

BMPs FOR UPGRADIENT STORMWATER

Surface water, groundwater and storm water that originates upgradient from the site flows across the site through the 25-foot water quality buffer zone established along Barton Creek. Grassy swales are provided along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek.

All temporary BMPs are shown on the plan set (see Section 9 of this application) and are described more fully in the SWPPP in Section 3 of this application.

ATTACHMENT K

BMPs FOR ON-SITE STORMWATER

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT K

BMPs FOR ON-SITE STORMWATER

On-site stormwater will travel as sheet flow or shallow concentrated flow across pervious and impervious areas before grassy swales along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek.

ATTACHMENT L

BMPs FOR SURFACE STREAMS

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT L

BMPs FOR SURFACE STREAMS

The south/western boundary of the site is immediately adjacent to Barton Creek and is the ultimate point of discharge for the proposed development. A description of the BMPs and measures that prevent pollutants from entering surface streams is provided in Attachment K.

ATTACHMENT M

CONSTRUCTION PLANS

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT M

CONSTRUCTION PLANS

Full size construction plans of the proposed permanent BMP's for this project are included in Section 9 of this application; 11x17" copies of the following sheets have been included with this attachment: Overall Existing Drainage Area Map, Overall Proposed Drainage Area Map, Proposed Drainage Area Map and Proposed Channel Sections (Sheets 26-28) and General Notes (Sheet 2) which includes the required CZP General Construction Notes. In addition, TCEQ's TSS Calculations have been attached.

TIME OF CONCENTRATION CALCULATIONS (BASED FROM COA DCM)

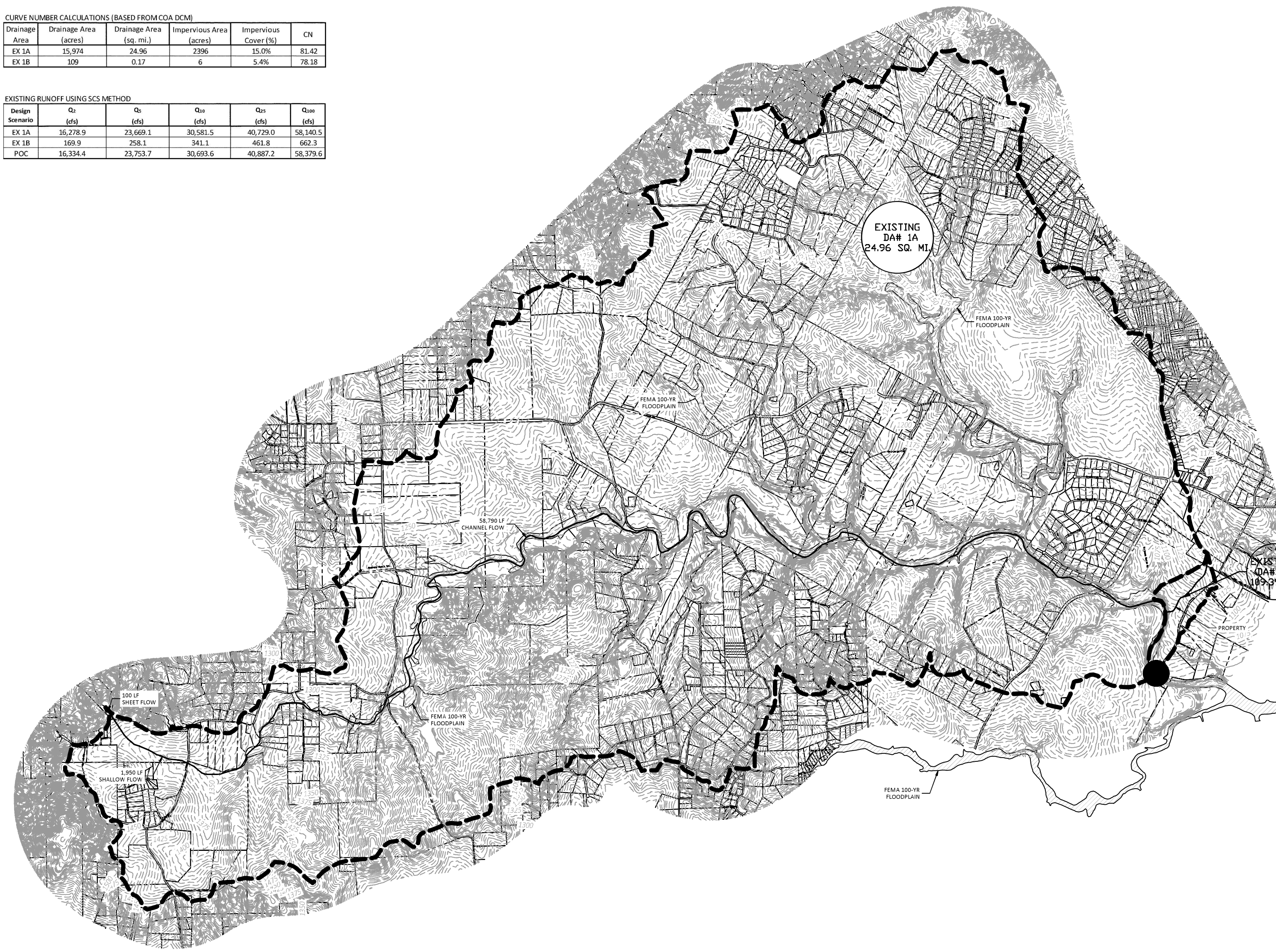
Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Sheet Flow					Shallow Concentrated Flow					Channel/Storm Drain Flow							Time of Concentration	Lag Time
			Length	n	ΔElev	Slope	Sub Tc	Length	ΔElev	Slope	n	Sub Tc	Length	Velocity	n	Slope	Area (sf)	Pw (ft)	Sub Tc		
EX 1A	15,974	24.96	100	0.15	2.97	0.030	7.44 min	1,950	63.03	0.032	0.05	11.21	58,790	16.07	0.03	0.007	4594.25	591.72	60.99 min	79.64	47.78
EX 1B	109	0.17	100	0.15	1	0.010	11.49 min	2,693	92.65	0.034	0.05	14.99	250	44.60	0.03	0.239	310.50	124.60	0.09 min	26.58	15.95

CURVE NUMBER CALCULATIONS (BASED FROM COA DCM)

Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Impervious Area (acres)	Impervious Cover (%)	CN
EX 1A	15,974	24.96	2396	15.0%	81.42
EX 1B	109	0.17	6	5.4%	78.18

EXISTING RUNOFF USING SCS METHOD

Design Scenario	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
EX 1A	16,278.9	23,669.1	30,581.5	40,729.0	58,140.5
EX 1B	169.9	258.1	341.1	461.8	662.3
POC	16,334.4	23,753.7	30,693.6	40,887.2	58,379.6



1000 0 500 1000 2000
(IN FEET)
GRAPHIC SCALE 1"=2000'

LEGEND

DRAINAGE AREA
TIME OF CONCENTRATION
POINT OF CONFLUENCE
100-YR FLOODPLAIN (FEMA)

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Austin, TX 78735, Tel: (512)-583-2600
www.doucetengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

OVERALL EXISTING DRAINAGE AREA MAP

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA
120590
LICENSED
PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET
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OF 37

Project No.:
2408-002

TIME OF CONCENTRATION CALCULATIONS (BASED FROM COA DCM)

Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Sheet Flow					Shallow Concentrated Flow					Channel/Storm Drain Flow							Time of Concentration	Lag Time
			Length	n	ΔElev	Slope	Sub Tc	Length	ΔElev	Slope	n	Sub Tc	Length	Velocity	n	Slope	Area (sf)	Pw (ft)	Sub Tc		
EX 1A	15,974	24.96	100	0.15	2.97	0.030	7.44 min	1,950	63.03	0.032	0.05	11.21	58,790	16.07	0.03	0.007	4594.25	591.72	60.99 min	79.64	47.78
DEV 1B	109	0.17	100	0.15	1	0.010	11.49 min	2,620	87.68	0.033	0.025	11.74	150	58.89	0.03	0.416	310.50	124.60	0.04 min	23.28	13.97

CURVE NUMBER CALCULATIONS (BASED FROM COA DCM)

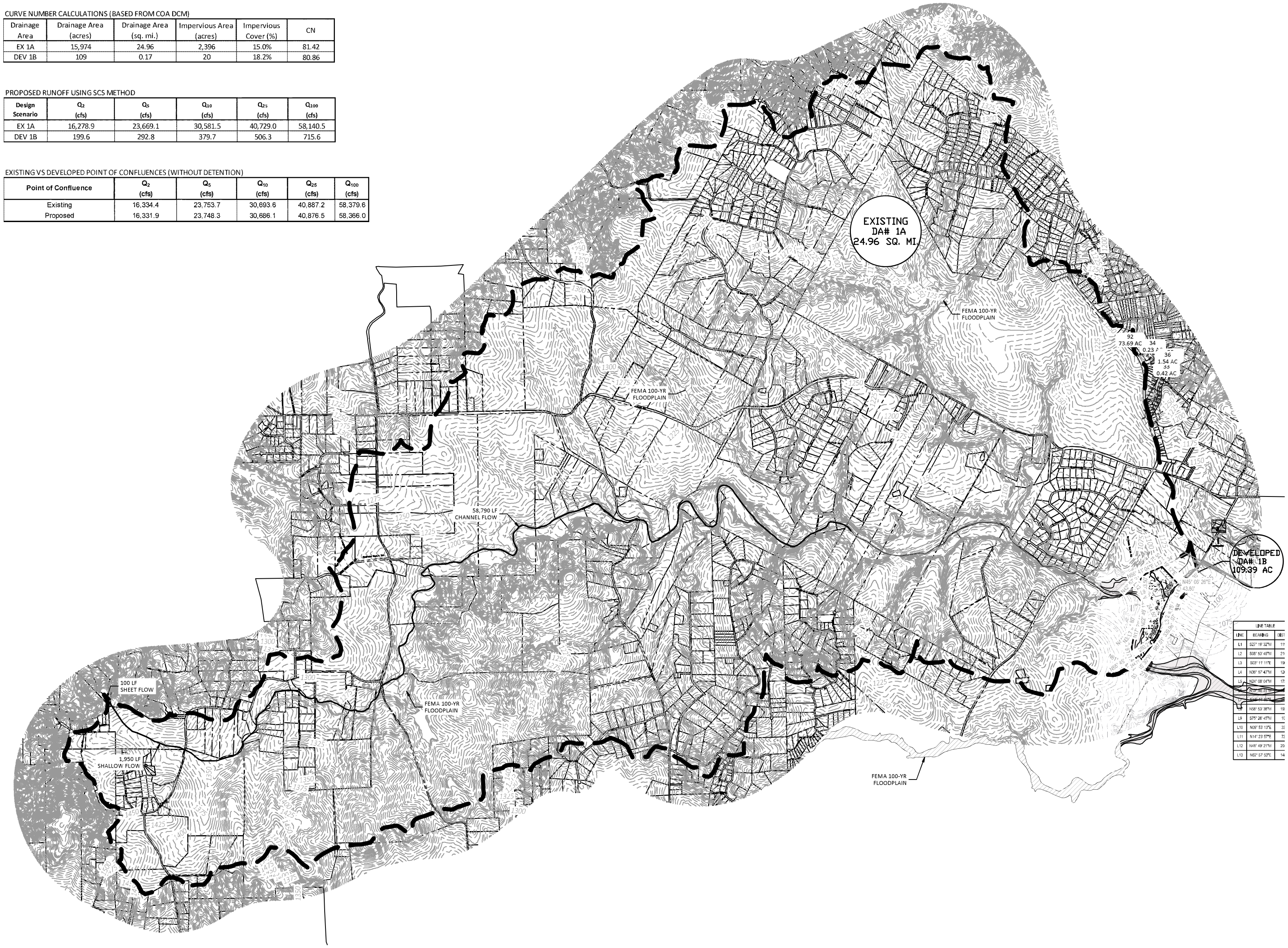
Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Impervious Area (acres)	Impervious Cover (%)	CN
EX 1A	15,974	24.96	2,396	15.0%	81.42
DEV 1B	109	0.17	20	18.2%	80.86

PROPOSED RUNOFF USING SCS METHOD

Design Scenario	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
EX 1A	16,278.9	23,669.1	30,581.5	40,729.0	58,140.5
DEV 1B	199.6	292.8	379.7	506.3	715.6

EXISTING VS DEVELOPED POINT OF CONFLUENCES (WITHOUT DETENTION)

Point of Confluence	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
Existing	16,334.4	23,753.7	30,693.6	40,887.2	58,379.6
Proposed	16,331.9	23,748.3	30,686.1	40,876.5	58,366.0



GRAPHIC SCALE 1"=2000'
(IN FEET)
1000 0 500 1000 2000

LEGEND

- DRAINAGE AREA
- TIME OF CONCENTRATION
- POINT OF CONFLUENCE
- 100-YR FLOODPLAIN (FEMA)

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OVERALL PROPOSED DRAINAGE AREA MAP

SILVER CREEK SUBDIVISION

DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA
120590
LICENSED PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET
27
OF 37

Project No.: 2408-002

Drawing: c:\pw_working\eugene.gase\d0114947\2408002 CD DA-PR.dwg
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Last Modified: Jun. 07, 23 - 07:49
Plot Date/Time: Jun. 07, 23 - 09:28:40

WATER QUALITY SUMMARY TABLE			
	PROPOSED BMP	REQUIRED TSS LOAD REMOVAL	PROVIDED TSS LOAD REMOVAL
DRAINAGE ZONE #1	GRASSY SWALE	2,091 LB	1,965 LB
DRAINAGE ZONE #2	GRASSY SWALE	934 LB	874 LB
DRAINAGE ZONE #3	GRASSY SWALE	1,373 LB	1,251 LB
DRAINAGE ZONE #4	VEGETATED FILTER STRIP	9,075 LB	10,425 LB
TOTAL DRAINAGE AREA		13,473 LB	14,515 LB

COA			
Storm Event	Grass (fair), slopes 2-7%	Concrete	Asphalt
C_2	0.33	0.75	0.73
C_{10}	0.38	0.83	0.81
C_{25}	0.42	0.88	0.86
C_{100}	0.49	0.97	0.95

Siver Creek

"C" VALUES CALCULATED USING THE RATIONAL METHOD

Drainage Basin	Drainage Area (ac)	I.C. (%)	C 2-year	C 10-year	C 25-year	C 100-year
A1	11.62	21.20%	0.41	0.47	0.51	0.59
A2	24.25 Ac.	20.00%	0.41	0.47	0.51	0.58
B1	19.42 Ac.	5.00%	0.35	0.40	0.44	0.51
B2	2.68 Ac.	40.00%	0.49	0.55	0.60	0.67
C1	51.89 Ac.	6.98%	0.36	0.41	0.45	0.52

Siver Creek

DEVELOPED "Tc" VALUE CALCULATIONS

		Sheet Flow				Shallow Concentrated Flow				Channel Flow					Total Allowed
Drainage Basin	Area (ac)	Length (ft)	Slope (ft/ft)	n	Tt (min)	Length (ft)	Slope (ft/ft)	n	Tt (min)	Length (ft)	V (ft/sec)	n	Slope (ft/ft)	Tt (min)	Tc (min)
A1	11.62 Ac.	100	0.010	0.150	11.37 min	1,900	0.024	0.05	12.67	0	0.00	0	0.000	0.00 min	24.04
A2	24.25 Ac.	100	0.010	0.150	11.37 min	1,600	0.031	0.05	9.39	937	5.22	0.03	0.013	2.99	23.75
B1	19.42 Ac.	100	0.010	0.150	11.37 min	1,450	0.035	0.05	8.01	2429	6.34	26.25	0.010	6.39	25.76
B2	2.68 Ac.					0									5.00
C1	51.89 Ac.	100	0.010	0.150	11.37 min	1,307	0.046	0.05	6.27						17.64

Siver Creek

DEVELOPED RUNOFF (Q) CALCULATIONS USING RATIONAL METHOD

Drainage Basin	Area (ac)	I.C.	Comp. C_2	Comp. C_{10}	Comp. C_{25}	Comp. C_{100}	TOTAL T_c (Min.)	i_2 (in/hr)	i10 (in/hr)	i_{25} (in/hr)	i_{100} (in/hr)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
A1	11.62	21.2%	0.41	0.47	0.51	0.59	24.0	3.38	10.54	6.3	8.25	16.27	57.72	37.49	56.33
A2	24.25	20.0%	0.41	0.47	0.51	0.58	23.7	3.40	10.53	6.3	8.30	33.78	118.98	77.93	117.16
B1	19.42	5.00%	0.35	0.40	0.44	0.51	25.8	3.25	10.62	6.1	7.96	22.11	82.82	52.03	79.34
B2	2.68	40.0%	0.49	0.55	0.60	0.67	5.0	6.31	8.99	11.8	15.42	8.28	13.30	18.84	27.86
C1	51.89	6.98%	0.36	0.41	0.45	0.52	17.6	3.95	10.19	7.3	9.60	73.39	216.74	171.72	260.11

From COA, DCM adopting Atlas 14 data (Zone 1 is south of Colorado river)

Table 2-2A. Intensity-Duration-Frequency Curve Coefficients (Zone 1)

Recurrence Interval	Fitting parameters for IDF Equation 2-1 e	b	c
2-year	45.24	9.339	0.7399
5-year	53.47	8.650	0.7228
10-year	61.25	8.352	0.7147
25-year	69.96	7.941	0.6954
50-year	73.58	7.329	0.6732
100-year	77.31	6.832	0.6524
500-year	77.48	4.987	0.5837

LEGEND

DRAINAGE AREA

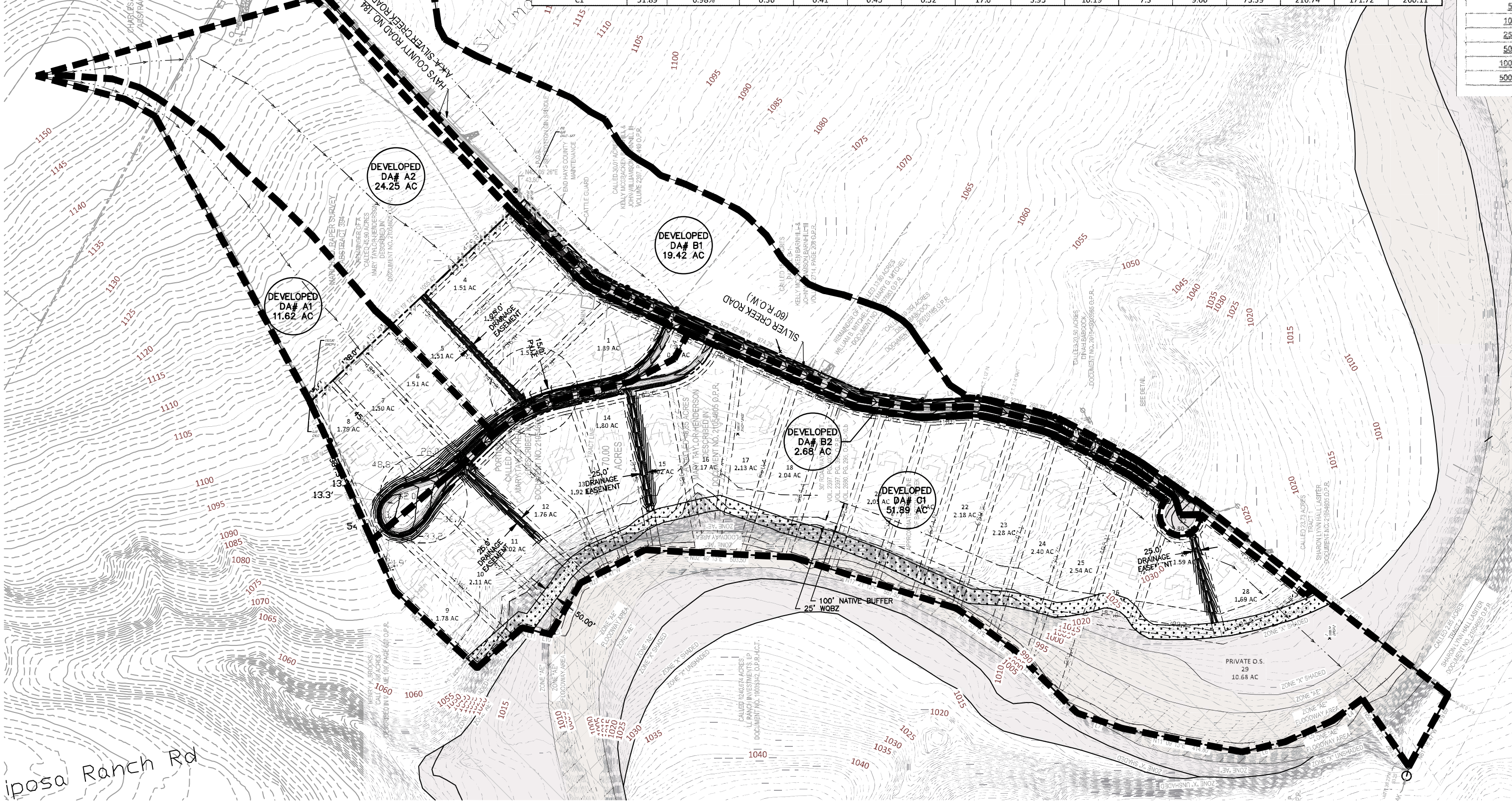
TIME OF CONCENTRATION

POINT OF CONFLUENCE

100-YR FLOODPLAIN (FEMA)

VEGETATIVE FILTER STRIP

GRAPHIC SCALE 1"=200'



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PROPOSED DRAINAGE AREA MAP

SILVER CREEK SUBDIVISION

DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA 120590 LICENSED PROFESSIONAL ENGINEER 6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET 28 OF 37

Project No.: 2408-002

Drawing: C:\pw_working\eugene.gao\d0114942\2408002 CD DA-PR.dwg
User: EGASE
Last Modified: Jun. 07, 23 - 09:49
Plot Date/Time: Jun. 07, 23 - 09:50:19

STREET AND DRAINAGE NOTES:

1. CONTRACTOR SHALL PROVIDE QUALITY TESTING FOR ALL INFRASTRUCTURES TO BE ACCEPTED AND MAINTAINED BY THE CITY OF DRIPPING SPRINGS AFTER COMPLETION. THE CONTRACTOR SHALL NOTIFY THE CITY OF DRIPPING SPRINGS NO LESS THAN 48 HOURS PRIOR TO ANY TESTING.
2. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 6" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 6" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLODS AND SUITABLE FOR SUSTAINING PLANTLIFE.
3. STREET RIGHT–OF–WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER IN NO CASE SHALL THE WIDTH OF THE RIGHT–OF–WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF DRIPPING SPRINGS.
4. BARRICADES BUILT TO THE CITY OF DRIPPING SPRINGS STANDARDS SHALL BE ERECTED ON ALL DEAD–END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
5. ALL REINFORCED CONCRETE PIPE (RCP) SHALL BE MINIMUM CLASS III.
6. THE GEOTECHNICAL ENGINEER SHALL INSPECT THE SUBGRADE FOR COMPLIANCE WITH THE DESIGN ASSUMPTIONS MADE DURING PREPARATION OF THE SOILS REPORT. ANY ADJUSTMENTS THAT ARE REQUIRED SHALL BE MADE THROUGH REVISIONS OF THE CONSTRUCTION PLANS.
7. MOISTURE CONDITIONED SUBGRADE: THE SUBGRADE SHOULD BE SCARIFIED TO A DEPTH OF 6 INCHES AND MOISTURE ADJUSTED TO BETWEEN OPTIMUM AND +4 PERCENT OF OPTIMUM MOISTURE CONTENT. THE SUBGRADE SHOULD THEN BE RECOMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698. CARE SHOULD BE TAKEN TO INSURE THAT THE SUBGRADE DOES NOT DRY OUT OR BECOME SATURATED PRIOR TO PAVEMENT CONSTRUCTION.
8. WHENEVER SOIL INVESTIGATION OR EXCAVATION SHOWS MORE THAN 2 FEET OF EXPANSIVE SUBGRADE, WITH P.I. GREATER THAN 25, THE GEOTECHNICAL ENGINEER OF RECORD SHALL BE CONSULTED FOR ALTERNATIVE PAVEMENT DESIGN MEASURES.
9. AT INTERSECTIONS WHICH HAVE VALLEY DRAINAGE, THE CROWNS OF THE INTERSECTING STREETS WILL CULMINATE IN A DISTANCE OF 40 FEET FROM INTERSECTING CURB LINE UNLESS OTHERWISE NOTED.
10. A CURB LAYDOWN IS REQUIRED AT ALL POINTS WHERE THE PROPOSED SIDEWALK INTERSECTS THE CURB.
11. ALL MACHINE LAID CURB SHALL HAVE EXPANSION JOINTS AT 40' INTERVALS.
12. WHEN USING LIME FOR STABILIZATION OF THE SUBGRADE, IT SHALL BE PLACED IN SLURRY OR PELLET FORM. NO DRY LIME PLACEMENT IS PERMITTED.
13. ALL CURB SHALL BE REINFORCED WITH THREE #4 REBAR. INCLUDE DETAIL IN THE PLANS.
14. A LICENSE AGREEMENT FOR LANDSCAPING MAINTENANCE AND IRRIGATION IN STREET RIGHT–OF–WAYS SHALL BE EXECUTED BY THE DEVELOPER IN PARTY WITH THE CITY OF DRIPPING SPRINGS PRIOR TO FINAL ACCEPTANCE OF THE SUBDIVISION.

SPOIL SITE NOTES:

1. THE TEMPORARY SPOILS DISPOSAL SITE IS TO BE SHOWN ON THE EROSION CONTROL PLAN. THE DEPTH OF SPOIL WILL NOT EXCEED 10 FEET IN ANY AREA.
2. NO PERMANENT SPOILS DISPOSAL ON–SITE EXCEPT AS SHOWN ON THE PLANS.

CONSTRUCTION SEQUENCE:

CALL CITY OF DRIPPING SPRINGS AT 48 HOURS PRIOR TO BEGINNING ANY WORK. CALL 8–1–1 FOR UTILITY LOCATIONS AND OBTAIN PERMIT FOR ANY WORK WITHIN TXDOT OR CITY OF DRIPPING SPRINGS R.O.W.

THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION/SEDIMENTATION CONTROL AND TREE PROTECTION MEASURES AS SHOWN WITHIN THESE PLANS.

THE OWNER OR HIS AUTHORIZED REPRESENTATIVE SHALL CONVENE A PRE–CONSTRUCTION CONFERENCE.

DELIVER STORM SEWER CUT SHEETS TO THE CITY OF DRIPPING SPRINGS.

WITH THE APPROVAL OF ALL AFFECTED PARTIES, THE CONTRACTOR MAY BEGIN CLEARING AND GRUBBING.

DELIVER APPROVED ROUGH CUT & STORM SEWER SHEETS TO THE CITY OF DRIPPING SPRINGS PRIOR TO CLEARING AND GRUBBING.

ROUGH GRADE STREETS. NO DEVELOPMENT OF EMBANKMENT WILL BE PERMITTED AT THIS TIME, EXCEPT AS REQUIRED FOR UTILITY CONSTRUCTION. GEOTECHNICAL ENGINEER TO VERIFY SUBGRADE AND REQUIRED BASE THICKNESS.

DELIVER WATER CUT SHEETS TO CITY OF DRIPPING SPRINGS.

INSTALL ALL UTILITIES TO BE LOCATED ACCORDING TO PLAN. SEE STREET SECTIONS.

BEGIN INSTALLATION OF STORM SEWER LINES. UPON COMPLETION, RESTORE AS MUCH DISTURBED AREA AS POSSIBLE, PARTICULARLY CHANNELS AND LARGE OPEN AREAS. INSTALL INLET PROTECTION AS PER PLANS.

DELIVER FINAL GRADE CUT SHEETS TO CITY OF DRIPPING SPRINGS.

REGRADE STREETS TO SUBGRADE.

ENSURE THAT ALL UNDERGROUND UTILITY CROSSINGS ARE COMPLETED. LAY FIRST COURSE BASE MATERIAL ON ALL SHEETS.

INSTALL CURB

LAY FINAL BASE COURSE ON ALL STREETS.

LAY ASPHALT.

COMPLETE ALL ROUGH GRADING AND UNDERGROUND INSTALLATIONS WITHIN THE R.O.W.

COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL, INCLUDING CONSTRUCTION SPOILS AREA.

COMPLETE ANY NECESSARY FINAL DRESS UP OF AREAS DISTURBED.

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

TCEQ WATER DISTRIBUTION SYSTEM GENERAL CONSTRUCTION NOTES

1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D. WHEN CONFLICTS ARE NOTED WITH LOCAL STANDARDS, THE MORE STRINGENT REQUIREMENT SHALL BE APPLIED. CONSTRUCTION FOR PUBLIC WATER SYSTEMS MUST ALWAYS, AT A MINIMUM, MEET TCEQ'S "RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS.
2. AN APPOINTED ENGINEER SHALL NOTIFY IN WRITING THE LOCAL TCEQ'S REGIONAL OFFICE WHEN CONSTRUCTION WILL START. PLEASE KEEP IN MIND THAT UPON COMPLETION OF THE WATER WORKS PROJECT, THE ENGINEER OR OWNER SHALL NOTIFY THE COMMISSION'S WATER SUPPLY DIVISION, IN WRITING, AS TO ITS COMPLETION AND ATTEST TO THE FACT THAT THE WORK HAS BEEN COMPLETED ESSENTIALLY ACCORDING TO THE PLANS AND CHANGE ORDERS ON FILE WITH THE COMMISSION AS REQUIRED IN 30 TAC §290.39(H)(3).
3. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)/NSF INTERNATIONAL STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI, AS REQUIRED BY 30 TAC §290.44(A)(1).
4. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NSF INTERNATIONAL SEAL OF APPROVAL (NSF–PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS, AS REQUIRED BY 30 TAC §290.44(A)(2).
5. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY, AS REQUIRED BY 30 TAC §290.44(A)(3).
6. WATER TRANSMISSION AND DISTRIBUTION LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE, AS REQUIRED BY 30 TAC §290.44(A)(4).
7. PURSUANT TO 30 TAC §290.44(A)(5), THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY THE MOST CURRENT AWWA FORMULAS FOR PVC PIPE, CAST IRON AND DUCTILE IRON PIPE. INCLUDE THE FORMULAS IN THE NOTES ON THE PLANS.

   - THE HYDROSTATIC LEAKAGE RATE FOR POLYVINYL CHLORIDE (PVC) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C–605 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

WHERE:

$$Q = \frac{LD\sqrt{P}}{148{,}000}$$

- Q = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
- L = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

   - THE HYDROSTATIC LEAKAGE RATE FOR DUCTILE IRON (DI) PIPE AND APPURTENANCES SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY FORMULAS IN AMERICA WATER WORKS ASSOCIATION (AWWA) C–600 AS REQUIRED IN 30 TAC §290.44(A)(5). PLEASE ENSURE THAT THE FORMULA FOR THIS CALCULATION IS CORRECT AND MOST CURRENT FORMULA IS IN USE;

WHERE:

$$Q = \frac{SD\sqrt{P}}{148{,}000}$$

- L = THE QUANTITY OF MAKEUP WATER IN GALLONS PER HOUR,
- S = THE LENGTH OF THE PIPE SECTION BEING TESTED, IN FEET,
- D = THE NOMINAL DIAMETER OF THE PIPE IN INCHES, AND
- P = THE AVERAGE TEST PRESSURE DURING THE HYDROSTATIC TEST IN POUNDS PER SQUARE INCH (PSI).

8. THE MAXIMUM ALLOWABLE LEAD CONTENT OF PIPES, PIPE FITTINGS, PLUMBING FITTINGS, AND FIXTURES TO 0.25 PERCENT.
9. THE SYSTEM MUST BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 35 PSI AT ALL POINTS WITHIN THE DISTRIBUTION NETWORK AT FLOW RATES OF AT LEAST 1.5 GALLONS PER MINUTE PER CONNECTION. WHEN THE SYSTEM IS INTENDED TO PROVIDE FIREFIGHTING CAPABILITY, IT MUST ALSO BE DESIGNED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI UNDER COMBINED FIRE AND DRINKING WATER FLOW CONDITIONS AS REQUIRED BY 30 TAC §290.44(D).
10. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES IN THE DISTRIBUTION SYSTEM AT ALL POINTS WHERE TOPOGRAPHY OR OTHER FACTORS MAY CREATE AIR LOCKS IN THE LINES. ALL VENT OPENINGS TO THE ATMOSPHERE SHALL BE COVERED WITH 16–MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT AS REQUIRED BY 30 TAC §290.44(D)(1).
11. PURSUANT TO 30 TAC §290.44(D)(4), ACCURATE WATER METERS SHALL BE PROVIDED. SERVICE CONNECTIONS AND METER LOCATIONS SHOULD BE SHOWN ON THE PLANS.
12. PURSUANT TO 30 TAC §290.44(D)(5), SUFFICIENT VALVES AND BLOWOFFS TO MAKE REPAIRS. THE ENGINEERING REPORT SHALL ESTABLISH CRITERIA FOR THIS DESIGN.
13. PURSUANT TO 30 TAC §290.44(D)(6), THE SYSTEM SHALL BE DESIGNED TO AFFORD EFFECTIVE CIRCULATION OF WATER WITH A MINIMUM OF DEAD ENDS. ALL DEAD–END MAINS SHALL BE PROVIDED WITH ACCEPTABLE FLUSH VALVES AND DISCHARGE PIPING. ALL DEAD–END LINES LESS THAN TWO INCHES IN DIAMETER WILL NOT REQUIRE FLUSH VALVES IF THEY END AT A CUSTOMER SERVICE. WHERE DEAD ENDS ARE NECESSARY AS A STAGE IN THE GROWTH OF THE SYSTEM, THEY SHALL BE LOCATED AND ARRANGED TO ULTIMATELY CONNECT THE ENDS TO PROVIDE CIRCULATION.
14. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES AND SEPTIC TANK DRAINFIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET 30 TAC §290.44(E)(1–4) OF THE CURRENT RULES.
15. PURSUANT TO 30 TAC §290.44(E)(5), THE SEPARATION DISTANCE FROM A POTABLE WATERLINE TO A WASTEWATER MAIN OR LATERAL MANHOLE OR CLEANOUT SHALL BE A MINIMUM OF NINE FEET. WHERE THE NINE–FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE POTABLE WATERLINE SHALL BE ENCASED IN A JOINT OF AT LEAST 150 PSI PRESSURE CLASS PIPE AT LEAST 18 FEET LONG AND TWO NOMINAL SIZES LARGER THAN THE NEW CONVEYANCE. THE SPACE AROUND THE CARRIER PIPE SHALL BE SUPPORTED AT FIVE–FOOT INTERVALS WITH SPACERS OR BE FILLED TO THE SPRINGLINE WITH WASHED SAND. THE ENCASEMENT PIPE SHALL BE CENTERED ON THE CROSSING AND BOTH ENDS SEALED WITH CEMENT GROUT OR MANUFACTURED SEALANT.
16. PURSUANT TO 30 TAC §290.44(E)(6), FIRE HYDRANTS SHALL NOT BE INSTALLED WITHIN NINE FEET VERTICALLY OR HORIZONTALLY OF ANY WASTEWATER LINE, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE REGARDLESS OF CONSTRUCTION.
17. PURSUANT TO 30 TAC §290.44(E)(7), SUCTION MAINS TO PUMPING EQUIPMENT SHALL NOT CROSS WASTEWATER MAINS, WASTEWATER LATERALS, OR WASTEWATER SERVICE LINES. RAW WATER SUPPLY LINES SHALL NOT BE INSTALLED WITHIN FIVE FEET OF ANY TILE OR CONCRETE WASTEWATER MAIN, WASTEWATER LATERAL, OR WASTEWATER SERVICE LINE.
18. PURSUANT TO 30 TAC §290.44(E)(8), WATERLINES SHALL NOT BE INSTALLED CLOSER THAN TEN FEET TO SEPTIC TANK DRAINFIELDS.
19. PURSUANT TO 30 TAC §290.44(F)(1), THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
20. PURSUANT TO 30 TAC §290.44(F)(2), WHEN WATERLINES ARE LAID UNDER ANY FLOWING OR INTERMITTENT STREAM OR SEMI–PERMANENT BODY OF WATER THE WATER MAIN SHALL BE INSTALLED IN A SEPARATE WATERTIGHT PIPE ENCASEMENT. VALVES MUST BE PROVIDED ON EACH SIDE OF THE CROSSING WITH FACILITIES TO ALLOW THE UNDERWATER PORTION OF THE SYSTEM TO BE ISOLATED AND TESTED.
21. THE CONTRACTOR SHALL DISINFECT THE NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARD C–651 AND THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE DESIGN ENGINEER, IN ACCORDANCE WITH 30 TAC §290.44(F)(3).

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
CONTRIBUTING ZONE PLAN
GENERAL CONSTRUCTION NOTES
TCEQ-0592A (REV. 07/15/2015)

1. A WRITTEN NOTICE OF CONSTRUCTION MUST BE SUBMITTED TO THE TCEQ REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO THE START OF ANY GROUND DISTURBANCE OR CONSTRUCTION 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 SHOULD BE PROVIDED WITH COMPLETE COPIES OF THE APPROVED CONTRIBUTING ZONE PLAN (CZP) AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL. DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTOR(S) SHOULD KEEP COPIES OF THE APPROVED PLAN AND APPROVAL LETTER ON–SITE.
3. NO HAZARDOUS SUBSTANCE STORAGE TANK SHALL BE INSTALLED WITHIN 150 FEET OF WATER SUPPLY SOURCE, DISTRIBUTION SYSTEM, WELL, OR SENSITIVE FEATURE.
4. 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 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..
5. ANY SEDIMENT THAT ESCAPES THE CONSTRUCTION SITE MUST BE COLLECTED AND PROPERLY DISPOSED OF BEFORE HE NEXT RAIN EVENT TO ENSURE IT IS NOT WASHED INTO SURFACE STREAMS, SENSITIVE FEATURES, ETC.
6. SEDIMENT MUST BE REMOVED FROM SEDIMENT TRAPS OR SEDIMENTATION BASINS WHEN IT OCCUPIES 50% OF THE BASIN'S DESIGN CAPACITY.
7. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS EXPOSED TO STORMWATER SHALL BE PREVENTED FROM BEING DISCHARGED OFFSITE.
8. ALL EXCAVATED MATERIAL THAT WILL BE STORED ON–SITE MUST HAVE PROPER E&S CONTROLS.
9. IF PORTION OF THE SITE WILL HAVE A 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.
10. THE FOLLOWING RECORDS SHOULD 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.
11. THE HOLDER OF ANY APPROVED CONTRIBUTING ZONE PLAN MUST NOTIFY THE APPROPRIATE REGIONAL OFFICE IN WRITING AND OBTAIN APPROVAL FROM THE EXECUTIVE DIRECTOR PRIOR TO INITIATING ANY OF THE FOLLOWING:
    A. ANY PHYSICAL OR OPERATIONAL MODIFICATION OF ANY BEST MANAGEMENT PRACTICES (BMP) OR STRUCTURE(S), INCLUDING BUT NOT LIMITED TO TEMPORARY OR PERMANENT PONDS, DAMS, BERMS, SILT FENCES AND DIVERSIONARY STRUCTURES.
    B. ANY CHANGE IN THE NATURE OR CHARACTER OF THE REGULATED ACTIVITY FROM THAT WHICH WAS ORIGINALLY APPROVED.
    C. ANY CHANGE THAT WOULD SIGNIFICANTLY IMPACT THE ABILITY TO PREVENT POLLUTION OF THE EDWARDS AQUIFER; OR
    D. ANY DEVELOPMENT OF LAND PREVIOUSLY IDENTIFIED IN A CONTRIBUTING ZONE PLAN AS UNDEVELOPED.

HAYS COUNTY GENERAL CONSTRUCTION NOTES

TO ALL CONTRACTORS: THESE PLANS ARE NOT TO BE CONSIDERED FINAL FOR CONSTRUCTION UNTIL APPROVED BY HAYS COUNTY. CHANGES MAY BE REQUIRED PRIOR TO APPROVAL.

1. SEVENTY-TWO (72) HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION, THE DEVELOPER SHALL ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH ALL PERTINENT PARTIES.
2. ALL ROADWAY AND DRAINAGE IMPROVEMENTS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS FROM HAYS COUNTY ROAD AND BRIDGE DEPARTMENT PRIOR TO BEGINNING ANY ON-SITE CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE NECESSARY INSPECTIONS FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT. ALL REPAIRS TO IMPROVEMENTS CAUSED BY CONTRACTOR'S FAILURE TO INSTALL IMPROVEMENTS IN ACCORDANCE WITH HAYS COUNTY SPECIFICATIONS AND THESE CONSTRUCTION PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. HAYS COUNTY TRANSPORTATION DEPARTMENT'S ACCEPTANCE OF THE IMPROVEMENTS ARE CONTINGENT ON REPAIRS BEING MADE TO HAYS COUNTY'S SATISFACTION. DELAYS CAUSED BY REPAIRS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
3. A MINIMUM OF TWO (2) BENCHMARKS SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
4. ALL BEDDING MATERIALS USED WITHIN THE ROW SHALL COMPLY WITH COA ITEM 510.
5. ALL CONCRETE PLACED WITHIN THE ROW SHALL BE A MINIMUM OF CLASS A. THE USE OF REBAR CHAIRS AND TESTS CYLINDERS WILL BE REQUIRED ON PCC VALLEY GUTTER PLACEMENTS.
6. THE PROPOSED FULLY DEVELOPED STORMWATER RUNOFF RATE CANNOT EXCEED EXISTING CONDITIONS RUNOFF RATE.
7. DEWATERING OPERATIONS MUST USE SWPPP-SPECIFIED METHODS ONLY. IF SUCH METHODS ARE ONLY GENERAL OR NOT APPLICABLE, PUMP FROM THE TOP OF THE POOL (RATHER THAN THE BOTTOM) AND DISCHARGE TO A VEGETATED, UPLAND AREA (AWAY FROM WATERBODIES OR DRAINAGES) OR USE ANOTHER TYPE OF FILTRATION PRIOR TO DISCHARGE. REFER TO THE EPA 2017 GENERAL CONSTRUCTION PERMIT, SECTION 2.4, AS APPLICABLE.
8. THE CONTRACTOR SHALL SUPPLY QUALIFIED PERSONNEL TO PERFORM SWPPP INSPECTIONS ON PROJECT ≥ 1 ACRE. QUALIFIED PERSONNEL SHALL HAVE CISEC, CESSWI, OR EQUIVALENT CERTIFICATION APPROVED BY THE MS4.
9. CONTRACTOR SHALL ENSURE THAT MUD AND DEBRIS TRACKED ONTO PUBLICLY MAINTAINED ROADWAYS FROM VEHICLES LEAVING THE CONSTRUCTION SITE WILL BE CLEANED UP DAILY.
10. NO EXPLOSIVES SHALL BE USED FOR THIS PROJECT WITHOUT TCEQ APPROVAL.
11. ALL HOLES, TRENCHES AND OTHER HAZARDOUS AREAS SHALL BE ADEQUATELY PROTECTED BY BARRICADES, FENCING, LIGHTS AND/OR OTHER PROTECTIVE DEVICES IN COMPLIANCE WITH COA 509S AND OSHA REGULATIONS AT ALL TIMES.
12. THE CONTRACTOR SHALL SUBMIT A TRENCH SAFETY PLAN PREPARED AND SEALED BY AN ENGINEER LICENSED BY THE STATE OF TEXAS PRIOR TO THE START OF THE PROJECT. THE CONTRACTOR SHALL ASSIGN A COMPETENT PERSON THAT HAS BEEN PROPERLY TRAINED AND IS QUALIFIED TO MAKE INSPECTIONS AND SUPERVISE THE INSTALLATION, MAINTENANCE, AND REMOVAL OF THE TRENCH SAFETY OR EXCAVATION SAFETY SYSTEM.
13. HAYS COUNTY IS NOT RESPONSIBLE FOR SIDEWALK MAINTENANCE. A FULLY EXECUTED LICENSE AGREEMENT MUST BE IN-PLACE PRIOR TO CONSTRUCTION OF SIDEWALKS WITHIN HAYS COUNTY ROW.
14. CONTRACTOR SHALL COMPLY WITH CONSTRUCTION SEQUENCING WHICH MAY BE SPECIFIED SOMEWHERE IN THE CONSTRUCTION PLANS.
15. PERMIT IS REQUIRED FOR CONSTRUCTION IN 'RIGHT OF WAY': ORDINANCE 7.10. NODRIVEWAY, UTILITY CONSTRUCTION, MAILBOXES, LANDSCAPING OR ANY OTHER ENCROACHMENT INTO RIGHT-OF-WAY OR EASEMENT SHALL BE ALLOWED WITHOUT FIRST OBTAINING A PERMIT FROM THE HAYS COUNTY ROAD AND BRIDGE DEPARTMENT.
16. PRIOR TO THE INSTALLATION OF ANY ROAD BUILDING MATERIAL THE SUBGRADE SHALL BE INSPECTED BY HAYS COUNTY. PRIOR TO PAVING, BASE MATERIAL SHALL BE INSPECTED BY HAYS COUNTY. THE OWNER OR HIS AGENT SHALL NOTIFY HAYS COUNTY FORTY-EIGHT (48) HOURS PRIOR TO THE TIME WHEN THE INSPECTION IS NEEDED: ORDINANCE 1.05; 2.06.
17. ALL OUTFALLS CONSTRUCTED WITHIN HAYS COUNTY MUST BE SUBMITTED TO HAYS COUNTY WITH GPS COORDINATES AT THE END OF EACH PROJECT. COORDINATES WILL BE SUBMITTED ON THE NAD 1983 STATE PLANE SOUTH CENTRAL FIPS 4204 FEET COORDINATE SYSTEM. ALL COORDINATES WILL BE SUBMITTED IN GRID UNITS. THE REQUIRED FILE TYPE FOR COORDINATE DATA SUBMISSIONS IS *TXT FORMAT.
18. AT THE TIME A FINAL INSPECTION AND RELEASE OF PERFORMANCE SECURITY IS REQUESTED; THE DESIGN ENGINEER SHALL PROVIDE A COMPLETE SET OF "AS-BUILT" RECORD DRAWINGS IN PDF FORMAT (300DPI) ON A VIRUS FREE DISK AND SHALL CERTIFY THAT ALL ROAD AND DRAINAGE CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL ACCORDANCE WITH PREVIOUSLY APPROVED PLANS AND SPECIFICATIONS, EXCEPT AS NOTED. NO PERFORMANCE SECURITY WILL BE RELEASED WITHOUT THESE EXHIBITS.

AUSTIN REGIONAL OFFICE	SAN ANTONIO REGIONAL OFFICE
12100 PARK 35 CIRCLE, BUILDING A AUSTIN, TEXAS 78753-1808 PHONE (512) 339-2929 FAX (512) 339-3795	14250 JUDSON ROAD SAN ANTINIO, TEXAS 78233-4480 PHONE (210) 490-3096 FAX (210) 545-4329

DOUCET
Civil Engineering // Entitlements // Geospatial
7401 B. Highway 71 W, Ste. 160
Austin, TX 78735, Tel: (512)-583-2600
www.doucetengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

GENERAL NOTES

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

STATE OF TEXAS
SUMITA KADARIYA
120590
LICENSED
PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET 2 OF 37

Project No.: 2408-002

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Silver Creek Subdivision
Date Prepared: 3/6/2023

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Hays	
Total project area included in plan * =	108.52	acres
Predevelopment impervious area within the limits of the plan* =	0.00	acres
Total post-development impervious area within the limits of the plan* =	15.01	acres
Total post-development impervious cover fraction * =	0.14	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	13473	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 4

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

Drainage Basin/Outfall Area No. = 1

NOTE: DRAINAGE BASIN #1 CONTAINS DRAINAGE AREA A1 AND A PORTION OF A2 FROM THE PROPOSED DAM

Total drainage basin/outfall area=	23.79	acres
Predevelopment impervious area within drainage basin/outfall area=	0.00	acres
Post-development impervious area within drainage basin/outfall area=	2.33	acres
Post-development impervious fraction within drainage basin/outfall area=	0.10	
$L_{M\ THIS\ BASIN}$ =	2091	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Grassy Swale
Removal efficiency = 70 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:

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

A_C =	10.58	acres
A_I =	2.33	acres
A_P =	8.25	acres
L_R =	1965	lbs

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

Desired $L_{M\ THIS\ BASIN}$ =	**1965**	lbs.
F =	**1.00**	

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth =	**4.00**	inches
Post Development Runoff Coefficient =	**0.21**	
On-site Water Quality Volume =	**32830**	cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP =	**13.21**	acres
Off-site Impervious cover draining to BMP =	**0.00**	acres
Impervious fraction of off-site area =	**0.00**	
Off-site Runoff Coefficient =	**0.02**	
Off-site Water Quality Volume =	**3836**	cubic feet
Storage for Sediment =	**7333**	
Total Capture Volume (required water quality volume(s) x 1.20) =	**43999**	cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.
THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales Designed as Required in RG-348 Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A =	23.79	acres
Impervious Cover in Drainage Area =	2.33	acres
Rainfall intensity = i =	1.1	in/hr
Swale Slope =	0.015	ft/ft
Side Slope (z) =	3	
Design Water Depth = y =	1.96	ft
Weighted Runoff Coefficient = C =	0.37	

A_{CS} = cross-sectional area of flow in Swale =	15.44	sf
P_W = Wetted Perimeter =	14.40	feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_W =	1.07	feet
n = Manning's roughness coefficient =	0.2	

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

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

$b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} - zy$ = 2.00 feet

Q = CiA = 9.69 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.63 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 188.15 feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver rerun.

15B. Alternative Method using Excel Solver

Design Q = CiA =	9.69 cfs		
Manning's Equation Q =	24.86 cfs	Error 1 =	-15.17
Swale Width=	6.00 ft		

Instructions are provided to the right (green comments).

Flow Velocity	0.63 ft/s		
Minimum Length =	188.15 ft		

Instructions are provided to the right (blue comments).

Design Width =	6 ft		
Design Discharge =	0.93 cfs	Error 2 =	8.76
Design Depth =	0.33 ft		
Flow Velocity =	0.40 cfs		
Minimum Length =	119.38 ft		

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver rerun.
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Silver Creek Subdivision
Date Prepared: 3/6/2023

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
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1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Hays	
Total project area included in plan * =	108.52	acres
Predevelopment impervious area within the limits of the plan* =	0.00	acres
Total post-development impervious area within the limits of the plan* =	15.01	acres
Total post-development impervious cover fraction * =	0.14	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	13473	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 4

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

NOTE: DRAINAGE BASIN 2 CONTAINS ONLY A PORTION OF DRAINAGE AREA A2 AS SHOWN ON THE PROPOSED DAM

Drainage Basin/Outfall Area No. =	2	
Total drainage basin/outfall area=	12.08	acres
Predevelopment impervious area within drainage basin/outfall area=	0.00	acres
Post-development impervious area within drainage basin/outfall area=	1.04	acres
Post-development impervious fraction within drainage basin/outfall area=	0.09	
$L_{M\ THIS\ BASIN}$ =	934	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Grassy Swale
Removal efficiency = 70 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:

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

A_C =	4.63	acres
A_I =	1.04	acres
A_P =	3.59	acres
L_R =	874	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = **874** lbs.

F = **1.00**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = **4.00** inches
Post Development Runoff Coefficient = **0.22**
On-site Water Quality Volume = **14529** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = **7.45** acres
Off-site Impervious cover draining to BMP = **0.00** acres
Impervious fraction of off-site area = **0.00**
Off-site Runoff Coefficient = **0.02**
Off-site Water Quality Volume = **2163** cubic feet

Storage for Sediment = **3339**
Total Capture Volume (required water quality volume(s) x 1.20) = **20031** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.
THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales Designed as Required in RG-348 Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A = 12.08 acres
Impervious Cover in Drainage Area = 1.04 acres
Rainfall intensity = i = 1.1 in/hr
Swale Slope = 0.019 ft/ft
Side Slope (z) = 3
Design Water Depth = y = 1.95 ft
Weighted Runoff Coefficient = C = 0.37

A_{CS} = cross-sectional area of flow in Swale = 15.31 sf
P_W = Wetted Perimeter = 14.33 feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_W = 1.07 feet
n = Manning's roughness coefficient = 0.2

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

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

$b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} - zy$ = 2.00 feet

Q = CiA = 4.85 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.32 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 95.13 feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver rerun.

15B. Alternative Method using Excel Solver

Design Q = CiA =	4.85 cfs		
Manning's Equation Q =	27.69 cfs	Error 1 =	-22.83
Swale Width=	6.00 ft		

Instructions are provided to the right (green comments).

Flow Velocity	0.32 ft/s		
Minimum Length =	95.13 ft		

Instructions are provided to the right (blue comments).

Design Width =	6 ft		
Design Discharge =	1.04 cfs	Error 2 =	3.81
Design Depth =	0.33 ft		
Flow Velocity =	0.45 cfs		
Minimum Length =	134.36 ft		

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver rerun.
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Silver Creek Subdivision
Date Prepared: 3/6/2023

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where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Hays	
Total project area included in plan * =	108.52	acres
Predevelopment impervious area within the limits of the plan* =	0.00	acres
Total post-development impervious area within the limits of the plan* =	15.01	acres
Total post-development impervious cover fraction * =	0.14	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	13473	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 4

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

NOTE: DRAINAGE BASIN #3 CONTIANS BOTH DRAINAGE AREAS B1 & B2 FROM THE PROPOSED DAM

Drainage Basin/Outfall Area No. =	3	
Total drainage basin/outfall area=	22.10	acres
Predevelopment impervious area within drainage basin/outfall area=	0.00	acres
Post-development impervious area within drainage basin/outfall area=	1.53	acres
Post-development impervious fraction within drainage basin/outfall area=	0.07	
$L_{M\ THIS\ BASIN}$ =	1373	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Grassy Swale
Removal efficiency = 70 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:

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

A_C =	3.82	acres
A_I =	1.53	acres
A_P =	2.29	acres
L_R =	1251	lbs

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

Desired $L_{M\ THIS\ BASIN}$ = **1251** lbs.

F = **1.00**

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth = **4.00** inches
Post Development Runoff Coefficient = **0.31**
On-site Water Quality Volume = **17035** cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP = **18.28** acres
Off-site Impervious cover draining to BMP = **0.00** acres
Impervious fraction of off-site area = **0.00**
Off-site Runoff Coefficient = **0.02**
Off-site Water Quality Volume = **5309** cubic feet

Storage for Sediment = **4469**
Total Capture Volume (required water quality volume(s) x 1.20) = **26813** cubic feet

The following sections are used to calculate the required water quality volume(s) for the selected BMP.
The values for BMP Types not selected in cell C45 will show NA.
THE SIZING REQUIREMENTS FOR THE FOLLOWING BMPs / LOAD REMOVALS ARE BASED UPON FLOW RATES - NOT CALCULATED WATER QUALITY VOLUMES

15. Grassy Swales Designed as Required in RG-348 Pages 3-51 to 3-54

Design parameters for the swale:

Drainage Area to be Treated by the Swale = A = 22.10 acres
Impervious Cover in Drainage Area = 1.53 acres
Rainfall intensity = i = 1.1 in/hr
Swale Slope = 0.02 ft/ft
Side Slope (z) = 3
Design Water Depth = y = 2.22 ft
Weighted Runoff Coefficient = C = 0.36

A_{CS} = cross-sectional area of flow in Swale = 19.23 sf
P_W = Wetted Perimeter = 16.04 feet
R_H = hydraulic radius of flow cross-section = A_{CS}/P_W = 1.20 feet
n = Manning's roughness coefficient = 0.2

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

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

$b = \frac{0.134 \times Q}{y^{1.67} S^{0.5}} - zy$ = 2.00 feet

Q = CiA = 8.71 cfs

To calculate the flow velocity in the swale:

V (Velocity of Flow in the swale) = Q/A_{CS} = 0.45 ft/sec

To calculate the resulting swale length:

L = Minimum Swale Length = V (ft/sec) * 300 (sec) = 135.95 feet

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters must be modified and the solver rerun.

15B. Alternative Method using Excel Solver

Design Q = CiA = 8.71 cfs

Manning's Equation Q =	37.10	cfs	Error 1 =	-28.39
Swale Width=	6.00	ft		

Instructions are provided to the right (green comments).

Flow Velocity	0.45	ft/s
Minimum Length =	135.95	ft

Instructions are provided to the right (blue comments).

Design Width =	6	ft		
Design Discharge =	1.07	cfs	Error 2 =	7.64
Design Depth =	0.33	ft		
Flow Velocity =	0.46	cfs		
Minimum Length =	137.85	ft		

If any of the resulting values do not meet the design requirement set forth in RG-348, the design parameters may be modified and the solver rerun.
If any of the resulting values still do not meet the design requirement set forth in RG-348, widening the swale bottom value may not be possible.

Texas Commission on Environmental Quality

TSS Removal Calculations 04-20-2009

Project Name: Silver Creek Subdivision
Date Prepared: 3/6/2023

Additional information is provided for cells with a red triangle in the upper right corner. Place the cursor over the cell.
Text shown in blue indicate location of instructions in the Technical Guidance Manual - RG-348.
Characters shown in red are data entry fields.
Characters shown in black (Bold) are calculated fields. Changes to these fields will remove the equations used in the spreadsheet.

1. The Required Load Reduction for the total project: Calculations from RG-348 Pages 3-27 to 3-30

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

where:

$L_{M\ TOTAL\ PROJECT}$ = Required TSS removal resulting from the proposed development = 80% of increased load
A_N = Net increase in impervious area for the project
P = Average annual precipitation, inches

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

County =	Hays	
Total project area included in plan * =	108.58	acres
Predevelopment impervious area within the limits of the plan* =	0.00	acres
Total post-development impervious area within the limits of the plan* =	15.01	acres
Total post-development impervious cover fraction * =	0.14	
P =	33	inches
$L_{M\ TOTAL\ PROJECT}$ =	13473	lbs.

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

Number of drainage basins / outfalls areas leaving the plan area = 4

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

Drainage Basin/Outfall Area No. = 4

NOTE: DRAINAGE BASIN #4 CONTAINS THE DRAINAGE AREA 'C' FROM THE PROPOSED DAM

Total drainage basin/outfall area=	50.55	acres
Predevelopment impervious area within drainage basin/outfall area=	0.00	acres
Post-development impervious area within drainage basin/outfall area=	10.11	acres
Post-development impervious fraction within drainage basin/outfall area=	0.20	
$L_{M\ THIS\ BASIN}$ =	9075	lbs.

3. Indicate the proposed BMP Code for this basin.

Proposed BMP = Vegetated Filter Strips
Removal efficiency = 85 percent

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

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

RG-348 Page 3-33 Equation 3.7: L_R = (BMP efficiency) x P x (A_I x 34.6 + A_P x 0.54)

where:

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

A_C =	50.55	acres
A_I =	10.11	acres
A_P =	40.44	acres
L_R =	10425	lbs

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

Desired $L_{M\ THIS\ BASIN}$ =	**10425**	lbs.
F =	**1.00**	

6. Calculate Capture Volume required by the BMP Type for this drainage basin / outfall area. Calculations from RG-348 Pages 3-34 to 3-36

Rainfall Depth =	**4.00**	inches
Post Development Runoff Coefficient =	**0.20**	
On-site Water Quality Volume =	**147502**	cubic feet

Calculations from RG-348 Pages 3-36 to 3-37

Off-site area draining to BMP =	**0.00**	acres
Off-site Impervious cover draining to BMP =	**0.00**	acres
Impervious fraction of off-site area =	**0**	
Off-site Runoff Coefficient =	**0.00**	
Off-site Water Quality Volume =	**0**	cubic feet
Storage for Sediment =	**29500**	
Total Capture Volume (required water quality volume(s) x 1.20) =	**177002**	cubic feet

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

16. Vegetated Filter Strips Designed as Required in RG-348 Pages 3-55 to 3-57

There are no calculations required for determining the load or size of vegetative filter strips.
The 80% removal is provided when the contributing drainage area does not exceed 72 feet (direction of flow) and the sheet flow leaving the impervious cover is directed across 15 feet of engineered filter strips with maximum slope of 20% or across 50 feet of natural vegetation with a maximum slope of 10%. There can be a break in grade as long as no slope exceeds 20%.

If vegetative filter strips are proposed for an interim permanent BMP, they may be sized as described on Page 3-56 of RG-348.

ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR & RETROFIT PLAN

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT N

INSPECTION, MAINTENANCE, REPAIR & RETROFIT PLAN

The following guidelines should be used for the maintenance plan for the grassy swales and vegetated filter strip being utilized to treat runoff from the Silver Creek Subdivision for water quality.

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

- ***Pest Management.*** An Integrated Pest Management (IPM) Plan should be developed for vegetated areas. This plan should specify how problem insects and weeds will be controlled with minimal or no use of insecticides and herbicides.
- ***Seasonal Mowing and Lawn Care.*** Lawn mowing should be performed routinely, as needed, throughout the growing season. Grass height should not exceed 18 inches. Grass cuttings should be collected and disposed of offsite, or a mulching mower can be used. Regular mowing should also include weed control practices; however, herbicide use should be kept to a minimum (Urbonas et al., 1992). Healthy grass can be maintained without using fertilizers because runoff usually contains sufficient nutrients.
- ***Inspection.*** Inspect swales at least twice annually for erosion or damage to vegetation; however, additional inspection after periods of heavy runoff is most desirable. The swale should be checked for uniformity of grass cover, debris and litter, and areas of sediment accumulation. More frequent inspections of the grass cover during the first few years after establishment will help to determine if any problems are developing, and to plan for long-term restorative maintenance needs. Bare spots and areas of erosion identified during semi-annual inspections should be replanted and restored to meet specifications. Construction of a level spreader device may be necessary to reestablish shallow overland flow.
- ***Debris and Litter Removal.*** Trash tends to accumulate in swale areas, particularly along highways. Any swale structures (i.e. check dams) should be kept free of obstructions to reduce floatables being flushed downstream, and for aesthetic reasons. The need for this practice is determined through periodic inspection, but should be performed no less than two times per year (Urbonas et al., 1992).
- ***Sediment Removal.*** Sediment accumulating near culverts and in channels needs to be removed when they build up to 3 inches at any spot, or cover vegetation. Excess sediment should be removed by hand or with flat-bottomed shovels. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level with the bottom of the swale. Sediment removal should be performed periodically, as determined through inspection.
- ***Grass Reseeding and Mulching.*** A healthy dense grass should be maintained on the filter strip. If areas are eroded, they should be filled, compacted, and reseeded so that the final grade is level. Grass damaged during the sediment removal process should be promptly replaced using the same seed mix used during filter strip establishment. If possible, flow should be diverted from the damaged areas until the grass is firmly established. Bare spots and areas of erosion identified during semi-annual inspections must be replanted and restored to meet specifications. Corrective maintenance, such as weeding or replanting should be done more frequently in the first two to

three years after installation to ensure stabilization. Dense vegetation may require irrigation immediately after planting, and during particularly dry periods, particularly as the vegetation is initially established.

Record Keeping:

Maintenance and inspection records should be kept on file by the Owner of the permanent BMP's for a period of at least three (3) years. Repair and retrofit records should be kept on file by the Owner of the permanent BMP's for a period of at least five (5) years.

Dripping Springs Owner, LLC

Brian Sewell / Chief Operating Officer
Print Name / Title

Signature

4/06/23
Date

PREPARED AND CERTIFIED BY ENGINEER:

Sumita

4/28/2023
Date

Sumita Kadariya, P.E.
Doucet
TBPE Firm #3937

ATTACHMENT O

PILOT-SCALE FIELD TESTING PLAN

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

(NOT APPLICABLE)

ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

CONTRIBUTING ZONE PLAN APPLICATION (TCEQ-10257)

ATTACHMENT P

MEASURES FOR MINIMIZING SURFACE STREAM CONTAMINATION

During construction, standard erosion measures will be used as shown in the construction plans. The entire construction site will be contained by a silt fence until construction is complete. Entry and exit from the site will be through a stabilized construction entrance.

After completion of the project, temporary erosion and sedimentation measures (silt fence and rock berm) will remain in place until vegetative cover is established. Details concerning the erosion/sedimentation protection plan can be found on the Erosion & Sedimentation Control Plans (sheets 5-6) of the construction drawings; see Section 9 of this application.

SECTION 3

STORM WATER POLLUTION PREVENTION PLAN

(SWPPP)

STORMWATER POLLUTION PREVENTION PLAN

TABLE OF CONTENTS

ATTACHMENTS

APPENDICES

Certification Page

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sign as required by 30 TAC 305.128

Signature of Primary Operator:

Signed: _____ Date: _____ TPDES#: _____
Brian Sewell

Company: Dripping Springs Owner, LLC Date NOI was submitted to MS4: _____

If plan is shared by more than one entity (other Operators):

Signed: _____ Date: _____ TPDES#: _____

Company: _____ Date NOI was submitted to MS4: _____

I. EXECUTIVE SUMMARY

The general contractor, and all subcontractors involved with a construction activity that disturbs site soil or who implement a pollutant control measure identified in the Storm Water Pollution Prevention Plan (SWPPP) must comply with the following requirements of the Texas Pollution Discharge Elimination Systems (TPDES) General Permit, as transferred to TCEQ, and any local governing agency having jurisdiction concerning erosion and sedimentation control:

A. The contractor shall notify the following agencies 48 hours prior to construction and shall have a pre-construction meeting prior to start of construction. The Contractor shall notify the City of Dripping Springs, Hays County, TCEQ and Doucet at least 48 hours prior to the pre-construction meeting. The contractor shall have erosion control plans and copy of approved Contributing Zone Plan available for review and discussion. A representative from each of the following agencies or companies, but not limited to the following, shall be present at the pre-construction meeting.

City of Dripping Springs	(512) 858-4725
Hays County	(512) 393-2150
TCEQ	(512) 339-2929
Doucet	(512) 583-2600

B. The Silver Creek Subdivision site is located in the Contributing Zone to the Edwards Aquifer which is regulated by the Texas Commission on Environmental Quality. Contractor must adhere to the approved Contributing Zone Plan (hard copy kept on site) and TCEQ Contributing Zone Plan General Construction Notes listed on sheet 3 of the approved Construction Plans.

C. A copy of the Site Notice and Notice of Intent (NOI) and a description of the project must be posted in a prominent place for public viewing at the construction site.

D. The contractor must mail a copy of the NOI and Construction Site Notice to the MS4 Operator – the City of Dripping Springs at P.O. Box 384, Dripping Springs, TX 78620.

E. Complete copy of the SWPPP, including copies of all inspection reports, plan revisions, etc., must be retained at the project site at all times during working hours and kept in the permanent project records for at least three years following completion of construction.

F. As described previously, regular inspections must be made to determine effectiveness of the SWPPP. It shall be modified as needed to prevent pollutants from discharging from the site. The inspector must be a person familiar with the site, the nature of the major construction activities, and qualified to evaluate both overall system performance and individual component performance. Additionally, the inspector must either be someone empowered to implement modifications to this SWPPP and the pollutant control devices, if needed, in order to increase effectiveness to an acceptable level, or someone with the authority to cause such things to happen.

G. Oil and hazardous substances releases are to be reported per TCEQ and Federal requirements. For the TCEQ, it's 55 gallons, and EPA depends on the type of substance according to the codified Reportable Quantity.

H. This SWPPP intends to control water-borne and liquid pollutant discharges by some combination of interception, filtration, and containment. The general contractor and subcontractors implementing this SWPPP must remain alert to the need to periodically refine and update the SWPPP in order to accomplish the intended goals.

I. This SWPPP must be amended as necessary during the course of construction in order to keep it current with the pollutant control measures utilized at the site. Amending the SWPPP does not mean that it has to be reprinted. It is acceptable to add addenda, sketches, and/or revised drawings.

J. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated must be maintained until final site stabilization is achieved. A log for keeping such records is included in the Appendices. A different form for the log may be substituted if it is found to be more useful.

II. INTRODUCTION

This SWPPP has been prepared for major activities associated with construction of Silver Creek Subdivision located on Silver Creek Rd., approximately 4,100 ft. southwest of the intersection with Fitzhugh Rd. in the extraterritorial jurisdiction (ETJ) of Dripping Springs, Texas. This SWPPP includes the elements necessary to comply with the TPDES General Permit for construction activities formerly administered by the U.S. Environmental Protection Agency (EPA) under the Texas Pollutant Discharge Elimination System (TPDES) program, as transferred to TCEQ, and all local governing agency requirements. This SWPPP must be implemented before the start of construction.

Construction phase pollutant sources anticipated at the site are disturbed (bare) soil, vehicle fuels and lubricants, chemicals associated with pavement construction, and pavement materials. Without adequate control there is the potential for each type of pollutant to be transported by storm water.

Project construction will consist primarily of site grading, paving, storm drainage, on-site sewage facility for each lot, water line, water supply well and aboveground storage tank for fire protection. This project will utilize grassy swales and vegetated filter strips for water quality treatment.

A. Purpose

A major goal of pollution prevention efforts during project construction is to control soil and pollutants that originate on the site and prevent them from flowing to surface waters. The purpose of this SWPPP is to provide guidelines for achieving that goal. A successful pollution prevention program also relies upon careful inspection and adjustments during the construction process in order to enhance its effectiveness.

B. Scope

This SWPPP must be implemented before construction begins on the site. It primarily addresses the impact of storm rainfall and runoff on areas of the ground surface disturbed during the construction process. In addition, there are recommendations for controlling other sources of pollution that could accompany the major construction activities. This SWPPP will terminate when disturbed areas are stabilized, construction activities covered herein have ceased.

Particular forms are included which are necessary for implementing the SWPPP.

The TPDES General Permit, see Appendix E, for Storm Water Discharges from Construction Activities, as transferred to TCEQ, prohibits most non-storm water discharges during the construction phase. Allowable non-storm water discharges that could occur during construction on this project, which would therefore be covered by the General Permit, include:

1. Discharges from firefighting activities;
2. Fire hydrant flushing;
3. Water used to wash vehicles or control dust;
4. Water flowing from potable sources and water line flushing;
5. Irrigation drainage;
6. External building wash down which does not use detergents;
7. Runoff from pavement wash down where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents have not been used;
8. Air conditioning condensate;
9. Springs and uncontaminated groundwater; and
10. Foundation or footing drains where flows are not contaminated with process materials such as solvents.
11. The techniques described in this SWPPP focus on providing control of pollutant discharges with practical approaches that utilize readily available expertise, materials, and equipment. The Owner referred to in this SWPPP is Dripping Springs Owner, LLC. The general contractor will construct the site while working under contract with the owner.

PROJECT DESCRIPTION

Described below are the major construction activities that are the subject of this SWPPP. They are presented in the order (or sequence) they are expected to begin, but each activity will not necessarily be completed before the next begins. Also, these activities could occur in a different order if necessary to maintain adequate erosion and sedimentation control:

A. Call City of Dripping Springs and Hays County at least 48 hours prior to beginning any work. Call the One Call Center at 512-472-2822 for utility locations and obtain permit for any work within TxDOT or Hays County right-of-way.

B. The Contractor shall install temporary erosion/sedimentation control and tree protection measures shown within these plans.

C. The Owner or his authorized representative shall convene a Pre-Construction Conference.

D. With the approval of all affected parties, the Contractor may begin clearing and grubbing.

E. Complete all grading and underground installations within the project.

F. Complete driveways and roadway (pavement construction).

G. Complete building construction.

H. Complete permanent erosion control and restoration of site vegetation.

I. Remove and dispose of temporary erosion control, including construction spoils area.

J. Complete any necessary final dress up of areas disturbed.

K. If disturbed area is not to be worked on for more than 14 days, disturbed area needs to be stabilized by re-vegetation, mulch, tarp or revegetation matting.

The actual schedule for implementing pollutant control measures will be determined by project construction progress. Down slope protective measures must always be in place before soil is disturbed.

III. SITE DESCRIPTION

Included as part of this SWPPP are the project construction drawings. Refer to them for detailed site information.

A. Site Location – The 70-acre site is located on Silver Creek Rd. approximately 4,100 ft. southwest of the intersection with Fitzhugh Rd. in the ETJ of Dripping Springs, Texas. Water will be provided by on-site water well system, 3-inch waterline to serve each lot and a 150-foot septic tank soil absorption system setback is provided for the water well. Wastewater will be provided by individual on-site sewage facility with septic spray field

for each lot as approved by Hays County. An aboveground storage tank with hose connection will be provided for fire protection as approved by the Hays County Fire Marshal.

B. Site Topography – The site consists of predominantly undeveloped land. Topography throughout the site is moderate with a 25-foot water quality buffer zone established along Barton Creek. The Site wanders from Barton Creek at 1000 ft (amsl) up to 1100 ft amsl. The site generally slopes to the south towards Barton Creek. Barton Creek is part of the City of Austin Colorado River Watershed. Colorado River Basin is a Traditional Navigable Waterway. Existing trees are scattered throughout the property. In the existing and proposed overall conditions, drainage from the site generally conveys from north to south towards Barton Creek. This project proposes grassy swales along the street right of way to capture and treat the storm runoff conveyed from each drainage basin before it discharges to Barton Creek. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging in Barton Creek.

C. Rainfall Information – The typical yearly rainfall pattern for the Dripping Springs area is approximately 36 inches per year.

D. Site Soils – The majority of all drainage basins are comprised of Type D soils, with small portions of the onsite property (along Barton Creek) comprised of Types A, B and C soils.

E. Total Area and Disturbed Area - The total project area (size of site) is 70 acres and disturbed area is 9.85 acres. The site will be disturbed for site grading, paving, storm drainage, water supply and water lines. Project construction will consist primarily of site grading, paving, storm drainage, on-site sewage facility for each lot, water supply well and aboveground storage tank for fire protection. This project will utilize grassy swales and vegetated filter strips for water quality treatment.

F. Quality Receiving Surface Waters and Wetlands Waters and Wetlands – The project site discharges primarily to the southwest to Barton Creek after being captured and treated by grassy swales along the street right of way. For the area west of Skyward Lane, vegetative filter strips are provided to treat stormwater runoff sheet flowing from the site prior to discharging to Barton Creek. A portion of the site is located within the 100-year and 500-year floodplain as indicated by FIRM Panel No. 48209C0106F, effective date 9/2/2005.

G. Erosion Control Plan – Erosion control plans are included in the Construction Documents on sheets 8-9.

IV. STORM WATER POLLUTION PREVENTION MEASURES AND CONTROLS

A variety of storm water pollutant controls are recommended for this project. Some controls are intended to function temporarily and will be used as needed for pollutant control during the construction period. These include temporary sediment barriers and a temporary sediment basin.

For most disturbed areas, permanent stabilization will be accomplished by covering the soil with pavement, or vegetation.

A. Erosion and Sediment Controls

1. Soil Stabilization - The purpose of soil stabilization is to prevent soil from leaving the site. In the natural condition, soil is stabilized by native vegetation. The primary technique to be used at this project for stabilizing site soil will be to provide a protective cover of grass, pavement, or building.

(a) Temporary Seeding - Within 14 days after construction activity ceases on any particular area, all disturbed ground where there will not be construction for longer than 21 days must be seeded with fast-germinating temporary seed and protected with mulch.

(b) Permanent Seeding - All areas at final grade must be seeded within 14 days after completion of the major construction activity

(c) Structural Controls – The stormwater runoff from the site will be routed through underground storm sewer lines to the detention ponds.

B. Other Pollutant Controls

Control of sediments has been described previously. Other aspects of this SWPPP are listed below:

1. Dust Control - Construction traffic must enter and exit the site at the stabilized construction entrance. The purpose is to trap dust and mud that would otherwise be carried off-site by construction traffic.

Water trucks will be used as needed during construction to reduce dust generated on the site. Dust control must be provided by the general contractor to a degree that is acceptable to the Construction Manager, and in compliance with applicable local and state dust control regulations. After construction, the site will be stabilized (as described elsewhere), which will reduce the potential for dust generation.

2. Solid Waste Disposal - No solid materials, including building materials, are allowed to be discharged from the site with storm water. All solid waste, including disposable materials incidental to the major construction activities, must be collected and placed in containers. The containers will be emptied periodically by a contract trash disposal service and hauled away from the site.

Substances that have the potential for polluting surface and/or groundwater must be controlled by whatever means necessary in order to ensure that they do not discharge from the site. As an example, special

care must be exercised during equipment fueling and servicing operations. If a spill occurs, it must be contained and disposed so that it will not flow from the site or enter groundwater, even if this requires removal, treatment, and disposal of soil. In this regard, potentially polluting substances should be handled in a manner consistent with the impact they represent.

3. Sanitary Facilities - All personnel involved with construction activities must comply with state and local sanitary or septic system regulations. Temporary sanitary facilities will be provided at the site throughout the construction phase. They must be utilized by all construction personnel and will be serviced by a commercial operator.

4. Long-Term Pollutant Controls - Storm water pollutant control measures installed during construction, that will also provide benefits after construction, include permanent detention ponds, grass lined channels, rip-rapped outfalls, grass coverage, etc. Those sediment barriers that do not interfere with normal operations and appear to provide long-term benefits can be left in place after construction is completed.

C. Construction Phase "Best Management Practices"

During the construction phase, the general contractor will implement the following measures:

1. Material resulting from the clearing and grubbing operation will be stockpiled up slope from adequate sedimentation controls.
2. Use of detergents for large scale washing is prohibited (i.e., vehicles, pavement surfaces, etc.)
3. Chemicals, paints, solvents, fertilizers, and other toxic material must be stored in waterproof containers. Except during application, the contents must be kept in trucks or within storage facilities. Runoff containing such material must be collected, removed from the site, treated, and disposed at an approved solid waste or chemical disposal facility.
4. Procedures and/or practices should be taken to control dust.
5. Sediment to be removed from roadways daily or when work begins after weather events if construction activities have ceased due to weather event.

V. LOCAL PLANS

In addition to this SWPPP, construction activities associated with this project must comply with any guidelines set forth by local regulatory agencies.

VI. INSPECTIONS AND SYSTEM MAINTENANCE

The general contractor may choose to use a third party to install erosion controls, conduct inspections and maintain the inspections log.

Between the time this SWPPP is implemented and final site stabilization is achieved, all disturbed areas and pollutant controls must be inspected every seven calendar days. The purpose of site inspections is to assess performance of pollutant controls. The general contractor's designated representative will conduct the inspections. Based on these inspections, the general contractor will decide whether it is necessary to modify this SWPPP, add or relocate sediment barriers, or whatever else may be needed in order to prevent pollutants from leaving the site via storm water runoff. The general contractor has the duty to cause pollutant control measures to be repaired, modified, maintained, supplemented, or whatever else is necessary in order to achieve effective pollutant control.

Examples of particular items to evaluate during site inspections are listed below. This list is not intended to be comprehensive. During each inspection the inspector must evaluate overall pollutant control system performance as well as particular details of individual system components. Additional factors should be considered as appropriate to the circumstances.

A. **Temporary Construction Entrance/Exit**

Locations where vehicles enter and exit the site must be inspected for evidence of off-site sediment tracking. A stabilized construction entrance will be constructed where vehicles enter and exit and maintained as followed:

1. The entrance should be maintained in a condition, which will prevent tracking or flowing of sediment onto public rights-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.

2. All sediment spilled, dropped, washed or tracked onto public rights-of-way should be removed immediately by contractor.

3. When necessary, wheels should be cleaned to remove sediment prior to entrance onto public right-of-way.

4. 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.

5. All sediment should be prevented from entering any storm drain, ditch or water course by using approved methods.

B. **Silt Fence**

1. Inspect all fencing weekly, and after any rainfall.

2. Remove sediment when buildup reaches 6 inches.

3. Replace any torn fabric or install a second line of fencing parallel to the torn section.

4. Replace or repair any sections crushed or collapsed in the course of construction activity. If a section of fence is obstructing vehicular access, consider relocating it to a spot where it will provide equal protection, but will not obstruct vehicles. A

triangular filter dike may be preferable to a silt fence at common vehicle access points.

5. When construction is complete, the sediment should be disposed of in a manner that will not cause additional siltation and the prior location of the silt fence should be revegetated. The fence itself should be disposed of in an approved landfill.

C. **Rock Berm**

1. Inspection should be made weekly and after each rainfall by the responsible party. For installations in streambeds, additional daily inspections should be made.

2. Remove sediment and other debris when buildup reaches 6 inches and dispose of the accumulated silt in an approved manner that will not cause any additional siltation.

3. Repair any loose wire sheathing.

4. The berm should be reshaped as needed during inspection.

5. 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.

6. The rock berm should be left in place until all upstream areas are stabilized and accumulated silt removed.

D. **Concrete Washout**

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.
- Perform washout of concrete trucks in designated areas only. • Do not wash out concrete trucks into storm drains, open ditches, streets, or streams.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- For onsite washout:
    - Locate washout area at least 50 feet from sensitive features, storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
    - Washout wastes into the temporary pit where the concrete can set, be broken up, and then disposed properly.

- When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and disposed of. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and disposed of. Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

E. Inspections will evaluate disturbed areas and areas used for storing materials that are exposed to rainfall for evidence of, or the potential for, pollutants entering the drainage system. If necessary, the materials must be covered, or original covers must be repaired or supplemented. Also, protective berms must be constructed, if needed, in order to contain runoff from material storage areas.

F. Grassed areas will be inspected to confirm that a healthy stand of grass is maintained. The site has achieved final stabilization once all areas are covered with building foundation or pavement or have a stand of grass with at least 70 percent density. The density of 70 percent or greater must be maintained to be considered as stabilized. Areas must be watered, fertilized, and reseeded as needed to achieve this goal.

G. All discharge points must be inspected to determine whether erosion control measures are effective in preventing significant impacts to receiving waters.

Based on inspection results, any modification necessary to increase effectiveness of this SWPPP to an acceptable level must be made within seven calendar days of the inspection. The inspection reports must be completed entirely, and additional remarks should be included if needed to fully describe a situation. An important aspect of the inspection report is the description of additional measures that need to be taken to enhance plan effectiveness. The inspection report must identify whether the site was in compliance with the SWPPP at the time of inspection and specifically identify all incidents of non-compliance.

The general contractor as an integral part of this SWPPP must keep inspection reports on file for at least three years from the date of completion of the project.

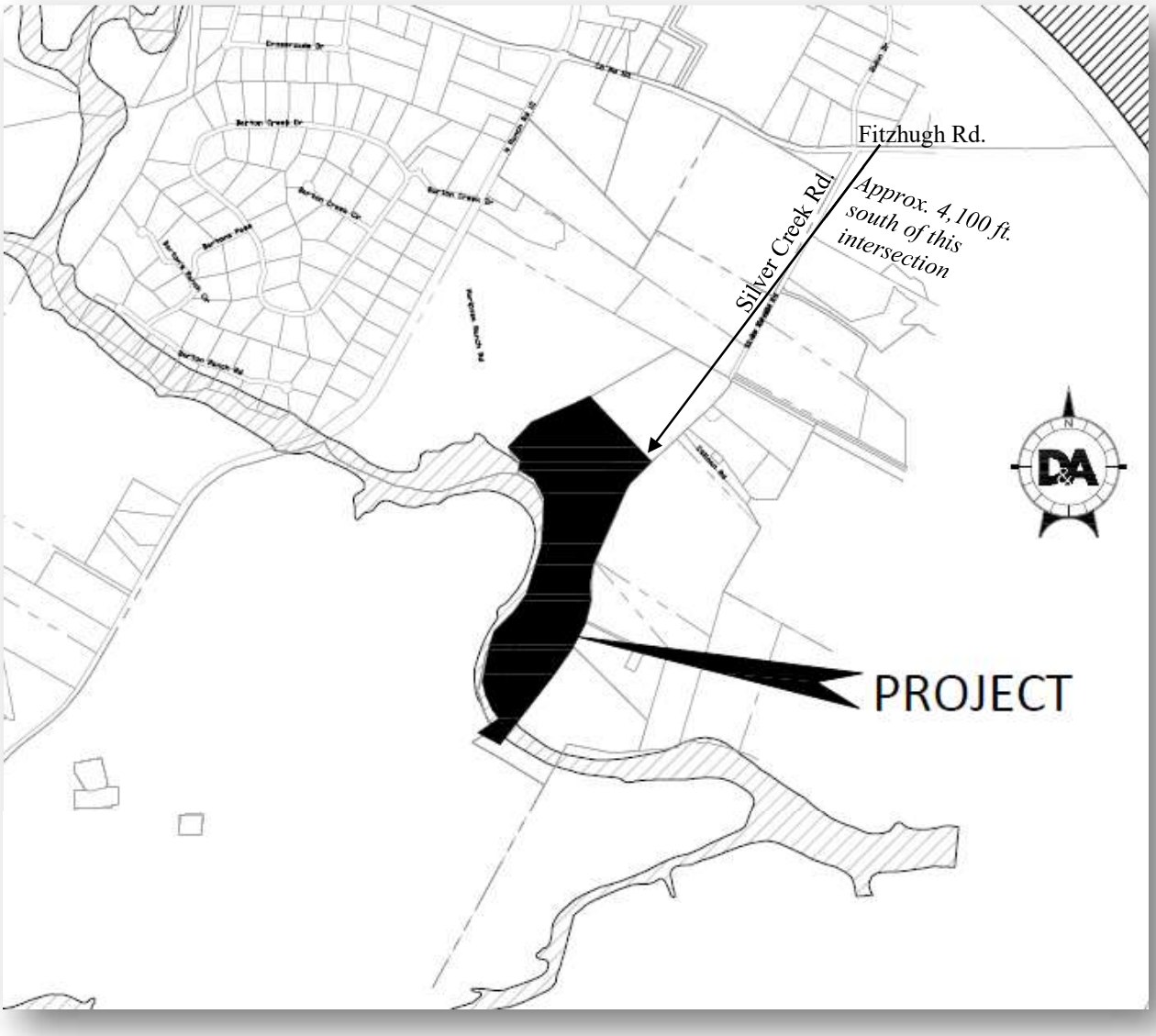
Ultimately, it is the responsibility of the general contractor to assure the adequacy of site pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more structural controls than are shown on the plans. (For example, localized concentrations of runoff could make it necessary to install additional sediment barriers.) Assessing the need for additional controls and implementing them or adjusting existing controls will be a continuing aspect of this SWPPP until the site achieves final stabilization.

ATTACHMENT A

LOCATION MAP

ATTACHMENT A

LOCATION MAP



Silver Creek Rd., approximately 4,100 ft. southwest of the intersection with Fitzhugh Rd.
Dripping Springs, TX 78620

ATTACHMENT B

DRAINAGE AREA MAPS (EXISTING & PROPOSED)

TIME OF CONCENTRATION CALCULATIONS (BASED FROM COA DCM)

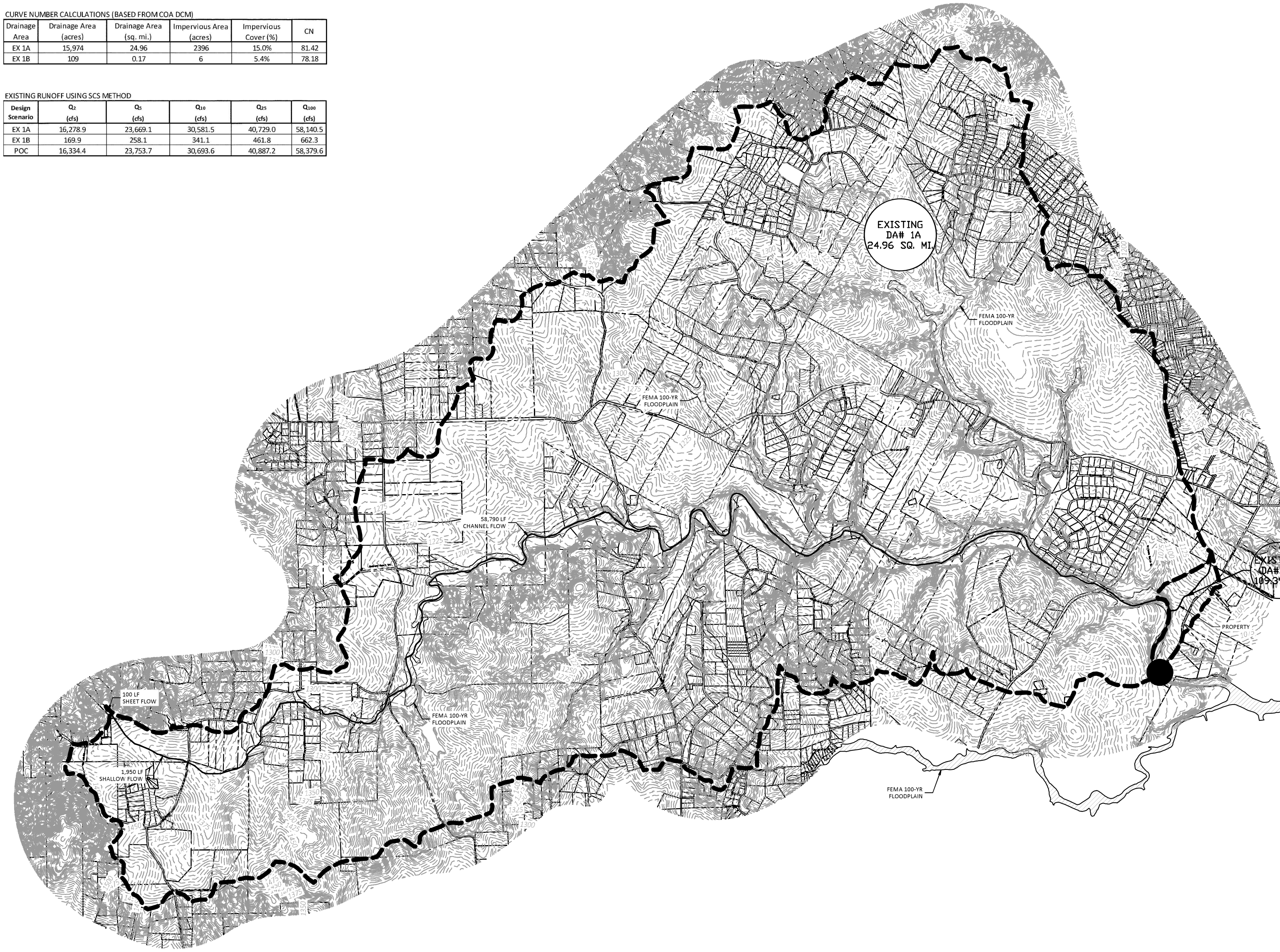
Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Sheet Flow					Shallow Concentrated Flow					Channel/Storm Drain Flow							Time of Concentration	Lag Time
			Length	n	ΔElev	Slope	Sub Tc	Length	ΔElev	Slope	n	Sub Tc	Length	Velocity	n	Slope	Area (sf)	Pw (ft)	Sub Tc		
EX 1A	15,974	24.96	100	0.15	2.97	0.030	7.44 min	1,950	63.03	0.032	0.05	11.21	58,790	16.07	0.03	0.007	4594.25	591.72	60.99 min	79.64	47.78
EX 1B	109	0.17	100	0.15	1	0.010	11.49 min	2,693	92.65	0.034	0.05	14.99	250	44.60	0.03	0.239	310.50	124.60	0.09 min	26.58	15.95

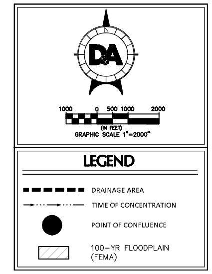
CURVE NUMBER CALCULATIONS (BASED FROM COA DCM)

Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Impervious Area (acres)	Impervious Cover (%)	CN
EX 1A	15,974	24.96	2396	15.0%	81.42
EX 1B	109	0.17	6	5.4%	78.18

EXISTING RUNOFF USING SCS METHOD

Design Scenario	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
EX 1A	16,278.9	23,669.1	30,581.5	40,729.0	58,140.5
EX 1B	169.9	258.1	341.1	461.8	662.3
POC	16,334.4	23,753.7	30,693.6	40,887.2	58,379.6





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Austin, TX 78735, Tel: (512)-583-2600
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TBPELS Firm Number: 10105800

OVERALL EXISTING DRAINAGE AREA MAP

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA
120590
LICENSED
PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET
26
OF 37

Project No.:
2408-002

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Plot Date/Time: Jun. 07, 23 - 09:27:53

TIME OF CONCENTRATION CALCULATIONS (BASED FROM COA DCM)

Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Sheet Flow					Shallow Concentrated Flow					Channel/Storm Drain Flow							Time of Concentration	Lag Time
			Length	n	ΔElev	Slope	Sub Tc	Length	ΔElev	Slope	n	Sub Tc	Length	Velocity	n	Slope	Area (sf)	Pw (ft)	Sub Tc		
EX 1A	15,974	24.96	100	0.15	2.97	0.030	7.44 min	1,950	63.03	0.032	0.05	11.21	58,790	16.07	0.03	0.007	4594.25	591.72	60.99 min	79.64	47.78
DEV 1B	109	0.17	100	0.15	1	0.010	11.49 min	2,620	87.68	0.033	0.025	11.74	150	58.89	0.03	0.416	310.50	124.60	0.04 min	23.28	13.97

CURVE NUMBER CALCULATIONS (BASED FROM COA DCM)

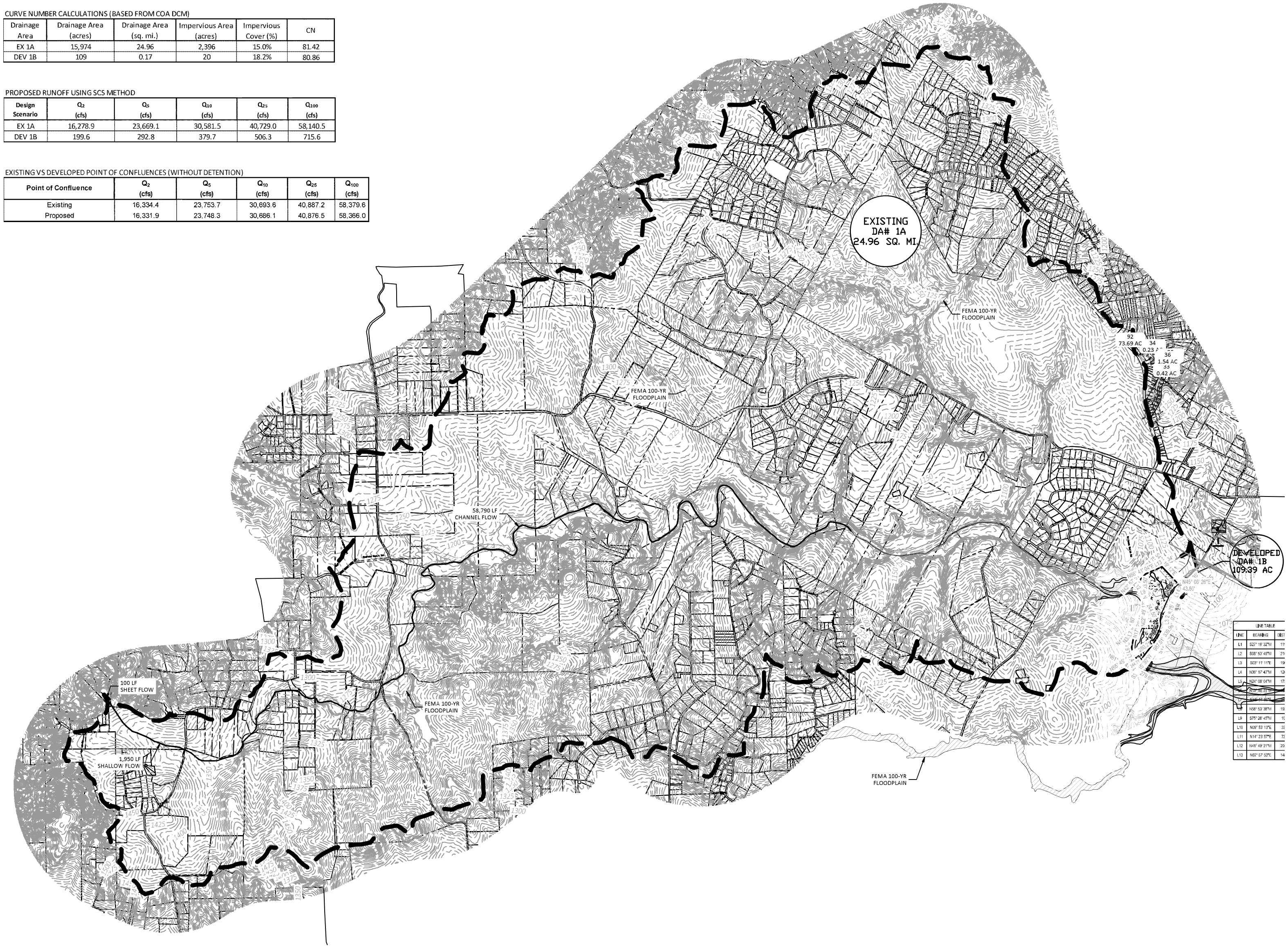
Drainage Area	Drainage Area (acres)	Drainage Area (sq. mi.)	Impervious Area (acres)	Impervious Cover (%)	CN
EX 1A	15,974	24.96	2,396	15.0%	81.42
DEV 1B	109	0.17	20	18.2%	80.86

PROPOSED RUNOFF USING SCS METHOD

Design Scenario	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
EX 1A	16,278.9	23,669.1	30,581.5	40,729.0	58,140.5
DEV 1B	199.6	292.8	379.7	506.3	715.6

EXISTING VS DEVELOPED POINT OF CONFLUENCES (WITHOUT DETENTION)

Point of Confluence	Q_2 (cfs)	Q_5 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
Existing	16,334.4	23,753.7	30,693.6	40,887.2	58,379.6
Proposed	16,331.9	23,748.3	30,686.1	40,876.5	58,366.0



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(IN FEET)
GRAPHIC SCALE 1"=2000'

LEGEND

- DRAINAGE AREA
- TIME OF CONCENTRATION
- POINT OF CONFLUENCE
- 100–YR FLOODPLAIN (FEMA)

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TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

OVERALL PROPOSED DRAINAGE AREA MAP

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA
120590
LICENSED PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

SHEET
27
OF 37

Project No.:
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WATER QUALITY SUMMARY TABLE

	PROPOSED BMP	REQUIRED TSS LOAD REMOVAL	PROVIDED TSS LOAD REMOVAL
DRAINAGE ZONE #1	GRASSY SWALE	2,091 LB	1,965 LB
DRAINAGE ZONE #2	GRASSY SWALE	934 LB	874 LB
DRAINAGE ZONE #3	GRASSY SWALE	1,373 LB	1,251 LB
DRAINAGE ZONE #4	VEGETATED FILTER STRIP	9,075 LB	10,425 LB
TOTAL DRAINAGE AREA		13,473 LB	14,515 LB

COA

Storm Event	Grass (fair), slopes 2-7%	Concrete	Asphalt
C_2	0.33	0.75	0.73
C_{10}	0.38	0.83	0.81
C_{25}	0.42	0.88	0.86
C_{100}	0.49	0.97	0.95

Siver Creek
"C" VALUES CALCULATED USING THE RATIONAL METHOD

Drainage Basin	Drainage Area (ac)	I.C. (%)	C 2-year	C 10-year	C 25-year	C 100-year
A1	11.62	21.20%	0.41	0.47	0.51	0.59
A2	24.25 Ac.	20.00%	0.41	0.47	0.51	0.58
B1	19.42 Ac.	5.00%	0.35	0.40	0.44	0.51
B2	2.68 Ac.	40.00%	0.49	0.55	0.60	0.67
C1	51.89 Ac.	6.98%	0.36	0.41	0.45	0.52

Siver Creek
DEVELOPED "Tc" VALUE CALCULATIONS

Drainage Basin	Area (ac)	Sheet Flow Length (ft)	Slope (ft/ft)	n	Tt (min)	Shallow Concentrated Flow Length (ft)	Slope (ft/ft)	n	Tt (min)	Channel Flow Length (ft)	V (ft/sec)	n	Slope (ft/ft)	Tt (min)	Total Allowed Tc (min)
A1	11.62 Ac.	100	0.010	0.150	11.37 min	1,900	0.024	0.05	12.67	0	0.00	0	0.000	0.00 min	24.04
A2	24.25 Ac.	100	0.010	0.150	11.37 min	1,600	0.031	0.05	9.39	937	5.22	0.03	0.013	2.99	23.75
B1	19.42 Ac.	100	0.010	0.150	11.37 min	1,450	0.035	0.05	8.01	2429	6.34	26.25	0.010	6.39	25.76
B2	2.68 Ac.					0									5.00
C1	51.89 Ac.	100	0.010	0.150	11.37 min	1,307	0.046	0.05	6.27						17.64

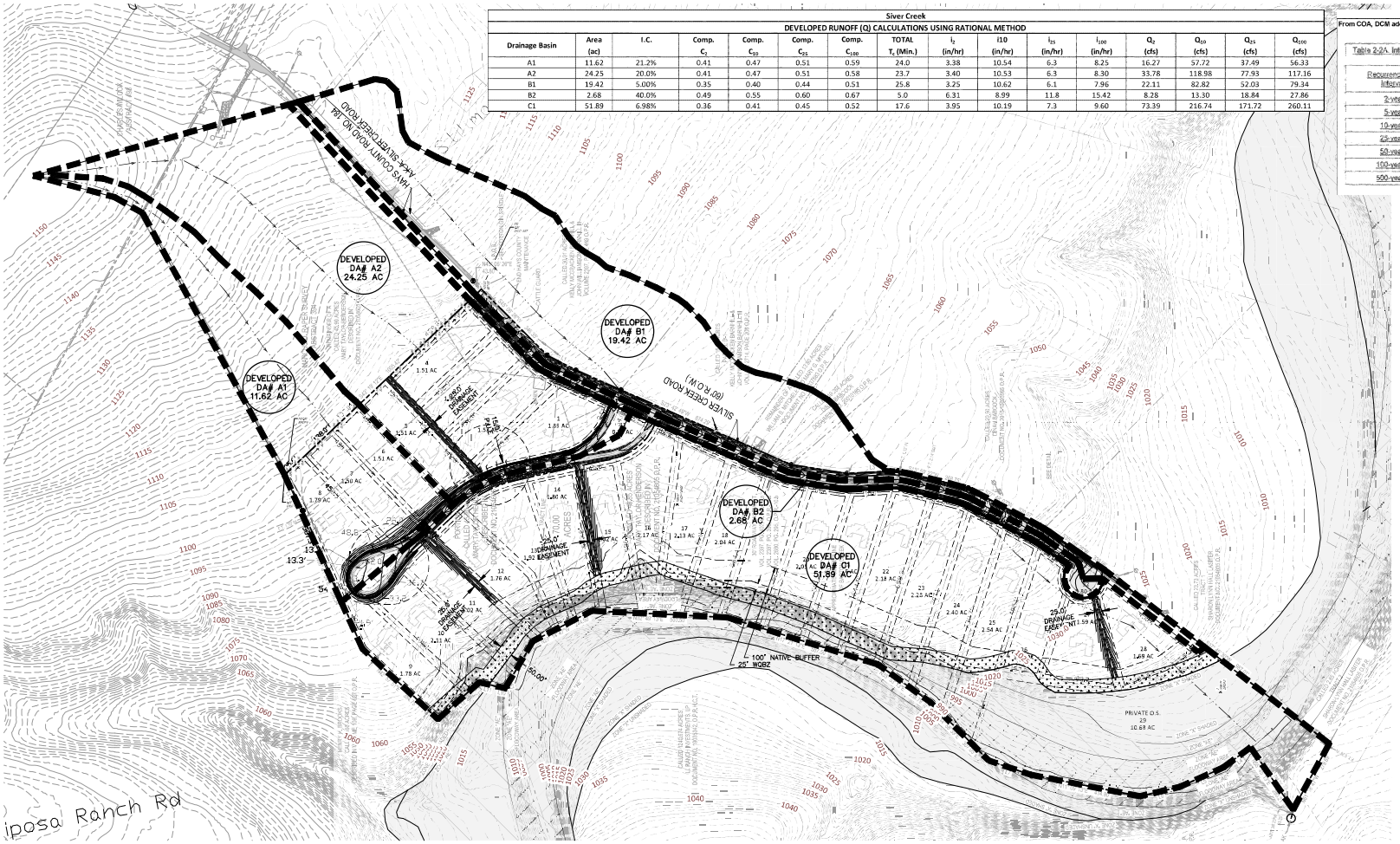
Siver Creek
DEVELOPED RUNOFF (Q) CALCULATIONS USING RATIONAL METHOD

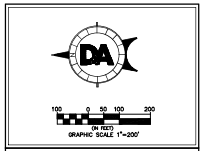
Drainage Basin	Area (ac)	I.C.	Comp. C_2	Comp. C_{10}	Comp. C_{25}	Comp. C_{100}	TOTAL T_c (Min.)	i_2 (in/hr)	i_{10} (in/hr)	i_{25} (in/hr)	i_{100} (in/hr)	Q_2 (cfs)	Q_{10} (cfs)	Q_{25} (cfs)	Q_{100} (cfs)
A1	11.62	21.2%	0.41	0.47	0.51	0.59	24.0	3.38	10.54	6.3	8.25	16.27	57.72	37.49	56.33
A2	24.25	20.0%	0.41	0.47	0.51	0.58	23.7	3.40	10.53	6.3	8.30	33.78	118.98	77.93	117.16
B1	19.42	5.00%	0.35	0.40	0.44	0.51	25.8	3.25	10.62	6.1	7.96	22.11	82.82	52.03	79.34
B2	2.68	40.0%	0.49	0.55	0.60	0.67	5.0	6.31	8.99	11.8	15.42	8.28	13.30	18.84	27.86
C1	51.89	6.98%	0.36	0.41	0.45	0.52	17.6	3.95	10.19	7.3	9.60	73.39	216.74	171.72	260.11

From COA, DCM adopting Atlas 14 data (Zone 1 is south of Colorado river)

Table 2-2A Intensity-Duration-Frequency Curve Coefficients (Zone 1)

Recurrence Interval	Fitting parameters for IDF Equation 2-1 a	b	c
2-year	45.24	9.359	0.7399
5-year	53.47	8.950	0.7228
10-year	61.25	8.352	0.7147
25-year	69.96	7.941	0.6954
50-year	73.59	7.326	0.6732
100-year	77.31	6.832	0.6524
500-year	77.48	4.967	0.5837





LEGEND

- DRAINAGE AREA
- TIME OF CONCENTRATION
- POINT OF CONFLUENCE
- 100-YR FLOODPLAIN (FEMA)
- VEGETATIVE FILTER STRIP

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1501 E. Ben White Blvd. Suite 140
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www.doucetengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

PROPOSED DRAINAGE AREA MAP

SUMITA KADARIYA 120590 LICENSED PROFESSIONAL ENGINEER
6/7/2023

Designed:	EG, VS
Drawn:	EG, VS
Reviewed:	SK
Date:	6/7/2023

SHEET 28 OF 37

Project No.: 2408-002

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ATTACHMENT C

EROSION SEDIMENTATION CONTROL PLANS

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3000	14"	LIVE OAK	28'	
3001	14"	LIVE OAK	28'	
3002	27"	CEDAR ELM	54'	14 14 12
3003	12"	LIVE OAK	24'	
3004	10"	LIVE OAK	20'	
3005	12"	LIVE OAK	24'	
3006	10"	LIVE OAK	20'	
3007	10"	LIVE OAK	20'	
3008	12"	LIVE OAK	24'	
3009	10"	LIVE OAK	20'	
3010	13"	LIVE OAK	26'	
3011	10"	LIVE OAK	20'	
3012	13"	LIVE OAK	26'	
3013	14"	LIVE OAK	28'	
3014	18"	LIVE OAK	36'	13 11
3015	13"	LIVE OAK	26'	
3016	16"	LIVE OAK	32'	
3017	21"	LIVE OAK	42'	
3018	8"	LIVE OAK	16'	
3019	23"	CEDAR ELM	46'	17 12
3020	16"	LIVE OAK	32'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3021	17"	CEDAR ELM	34'	
3022	12"	LIVE OAK	24'	
3023	26"	LIVE OAK	52'	21 11
3024	13"	LIVE OAK	26'	
3025	14"	LIVE OAK	28'	
3026	20"	LIVE OAK	40'	14 13
3027	15"	LIVE OAK	30'	
3028	11"	LIVE OAK	22'	
3029	8"	LIVE OAK	16'	
3030	10"	LIVE OAK	20'	
3031	12"	LIVE OAK	24'	
3032	11"	LIVE OAK	22'	
3033	8"	LIVE OAK	16'	
3034	8"	LIVE OAK	16'	
3035	12"	LIVE OAK	24'	9 7
3036	10"	LIVE OAK	20'	
3037	13"	LIVE OAK	26'	
3038	10"	LIVE OAK	20'	
3039	8"	LIVE OAK	16'	
3040	10"	LIVE OAK	20'	
3041	14"	LIVE OAK	28'	10 8

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3042	10"	LIVE OAK	20'	
3043	13"	LIVE OAK	26'	
3044	10"	LIVE OAK	20'	
3045	8"	LIVE OAK	16'	
3046	11"	LIVE OAK	22'	
3047	12"	LIVE OAK	24'	
3048	9"	LIVE OAK	18'	
3049	28"	LIVE OAK	56'	22 12
3050	24"	LIVE OAK	48'	18 16
3051	13"	LIVE OAK	26'	
3052	12"	LIVE OAK	24'	
3053	10"	LIVE OAK	20'	
3054	8"	LIVE OAK	16'	
3055	8"	LIVE OAK	16'	
3056	10"	LIVE OAK	20'	
3057	13"	LIVE OAK	26'	
3058	14"	LIVE OAK	28'	
3059	16"	LIVE OAK	32'	
3060	20"	LIVE OAK	40'	
3061	12"	LIVE OAK	24'	
3062	14"	LIVE OAK	28'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3063	10"	LIVE OAK	20'	
3064	18"	LIVE OAK	36'	
3065	13"	LIVE OAK	26'	
3066	12"	LIVE OAK	24'	
3067	13"	LIVE OAK	26'	
3068	13"	LIVE OAK	26'	
3069	13"	LIVE OAK	26'	
3070	18"	LIVE OAK	36'	
3071	11"	LIVE OAK	22'	
3072	14"	LIVE OAK	28'	
3073	17"	LIVE OAK	34'	
3074	22"	LIVE OAK	44'	
3075	16"	LIVE OAK	32'	
3076	20"	LIVE OAK	40'	15 10
3077	8"	LIVE OAK	16'	
3078	14"	LIVE OAK	28'	
3079	16"	LIVE OAK	32'	
3080	14"	LIVE OAK	28'	
3081	11"	LIVE OAK	22'	
3082	13"	LIVE OAK	26'	
3083	14"	LIVE OAK	28'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3084	24"	LIVE OAK	48'	
3085	20"	LIVE OAK	40'	
3086	10"	LIVE OAK	20'	
3087	8"	LIVE OAK	16'	
3088	13"	LIVE OAK	26'	9 6
3089	9"	LIVE OAK	18'	
3090	11"	LIVE OAK	22'	
3091	10"	LIVE OAK	20'	
3092	22"	LIVE OAK	44'	17 11
3093	15"	LIVE OAK	30'	
3094	8"	LIVE OAK	16'	
3095	12"	LIVE OAK	24'	
3096	17"	LIVE OAK	34'	13 9
3097	16"	LIVE OAK	32'	12 9
3098	10"	LIVE OAK	20'	
3099	10"	LIVE OAK	20'	
3100	8"	LIVE OAK	16'	
3101	8"	LIVE OAK	16'	
3102	8"	LIVE OAK	16'	
3103	8"	LIVE OAK	16'	
3104	8"	LIVE OAK	16'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3105	9"	LIVE OAK	18'	
3106	9"	LIVE OAK	18'	
3107	18"	LIVE OAK	36'	
3108	23"	LIVE OAK	46'	
3109	18"	LIVE OAK	36'	
3110	21"	LIVE OAK	42'	
3111	11"	LIVE OAK	22'	
3112	12"	LIVE OAK	24'	
3113	16"	LIVE OAK	32'	
3114	17"	LIVE OAK	34'	
3115	37"	LIVE OAK	74'	
3116	27"	LIVE OAK	54'	
3117	45"	LIVE OAK	90'	
3118	31"	LIVE OAK	62'	
3119	36"	LIVE OAK	72'	27 19
3120	38"	LIVE OAK	76'	
3121	22"	LIVE OAK	44'	
3122	12"	LIVE OAK	24'	
3123	39"	LIVE OAK	78'	33 13
3124	20"	LIVE OAK	40'	
3125	11"	LIVE OAK	22'	8 5 3

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3126	18"	LIVE OAK	36'	
3127	16"	LIVE OAK	32'	
3128	13"	LIVE OAK	26'	
3129	14"	LIVE OAK	28'	
3130	13"	LIVE OAK	26'	10 7
3131	20"	LIVE OAK	40'	10 9 8 4
3132	8"	LIVE OAK	16'	
3133	27"	LIVE OAK	54'	20 15
3134	11"	LIVE OAK	22'	
3135	15"	LIVE OAK	30'	
3136	13"	LIVE OAK	26'	
3137	9"	LIVE OAK	18'	
3138	9"	LIVE OAK	18'	
3139	11"	LIVE OAK	22'	
3140	9"	LIVE OAK	18'	
3141	19"	LIVE OAK	38'	15 8
3142	9"	LIVE OAK	18'	
3143	12"	LIVE OAK	24'	
3144	13"	LIVE OAK	26'	
3145	9"	LIVE OAK	18'	
3146	13"	LIVE OAK	26'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3147	12"	LIVE OAK	24'	
3148	8"	LIVE OAK	16'	
3149	11"	LIVE OAK	22'	
3150	11"	LIVE OAK	22'	
3151	13"	LIVE OAK	26'	
3152	10"	LIVE OAK	20'	
3153	16"	LIVE OAK	32'	13 6
3154	10"	LIVE OAK	20'	
3155	10"	LIVE OAK	20'	
3156	10"	LIVE OAK	20'	
3157	10"	LIVE OAK	20'	
3158	11"	LIVE OAK	22'	8 6
3159	10"	LIVE OAK	20'	
3160	12"	LIVE OAK	24'	
3161	10"	LIVE OAK	20'	
3162	11"	LIVE OAK	22'	
3163	13"	LIVE OAK	26'	
3164	15"	LIVE OAK	30'	11 9
3165	18"	LIVE OAK	36'	
3166	9"	LIVE OAK	18'	
3167	11"	LIVE OAK	22'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3168	12"	LIVE OAK	24'	
3169	10"	LIVE OAK	20'	
3170	10"	LIVE OAK	20'	
3171	17"	LIVE OAK	34'	13 8
3172	14"	LIVE OAK	28'	
3173	16"	LIVE OAK	32'	
3174	8"	LIVE OAK	16'	
3175	9"	LIVE OAK	18'	
3176	11"	LIVE OAK	22'	
3177	10"	LIVE OAK	20'	
3178	10"	LIVE OAK	20'	
3179	10"	LIVE OAK	20'	
3180	10"	LIVE OAK	20'	
3181	11"	LIVE OAK	22'	
3182	9"	LIVE OAK	18'	
3183	8"	LIVE OAK	16'	
3184	9"	LIVE OAK	18'	
3185	11"	LIVE OAK	22'	9 4
3186	22"	LIVE OAK	44'	16 13
3187	15"	LIVE OAK	30'	
3188	21"	LIVE OAK	42'	16 11

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3189	8"	LIVE OAK	16'	
3190	8"	LIVE OAK	16'	
3191	11"	LIVE OAK	22'	8 6
3192	8"	LIVE OAK	16'	
3193	11"	LIVE OAK	22'	8 6
3194	11"	LIVE OAK	22'	
3195	8"	LIVE OAK	16'	
3200	13"	LIVE OAK	26'	
3201	11"	LIVE OAK	22'	
3202	13"	LIVE OAK	26'	10 7
3203	9"	LIVE OAK	18'	
3204	18"	LIVE OAK	36'	
3205	16"	LIVE OAK	32'	
3206	25"	LIVE OAK	50'	
3207	17"	LIVE OAK	34'	12 11
3208	15"	LIVE OAK	30'	
3209	21"	LIVE OAK	42'	
3210	31"	LIVE OAK	62'	
3211	26"	LIVE OAK	52'	15 10 6
3212	14"	LIVE OAK	28'	10 8
3213	28"	LIVE OAK	56'	13 10 10 10

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3214	19"	LIVE OAK	38'	12 8 7
3215	12"	LIVE OAK	24'	
3216	20"	LIVE OAK	40'	14 12
3217	18"	LIVE OAK	36'	12 12
3218	13"	LIVE OAK	26'	
3219	18"	LIVE OAK	36'	
3220	13"	LIVE OAK	26'	
3221	10"	LIVE OAK	20'	
3222	13"	LIVE OAK	26'	
3223	18"	LIVE OAK	36'	
3224	15"	LIVE OAK	30'	
3225	17"	LIVE OAK	34'	
3226	20"	LIVE OAK	40'	
3227	19"	LIVE OAK	38'	
3228	10"	LIVE OAK	20'	
3229	14"	LIVE OAK	28'	
3230	12"	LIVE OAK	24'	
3231	15"	LIVE OAK	30'	
3232	16"	LIVE OAK	32'	
3233	15"	LIVE OAK	30'	
3234	8"	LIVE OAK	16'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3235	15"	LIVE OAK	30'	11 8
3236	10"	LIVE OAK	20'	
3237	9"	LIVE OAK	18'	
3238	13"	LIVE OAK	26'	
3239	16"	LIVE OAK	32'	
3240	15"	LIVE OAK	30'	
3241	15"	LIVE OAK	30'	
3242	14"	LIVE OAK	28'	
3243	13"	LIVE OAK	26'	
3244	13"	LIVE OAK	26'	
3245	27"	LIVE OAK	54'	
3246	17"	LIVE OAK	34'	10 10 4
3247	15"	LIVE OAK	30'	
3248	14"	LIVE OAK	28'	
3249	16"	LIVE OAK	32'	
3250	16"	LIVE OAK	32'	
3251	16"	LIVE OAK	32'	
3252	18"	LIVE OAK	36'	
3253	10"	LIVE OAK	20'	
3254	16"	LIVE OAK	32'	
3255	14"	LIVE OAK	28'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3256	15"	LIVE OAK	30'	
3257	14"	LIVE OAK	28'	
3258	14"	LIVE OAK	28'	
3259	14"	LIVE OAK	28'	
3260	18"	LIVE OAK	36'	
3261	15"	LIVE OAK	30'	
3262	13"	LIVE OAK	26'	
3263	11"	LIVE OAK	22'	
3264	14"	LIVE OAK	28'	
3265	9"	LIVE OAK	18'	
3266	12"	LIVE OAK	24'	
3267	16"	LIVE OAK	32'	
3268	20"	LIVE OAK	40'	
3269	18"	LIVE OAK	36'	
3270	16"	LIVE OAK	32'	10 6 6
3271	12"	LIVE OAK	24'	
3272	8"	LIVE OAK	16'	
3273	20"	LIVE OAK	40'	
3274	21"	LIVE OAK	42'	
3275	13"	LIVE OAK	26'	
3276	16"	LIVE OAK	32'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3277	23"	LIVE OAK	46'	14 11 8
3278	11"	LIVE OAK	22'	
3279	9"	LIVE OAK	18'	
3280	11"	LIVE OAK	22'	
3281	9"	LIVE OAK	18'	
3282	11"	LIVE OAK	22'	
3283	9"	LIVE OAK	18'	
3284	13"	LIVE OAK	26'	10 6
3285	10"	LIVE OAK	20'	
3286	13"	LIVE OAK	26'	10 6
3287	16"	LIVE OAK	32'	
3288	10"	LIVE OAK	20'	
3289	15"	LIVE OAK	30'	
3290	14"	LIVE OAK	28'	
3291	15"	LIVE OAK	30'	
3292	17"	LIVE OAK	34'	
3293	12"	LIVE OAK	24'	
3294	11"	LIVE OAK	22'	
3295	8"	LIVE OAK	16'	
3296	10"	LIVE OAK	20'	
3297	12"	LIVE OAK	24'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3298	13"	LIVE OAK	26'	10 8
3299	11"	LIVE OAK	22'	
3300	16"	LIVE OAK	32'	
3301	38"	LIVE OAK	76'	21 21 14
3302	14"	LIVE OAK	28'	
3303	12"	LIVE OAK	24'	
3304	18"	LIVE OAK	36'	
3305	16"	LIVE OAK	32'	
3306	25"	LIVE OAK	50'	13 12 12
3307	13"	LIVE OAK	26'	
3308	18"	LIVE OAK	36'	
3309	11"	LIVE OAK	22'	
3310	15"	LIVE OAK	30'	
3311	30"	LIVE OAK	60'	21 19
3312	24"	LIVE OAK	48'	17 15
3313	29"	LIVE OAK	58'	15 15 14
3314	20"	LIVE OAK	40'	11 11 8
3315	26"	LIVE OAK	52'	
3316	20"	LIVE OAK	40'	
3317	18"	LIVE OAK	36'	
3318	19"	LIVE OAK	38'	14 10

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3319	22"	LIVE OAK	44'	17 10
3320	14"	LIVE OAK	28'	
3321	16"	LIVE OAK	32'	
3322	17"	LIVE OAK	34'	
3323	24"	LIVE OAK	48'	17 14
3324	28"	LIVE OAK	56'	
3325	15"	LIVE OAK	30'	
3326	15"	LIVE OAK	30'	
3327	31"	LIVE OAK	62'	16 16 14
3328	19"	LIVE OAK	38'	
3329	15"	LIVE OAK	30'	
3330	22"	LIVE OAK	44'	
3331	12"	LIVE OAK	24'	
3332	14"	LIVE OAK	28'	
3333	17"	LIVE OAK	34'	
3334	20"	LIVE OAK	23'	
3335	12"	LIVE OAK	24'	
3336	17"	LIVE OAK	34'	
3337	16"	LIVE OAK	32'	
3338	15"	CEDAR ELM	30'	
3339	11"	LIVE OAK	22'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3340	17"	LIVE OAK	34'	
3341	13"	LIVE OAK	26'	
3342	14"	LIVE OAK	28'	
3343	11"	LIVE OAK	22'	
3344	22"	LIVE OAK	44'	
3345	18"	LIVE OAK	36'	
3346	14"	LIVE OAK	28'	
3347	9"	LIVE OAK	18'	
3348	14"	LIVE OAK	28'	
3349	11"	LIVE OAK	22'	
3350	10"	LIVE OAK	20'	
3351	18"	LIVE OAK	36'	
3352	10"	LIVE OAK	20'	
3353	12"	LIVE OAK	24'	9 6
3354	10"	LIVE OAK	20'	
3355	9"	LIVE OAK	18'	
3356	19"	LIVE OAK	38'	
3357	15"	LIVE OAK	30'	
3358	13"	LIVE OAK	26'	
3359	11"	LIVE OAK	22'	
3360	13"	LIVE OAK	26'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3361	10"	LIVE OAK	20'	
3362	11"	LIVE OAK	22'	8 7
3363	8"	LIVE OAK	16'	
3364	10"	LIVE OAK	20'	
3365	10"	LIVE OAK	20'	
3366	15"	LIVE OAK	30'	11 9
3367	17"	LIVE OAK	34'	
3368	15"	LIVE OAK	30'	
3369	14"	LIVE OAK	28'	
3370	15"	LIVE OAK	30'	11 8
3371	8"	LIVE OAK	16'	
3372	12"	LIVE OAK	24'	
3373	12"	LIVE OAK	24'	
3374	12"	LIVE OAK	24'	
3375	14"	LIVE OAK	28'	
3376	18"	LIVE OAK	36'	
3377	15"	LIVE OAK	30'	
3378	23"	LIVE OAK	46'	18 10
3379	8"	SHIN OAK	16'	
3380	18"	SHIN OAK	36'	10 7 6 5
3381	14"	SHIN OAK	28'	8 8 5

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3382	10"	SHIN OAK	20'	
3383	11"	CEDAR ELM	22'	
3384	9"	CEDAR ELM	18'	
3385	25"	LIVE OAK	50'	16 10 8
3386	18"	LIVE OAK	36'	
3387	29"	LIVE OAK	58'	20 18
3388	13"	LIVE OAK	26'	
3389	17"	LIVE OAK	34'	12 11
3390	19"	LIVE OAK	38'	
3391	18"	LIVE OAK	36'	
3392	9"	LIVE OAK	18'	
3393	16"	LIVE OAK	32'	14 5
3394	19"	LIVE OAK	38'	
3395	27"	LIVE OAK	54'	17 10 10
3396	15"	LIVE OAK	30'	11 9
3397	17"	LIVE OAK	34'	
3398	16"	LIVE OAK	32'	
3399	17"	LIVE OAK	34'	
3400	13"	LIVE OAK	26'	
3401	10"	LIVE OAK	20'	
3402	10"	LIVE OAK	20'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3403	13"	LIVE OAK	26'	
3404	8"	LIVE OAK	16'	
3405	17"	LIVE OAK	34'	
3406	11"	LIVE OAK	22'	
3407	14"	LIVE OAK	28'	
3408	17"	LIVE OAK	34'	
3409	19"	LIVE OAK	38'	
3410	26"	LIVE OAK	52'	19 14
3411	26"	LIVE OAK	52'	14 13 13
3412	11"	LIVE OAK	22'	
3413	11"	LIVE OAK	22'	8 7
3414	13"	LIVE OAK	26'	9 8
3415	14"	SHIN OAK	28'	
3416	15"	LIVE OAK	30'	
3417	13"	LIVE OAK	26'	
3418	8"	LIVE OAK	16'	
3419	17"	LIVE OAK	34'	
3420	21"	LIVE OAK	42'	11 10 10
3421	18"	LIVE OAK	36'	
3422	9"	LIVE OAK	18'	
3423	11"	LIVE OAK	22'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3424	10"	LIVE OAK	20'	
3425	12"	LIVE OAK	24'	
3426	9"	LIVE OAK	18'	
3427	23"	LIVE OAK	46'	14 11 8
3428	20"	LIVE OAK	40'	15 11
3429	12"	LIVE OAK	24'	
3430	9"	LIVE OAK	18'	
3431	12"	LIVE OAK	24'	
3432	11"	LIVE OAK	22'	
3433	9"	LIVE OAK	18'	
3434	13"	LIVE OAK	26'	
3435	12"	LIVE OAK	24'	9 7
3436	8"	LIVE OAK	16'	
3437	10"	LIVE OAK	20'	
3438	9"	LIVE OAK	18'	
3439	13"	LIVE OAK	26'	
3440	15"	LIVE OAK	30'	
3441	11"	LIVE OAK	22'	
3442	11"	LIVE OAK	22'	
3443	9"	LIVE OAK	18'	
3444	11"	LIVE OAK	22'	8 7

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3445	11"	LIVE OAK	22'	
3446	11"	LIVE OAK	22'	
3447	9"	LIVE OAK	18'	
3448	11"	LIVE OAK	22'	
3449	21"	LIVE OAK	42'	15 12
3450	9"	LIVE OAK	18'	
3451	17"	LIVE OAK	34'	9 8 8
3452	12"	LIVE OAK	24'	9 7
3453	10"	LIVE OAK	20'	8 4
3454	9"	LIVE OAK	18'	
3455	10"	LIVE OAK	20'	
3456	16"	LIVE OAK	32'	
3457	18"	LIVE OAK	36'	
3458	12"	LIVE OAK	24'	
3459	21"	LIVE OAK	42'	
3460	18"	LIVE OAK	36'	13 10
3461	22"	LIVE OAK	44'	
3462	12"	LIVE OAK	24'	
3463	16"	LIVE OAK	32'	
3464	8"	CEDAR ELM	16'	
3465	11"	LIVE OAK	22'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3466	10"	LIVE OAK	20'	
3467	19"	LIVE OAK	38'	14 10
3468	10"	LIVE OAK	20'	
3469	11"	LIVE OAK	22'	
3470	9"	LIVE OAK	18'	
3471	9"	LIVE OAK	18'	
3472	9"	LIVE OAK	18'	
3473	10"	LIVE OAK	20'	
3474	9"	LIVE OAK	18'	
3475	9"	LIVE OAK	18'	
3476	11"	LIVE OAK	22'	
3477	22"	LIVE OAK	44'	
3478	11"	LIVE OAK	22'	
3479	10"	LIVE OAK	20'	
3480	12"	LIVE OAK	24'	
3481	12"	LIVE OAK	24'	
3482	12"	LIVE OAK	24'	
3483	16"	LIVE OAK	32'	
3484	13"	LIVE OAK	26'	
3485	15"	LIVE OAK	30'	10 10
3486	14"	LIVE OAK	28'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3487	8"	LIVE OAK	16'	
3488	10"	LIVE OAK	20'	
3489	23"	LIVE OAK	46'	11 10 9 6
3490	16"	LIVE OAK	32'	13 7
3491	8"	LIVE OAK	16'	
3492	9"	LIVE OAK	18'	
3493	15"	LIVE OAK	30'	11 8
3494	11"	LIVE OAK	22'	
3495	9"	LIVE OAK	18'	
3496	12"	LIVE OAK	24'	
3497	10"	LIVE OAK	20'	
3498	11"	LIVE OAK	22'	8 7
3499	16"	LIVE OAK	32'	11 11
3500	8"	LIVE OAK	16'	
3501	9"	LIVE OAK	18'	
3502	11"	LIVE OAK	22'	
3503	10"	LIVE OAK	20'	
3504	15"	LIVE OAK	30'	
3505	14"	LIVE OAK	28'	
3506	8"	LIVE OAK	16'	
3507	14"	LIVE OAK	28'	11 7

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3508	9"	LIVE OAK	18'	
3509	8"	LIVE OAK	16'	
3510	8"	LIVE OAK	16'	
3511	9"	LIVE OAK	18'	
3512	10"	LIVE OAK	20'	
3513	17"	LIVE OAK	34'	12 11
3514	8"	LIVE OAK	16'	
3515	12"	LIVE OAK	24'	9 7
3516	11"	LIVE OAK	22'	8 6
3517	10"	LIVE OAK	20'	
3518	11"	LIVE OAK	22'	
3519	8"	LIVE OAK	16'	
3520	8"	LIVE OAK	16'	
3521	9"	LIVE OAK	18'	
3522	8"	LIVE OAK	16'	
3523	13"	LIVE OAK	26'	9 8
3524	9"	LIVE OAK	18'	
3525	9"	LIVE OAK	18'	
3526	9"	LIVE OAK	18'	
3527	10"	LIVE OAK	20'	
3528	9"	LIVE OAK	18'	

TREE TABLE				
NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3529	8"	LIVE OAK	16'	
3530	11"	LIVE OAK	22'	
3531	8"	LIVE OAK	16'	
3532	8"	LIVE OAK	16'	
3533	16"	LIVE OAK	32'	11 11
3534	11"	LIVE OAK	22'	
3535	8"	CEDAR ELM	16'	
3536	11"	LIVE OAK	22'	
3537	9"	LIVE OAK	18'	
3538	11"	LIVE OAK	22'	
3539	9"	LIVE OAK	18'	
3540	15"	LIVE OAK	30'	10 10
3541	9"	LIVE OAK	18'	
3542	9"	LIVE OAK	18'	
3543	13"	LIVE OAK	26'	
10874	17"	LIVE OAK	34'	
10875	17"	LIVE OAK	34'	
10945	9"	LIVE OAK	18'	

WARNING !!!! CONTRACTOR TO FIELD VERIFY ALL EXIST. UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

NOTES:

1. PROPOSED CHANNELS WITHIN PROJECT AREA CAN BE USED AS TEMPORARY SEDIMENTATION BASIN.
2. 100 FT NATIVE BUFFER TO BE CLEARED OF CEDARS AND RE-SEEDED WITH NATIVE CENTRAL TEXAS DRAUGHT TOLERANT GRASSES. GRASS MIX SHALL BE APPROVED BY THE CITY.
3. WITHIN 100 FT NATIVE BUFFER, ALL HEALTHY OAK TREES 8 INCHES IN DIAMETER AND LARGER SHALL REMAIN.

GRAPHIC SCALE 1"=100' (IN FEET) 50 0 25 50 100

LEGEND

- SUBDIVISION BOUNDARY
- LOT LINES
- EASEMENTS
- NOAA ATLAS 14 100-YR DEVELOPED FLOODPLAIN
- LOC — OVERALL LIMITS OF CONSTRUCTION
- CE — TEMPORARY STONE CONSTRUCTION ENTRANCE. SEE DETAIL SHEET
- RB — ROCK BERM SEE DETAIL SHEET
- SF — SILT FENCE SEE DETAIL SHEET
- TP — TREE PROTECTION FENCE SEE DETAIL SHEET
- TREES TO REMAIN AND TO REMOVE
- STG — STAGING AND SPOILS AREA
- CW — CONCRETE WASH OUT AREA
- BACK-FILL STORAGE AREA
- GRAVEL ROADWAY TO BE DEMOED
- GRAVEL DRIVEWAY TO BE DEMOED AND RECONSTRUCTED

SILVER CREEK SUBDIVISION		
Erosion Control		
Silt Fence	7,520	LF
Tree Protection Fencing	1,097	LF
Rock Berm	116	LF
Staging Area	1	EACH
Construction Entrance	1	EACH
Concrete Washout	1	EACH
Limits of Construction	9.85	ACRES

DOUCET
Civil Engineering // Entitlements // Geospatial
7401 B. Highway 71 W, Ste. 160
Austin, TX 78735, Tel: (512)-583-2600
www.doucetengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

EROSION & SEDIMENTATION CONTROL PLAN & DEMOLITION PLAN 1

SILVER CREEK SUBDIVISION

DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

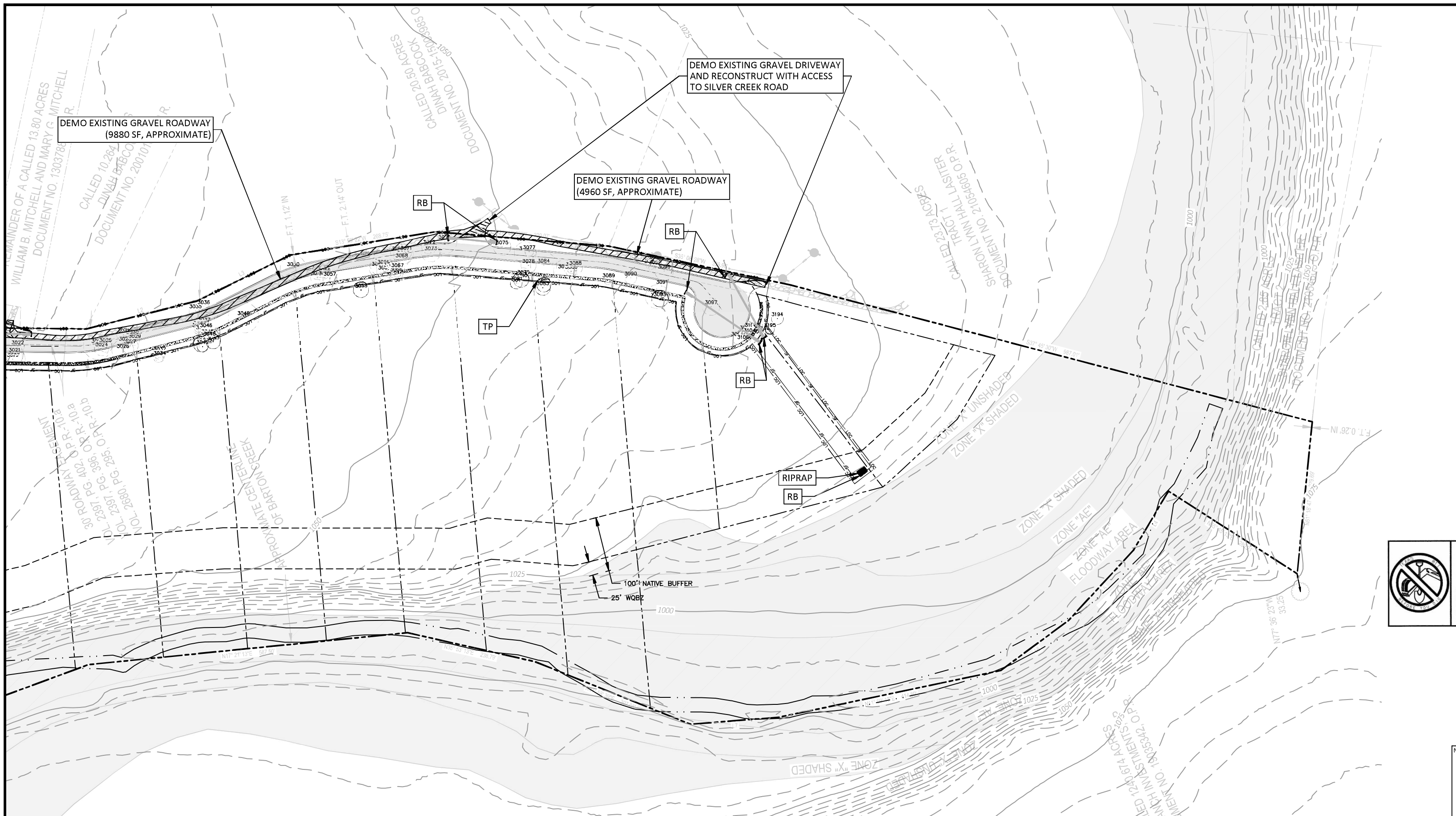
STATE OF TEXAS — SUMITA KADARIYA — 120590 — LICENSED PROFESSIONAL ENGINEER — 6/7/2023

Designed:	EG, VS
Drawn:	EG, VS
Reviewed:	SK
Date:	6/7/2023

SHEET 8 OF 37

Project No.: 2408-002

Drawing: c:\pw_working\eugene.gase\d0114943\2408002 CD TSC & DEMO.dwg
User: EGASE
Last Modified: Jun. 06, 23 - 14:43
Plot Date/Time: Jun. 07, 23 - 09:23:55



LEGEND

- SUBDIVISION BOUNDARY
- LOT LINES
- EASEMENTS
- NOAA ATLAS 14 100–YR DEVELOPED FLOODPLAIN
- LOC — OVERALL LIMITS OF CONSTRUCTION
- CE — TEMPORARY STONE CONSTRUCTION ENTRANCE. SEE DETAIL SHEET
- RB — ROCK BERM SEE DETAIL SHEET
- SF — SILT FENCE SEE DETAIL SHEET
- TP — TREE PROTECTION FENCE SEE DETAIL SHEET
- TREES TO REMAIN AND TO REMOVE
- STG — STAGING AND SPOILS AREA
- CW — CONCRETE WASH OUT AREA
- BACK–FILL STORAGE AREA
- GRAVEL ROADWAY TO BE DEMOED
- GRAVEL DRIVEWAY TO BE DEMOED AND RECONSTRUCTED

50 0 25 50 100
(IN FEET)
GRAPHIC SCALE 1"=100'

WARNING !!!! CONTRACTOR TO FIELD VERIFY ALL EXIST. UTILITIES VERTICALLY AND HORIZONTALLY PRIOR TO CONSTRUCTION

ALL RESPONSIBILITY FOR THE ADEQUACY OF THESE PLANS REMAINS WITH THE ENGINEER WHO PREPARED THEM. IN REVIEWING THESE PLANS, THE CITY MUST RELY UPON THE ADEQUACY OF THE WORK OF THE DESIGN ENGINEER.

SILVER CREEK SUBDIVISION Erosion Control		
Silt Fence	7,520	LF
Tree Protection Fencing	1,097	LF
Rock Berm	116	LF
Staging Area	1	EACH
Construction Entrance	1	EACH
Concrete Washout	1	EACH
Limits of Construction	9.85	ACRES

NOTES:
1. PROPOSED CHANNELS WITHIN PROJECT AREA CAN BE USED AS TEMPORARY SEDIMENTATION BASIN.
2. 100 FT NATIVE BUFFER TO BE CLEARED OF CEDARS AND RE-SEEDED WITH NATIVE CENTRAL TEXAS DRAUGHT TOLERANT GRASSES. GRASS MIX SHALL BE APPROVED BY THE CITY.
3. WITHIN 100 FT NATIVE BUFFER, ALL HEALTHY OAK TREES 8 INCHES IN DIAMETER AND LARGER SHALL REMAIN.

TREE TABLE

NUMBER	SIZE(IN)	SPECIES	CRZ(FT)	MT(IN)
3000	14"	LIVE OAK	28'	
3001	14"	LIVE OAK	28'	
3002	27"	CEDAR ELM	54'	14 14 12
3003	12"	LIVE OAK	24'	
3004	10"	LIVE OAK	20'	
3005	12"	LIVE OAK	24'	
3006	10"	LIVE OAK	20'	
3007	10"	LIVE OAK	20'	
3008	12"	LIVE OAK	24'	
3009	10"	LIVE OAK	20'	
3010	13"	LIVE OAK	26'	
3011	10"	LIVE OAK	20'	
3012	13"	LIVE OAK	26'	
3013	14"	LIVE OAK	28'	
3014	18"	LIVE OAK	36'	13 11
3015	13"	LIVE OAK	26'	
3016	16"	LIVE OAK	32'	
3017	21"	LIVE OAK	42'	
3018	8"	LIVE OAK	16'	
3019	23"	CEDAR ELM	46'	17 12
3020	16"	LIVE OAK	32'	
3021	17"	CEDAR ELM	34'	
3022	12"	LIVE OAK	24'	
3023	26"	LIVE OAK	52'	21 11
3024	13"	LIVE OAK	26'	
3025	14"	LIVE OAK	28'	
3026	20"	LIVE OAK	40'	14 13
3027	15"	LIVE OAK	30'	
3028	11"	LIVE OAK	22'	
3029	9"	LIVE OAK	18'	
3030	10"	LIVE OAK	20'	
3031	12"	LIVE OAK	24'	
3032	11"	LIVE OAK	22'	
3033	9"	LIVE OAK	18'	
3034	8"	LIVE OAK	16'	
3035	12"	LIVE OAK	24'	9 7
3036	10"	LIVE OAK	20'	
3037	13"	LIVE OAK	26'	
3038	10"	LIVE OAK	20'	
3039	9"	LIVE OAK	18'	
3040	10"	LIVE OAK	20'	
3041	14"	LIVE OAK	28'	10 8
3042	10"	LIVE OAK	20'	
3043	13"	LIVE OAK	26'	
3044	10"	LIVE OAK	20'	
3045	8"	LIVE OAK	16'	
3046	11"	LIVE OAK	22'	
3047	12"	LIVE OAK	24'	
3048	9"	LIVE OAK	18'	
3049	28"	LIVE OAK	56'	22 12
3050	24"	LIVE OAK	48'	16 16
3051	13"	LIVE OAK	26'	
3052	12"	LIVE OAK	24'	
3053	10"	LIVE OAK	20'	
3054	8"	LIVE OAK	16'	
3055	8"	LIVE OAK	16'	
3056	10"	LIVE OAK	20'	
3057	13"	LIVE OAK	26'	
3058	14"	LIVE OAK	28'	
3059	16"	LIVE OAK	32'	
3060	20"	LIVE OAK	40'	
3061	12"	LIVE OAK	24'	
3062	14"	LIVE OAK	28'	
3063	10"	LIVE OAK	20'	
3064	15"	LIVE OAK	30'	
3065	13"	LIVE OAK	26'	
3066	12"	LIVE OAK	24'	
3067	13"	LIVE OAK	26'	
3068	13"	LIVE OAK	26'	
3069	13"	LIVE OAK	26'	
3070	18"	LIVE OAK	36'	
3071	11"	LIVE OAK	22'	
3072	14"	LIVE OAK	28'	
3073	17"	LIVE OAK	34'	
3074	22"	LIVE OAK	44'	
3075	16"	LIVE OAK	32'	
3076	20"	LIVE OAK	40'	15 10
3077	8"	LIVE OAK	16'	
3078	14"	LIVE OAK	28'	
3079	16"	LIVE OAK	32'	
3080	14"	LIVE OAK	28'	
3081	11"	LIVE OAK	22'	
3082	13"	LIVE OAK	26'	
3083	14"	LIVE OAK	28'	
3084	24"	LIVE OAK	48'	
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3087	9"	LIVE OAK	18'	
3088	13"	LIVE OAK	26'	9 8
3089	9"	LIVE OAK	18'	
3090	11"	LIVE OAK	22'	
3091	10"	LIVE OAK	20'	
3092	22"	LIVE OAK	44'	17 11
3093	15"	LIVE OAK	30'	
3094	8"	LIVE OAK	16'	
3095	12"	LIVE OAK	24'	
3096	17"	LIVE OAK	34'	13 9
3097	16"	LIVE OAK	32'	12 9
3098	10"	LIVE OAK	20'	
3099	10"	LIVE OAK	20'	
3100	8"	LIVE OAK	16'	
3101	8"	LIVE OAK	16'	
3102	8"	LIVE OAK	16'	
3103	8"	LIVE OAK	16'	
3104	8"	LIVE OAK	16'	
3105	9"	LIVE OAK	18'	
3106	9"	LIVE OAK	18'	
3107	18"	LIVE OAK	36'	
3108	23"	LIVE OAK	46'	
3109	18"	LIVE OAK	36'	
3110	21"	LIVE OAK	42'	
3111	11"	LIVE OAK	22'	
3112	12"	LIVE OAK	24'	
3113	16"	LIVE OAK	32'	
3114	17"	LIVE OAK	34'	
3115	37"	LIVE OAK	74'	
3116	27"	LIVE OAK	54'	
3117	45"	LIVE OAK	90'	
3118	31"	LIVE OAK	62'	
3119	36"	LIVE OAK	72'	27 19
3120	38"	LIVE OAK	76'	
3121	22"	LIVE OAK	44'	
3122	12"	LIVE OAK	24'	
3123	39"	LIVE OAK	78'	33 13
3124	20"	LIVE OAK	40'	
3125	11"	LIVE OAK	22'	8 5 3
3126	18"	LIVE OAK	36'	
3127	16"	LIVE OAK	32'	
3128	13"	LIVE OAK	26'	
3129	14"	LIVE OAK	28'	
3130	13"	LIVE OAK	26'	10 7
3131	20"	LIVE OAK	40'	10 9 8 4
3132	8"	LIVE OAK	16'	
3133	27"	LIVE OAK	54'	20 15
3134	11"	LIVE OAK	22'	
3135	15"	LIVE OAK	30'	
3136	13"	LIVE OAK	26'	
3137	9"	LIVE OAK	18'	
3138	9"	LIVE OAK	18'	
3139	11"	LIVE OAK	22'	
3140	9"	LIVE OAK	18'	
3141	19"	LIVE OAK	38'	15 8
3142	9"	LIVE OAK	18'	
3143	12"	LIVE OAK	24'	
3144	13"	LIVE OAK	26'	
3145	9"	LIVE OAK	18'	
3146	13"	LIVE OAK	26'	
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3155	10"	LIVE OAK	20'	
3156	10"	LIVE OAK	20'	
3157	10"	LIVE OAK	20'	
3158	11"	LIVE OAK	22'	8 6
3159	10"	LIVE OAK	20'	
3160	12"	LIVE OAK	24'	
3161	10"	LIVE OAK	20'	
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3163	13"	LIVE OAK	26'	
3164	15"	LIVE OAK	30'	11 9
3165	18"	LIVE OAK	36'	
3166	9"	LIVE OAK	18'	
3167	11"	LIVE OAK	22'	
3168	12"	LIVE OAK	24'	
3169	10"	LIVE OAK	20'	
3170	10"	LIVE OAK	20'	
3171	17"	LIVE OAK	34'	13 8
3172	14"	LIVE OAK	28'	
3173	16"	LIVE OAK	32'	
3174	8"	LIVE OAK	16'	
3175	9"	LIVE OAK	18'	
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3179	10"	LIVE OAK	20'	
3180	10"	LIVE OAK	20'	
3181	11"	LIVE OAK	22'	
3182	9"	LIVE OAK	18'	
3183	8"	LIVE OAK	16'	
3184	9"	LIVE OAK	18'	
3185	11"	LIVE OAK	22'	9 4
3186	22"	LIVE OAK	44'	16 13
3187	15"	LIVE OAK	30'	
3188	21"	LIVE OAK	42'	16 11
3189	8"	LIVE OAK	16'	
3190	8"	LIVE OAK	16'	
3191	11"	LIVE OAK	22'	8 6
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3195	8"	LIVE OAK	16'	
3200	13"	LIVE OAK	26'	
3201	11"	LIVE OAK	22'	
3202	13"	LIVE OAK	26'	10 7
3203	9"	LIVE OAK	18'	
3204	18"	LIVE OAK	36'	
3205	16"	LIVE OAK	32'	
3206	25"	LIVE OAK	50'	
3207	17"	LIVE OAK	34'	12 11
3208	15"	LIVE OAK	30'	
3209	21"	LIVE OAK	42'	
3210	31"	LIVE OAK	62'	
3211	26"	LIVE OAK	52'	15 10 6
3212	14"	LIVE OAK	28'	10 8
3213	28"	LIVE OAK	56'	13 10 10 10
3214	19"	LIVE OAK	38'	12 8 7
3215	12"	LIVE OAK	24'	
3216	20"	LIVE OAK	40'	14 12
3217	18"	LIVE OAK	36'	12 12
3218	13"	LIVE OAK	26'	
3219	18"	LIVE OAK	36'	
3220	13"	LIVE OAK	26'	
3221	10"	LIVE OAK	20'	
3222	13"	LIVE OAK	26'	
3223	18"	LIVE OAK	36'	
3224	15"	LIVE OAK	30'	
3225	17"	LIVE OAK	34'	
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3227	19"	LIVE OAK	38'	
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3232	16"	LIVE OAK	32'	
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3247	15"	LIVE OAK	30'	
3248	14"	LIVE OAK	28'	
3249	16"	LIVE OAK	32'	
3250	16"	LIVE OAK	32'	
3251	16"	LIVE OAK	32'	
3252	18"	LIVE OAK	36'	
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3254	16"	LIVE OAK	32'	
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3259	14"	LIVE OAK	28'	
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3268	20"	LIVE OAK	40'	
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3284	13"	LIVE OAK	26'	10 8
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3298	13"	LIVE OAK	26'	10 6
3299	11"	LIVE OAK	22'	
3300	16"	LIVE OAK	32'	
3301	38"	LIVE OAK	76'	21 21 14
3302	14"	LIVE OAK	28'	
3303	12"	LIVE OAK	24'	
3304	18"	LIVE OAK	36'	
3305	16"	LIVE OAK	32'	
3306	25"	LIVE OAK	50'	13 12 12
3307	13"	LIVE OAK	26'	
3308	18"	LIVE OAK	36'	
3309	11"	LIVE OAK	22'	
3310	15"	LIVE OAK	30'	
3311	30"	LIVE OAK	60'	21 19
3312	24"	LIVE OAK	48'	17 15
3313	29"	LIVE OAK	58'	15 15 14
3314	20"	LIVE OAK	40'	11 11 8
3315	26"	LIVE OAK	52'	
3316	20"	LIVE OAK	40'	
3317	18"	LIVE OAK	36'	
3318	19"	LIVE OAK	38'	14 10
3319	22"	LIVE OAK	44'	17 10
3320	14"	LIVE OAK	28'	
3321	16"	LIVE OAK	32'	
3322	17"	LIVE OAK	34'	
3323	24"	LIVE OAK	48'	17 14
3324	28"	LIVE OAK	56'	
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3327	31"	LIVE OAK	62'	16 16 14
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3347	9"	LIVE OAK	18'	
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3350	10"	LIVE OAK	20'	
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3353	12"	LIVE OAK	24'	9 6
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3373	12"	LIVE OAK	24'	
3374	12"	LIVE OAK	24'	
3375	14"	LIVE OAK	28'	
3376	18"	LIVE OAK	36'	
3377	15"	LIVE OAK	30'	
3378	23"	LIVE OAK	46'	18 10
3379	8"	SHIN OAK	16'	
3380	18"	SHIN OAK	36'	10 7 6 5
3381	14"	SHIN OAK	28'	8 8 5
3382	10"	SHIN OAK	20'	
3383	11"	CEDAR ELM	22'	
3384	9"	CEDAR ELM	18'	
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3425	12"	LIVE OAK	24'	
3426	9"	LIVE OAK	18'	
3427	23"	LIVE OAK	46'	14 11 8
3428	20"	LIVE OAK	40'	15 11
3429	12"	LIVE OAK	24'	
3430	9"	LIVE OAK	18'	
3431	12"	LIVE OAK	24'	
3432	11"	LIVE OAK	22'	
3433	9"	LIVE OAK	18'	
3434	13"	LIVE OAK	26'	
3435	12"	LIVE OAK	24'	9 7
3436	8"	LIVE OAK	16'	
3437	10"	LIVE OAK	20'	
3438	9"	LIVE OAK	18'	
3439	13"	LIVE OAK	26'	
3440	15"	LIVE OAK	30'	
3441	11"	LIVE OAK	22'	
3442	11"	LIVE OAK	22'	
3443	9"	LIVE OAK	18'	
3444	11"	LIVE OAK	22'	8 7
3445	11"	LIVE OAK	22'	
3446	11"	LIVE OAK	22'	
3447	9"	LIVE OAK	18'	
3448	11"	LIVE OAK	22'	
3449	21"	LIVE OAK	42'	15 12
3450	9"	LIVE OAK	18'	
3451	17"	LIVE OAK	34'	9 8 8
3452	12"	LIVE OAK	24'	9 7
3453	10"	LIVE OAK	20'	8 4
3454	9"	LIVE OAK	18'	
3455	10"	LIVE OAK	20'	
3456	16"	LIVE OAK	32'	
3457	18"	LIVE OAK	36'	
3458	12"	LIVE OAK	24'	
3459	21"	LIVE OAK	42'	
3460	18"	LIVE OAK	36'	13 10
3461	22"	LIVE OAK	44'	
3462	12"	LIVE OAK	24'	
3463	16"	LIVE OAK	32'	
3464	8"	CEDAR ELM	16'	
3465	11"	LIVE OAK	22'	
3466	10"	LIVE OAK	20'	
3467	19"	LIVE OAK	38'	14 10
3468	10"	LIVE OAK	20'	
3469	11"	LIVE OAK	22'	
3470	9"	LIVE OAK	18'	
3471	9"	LIVE OAK	18'	
3472	9"	LIVE OAK	18'	
3473	10"	LIVE OAK	20'	
3474	9"	LIVE OAK	18'	
3475	9"	LIVE OAK	18'	
3476	11"	LIVE OAK	22'	
3477	22"	LIVE OAK	44'	
3478	11"	LIVE OAK	22'	
3479	10"	LIVE OAK	20'	
3480	12"	LIVE OAK	24'	
3481	12"	LIVE OAK	24'	
3482	12"	LIVE OAK	24'	
3483	16"	LIVE OAK	32'	
3484	13"	LIVE OAK	26'	
3485	15"	LIVE OAK	30'	10 10
3486	14"	LIVE OAK	28'	
3487	8"	LIVE OAK	16'	
3488	10"	LIVE OAK	20'	
3489	23"	LIVE OAK	46'	11 10 9 6
3490	16"	LIVE OAK	32'	13 7
3491	8"	LIVE OAK	16'	
3492	9"	LIVE OAK	18'	
3493	15"	LIVE OAK	30'	11 8
3494	11"	LIVE OAK	22'	
3495	9"	LIVE OAK	18'	
3496	12"	LIVE OAK	24'	
3497	10"	LIVE OAK	20'	
3498	11"	LIVE OAK	22'	8 7
3499	16"	LIVE OAK	32'	11 11
3500	8"	LIVE OAK	16'	
3501	9"	LIVE OAK	18'	
3502	11"	LIVE OAK	22'	
3503	10"	LIVE OAK	20'	
3504	15"	LIVE OAK	30'	
3505	14"	LIVE OAK	28'	
3506	8"	LIVE OAK	16'	
3507	14"	LIVE OAK	28'	11 7
3508	9"	LIVE OAK	18'	
3509	8"	LIVE OAK	16'	
3510	8"	LIVE OAK	16'	
3511	9"	LIVE OAK	18'	
3512	10"	LIVE OAK	20'	
3513	17"	LIVE OAK	34'	12 11
3514	8"	LIVE OAK	16'	
3515	12"	LIVE OAK	24'	9 7
3516	11"	LIVE OAK	22'	8 6
3517	10"	LIVE OAK	20'	
3518	11"	LIVE OAK	22'	
3519	8"	LIVE OAK	16'	
3520	8"	LIVE OAK	16'	
3521	9"	LIVE OAK	18'	
3522	8"	LIVE OAK	16'	
3523	13"	LIVE OAK	26'	9 8
3524	9"	LIVE OAK	18'	
3525	9"	LIVE OAK	18'	
3526	9"	LIVE OAK	18'	
3527	10"	LIVE OAK	20'	
3528	9"	LIVE OAK	18'	
3529	8"	LIVE OAK	16'	
3530	11"	LIVE OAK	22'	
3531	8"	LIVE OAK	16'	
3532	8"	LIVE OAK	16'	
3533	16"	LIVE OAK	32'	11 11
3534	11"	LIVE OAK	22'	
3535	8"	CEDAR ELM	16'	
3536	11"	LIVE OAK	22'	
3537	9"	LIVE OAK	18'	
3538	11"	LIVE OAK	22'	
3539	9"	LIVE OAK	18'	
3540	15"	LIVE OAK	30'	10 10
3541	9"	LIVE OAK	18'	
3542	9"	LIVE OAK	18'	
3543	13"	LIVE OAK	26'	
10874	17"	LIVE OAK	34'	
10875	17"	LIVE OAK	34'	
10946	9"	LIVE OAK	18'	

DOUCET
Civil Engineering // Entitlements // Geospatial
7401 B. Highway 71 W, Ste. 160
Austin, TX 78735, Tel: (512)-583-2600
www.douceteengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

EROSION & SEDIMENTATION CONTROL PLAN & DEMOLITION PLAN 2

SILVER CREEK SUBDIVISION
DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

SUMITA KADARIYA
120590
LICENSED PROFESSIONAL ENGINEER
6/7/2023

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023
SHEET 9 OF 37
Project No.: 2408-002

Drawing: c:\pw_working\eugene.gase\d0114942\2408002 CD ESC & DEMO.dwg
User: EGASE
Last Modified: Jun. 06, 23 - 14:43
Plot Date/Time: Jun. 07, 23 - 09:24:08

ATTACHMENT D

EXISTING CONDITIONS PLAN

Drawing: c:\pw_working\eugene.gase\d0114947\2408002 CD EX.dwg
User: EGASE
Last Modified: May. 04, 23 - 16:25
Plot Date/Time: Jun. 07, 23 - 09:23:14

SILVER CREEK SUBDIVISION

DRIPPING SPRINGS OWNER, LLC.
HAYS COUNTY, TEXAS 78620

EXISTING CONDITIONS PLAN

DOUCET
Civil Engineering // Entitlements // Geospatial
7401 B. Highway 71 W. Ste. 160
Austin, TX 78735, Tel: (512)-583-2600
www.doucetengineers.com
TBPE Firm Number: 3937
TBPELS Firm Number: 10105800

Designed: EG, VS
Drawn: EG, VS
Reviewed: SK
Date: 6/7/2023

STATE OF TEXAS
SUMITA KADARIYA
120590
LICENSED
PROFESSIONAL ENGINEER
6/7/2023

SHEET
7
OF 37

Project No.: 2408-002

APPENDIX A

PRE-CONSTRUCTION FORMS

Responsible Party Form Schedule
Responsible Party Form Certification

Silver Creek Subdivision
Silver Creek Rd.
Dripping Springs, TX 78620

Responsible Party Form Schedule

Prevention Pollution Measure	Responsible Party Company Name											
BEST MANAGEMENT PRACTICES												
Silt fences												
Rock berms												
Drain inlet protection												
Gravel filter bags												
Vehicle exits (offsite tracking)												
Concrete washout pit (leaks, failure)												
Temporary vegetation												
Permanent vegetation												
Sediment control basin												
Other structural controls												
Material storage areas (leakage)												
Equipment areas (leaks, spills)												
Construction debris												
General site cleanliness												
Trash receptacles												
Natural vegetation buffer strips												
Inspections												
SWP3 Modification & Records												
POTENTIAL EROSION SOURCES												
Clearing												
Grading												
Excavation												
Drainage Construction												
Utility Construction												
Roadway or Parking Lot Construction												
Foundation Construction												
Building Construction												
Landscaping Activities												

Identify responsible parties and indicate responsible party for each pollution prevention item listed above by marking an X under the Responsible Party Name.

Silver Creek Subdivision
Silver Creek Rd.
Dripping Springs, TX 78620

Responsible Party Form Certifications

"I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with construction activity from the construction site identified as part of this certification."

Company:		Phone:	
Name:		Responsible for:	General Contractor
Signed:		Date:	

Company:		Phone:	
Name:		Responsible for:	Earthwork
Signed:		Date:	

Company:		Phone:	
Name:		Responsible for:	Plumbing
Signed:		Date:	

Company:		Phone:	
Name:		Responsible for:	Paving
Signed:		Date:	

Company:		Phone:	
Name:		Responsible for:	Electrical
Signed:		Date:	

Company:		Phone:	
Name:		Responsible for:	
Signed:		Date:	

(Note: Use additional sheets if necessary)

Silver Creek Subdivision
Silver Creek Rd.
Dripping Springs, TX 78620

Responsible Party Form Certifications

"I certify under penalty of law that I understand the terms and conditions of the general Texas Pollutant Discharge Elimination System (TPDES) permit that authorizes the storm water discharges associated with construction activity from the construction site identified as part of this certification."

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

Company: _____ Phone: _____
Name: _____ Responsible for: _____
Signed: _____ Date: _____

(Note: Use additional sheets if necessary)

APPENDIX B

INSPECTION REPORT (SAMPLE FORM)

Inspection Report

Prevention Pollution Measure	Inspected in Compliance (Y/N)	Corrective Action Required: Description (use additional sheet if necessary)	Corrective Action Required: Date Completed
BEST MANAGEMENT PRACTICES			
Silt fences			
Rock berms			
Drain inlet protection			
Gravel filter bags			
Vehicle exits (offsite tracking)			
Concrete washout pit (leaks, failure)			
Temporary vegetation			
Permanent vegetation			
Sediment control basin			
Other structural controls			
Material storage areas (leakage)			
Equipment areas (leaks, spills)			
Construction debris			
General site cleanliness			
Trash receptacles			
Natural vegetation buffer strips			
EVIDENCE OF EROSION			
Site preparation			
Roadway or Parking Lot Construction			
Utility Construction			
Drainage Construction			
Building Construction			
MAJOR OBSERVATIONS			
Sediment discharges from site			
BMPs requiring maintenance			
BMPs requiring modification			
Additional BMPs required			

Certification Statement
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Inspector's Name (Superintendent)	Inspector's Signature	Date
Name of Owner/Operator (Firm)	Authorized Signature	Date

APPENDIX C

DELEGATION OF SIGNATORIES TO REPORTS

Executive Director
Texas Commission on Environmental Quality
Storm Water and Pretreatment Team
P.O. Box 13087, MC-148
Austin, TX 78711-3087

Subject: Delegation of Signatories to Reports

Facility/Company/Site Name: Dripping Springs Owner, LLC

TPDES Authorization Number: _____

Dear Executive Director:

This letter serves to designate the following people or positions as authorized personnel for signing reports, storm water pollution prevention plans, certifications or other information requested by the Executive Director or required by the general permit, as set forth by 30 TAC §305.128 (see page 2).

Name or Position	
Name or Position	
Name or Position	
Name or Position	

I understand that this authorization does not extend to the signing of a Notice of Intent for obtaining coverage under a storm water general permit.

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in 30 TAC §305.44 (see page 2).

Sincerely,

Signature	Title	Date

Printed Name	Contact Number
Brian Sewell	615-778-2889

RELEVANT PROVISIONS

305.128(a) All reports requested by permits and other information requested by the executive director shall be signed by a person described in §305.44(a) of this title (relating to Signatories to Applications) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) the authorization is made in writing by a person described in §305.44(a) of this title (relating to Signatories to Applications);

(2) the authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity or for environmental matters for the applicant, such as the position of plant manager, operator of a well or well field, environmental manager, or a position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and

(3) the written authorization is submitted to the executive director.

(b) If an authorization under this section is no longer accurate because of a change in individuals or position, a new authorization satisfying the requirements of this section must be submitted to the executive director prior to or together with any reports, information, or applications to be signed by an authorized representative.

(c) Any person signing a report required by a permit shall make the certification set forth in §305.44(b) of this title (relating to Signatories to Applications).

305.44(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

(b) A person signing an application shall make the following certification: "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

APPENDIX D

RECORD OF STABILIZATION AND CONSTRUCTION ACTIVITY DATES

SITE STABILIZATION and CONSTRUCTION

ACTIVITY DATES

A record of dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be maintained until final site stabilization is achieved. The dates can be entered in the following form, or on a different form.

MAJOR GRADING ACTIVITIES

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

Description of Activity: ____________________
Begin (date): ____________ Site Contractor: ____________
Location: ____________ End (date): ____________

APPENDIX E

TPDES GENERAL CONSTRUCTION PERMIT NO. TXR150000
EFFECTIVE DATE MARCH 5, 2023

Texas Commission on Environmental Quality

P.O. Box 13087, Austin, Texas 78711-3087

GENERAL PERMIT TO DISCHARGE UNDER THE

TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM

under provisions of
Section 402 of the Clean Water Act
and Chapter 26 of the Texas Water Code

This permit supersedes and replaces
TPDES General Permit No. TXR150000,
effective March 5, 2018, and amended January 28, 2022

Construction sites that discharge stormwater associated with construction activity located in the state of Texas may discharge to surface water in the state only according to monitoring requirements and other conditions set forth in this general permit, as well as the rules of the Texas Commission on Environmental Quality (TCEQ or Commission), the laws of the State of Texas, and other orders of the Commission of the TCEQ. The issuance of this general permit does not grant to the permittee the right to use private or public property for conveyance of stormwater and certain non-stormwater discharges along the discharge route. This includes property belonging to but not limited to any individual, partnership, corporation or other entity. Neither does this general permit authorize any invasion of personal rights nor any violation of federal, state, or local laws or regulations. It is the responsibility of the permittee to acquire property rights as may be necessary to use the discharge route.

This general permit and the authorization contained herein shall expire at midnight, on March 5, 2028.

EFFECTIVE DATE: March 5, 2023

ISSUED DATE: February 27, 2023

For the Commission

TPDES GENERAL PERMIT NUMBER TXR150000

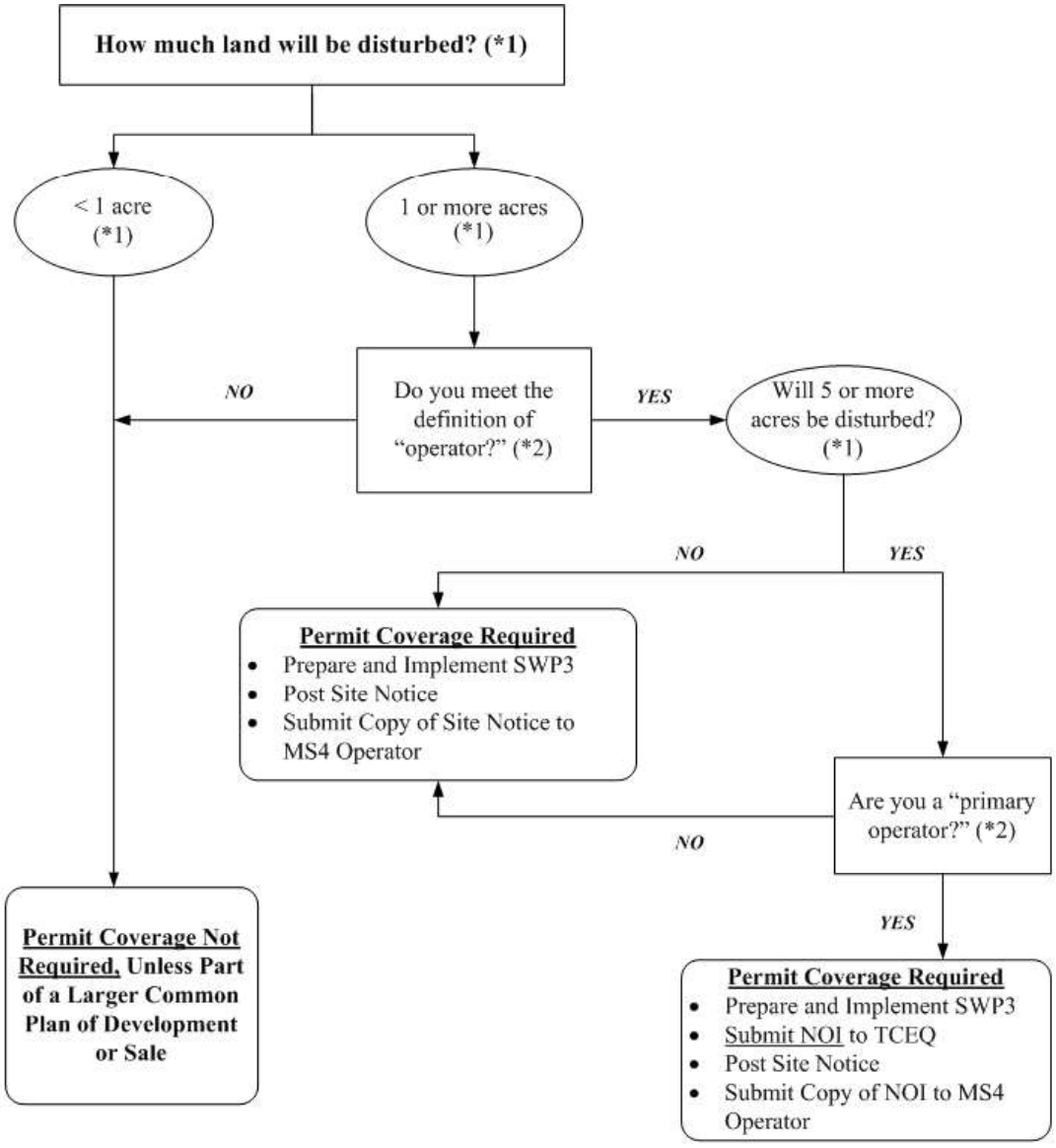
RELATING TO STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

Table of Contents

Part I. Flow Chart and Definitions

Section A. Flow Chart to Determine Whether Coverage is Required

When calculating the acreage of land area disturbed, include the disturbed land-area of all construction and construction support activities.



(*1) To determine the size of the construction project, use the size of the entire area to be disturbed, and include the size of the larger common plan of development or sale, if the project is part of a larger project (refer to Part I.B., "Definitions," for an explanation of "common plan of development or sale").

(*2) Refer to the definitions for "operator," "primary operator," and "secondary operator" in Part I., Section B. of this permit.

Section B. Definitions

Arid Areas – Areas with an average annual rainfall of zero (0) to ten (10) inches.

Best Management Practices (BMPs) – Schedules of activities, prohibitions of practices, maintenance procedures, structural controls, local ordinances, and other management practices to prevent or reduce the discharge of pollutants. BMPs also include treatment requirements, operating procedures, and practices to control construction site runoff, spills or leaks, waste disposal, or drainage from raw material storage areas.

Commencement of Construction – The initial disturbance of soils associated with clearing, grading, or excavation activities, as well as other construction-related activities (e.g., demolition; grubbing; stockpiling of fill material; placement of raw materials at the site).

Common Plan of Development – A construction activity that is completed in separate stages, separate phases, or in combination with other construction activities. A common plan of development (also known as a "common plan of development or sale") is identified by the documentation for the construction project that identifies the scope of the project, and may include plats, blueprints, marketing plans, contracts, building permits, a public notice or hearing, zoning requests, or other similar documentation and activities. A common plan of development does not necessarily include all construction projects within the jurisdiction of a public entity (e.g., a city or university). Construction of roads or buildings in different parts of the jurisdiction would be considered separate "common plans," with only the interconnected parts of a project being considered part of a "common plan" (e.g., a building and its associated parking lot and driveways, airport runway and associated taxiways, a building complex, etc.). Where discrete construction projects occur within a larger common plan of development or sale but are located one quarter (¼) mile or more apart, and the area between the projects is not being disturbed, each individual project can be treated as a separate plan of development or sale, provided that any interconnecting road, pipeline or utility project that is part of the same "common plan" is not included in the area to be disturbed.

Construction Activity – Includes soil disturbance activities, including clearing, grading, excavating, construction-related activity (e.g., stockpiling of fill material, demolition), and construction support activity. This does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site (e.g., the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing rights-of-way, and similar maintenance activities). Regulated construction activity is defined in terms of small and large construction activity.

Construction Support Activity – A construction-related activity that specifically supports construction activity, which can involve earth disturbance or pollutant-generating activities of its own, and can include, but are not limited to, activities associated with concrete or asphalt batch plants, rock crushers, equipment staging or storage areas, chemical storage areas, material storage areas, material borrow areas, and excavated material disposal areas. Construction support activity must only directly support the construction activity authorized under this general permit.

Dewatering – The act of draining accumulated stormwater or groundwater from building foundations, vaults, trenches, and other similar points of accumulation.

Discharge – For the purposes of this permit, the drainage, release, or disposal of pollutants in stormwater and certain non-stormwater from areas where soil disturbing activities (e.g., clearing, grading, excavation, stockpiling of fill material, and demolition), construction materials or equipment storage or maintenance (e.g., fill piles, borrow area, concrete truck wash out, fueling), or other industrial stormwater directly related to the construction process (e.g., concrete or asphalt batch plants) are located.

Drought-Stricken Area – For the purposes of this permit, an area in which the National Oceanic and Atmospheric Administration's U.S. Seasonal Drought Outlook indicates for the period during which the construction will occur that any of the following conditions are likely: (1) "Drought to persist or intensify", (2) "Drought ongoing, some improvement", (3) "Drought likely to improve, impacts ease", or (4) "Drought development likely". See http://www.cpc.ncep.noaa.gov/products/expert_assessment/seasonal_drought.html.

Edwards Aquifer – As defined under Texas Administrative Code (TAC) § 213.3 of this title (relating to the Edwards Aquifer), that portion of an arcuate belt of porous, water-bearing, predominantly carbonate rocks known as the Edwards and Associated Limestones in the Balcones Fault Zone trending from west to east to northeast in Kinney, Uvalde, Medina, Bexar, Comal, Hays, Travis, and Williamson Counties; and composed of the Salmon Peak Limestone, McKnight Formation, West Nueces Formation, Devil's River Limestone, Person Formation, Kainer Formation, Edwards Formation, and Georgetown Formation. The permeable aquifer units generally overlie the less-permeable Glen Rose Formation to the south, overlie the less-permeable Comanche Peak and Walnut Formations north of the Colorado River, and underlie the less-permeable Del Rio Clay regionally.

Edwards Aquifer Recharge Zone – Generally, that area where the stratigraphic units constituting the Edwards Aquifer crop out, including the outcrops of other geologic formations in proximity to the Edwards Aquifer, where caves, sinkholes, faults, fractures, or other permeable features would create a potential for recharge of surface waters into the Edwards Aquifer. The recharge zone is identified as that area designated as such on official maps located in the offices of the Texas Commission on Environmental Quality (TCEQ) and the appropriate regional office. The Edwards Aquifer Map Viewer, located at https://www.tceq.texas.gov/gis/edwards-viewer.html

Edwards Aquifer Contributing Zone – The area or watershed where runoff from precipitation flows downgradient to the recharge zone of the Edwards Aquifer. The contributing zone is located upstream (upgradient) and generally north and northwest of the recharge zone for the following counties: all areas within Kinney County, except the area within the watershed draining to Segment No. 2304 of the Rio Grande Basin; all areas within Uvalde, Medina, Bexar, and Comal Counties; all areas within Hays and Travis Counties, except the area within the watersheds draining to the Colorado River above a point 1.3 miles upstream from Tom Miller Dam, Lake Austin at the confluence of Barrow Brook Cove, Segment No. 1403 of the Colorado River Basin; and all areas within Williamson County, except the area within the watersheds draining to the Lampasas River above the dam at Stillhouse Hollow reservoir, Segment No. 1216 of the Brazos River Basin. The contributing zone is illustrated on the Edwards Aquifer map viewer at https://www.tceq.texas.gov/gis/edwards-viewer.html

Effluent Limitations Guideline (ELG) – Defined in 40 Code of Federal Regulations (CFR) § 122.2 as a regulation published by the Administrator under § 304(b) of the Clean Water Act (CWA) to adopt or revise effluent limitations.

Facility or Activity – For the purpose of this permit, referring to a construction site, the location of construction activity, or a construction support activity that is regulated under this general permit, including all contiguous land and fixtures (for example, ponds and materials stockpiles), structures, or appurtenances used at a construction site or industrial site.

Final Stabilization – A construction site status where any of the following conditions are met:

(a) All soil disturbing activities at the site have been completed and a uniform (that is, evenly distributed, without large bare areas) perennial vegetative cover with a density of at least 70% of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or equivalent permanent stabilization measures (such as the use of riprap, or gabions) have been employed.

(b) For individual lots in a residential construction site by either:

(1) the homebuilder completing final stabilization as specified in condition (a) above; or

(2) the homebuilder establishing temporary stabilization for an individual lot prior to the time of transfer of the ownership of the home to the buyer and after informing the homeowner of the need for, and benefits of, final stabilization. If temporary stabilization is not feasible, then the homebuilder may fulfill this requirement by retaining perimeter controls or BMPs, and informing the homeowner of the need for removal of temporary controls and the establishment of final stabilization. Fulfillment of this requirement must be documented in the homebuilder's stormwater pollution prevention plan (SWP3).

(c) For construction activities on land used for agricultural purposes (such as pipelines across crop or range land), final stabilization may be accomplished by returning the disturbed land to its preconstruction agricultural use. Areas disturbed that were not previously used for agricultural activities, such as buffer strips immediately adjacent to surface water and areas that are not being returned to their preconstruction agricultural use must meet the final stabilization conditions of condition (a) above.

(d) In arid, semi-arid, and drought-stricken areas only, all soil disturbing activities at the site have been completed and both of the following criteria have been met:

(1) temporary erosion control measures (for example, degradable rolled erosion control product) are selected, designed, and installed along with an appropriate seed base to provide erosion control for at least three years without active maintenance by the operator, and

(2) the temporary erosion control measures are selected, designed, and installed to achieve 70% of the native background vegetative coverage within three years.

High-Level Radioactive Waste – Meaning as assigned by 42 United States Code (U.S.C.) Section 10101 (12) and includes spent nuclear fuel as defined by 42 U.S.C. Section 10101 (23).

Hyperchlorination of Waterlines – Treatment of potable water lines or tanks with chlorine for disinfection purposes, typically following repair or partial replacement of the waterline or tank, and subsequently flushing the contents.

Impaired Water – A surface water body that is identified as impaired on the latest approved CWA § 303(d) List or waters with an EPA-approved or established total maximum daily load (TMDL) that are found on the latest EPA approved *Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d)*, which lists the category 4 and 5 water bodies.

Indian Country Land – (1) All land within the limits of any Indian reservation under the jurisdiction of the United States government, notwithstanding the issuance of any patent, and, including rights-of-way running through the reservation; (2) all dependent Indian communities with the borders of the United States whether within the originally or subsequently acquired territory thereof, and whether within or without the limits of a state; and (3) all Indian allotments, the Indian titles to which have not been extinguished, including rights-of-way running through the same. (40 CFR § 122.2)

Indian Tribe – Any Indian Tribe, band, group, or community recognized by the Secretary of the Interior and exercising governmental authority over a Federal Indian Reservation (40 CFR § 122.2).

Infeasible – Not technologically possible, or not economically practicable and achievable in light of best industry practices. (40 CFR § 450.11(b)).

Large Construction Activity – Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than five (5) acres of land. Large construction activity also includes the disturbance of less than five (5) acres of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than five (5) acres of land. Large construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site (for example, the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities).

Linear Project – Includes the construction of roads, bridges, conduits, substructures, pipelines, sewer lines, towers, poles, cables, wires, connectors, switching, regulating and transforming equipment and associated ancillary facilities in a long, narrow area.

Low Rainfall Erosivity Waiver (LREW) – A written submission to the executive director from an operator of a construction site that is considered as small construction activity under the permit, which qualifies for a waiver from the requirements for small construction activities, only during the period of time when the calculated rainfall erosivity factor is less than five (5).

Minimize – To reduce or eliminate to the extent achievable using stormwater controls that are technologically available and economically practicable and achievable in light of best industry practices.

Municipal Separate Storm Sewer System (MS4) – A separate storm sewer system owned or operated by the United States, a state, city, town, county, district, association, or other public body (created by or pursuant to state law) having jurisdiction over the disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as a sewer district, flood control or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, that discharges to surface water in the state.

Notice of Change (NOC) – Written notification to the executive director from a discharger authorized under this permit, providing changes to information that was previously provided to the agency in a notice of intent form.

Notice of Intent (NOI) – A written submission to the executive director from an applicant requesting coverage under this general permit.

Notice of Termination (NOT) – A written submission to the executive director from a discharger authorized under this general permit requesting termination of coverage.

Operator – The person or persons associated with a large or small construction activity that is either a primary or secondary operator as defined below:

Primary Operator – The person or persons associated with construction activity that meets either of the following two criteria:

(a) the person or persons have on-site operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or

(b) the person or persons have day-to-day operational control of those activities at a construction site that are necessary to ensure compliance with a Stormwater Pollution Prevention Plan (SWP3) for the site or other permit conditions (for example, they are authorized to direct workers at a site to carry out activities required by the SWP3 or comply with other permit conditions).

Secondary Operator – The person or entity, often the property owner, whose operational control is limited to:

(a) the employment of other operators, such as a general contractor, to perform or supervise construction activities; or

(b) the ability to approve or disapprove changes to construction plans and specifications, but who does not have day-to-day on-site operational control over construction activities at the site.

Secondary operators must either prepare their own SWP3 or participate in a shared SWP3 that covers the areas of the construction site, where they have control over the construction plans and specifications.

If there is not a primary operator at the construction site, then the secondary operator is defined as the primary operator and must comply with the requirements for primary operators.

Outfall – For the purpose of this permit, a point source at the point where stormwater runoff associated with construction activity discharges to surface water in the state and does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels, or other conveyances that connect segments of the same stream or other water of the U.S. and are used to convey waters of the U.S.

Permittee – An operator authorized under this general permit. The authorization may be gained through submission of a notice of intent, by waiver, or by meeting the requirements for automatic coverage to discharge stormwater runoff and certain non-stormwater discharges from construction activity.

Point Source – Any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are, or may be, discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff (40 CFR § 122.2).

Pollutant – Dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, filter backwash, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, and agricultural waste discharged into any surface water in the state. The term "pollutant" does not include tail water or runoff water from irrigation or rainwater runoff from cultivated or uncultivated rangeland, pastureland, and farmland. For the purpose of this permit, the term “pollutant” includes sediment.

Pollution – The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any surface water in the state that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property or to public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose (Texas Water Code (TWC) § 26.001(14)).

Rainfall Erosivity Factor (R factor) – The total annual erosive potential that is due to climatic effects, and is part of the Revised Universal Soil Loss Equation (RUSLE).

Receiving Water – A "Water of the United States" as defined in 40 CFR § 122.2 or a surface water in the state into which the regulated stormwater discharges.

Semi-arid Areas – Areas with an average annual rainfall of 10 to 20 inches.

Separate Storm Sewer System – A conveyance or system of conveyances (including roads with drainage systems, streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains), designed or used for collecting or conveying stormwater; that is not a combined sewer, and that is not part of a publicly owned treatment works (POTW).

Small Construction Activity – Construction activities including clearing, grading, and excavating that result in land disturbance of equal to or greater than one (1) acre and less than five (5) acres of land. Small construction activity also includes the disturbance of less than one (1) acre of total land area that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb equal to or greater than one (1) and less than five (5) acres of land. Small construction activity does not include routine maintenance that is performed to maintain the original line and grade, hydraulic capacity, or original purpose of the site (for example, the routine grading of existing dirt roads, asphalt overlays of existing roads, the routine clearing of existing right-of-ways, and similar maintenance activities).

Steep Slopes – Where a state, Tribe, local government, or industry technical manual (e.g., stormwater BMP manual) has defined what is to be considered a "steep slope", this permit's definition automatically adopts that definition. Where no such definition exists, steep slopes are automatically defined as those that are 15 percent or greater in grade.

Stormwater (or Stormwater Runoff) – Rainfall runoff, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Construction Activity – Stormwater runoff, as defined above, from a construction activity.

Structural Control (or Practice) – A pollution prevention practice that requires the construction of a device, or the use of a device, to reduce or prevent pollution in stormwater runoff. Structural controls and practices may include but are not limited to: silt fences, earthen dikes, drainage swales, sediment traps, check dams, subsurface drains, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins.

Surface Water in the State – Lakes, bays, ponds, impounding reservoirs, springs, rivers, streams, creeks, estuaries, wetlands, marshes, inlets, canals, the Gulf of Mexico inside the territorial limits of the state (from the mean high water mark (MHWM) out 10.36 miles into the Gulf), and all other bodies of surface water, natural or artificial, inland or coastal, fresh or salt, navigable or non-navigable, and including the beds and banks of all water-courses and bodies of surface water, that are wholly or partially inside or bordering the state or subject to the jurisdiction of the state; except that waters in treatment systems which are authorized by state or federal law, regulation, or permit, and which are created for the purpose of waste treatment are not considered to be water in the state.

Temporary Stabilization – A condition where exposed soils or disturbed areas are provided a protective cover or other structural control to prevent the migration of pollutants. Temporary stabilization may include temporary seeding, geotextiles, mulches, and other techniques to reduce or eliminate erosion until either permanent stabilization can be achieved or until further construction activities take place.

Thawing Conditions – For the purposes of this permit, thawing conditions are expected based on the historical likelihood of two (2) or more days with daytime temperatures greater than 32 degrees Fahrenheit (℉). This date can be determined by looking at historical weather data.

NOTE: The estimation of thawing conditions is for planning purposes only. During construction, the permittee will be required to conduct site inspections based upon actual conditions (i.e., if thawing conditions occur sooner than expected, the permittee will be required to conduct inspections at the regular frequency).

Total Maximum Daily Load (TMDL) – The total amount of a pollutant that a water body can assimilate and still meet the Texas Surface Water Quality Standards.

Turbidity – A condition of water quality characterized by the presence of suspended solids and/or organic material.

Waters of the United States – Waters of the United States or waters of the U.S. means the term as defined in 40 CFR § 122.2.

Part II. Permit Applicability and Coverage

Section A. Discharges Eligible for Authorization

1. Stormwater Associated with Construction Activity

   Discharges of stormwater runoff and certain non-stormwater discharges from small and large construction activities may be authorized under this general permit, except as described in Part II.C. of this permit.

2. Discharges of Stormwater Associated with Construction Support Activities

   Discharges of stormwater runoff and certain non-stormwater discharges from construction support activities as defined in Part I.B. of this general permit may be authorized, provided that the following conditions are met:

   (a) the construction support activities are located within one (1) mile from the boundary of the construction site where the construction activity authorized under the permit is being conducted that requires the support of these activities;

   (b) an SWP3 is developed and implemented for the permitted construction site according to the provisions in Part III.F. of this general permit, including appropriate controls and measures to reduce erosion and the discharge of pollutants in stormwater runoff according to the provisions in Part IV. of this general permit;

   (c) the activities are directly related to the construction site;

   (d) the activities are not a commercial operation, nor serve other unrelated construction projects; and

   (e) the activities do not continue to operate beyond the completion of the construction activity at the project it supports.

   Construction support activities that operate outside the terms provided in (a) through (e) above must obtain authorization under a separate Texas Pollutant Discharge Elimination System (TPDES) permit, which may include the TPDES Multi-Sector General Permit (MSGP), TXR050000 (related to stormwater discharges associated with industrial activity), an alternative general permit (if available), or an individual water quality permit.

3. Non-Stormwater Discharges

   The following non-stormwater discharges from sites authorized under this general permit are also eligible for authorization under this general permit:

(a) discharges from emergency fire-fighting activities (emergency fire-fighting activities do not include washing of trucks, run-off water from training activities, test water from fire suppression systems, or similar activities);

(b) uncontaminated fire hydrant flushings (excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life), which include flushings from systems that utilize potable water, surface water, or groundwater that does not contain additional pollutants (uncontaminated fire hydrant flushings do not include systems utilizing reclaimed wastewater as a source water);

(c) water from the routine external washing of vehicles, the external portion of buildings or structures, and pavement, where solvents, detergents, and soaps are not used, where spills or leaks of toxic or hazardous materials have not occurred (unless spilled materials have been removed; and if local state, or federal regulations are applicable, the materials are removed according to those regulations), and where the purpose is to remove mud, dirt, or dust;

(d) uncontaminated water used to control dust;

(e) potable water sources, including waterline flushings, but excluding discharges of hyperchlorinated water, unless the water is first dechlorinated and discharges are not expected to adversely affect aquatic life;

(f) uncontaminated air conditioning condensate;

(g) uncontaminated ground water or spring water, including foundation or footing drains where flows are not contaminated with industrial materials such as solvents; and

(h) lawn watering and similar irrigation drainage.

4. Other Permitted Discharges

Any discharge authorized under a separate National Pollutant Discharge Elimination System (NPDES), TPDES, or TCEQ permit may be combined with discharges authorized by this general permit, provided those discharges comply with the associated permit.

Section B. Concrete Truck Wash Out

The wash out of concrete trucks at regulated construction sites must be performed in accordance with the requirements of Part VI of this general permit.

Section C. Limitations on Permit Coverage

1. Post Construction Discharges

Discharges that occur after construction activities have been completed, and after the construction site and any supporting activity site have undergone final stabilization, are not eligible for coverage under this general permit. Discharges originating from the sites are not authorized under this general permit following the submission of the Notice of Termination (NOT) or removal of the appropriate TCEQ site notice, as applicable, for the regulated construction activity.

2. Prohibition of Non-Stormwater Discharges

Except as otherwise provided in Part II.A. of this general permit, only discharges that are composed entirely of stormwater associated with construction activity may be authorized under this general permit.

3. Compliance with Water Quality Standards

   Discharges to surface water in the state that would cause, have the reasonable potential to cause, or contribute to a violation of water quality standards or that would fail to protect and maintain existing designated uses of surface water in the state are not eligible for coverage under this general permit. The executive director may require an application for an individual permit or alternative general permit (see Parts II.H.2. and 3.) to authorize discharges to surface water in the state if the executive director determines that any activity will cause, has the reasonable potential to cause, or contribute to a violation of water quality standards or is found to cause, has the reasonable potential to cause, or contribute to, the impairment of a designated use. The executive director may also require an application for an individual permit considering factors described in Part II.H.3. of this general permit.

4. Impaired Receiving Waters and Total Maximum Daily Load (TMDL) Requirements

   The permittee shall determine whether the authorized discharge is to an impaired water body on the latest EPA-approved CWA § 303(d) List or waters with an EPA-approved or established TMDL that are found on the latest EPA-approved *Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d)*, which lists the category 4 and 5 water bodies.

   New sources or new discharges of the pollutants of concern to impaired waters are not authorized by this permit unless otherwise allowable under 30 TAC Chapter 305 and applicable state law. Impaired waters are those that do not meet applicable water quality standard(s) and are listed as category 4 or 5 in the current version of the *Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d)*, and waterbodies listed on the CWA § 303(d) List. Pollutants of concern are those for which the water body is listed as impaired.

   Discharges of the pollutants of concern to impaired water bodies for which there is a TMDL are not eligible for coverage under this general permit unless they are consistent with the approved TMDL. Permittees must incorporate the conditions and requirements applicable to their discharges into their SWP3, in order to be eligible for coverage under this general permit. For consistency with the construction stormwater-related items in an approved TMDL, the SWP3 must be consistent with any applicable condition, goal, or requirement in the TMDL, TMDL Implementation Plan (I-Plan), or as otherwise directed by the executive director.

5. Discharges to the Edwards Aquifer Recharge or Contributing Zone

   Discharges cannot be authorized by this general permit where prohibited by 30 TAC Chapter 213 (relating to Edwards Aquifer). In addition, commencement of construction (see definition for commencement of construction in Part I.B. above)) at a site regulated under 30 TAC Chapter 213, may not begin until the appropriate Edwards Aquifer Protection Plan (EAPP) has been approved by the TCEQ's Edwards Aquifer Protection Program.

   (a) For new discharges located within the Edwards Aquifer Recharge Zone, or within that area upstream from the recharge zone and defined as the Contributing Zone (CZ), operators must meet all applicable requirements of, and operate according to, 30 TAC Chapter 213 (Edwards Aquifer Rule) in addition to the provisions and requirements of this general permit.

(b) For existing discharges located within the Edwards Aquifer Recharge Zone, the requirements of the agency-approved Water Pollution Abatement Plan (WPAP) under the Edwards Aquifer Rule are in addition to the requirements of this general permit. BMPs and maintenance schedules for structural stormwater controls, for example, may be required as a provision of the rule. All applicable requirements of the Edwards Aquifer Rule for reductions of suspended solids in stormwater runoff are in addition to the requirements in this general permit for this pollutant.

(c) For discharges located within ten (10) stream miles upstream of the Edwards Aquifer recharge zone, applicants shall also submit a copy of the NOI to the appropriate TCEQ regional office.

Counties: Comal, Bexar, Medina, Uvalde, and Kinney

Contact: TCEQ Water Program Manager
San Antonio Regional Office
14250 Judson Road
San Antonio, Texas 78233-4480
(210) 490-3096

Counties: Williamson, Travis, and Hays

Contact: TCEQ Water Program Manager
Austin Regional Office
12100 Park 35 Circle
Room 179, Building A
Austin, Texas 78753
(512) 339-2929

6. Discharges to Specific Watersheds and Water Quality Areas

Discharges otherwise eligible for coverage cannot be authorized by this general permit where prohibited by 30 TAC Chapter 311 (relating to Watershed Protection) for water quality areas and watersheds.

7. Protection of Streams and Watersheds by Other Governmental Entities

This general permit does not limit the authority or ability of federal, other state, or local governmental entities from placing additional or more stringent requirements on construction activities or discharges from construction activities.

8. Indian Country Lands

Stormwater runoff from construction activities occurring on Indian Country lands are not under the authority of the TCEQ and are not eligible for coverage under this general permit. If discharges of stormwater require authorization under federal NPDES regulations, authority for these discharges must be obtained from the U.S. Environmental Protection Agency (EPA).

9. Exempt Oil and Gas Activities

The CWA § 402(l)(2) provides that stormwater discharges from construction activities related to oil and gas exploration, production, processing, or treatment, or transmission facilities are exempt from regulation under this permit. The term “oil and gas exploration, production, processing, or treatment operations, or transmission facilities” is defined in 33 U.S.C. Annotated § 1362 (24).

The exemption in CWA § 402(l)(2) *includes* stormwater discharges from construction activities regardless of the amount of disturbed acreage, which are necessary to prepare a site for drilling and the movement and placement of drilling equipment, drilling waste management pits, in field treatment plants, and in field transportation infrastructure (e.g., crude oil pipelines, natural gas treatment plants, and both natural gas transmission pipeline compressor and crude oil pumping stations) necessary for the operation of most producing oil and gas fields. Construction activities are defined in 33 U.S. Code § 1362(24) and interpreted by EPA in the final rule. *See* June 12, 2006 Amendments to the NPDES Regulations for Storm Water Discharges Associated with Oil and Gas Exploration, Production, Processing, or Treatment Operations or Transmission Facilities (71 FR 33628, Part V. Terminology).

The exemption *does not include* stormwater discharges from the construction of administrative buildings, parking lots, and roads servicing an administrative building at an oil and gas site, as these are considered traditional construction activities.

As described in 40 CFR § 122.26(c)(1)(iii) [*regulations prior to 2006*], discharges from oil and gas construction activities are waived from CWA § 402(l)(2) permit coverage *unless* the construction activity (or construction support activity) has had a discharge of stormwater resulting in the discharge of a reportable quantity of oil or hazardous substances or the discharge contributes to a violation of water quality standards.

Exempt oil and gas activities which have lost their exemption as a result of one of the above discharges, must obtain permit coverage under this general permit, an alternative general permit, or a TPDES individual permit prior to the next discharge.

10. Stormwater Discharges from Agricultural Activities

    Stormwater discharges from agricultural activities that are not point source discharges of stormwater are not subject to TPDES permit requirements. These activities may include clearing and cultivating ground for crops, construction of fences to contain livestock, construction of stock ponds, and other similar agricultural activities. Discharges of stormwater runoff associated with the construction of facilities that are subject to TPDES regulations, such as the construction of concentrated animal feeding operations, would be point sources regulated under this general permit.

11. Endangered Species Act

    Discharges that would adversely affect a listed endangered or threatened aquatic or aquatic-dependent species or its critical habitat are not authorized by this permit, unless the requirements of the Endangered Species Act are satisfied. Federal requirements related to endangered species apply to all TPDES permitted discharges and site-specific controls may be required to ensure that protection of endangered or threatened species is achieved. If a permittee has concerns over potential impacts to listed species, the permittee may contact TCEQ for additional information.

12. Storage of High-Level Radioactive Waste

    Discharges of stormwater from construction activities associated with the construction of a facility that is licensed for the storage of high-level radioactive waste by the United States Nuclear Regulatory Commission under 10 CFR Part 72 are not authorized by this general permit. Texas Health and Safety Code (THSC) § 401.0525 prohibits TCEQ from issuing any TPDES authorizations for the construction or operation of these facilities.

    Discharges of stormwater from the construction activities associated with the construction of a facility located at the site of currently or formerly operating nuclear power reactors and currently or formerly operating nuclear research and test reactors operated by a university are not prohibited under THSC § 401.0525 and continue to be regulated under this general permit.

13. Other

    Nothing in Part II. of the general permit is intended to negate any person's ability to assert *force majeure* (act of God, war, strike, riot, or other catastrophe) defenses found in 30 TAC § 70.7

Section D. Deadlines for Obtaining Authorization to Discharge

1. Large Construction Activities

   (a) New Construction – Discharges from sites where the commencement of construction activity occurs on or after the effective date of this general permit must be authorized, either under this general permit or a separate TPDES permit, prior to the commencement of those construction activities.

   (b) Ongoing Construction – Operators of large construction activities continuing to operate after the effective date of this permit, and authorized under the TPDES Construction General Permit (CGP) TXR150000 (effective on March 5, 2018, and amended on January 28, 2022), must submit an NOI to renew authorization or an NOT to terminate coverage under this general permit within 90 days of the effective date of this general permit. During this interim or grace period, as a requirement of this TPDES permit, the operator must continue to meet the conditions and requirements of the issued and amended 2018 TPDES CGP.

2. Small Construction Activities

   (a) New Construction – Discharges from sites where the commencement of construction activity occurs on or after the effective date of this general permit must be authorized, either under this general permit or a separate TPDES permit, prior to the commencement of those construction activities.

   (b) Ongoing Construction – Discharges from ongoing small construction activities that commenced prior to the effective date of this general permit, and that do not meet the conditions to qualify for termination of this permit as described in Part II.F. of this general permit, must meet the requirements to be authorized, either under this general permit or a separate TPDES permit, within 90 days of the effective date of this general permit. During this interim period, as a requirement of this TPDES permit, the operator must continue to meet the conditions and requirements of the issued and amended 2018 TPDES CGP.

Section E. Obtaining Authorization to Discharge

1. Automatic Authorization for Small Construction Activities with Low Potential for Erosion

   Operators of small construction activity, as defined in Part I.B. of this general permit, shall not submit an NOI for coverage, unless otherwise required by the executive director.

   Operators of small construction activities, which occur in certain counties and during periods of low potential for erosion that do not meet the conditions of the waiver described in Part II.G. of this general permit, may be automatically authorized under this general permit if all the following conditions are met prior to the commencement of construction.

   (a) The construction activity occurs in a county and during the corresponding date range(s) listed in Appendix A;

(b) The construction activity is initiated and completed, including either final or temporary stabilization of all disturbed areas, within the time frame identified in Appendix A for the location of the construction site;

(c) All temporary stabilization is adequately maintained to effectively reduce or prohibit erosion, permanent stabilization activities have been initiated, and a condition of final stabilization is completed no later than 30 days following the end date of the time frame identified in Appendix A for the location of the construction site; the permittee signs a completed TCEQ Small Construction Site Notice for low potential for erosion (Form TCEQ-20964), including the certification statement;

(d) A signed and certified copy of the TCEQ Small Construction Site Notice for low potential for erosion is posted at the construction site in a location where it is readily available for viewing by the general public, local, state, and federal authorities prior to commencing construction activities, and maintained in that location until final stabilization has been achieved;

> NOTE: Posted TCEQ site notices may have a redacted signature as long as there is an original signed and certified TCEQ site notice, with a viewable signature, located on-site and available for review by any applicable regulatory authority.

(e) A copy of the signed and certified TCEQ Small Construction Site Notice for low potential for erosion is provided to the operator of any MS4 receiving the discharge at least two (2) days prior to commencement of construction activities;

(f) Discharges of stormwater runoff or other non-stormwater discharges from any supporting concrete batch plant or asphalt batch plant is separately authorized under an individual TPDES permit, another TPDES general permit, or under an individual TCEQ permit where stormwater and non-stormwater is disposed of by evaporation or irrigation (discharges are adjacent to water in the state); and

(g) Any non-stormwater discharges are either authorized under a separate permit or authorization, are not considered by TCEQ to be a wastewater, or are captured and routed for disposal at a publicly operated treatment works or licensed waste disposal facility.

If all of the conditions in (a) – (h) above are met, then the operator(s) of small construction activities with low potential for erosion are not required to develop a SWP3.

If an operator is conducting small construction activities and any of the above conditions (a) – (h) are not met, the operator cannot declare coverage under the automatic authorization for small construction activities with low potential for erosion and must meet the requirements for automatic authorization (all other) small construction activities, described below in Part II.E.2.

For small construction activities that occur during a period with a low potential for erosion, where automatic authorization under this section is not available, an operator may apply for and obtain a waiver from permitting (Low Rainfall Erosivity Waiver – LREW), as described in Part II.G. of this general permit. Waivers from coverage under the LREW do not allow for any discharges of non-stormwater and the operator must ensure that discharges on non-stormwater are either authorized under a separate permit or authorization.

2. Automatic Authorization for Small Construction Activities

Operators of small construction activities as defined in Part I.B. of this general permit shall not submit an NOI for coverage, unless otherwise required by the executive director.

Operators of small construction activities, as defined in Part I.B. of this general permit or as defined but who do not meet in the conditions and requirements located in Part II.E.1 above, may be automatically authorized for small construction activities, provided that they meet all of the following conditions:

(a) develop a SWP3 according to the provisions of this general permit, that covers either the entire site or all portions of the site for which the applicant is the operator, and implement the SWP3 prior to commencing construction activities;

(b) all operators of regulated small construction activities must post a copy of a signed and certified TCEQ Small Construction Site Notice (Form TCEQ-20963), the notice must be posted at the construction site in a location where it is safely and readily available for viewing by the general public, local, state, and federal authorities, at least two (2) days prior to commencing construction activity , and maintain the notice in that location until completion of the construction activity (for linear construction activities, e.g. pipeline or highway, the TCEQ site notice must be placed in a publicly accessible location near where construction is actively underway; notice for these linear sites may be relocated, as necessary, along the length of the project, and the notice must be safely and readily available for viewing by the general public; local, state, and federal authorities);

(c) operators must maintain a posted TCEQ Small Construction Site Notice on the approved TCEQ form at the construction site until final stabilization has been achieved; and

> NOTE: Posted TCEQ site notices may have a redacted signature as long as there is an original signed and certified TCEQ Small Construction Site Notice, with a viewable signature, located on-site and available for review by an applicable regulatory authority.

(d) provide a copy of the signed and certified TCEQ Small Construction Site Notice to the operator of any municipal separate storm sewer system (MS4) receiving the discharge at least two (2) days prior to commencement of construction activities.

(e) if signatory authority is delegated by an authorized representative, then a Delegation of Signatory form must be submitted as required by 30 TAC § 305.128 (relating to Signatories to Reports). Operators for small construction activities must submit this form via mail following the instructions on the approved TCEQ paper form. A new Delegation of Signatory form must be submitted if the delegation changes to another individual or position.

As described in Part I.B of this general permit, large construction activities include those that will disturb less than five (5) acres of land, but that are part of a larger common plan of development or sale that will ultimately disturb five (5) or more acres of land and must meet the requirements of Part II.E.3. below.

3. Authorization for Large Construction Activities

Operators of large construction activities that qualify for coverage under this general permit must meet all of the following conditions:

(a) develop a SWP3 according to the provisions of this general permit that covers either the entire site or all portions of the site where the applicant is the operator. The SWP3 must be developed and implemented prior to obtaining coverage and prior to commencing construction activities;

(b) primary operators of large construction activities must submit an NOI prior to commencing construction activity at a construction site. A completed NOI must be submitted to TCEQ electronically using the online ePermits system on TCEQ's website.

Operators with an electronic reporting waiver must submit a completed paper NOI to TCEQ at least seven (7) days prior to commencing construction activity to obtain provisional coverage 48-hours from the postmark date for delivery to the TCEQ. An authorization is no longer provisional when the executive director finds the NOI is administratively complete, and an authorization number is issued to the permittee for the construction site indicated on the NOI.

If an additional primary operator is added after the initial NOI is submitted, the additional primary operator must meet the same requirements for existing primary operator(s), as indicated above.

If the primary operator changes due to responsibility at the site being transferred from one primary operator to another after the initial NOI is submitted, the new primary operator must submit an electronic NOI, unless they request and obtain a waiver from electronic reporting, at least ten (10) days prior to assuming operational control of a construction site and commencing construction activity.

(c) all operators of large construction activities must post a TCEQ Large Construction Site Notice on the approved TCEQ form (Form TCEQ-20961) in accordance with Part III.D.2. of this permit. The TCEQ site notice must be located where it is safely and readily available for viewing by the general public, local, state, and federal authorities prior to commencing construction activities, and must be maintained in that location until final stabilization has been achieved. For linear construction activities, e.g., pipeline or highway, the TCEQ site notice must be placed in a publicly accessible location near where construction is actively underway; notice for these linear sites may be relocated, as necessary, along the length of the project, and the notice must be safely and readily available for viewing by the general public, local, state, and federal authorities;

(d) two days prior to commencing construction activities, all primary operators must:

i. provide a copy of the signed NOI to the operator of any MS4 receiving the discharge and to any secondary construction operator, and

ii. list in the SWP3 the names and addresses of all MS4 operators receiving a copy;

(e) if signatory authority is delegated by an authorized representative, then a Delegation of Signatories form must be submitted as required by 30 TAC § 305.128 (relating to Signatories to Reports). Primary operators must submit this form electronically using the State of Texas Environmental Electronic Reporting System (STEERS), TCEQ's online permitting system, or by paper if the permittee requested and obtained an electronic reporting waiver. A new Delegation of Signatories form must be submitted, if the delegation changes to another individual or position;

(f) all persons meeting the definition of "secondary operator" in Part I of this permit are hereby notified that they are regulated under this general permit, but are not required to submit an NOI, provided that a primary operator at the site has submitted an NOI, or prior to commencement of construction activities, a primary operator is required to submit an NOI and the secondary operator has provided notification to the operator(s) of the need to obtain coverage (with records of notification available upon request). Any secondary operator notified under this provision may alternatively submit an NOI under this general permit, may seek coverage under an alternative TPDES individual permit, or may seek coverage under an alternative TPDES general permit if available; and

(g) all secondary operators of large construction activities must post a copy of the signed and certified TCEQ Large Construction Site Notice for Secondary Operators on the approved TCEQ form (Form TCEQ-20962) and provide a copy of the signed and certified TCEQ site notice to the operator of any MS4 receiving the discharge at least two (2) days prior to the commencement construction activities.

NOTE: Posted TCEQ site notices may have a redacted signature as long as there is an original signed and certified TCEQ Large Construction Site Notice for Secondary Operators, with a viewable signature, located on-site and available for review by an applicable regulatory authority.

Applicants must submit an NOI using the online ePermits system (accessed using STEERS) available through the TCEQ website, or request and obtain a waiver from electronic reporting from the TCEQ. Waivers from electronic reporting are not transferrable and expire on the same date as the authorization to discharge.

4. Waivers for Small Construction Activities:

Operators of certain small construction activities may obtain a waiver from coverage under this general permit, if applicable. The requirements are outlined in Part II.G. below.

5. Effective Date of Coverage

(a) Operators of small construction activities as described in either Part II.E.1. or II.E.2. above are authorized immediately following compliance with the applicable conditions of Part II.E.1. or II.E.2. Secondary operators of large construction activities as described in Part II.E.3. above are authorized immediately following compliance with the applicable conditions in Part II.E.3. For activities located in areas regulated by 30 TAC Chapter 213, related to the Edwards Aquifer, this authorization to discharge is separate from the requirements of the operator's responsibilities under that rule. Construction may not commence for sites regulated under 30 TAC Chapter 213 until all applicable requirements of that rule are met.

(b) Primary operators of large construction activities as described in Part II.E.3. above that electronically submit an NOI are authorized immediately following confirmation of receipt of the electronic form by the TCEQ, unless otherwise notified by the executive director.

Operators with an electronic reporting waiver are provisionally authorized 48-hours from the date that a completed paper NOI is postmarked for delivery to the TCEQ, unless otherwise notified by the executive director. An authorization is no longer provisional when the executive director finds the NOI is administratively complete and an authorization number is issued to the permittee for the construction site indicated on the NOI.

For construction activities located in areas regulated by 30 TAC Chapter 213, related to the Edwards Aquifer, this authorization to discharge is separate from the requirements of the operator's responsibilities under that rule. Construction activities may not commence for sites regulated under 30 TAC Chapter 213 until all applicable requirements of that rule are met.

(c) Operators are not prohibited from submitting late NOIs or posting late site notices to obtain authorization under this general permit. The TCEQ reserves the right to take appropriate enforcement action for any unpermitted activities that may have occurred between the time construction commenced and authorization under this general permit was obtained.

(d) If operators that submitted NOIs have active authorizations for construction activities that are ongoing when this general permit expires on March 5, 2028, and a new general permit is issued, a 90-day interim (grace) period is granted to provide coverage that is administratively continued until operators with active authorizations can obtain coverage under the newly issued CGP. The 90-day grace period starts on the effective date of the newly issued CGP.

6. Contents of the NOI

The NOI form shall require, at a minimum, the following information:

(a) the TPDES CGP authorization number for existing authorizations under this general permit, where the operator submits an NOI to renew coverage within 90 days of the effective date of this general permit;

(b) the name, address, and telephone number of the operator filing the NOI for permit coverage;

(c) the name (or other identifier), address, county, and latitude/longitude of the construction project or site;

(d) the number of acres that will be disturbed by the applicant;

(e) the estimated construction project start date and end date;

(f) confirmation that the project or site will not be located on Indian Country lands;

(g) confirmation if the construction activity is associated with an oil and gas exploration, production, processing, or treatment, or transmission facility (see Part II.C.9.)

(h) confirmation that the construction activities are not associated with the construction of a facility that is licensed for the storage of high-level radioactive waste by the United States Nuclear Regulatory Commission under 10 CFR Part 72 (see Part II.C.12.);

(i) confirmation that a SWP3 has been developed in accordance with all conditions of this general permit, that it will be implemented prior to commencement of construction activities, and that it is compliant with any applicable local sediment and erosion control plans; for multiple operators who prepare a shared SWP3, the confirmation for an operator may be limited to its obligations under the SWP3 provided all obligations are confirmed by at least one operator;

(j) name of the receiving water(s);

(k) the classified segment number for each classified segment that receives discharges from the regulated construction activity (if the discharge is not directly to a classified segment, then the classified segment number of the first classified segment that those discharges reach); and

(l) the name of all surface waters receiving discharges from the regulated construction activity that are on the latest EPA-approved CWA § 303(d) List of impaired waters or *Texas Integrated Report of Surface Water Quality for CWA Sections 305(b) and 303(d)* as not meeting applicable state water quality standards.

7. Notice of Change (NOC)

(a) If relevant information provided in the NOI changes, the operator that has submitted the NOI must submit an NOC to TCEQ at least fourteen (14) days before the change occurs. Where a 14-day advance notice is not possible, the operator must submit an NOC to TCEQ within fourteen (14) days of discovery of the change. If the operator becomes aware that it failed to submit any relevant facts or submitted

incorrect information in an NOI, the correct information must be submitted to TCEQ in an NOC within fourteen (14) days after discovery.

(b) Information on an NOC may include, but is not limited to, the following:

i. a change in the description of the construction project;

ii. an increase in the number of acres disturbed (for increases of one (1) or more acres);

iii. or the name of the operator (where the name of the operator has changed).

(c) Electronic NOC.

Applicants must submit an NOC using the online ePermits system available through the TCEQ website, or request and obtain a waiver from electronic reporting from the TCEQ. All waivers from electronic reporting are not transferrable. Electronic reporting waivers expire on the same date as the authorization to discharge, except for temporary waivers that expire one (1) year from issuance. A copy of the NOC form or letter must also be placed in the SWP3 and provided to the operator of any MS4 receiving the discharge. Operators are authorized immediately following confirmation of receipt of the electronic form by the TCEQ, unless otherwise notified by the executive director.

(d) Paper NOC.

Applicants who request and obtain an electronic reporting waiver shall submit the NOC on a paper form provided by the executive director, or by letter if an NOC form is not available.

(e) A copy of the NOC form or letter must also be placed in the SWP3 and provided to the operator of any MS4 receiving the discharge. A list that includes the names and addresses of all MS4 operators receiving a copy of the NOC (or NOC letter) must be included in the SWP3. Information that may not be included on an NOC includes but is not limited to the following:

i. transfer of operational control from one operator to another, including a transfer of the ownership of a company. A transfer of ownership of a company includes changes to the structure of a company, such as changing from a partnership to a corporation or changing corporation types, so that the filing or charter number that is on record with the Texas Secretary of State (SOS) must be changed.

ii. coverage under this general permit is not transferable from one operator to another. Instead, the new operator will need to submit an NOI or LREW, as applicable, and the previous operator will need to submit an NOT.

iii. a decrease in the number of acres disturbed. This information must be included in the SWP3 and retained on site.

8. Signatory Requirement for NOI Forms, NOT Forms, NOC Forms, and Construction Site Notices

NOI forms, NOT forms, NOC forms, and Construction Site Notices that require a signature must be signed according to 30 TAC § 305.44 (relating to Signatories for Applications).

Section F. Terminating Coverage

1. Notice of Termination (NOT) Required

   Each operator that has submitted an NOI for authorization of large construction activities under this general permit must apply to terminate that authorization following the conditions described in this section of the general permit.

   Authorization of large construction must be terminated by submitting an NOT electronically via the online ePermits system available through the TCEQ website, or on a paper NOT form to TCEQ supplied by the executive director with an approved waiver from electronic reporting. Authorization to discharge under this general permit terminates at midnight on the day a paper NOT is postmarked for delivery to the TCEQ or immediately following confirmation of the receipt of the NOT submitted electronically by the TCEQ.

   Applicants must submit an NOT using the online ePermits system available through the TCEQ website, or request and obtain a waiver from electronic reporting from the TCEQ. Waivers from electronic reporting are not transferrable and expire on the same date as the authorization to discharge, except for temporary waivers that expire one (1) year from issuance.

   The NOT must be submitted to TCEQ, and a copy of the NOT provided to the operator of any MS4 receiving the discharge (with a list in the SWP3 of the names and addresses of all MS4 operators receiving a copy), within 30 days after any of the following conditions are met:

   (a) final stabilization has been achieved on all portions of the site that are the responsibility of the operator;

   (b) a transfer of operational control has occurred (See Section II.F.4. below); or

   (c) the operator has obtained alternative authorization under an individual TPDES permit or alternative TPDES general permit.

   Compliance with the conditions and requirements of this permit is required until the NOT is submitted and approved by TCEQ.

2. Minimum Contents of the NOT

   The NOT form shall require, at a minimum, the following information:

   (a) if authorization for construction activity was granted following submission of an NOI, the permittee's site-specific TPDES authorization number for a specific construction site;

   (b) an indication of whether final stabilization has been achieved at the site and a NOT has been submitted or if the permittee is simply no longer an operator at the site;

   (c) the name, address, and telephone number of the permittee submitting the NOT;

   (d) the name (or other identifier), address, county, and location (latitude/longitude) of the construction project or site; and

   (e) a signed certification that either all stormwater discharges requiring authorization under this general permit will no longer occur, or that the applicant is no longer the operator of the facility or construction site, and that all temporary structural erosion controls have either been removed, will be removed on a schedule defined in the SWP3, or have been transferred to a new operator if the new operator has applied for permit coverage. Erosion controls that are designed to remain in place for an indefinite period, such as mulches and fiber mats, are not required to be removed or scheduled for removal.

3. Termination of Coverage for Small Construction Sites and for Secondary Operators at Large Construction Sites

   (a) Each operator that has obtained automatic authorization for small construction or is a secondary operator for large construction must perform the following when terminating coverage under the permit:

      i. remove the TCEQ site notice;

      ii. complete the applicable portion of the TCEQ site notice related to removal of the TCEQ site notice; and

      iii. submit a copy of the completed TCEQ site notice to the operator of any MS4 receiving the discharge (or provide alternative notification as allowed by the MS4 operator, with documentation of such notification included in the SWP3).

   (b) The activities described in Part II.F.3.(a) above must be completed by the operator within 30 days of meeting any of the following conditions:

      i. final stabilization has been achieved on all portions of the site that are the responsibility of the operator;

      ii. a transfer of day-to-day operational control over activities necessary to ensure compliance with the SWP3 and other permit conditions has occurred (See Section II.F.4. below); or

      iii. the operator has obtained alternative authorization under an individual or general TPDES permit.

   For Small Construction Sites and Secondary Operators at Large Construction Sites, authorization to discharge under this general permit terminates immediately upon removal of the applicable TCEQ construction site notice. Compliance with the conditions and requirements of this permit is required until the TCEQ construction site notice is removed. The construction site notice cannot be removed until final stabilization has been achieved.

4. Transfer of Day-to-Day Operational Control

   (a) When the primary operator of a large construction activity changes or operational control over activities necessary to ensure compliance with the SWP3 and other permit conditions is transferred to another primary operator, the original operator must do the following:

      i. submit an NOT within ten (10) days prior to the date that responsibility for operations terminates, and the new operator must submit an NOI at least ten (10) days prior to the transfer of operational control, in accordance with condition (c) below; and

      ii. submit a copy of the NOT from the primary operator terminating its coverage under the permit and its operational control of the construction site and submit a copy of the NOI from the new primary operator to the operator of any MS4 receiving the discharge in accordance with Part II.F.1. above.

   (b) For transfer of operational control, operators of small construction activities and secondary operators of large construction activities who are not required to submit an NOI must do the following:

      i. the existing operator must remove the original TCEQ construction site notice, and the new operator must post the required TCEQ construction site notice prior to the transfer of operational control, in accordance with the conditions in Part II.F.4.(c) i or ii below; and

ii. a copy of the TCEQ construction site notice, which must be completed and provided to the operator of any MS4 receiving the discharge, in accordance with Part II.F.3. above.

(c) Each operator is responsible for determining its role as an operator as defined in Part I.B. and obtaining authorization under the permit, as described above in Part II.E. 1. - 3. Where authorization has been obtained by submitting an NOI for coverage under this general permit, permit coverage is not transferable from one operator to another. A transfer of operational control can include changes to the structure of a company, such as changing from a partnership to a corporation, or changing to a different corporation type such that a different filing (or charter) number is established with the Texas Secretary of State (SOS). A transfer of operational control can also occur when one of the following criteria is met, as applicable:

i. another operator has assumed control over all areas of the site that do not meet the definition for final stabilization;

ii. all silt fences and other temporary erosion controls have either been removed, scheduled for removal as defined in the SWP3, or transferred to a new operator, provided that the original permitted operator has attempted to notify the new operator in writing of the requirement to obtain permit coverage. Records of this notification (or attempt at notification) shall be retained by the operator transferring operational control to another operator in accordance with Part VI of this permit. Erosion controls that are designed to remain in place for an indefinite period, such as mulches and fiber mats, are not required to be removed or scheduled for removal; or

iii. a homebuilder has purchased one (1) or more lots from an operator who obtained coverage under this general permit for a common plan of development or sale. The homebuilder is considered a new operator and shall comply with the requirements of this permit. Under these circumstances, the homebuilder is only responsible for compliance with the general permit requirements as they apply to the lot(s) it has operational control over in a larger common plan of development, and the original operator remains responsible for common controls or discharges, and must amend its SWP3 to remove the lot(s) transferred to the homebuilder.

Section G. Waivers from Coverage

The executive director may waive the otherwise applicable requirements of this general permit for stormwater discharges from small construction activities under the terms and conditions described in this section.

1. Waiver Applicability and Coverage

Operators of small construction activities may apply for and receive a waiver from the requirements to obtain authorization under this general permit, when the calculated rainfall erosivity (R) factor for the entire period of the construction project is less than five (5).

The operator must submit a Low Rainfall Erosivity Waiver (LREW) certification form to the TCEQ electronically via the online ePermits system available through the TCEQ website. The LREW form is a certification by the operator that the small construction activity will commence and be completed within a period when the value of the calculated R factor is less than five (5).

Applicants who request and obtain an electronic reporting waiver shall submit the LREW on a paper form provided by the executive director at least seven (7) days prior to commencing construction activity to obtain provisional coverage 48-hours from the postmark date for delivery to the TCEQ. An authorization is no longer provisional when the executive director finds the LREW is administratively complete, and an authorization number is issued to the permittee for the construction site indicated on the LREW. Waivers from electronic reporting are not transferrable and expire on the same date as the authorization to discharge, except for temporary waivers that expire one (1) year from issuance.

This LREW from coverage does not apply to any non-stormwater discharges, including what is allowed under this permit. The operator must ensure that all non-stormwater discharges are either authorized under a separate permit or authorization or are captured and routed to an authorized treatment facility for disposal.

2. Steps to Obtaining a Waiver

The construction site operator may calculate the R factor to request a waiver using the following steps:

(a) estimate the construction start date and the construction end date. The construction end date is the date that final stabilization will be achieved.

(b) find the appropriate Erosivity Index (EI) zone in Appendix B of this permit.

(c) find the EI percentage for the project period by adding the results for each period of the project using the table provided in Appendix D of this permit, in EPA Fact Sheet 2.1, or in USDA Handbook 703, by subtracting the start value from the end value to find the percent EI for the site.

(d) refer to the Isoerodent Map (Appendix C of this permit) and interpolate the annual isoerodent value for the proposed construction location.

(e) multiply the percent value obtained in Step (c) above by the annual isoerodent value obtained in Step (d). This is the R factor for the proposed project. If the value is less than five (5), then a waiver may be obtained. If the value is five (5) or more, then a waiver may not be obtained, and the operator must obtain coverage under Part II.E.2. of this permit.

Alternatively, the operator may calculate a site-specific R factor utilizing the following online calculator: https://lew.epa.gov/, or using another available resource.

A copy of the LREW certification form is not required to be posted at the small construction site.

3. Effective Date of an LREW

Unless otherwise notified by the executive director, operators of small construction activities seeking coverage under an LREW are provisionally waived from the otherwise applicable requirements of this general permit 48-hours from the date that a completed paper LREW certification form is postmarked for delivery to TCEQ, or immediately upon receiving confirmation of approval of an electronic submittal, made via the online ePermits system available through the TCEQ website.

Applicants seeking coverage under an LREW must submit an application for an LREW using the online ePermits system available through the TCEQ website, or request and obtain a waiver from electronic reporting from the TCEQ. Waivers from electronic reporting are not transferrable and expire on the same date as the authorization to discharge.

4. Activities Extending Beyond the LREW Period

   If a construction activity extends beyond the approved waiver period due to circumstances beyond the control of the operator, the operator must either:

   (a) recalculate the R factor using the original start date and a new projected ending date, and if the R factor is still under five (5), submit a new LREW form at least two (2) days before the end of the original waiver period; or

   (b) obtain authorization under this general permit according to the requirements for automatic authorization for small construction activities in Part II.E.2. of this permit, prior to the end of the approved LREW period.

Section H. Alternative TPDES Permit Coverage

1. Individual Permit Alternative

   Any discharge eligible for coverage under this general permit may alternatively be authorized under an individual TPDES permit according to 30 TAC Chapter 305 (relating to Consolidated Permits). Applications for individual permit coverage must be submitted at least 330 days prior to commencement of construction activities to ensure timely authorization. Existing coverage under this general permit should not be terminated until an individual permit is issued and in effect.

2. General Permit Alternative

   Any discharges eligible for authorization under this general permit may alternatively be authorized under a separate general permit according to 30 TAC Chapter 205 (relating to General Permits for Waste Discharges), as applicable.

3. Individual Permit Required

   The executive director may require an operator of a construction site, otherwise eligible for authorization under this general permit, to apply for an individual TPDES permit in the following circumstances:

   (a) the conditions of an approved TMDL or TMDL I-Plan on the receiving water;

   (b) the activity being determined to cause, has a reasonable potential to cause, or contribute to a violation of water quality standards or being found to cause, or contribute to, the loss of a designated use of surface water in the state; and

   (c) any other consideration defined in 30 TAC Chapter 205 (relating to General Permits for Waste Discharges) including 30 TAC § 205.4(c)(3)(D), which allows the commission to deny authorization under the general permit and require an individual permit if a discharger has been determined by the executive director to have been out of compliance with any rule, order, or permit of the commission, including non-payment of fees assessed by the executive director.

      A discharger with a TCEQ compliance history rating of “unsatisfactory” is ineligible for coverage under this general permit. In that case, 30 TAC § 60.3 requires the executive director to deny or suspend an authorization to discharge under a general permit. However, per TWC § 26.040(h), a discharger is entitled to a hearing before the commission prior to having an authorization denied or suspended for having an “unsatisfactory” compliance history.

   Denial of authorization to discharge under this general permit or suspension of a permittee’s authorization under this general permit for reasons other than compliance history shall be done according to commission rules in 30 TAC Chapter 205 (relating to General Permits for Waste Discharges).

Section I. Permit Expiration

1. This general permit is effective for a term not to exceed five (5) years. All active discharge authorizations expire on the date provided on page one (1) of this permit. Following public notice and comment, as provided by 30 TAC § 205.3 (relating to Public Notice, Public Meetings, and Public Comment), the commission may amend, revoke, cancel, or renew this general permit. All authorizations that are active at the time the permit term expires will be administratively continued as indicated in Part II.I.2. below and in Part II.D.1.(b) and D.2.(b) of this permit.
2. If the executive director publishes a notice of the intent to renew or amend this general permit before the expiration date, the permit will remain in effect for existing, authorized discharges until the commission takes final action on the permit. Upon issuance of a renewed or amended permit, permittees may be required to submit an NOI within 90 days following the effective date of the renewed or amended permit, unless that permit provides for an alternative method for obtaining authorization.
3. If the commission does not propose to reissue this general permit within 90 days before the expiration date, permittees shall apply for authorization under an individual permit or an alternative general permit. If the application for an individual permit is submitted before the expiration date, authorization under this expiring general permit remains in effect until the issuance or denial of an individual permit. No new NOIs will be accepted nor new authorizations honored under the general permit after the expiration date.

Part III. Stormwater Pollution Prevention Plans (SWP3)

All regulated construction site operators shall prepare an SWP3, prior to submittal of an NOI, to address discharges authorized under Parts II.E.2. and II.E.3. of this general permit that will reach waters of the U.S. This includes discharges to MS4s and privately owned separate storm sewer systems that drain into surface water in the state or waters of the U.S.

Individual operators at a site may develop separate SWP3s that cover only their portion of the project, provided reference is made to the other operators at the site. Where there is more than one (1) SWP3 for a site, operators must coordinate to ensure that BMPs and controls are consistent and do not negate or impair the effectiveness of each other. Regardless of whether a single comprehensive SWP3 is developed or separate SWP3s are developed for each operator, it is the responsibility of each operator to ensure compliance with the terms and conditions of this general permit in the areas of the construction site where that operator has control over construction plans and specifications or day-to-day operations.

An SWP3 must describe the implementation of practices that will be used to minimize to the extent practicable the discharge of pollutants in stormwater associated with construction activity and non-stormwater discharges described in Part II.A.3., in compliance with the terms and conditions of this permit.

An SWP3 must also identify any potential sources of pollution that have been determined to cause, have a reasonable potential to cause, or contribute to a violation of water quality standards or have been found to cause or contribute to the loss of a designated use of surface water in the state from discharges of stormwater from construction activities and construction support activities. Where potential sources of these pollutants are present at a construction site, the SWP3 must also contain a description of the management practices that will be used to prevent these pollutants from being discharged into surface water in the state or waters of the U.S.

> NOTE: Construction support activities can also include vehicle repair areas, fueling areas, etc. that are present at a construction site solely for the support construction activities and are only used by operators at the construction site.

The SWP3 is intended to serve as a road map for how the construction operator will comply with the effluent limits and other conditions of this permit. Additional portions of the effluent limits are established in Part IV. of the permit.

Section A. Shared SWP3 Development

For more effective coordination of BMPs and opportunities for cost sharing, a cooperative effort by the different operators at a site is encouraged. Operators of small and large construction activities must independently obtain authorization under this permit but may work together with other regulated operators at the construction site to prepare and implement a single, comprehensive SWP3, which can be shared by some or all operators, for the construction activities that each of the operators are performing at the entire construction site.

1. The SWP3 must include the following:
   (a) for small construction activities – the name of each operator that participates in the shared SWP3;
   (b) for large construction activities – the name of each operator that participates in the shared SWP3, the general permit authorization numbers of each operator (or the date that the NOI was submitted to TCEQ by each operator that has not received an authorization number for coverage under this permit); and
   (c) for large and small construction activities – the signature of each operator participating in the shared SWP3.
2. The SWP3 must clearly indicate which operator is responsible for satisfying each shared requirement of the SWP3. If the responsibility for satisfying a requirement is not described in the plan, then each permittee is entirely responsible for meeting the requirement within the boundaries of the construction site where they perform construction activities. The SWP3 must clearly describe responsibilities for meeting each requirement in shared or common areas.
3. The SWP3 may provide that one operator is responsible for preparation of a SWP3 in compliance with the CGP, and another operator is responsible for implementation of the SWP3 at the project site.

Section B. Responsibilities of Operators

1. Secondary Operators and Primary Operators with Control Over Construction Plans and Specifications

   All secondary operators and primary operators with control over construction plans and specifications shall:
   (a) ensure the project specifications allow or provide that adequate BMPs are developed to meet the requirements of Part III of this general permit;
   (b) ensure that the SWP3 indicates the areas of the project where they have control over project specifications, including the ability to make modifications in specifications;
   (c) ensure that all other operators affected by modifications in project specifications are notified in a timely manner so that those operators may modify their BMP s as necessary to remain compliant with the conditions of this general permit; and

(d) ensure that the SWP3 for portions of the project where each operator has control indicates the name and site-specific TPDES authorization number(s) for operators with the day-to-day operational control over those activities necessary to ensure compliance with the SWP3 and other permit conditions. If a primary operator has not been authorized or has abandoned the site, the secondary operator is considered to be the responsible party and must obtain authorization as a primary operator under the permit, until the authority for day-to-day operational control is transferred to another primary operator. The new primary operator must update or develop a new SWP3 that will reflect the transfer of operational control and include any additional updates to the SWP3 to meet requirements of the permit.

2. Primary Operators with Day-to-Day Operational Control

Primary operators with day-to-day operational control of those activities at a project that are necessary to ensure compliance with an SWP3 and other permit conditions must ensure that the SWP3 accomplishes the following requirements:

(a) meets the requirements of this general permit for those portions of the project where they are operators;

(b) identifies the parties responsible for implementation of BMPs described in the SWP3;

(c) indicates areas of the project where they have operational control over day-to-day activities; and

(d) the name and site-specific TPDES authorization number of the parties with control over project specifications, including the ability to make modifications in specifications for areas where they have operational control over day-to-day activities.

Section C. Deadlines for SWP3 Preparation, Implementation, and Compliance

The SWP3 must be prepared prior to obtaining authorization under this general permit, and implemented prior to commencing construction activities that result in soil disturbance. The SWP3 must be prepared so that it provides for compliance with the terms and conditions of this general permit.

Section D. Plan Review and Making Plans Available

1. The SWP3 must be retained on-site at the construction site or, if the site is inactive or does not have an on-site location to store the plan, a notice must be posted describing the location of the SWP3. The SWP3 must be made readily available at the time of an on-site inspection to: the executive director; a federal, state, or local agency approving sediment and erosion plans, grading plans, or stormwater management plans; local government officials; and the operator of a municipal separate storm sewer receiving discharges from the site. If the SWP3 is retained off-site, then it shall be made available as soon as reasonably possible. In most instances, it is reasonable that the SWP3 shall be made available within 24 hours of the request.

   NOTE: The SWP3 may be prepared and kept electronically, rather than in paper form, if the records are: (a) in a format that can be read in a similar manner as a paper record; (b) legally valid with no less evidentiary value than their paper equivalent; and (c) immediately accessible to the inspector during an inspection to the same extent as a paper copy stored at the site would be, if the records were stored in paper form.

2. Operators with authorization for construction activity under this general permit must post a TCEQ site notice at the construction site at a place readily available for viewing by the general public, and local, state, and federal authorities.

(a) Primary and secondary operators of large construction activities must each post a TCEQ construction site notice, respective to their role as an operator at the construction site, as required above and according to requirements in Part II.E.3. of this general permit.

(b) Primary and secondary operators of small construction activities must post the TCEQ site notice as required in Part III.D.2.(a) above and for the specific type of small construction described in Part II.E.1. and 2. of the permit.

(c) If the construction project is a linear construction project, such as a pipeline or highway, the notices must be placed in a publicly accessible location near where construction is actively underway. TCEQ construction site notices for small and large construction activities at these linear construction sites may be relocated, as necessary, along the length of the project, but must still be readily available for viewing by the general public; local, state, and federal authorities; and contain the following information:

i. the site-specific TPDES authorization number for the project if assigned;

ii. the operator name, contact name, and contact phone number;

iii. a brief description of the project; and

iv. the location of the SWP3.

3. This permit does not provide the general public with any right to trespass on a construction site for any reason, including inspection of a site; nor does this permit require that permittees allow members of the general public access to a construction site.

Section E. Revisions and Updates to SWP3s

The permittee must revise or update the SWP3, including the site map, within seven (7) days of when any of the following occurs:

1. a change in design, construction, operation, or maintenance that has a significant effect on the discharge of pollutants and that has not been previously addressed in the SWP3;
2. changing site conditions based on updated plans and specifications, new operators, new areas of responsibility, and changes in BMPs; or
3. results of inspections or investigations by construction site personnel authorized by the permittee, operators of a municipal separate storm sewer system receiving the discharge, authorized TCEQ personnel, or a federal, state or local agency approving sediment and erosion plans indicate the SWP3 is proving ineffective in eliminating or significantly minimizing pollutants in discharges authorized under this general permit.

Section F. Contents of SWP3

The SWP3 must be developed and implemented by primary operators of small and large construction activities and include, at a minimum, the information described in this section and must comply with the construction and development effluent guidelines in Part IV. of the general permit.

1. A site or project description, which includes the following information:

(a) a description of the nature of the construction activity;

(b) a list of potential pollutants and their sources;

(c) a description of the intended schedule or sequence of activities that will disturb soils for major portions of the site, including estimated start dates and duration of activities;

(d) the total number of acres of the entire property and the total number of acres where construction activities will occur, including areas where construction support activities (defined in Part I.B. of this general permit) occur;

(e) data describing the soil or the quality of any discharge from the site;

(f) a map showing the general location of the site (e.g., a portion of a city or county map);

(g) a detailed site map (or maps) indicating the following:

i. property boundary(ies);

ii. drainage patterns and approximate slopes anticipated before and after major grading activities;

iii. areas where soil disturbance will occur (note any phasing), including any demolition activities;

iv. locations of all controls and buffers, either planned or in place;

v. locations where temporary or permanent stabilization practices are expected to be used;

vi. locations of construction support activities, including those located off-site;

vii. surface waters (including wetlands) either at, adjacent, or in close proximity to the site, and also indicate whether those waters are impaired;

NOTE: Surface waters adjacent to or in close proximity to the site means any receiving waters within the site and all receiving waters within one mile downstream of the site's discharge point(s).

viii. locations where stormwater discharges from the site directly to a surface water body or a municipal separate storm sewer system;

ix. vehicle wash areas; and

x. designated points on the site where vehicles will exit onto paved roads (for instance, this applies to construction transition from unstable dirt areas to exterior paved roads).

Where the amount of information required to be included on the map would result in a single map being difficult to read and interpret, the operator shall develop a series of maps that collectively include the required information.

(h) the location and description of support activities authorized under the permittee's NOI, including asphalt plants, concrete plants, and other activities providing support to the construction site that is authorized under this general permit;

(i) the name of receiving waters at or near the site that may be disturbed or that may receive discharges from disturbed areas of the project;

(j) a copy of this TPDES general permit (an electronic copy of this TPDES general permit or a current link to this TPDES general permit on the TCEQ webpage is acceptable);

(k) the NOI and the acknowledgement of provisional and non-provisional authorization for primary operators of large construction sites, and the TCEQ site notice for small construction sites and for secondary operators of large construction sites;

(l) if signatory authority is delegated by an authorized representative, then a copy of the formal notification to TCEQ, as required by 30 TAC 305.128 relating to Signatories to Reports must be filed in the SWP3 and made available for review upon request by TCEQ or local MS4 Operator. For primary operators of large construction activities, the formal notification to TCEQ must be submitted either electronically through

STEERS, TCEQ's electronic reporting system, or, if qualifying for an electronic reporting waiver, by paper on a Delegation of Signatories form. For operators or small construction activities, the formal notification to TCEQ must be submitted by paper on a Delegation of Signatories form.

(m) stormwater and allowable non-stormwater discharge locations, including storm drain inlets on site and in the immediate vicinity of the construction site where construction support activities will occur; and

(n) locations of all pollutant-generating activities at the construction site and where construction support activities will occur, such as the following: Paving operations; concrete, paint and stucco washout and water disposal; solid waste storage and disposal; and dewatering operations.

2. A description of the BMPs that will be used to minimize pollution in runoff.

The description must identify the general timing or sequence for installation and implementation. At a minimum, the description must include the following components:

(a) General Requirements

i. Erosion and sediment controls must be designed to retain sediment on-site to the extent practicable with consideration for local topography, soil type, and rainfall.

ii. Control measures must be properly selected, installed, and maintained according to good engineering practices, and the manufacturer's or designer's specifications.

iii. Controls must be developed to minimize the offsite transport of litter, construction debris, construction materials, and other pollutants required of Part IV.D.

(b) Erosion Control and Stabilization Practices

The SWP3 must include a description of temporary and permanent erosion control and stabilization practices for the construction site, where small or large construction activity will occur. The erosion control and stabilization practices selected by the permittee must be compliant with the requirements for sediment and erosion control, located in Part IV. of this permit. The description of the SWP3 must also include a schedule of when the practices will be implemented. Site plans must ensure that existing vegetation at the construction site is preserved where it is possible.

i. Erosion control and stabilization practices may include but are not limited to: establishment of temporary or permanent vegetation, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of existing trees and vegetation, slope texturing, temporary velocity dissipation devices, flow diversion mechanisms, and other similar measures.

ii. The following records must be maintained and either attached to or referenced in the SWP3, and made readily available upon request to the parties listed in Part III.D.1 of this general permit:

(A) the dates when major grading activities occur;

(B) the dates when construction activities temporarily or permanently cease on a portion of the site; and

(C) the dates when stabilization measures are initiated.

iii. Erosion control and stabilization measures must be initiated immediately in portions of the site where construction activities have temporarily ceased and will not resume for a period exceeding fourteen (14) calendar days. Stabilization

measures that provide a protective cover must be initiated immediately in portions of the site where construction activities have permanently ceased. The term "immediately" is used to define the deadline for initiating stabilization measures. In the context of this requirement, "immediately" means as soon as practicable, but no later than the end of the next work day, following the day when the earth-disturbing activities have temporarily or permanently ceased. Except as provided in (A) through (D) below, these measures must be completed as soon as practicable, but no more than fourteen (14) calendar days after the initiation of soil stabilization measures:

(A) where the immediate initiation of vegetative stabilization measures after construction activity has temporarily or permanently ceased due to frozen conditions, non-vegetative controls must be implemented until thawing conditions (as defined in Part I.B. of this general permit) are present, and vegetative stabilization measures can be initiated as soon as practicable.

(B) in arid areas, semi-arid areas, or drought-stricken areas, as they are defined in Part I.B. of this general permit, where the immediate initiation of vegetative stabilization measures after construction activity has temporarily or permanently ceased or is precluded by arid conditions, other types of erosion control and stabilization measures must be initiated at the site as soon as practicable. Where vegetative controls are infeasible due to arid conditions, and within fourteen (14) calendar days of a temporary or permanent cessation of construction activity in any portion of the site, the operator shall immediately install non-vegetative erosion controls in areas of the construction site where construction activity is complete or has ceased. If non-vegetative controls are infeasible, the operator shall install temporary sediment controls as required in Part III.F.2.(b)iii.(C) below.

(C) in areas where non-vegetative controls are infeasible, the operator may alternatively utilize temporary perimeter controls. The operator must document in the SWP3 the reason why stabilization measures are not feasible, and must demonstrate that the perimeter controls will retain sediment on site to the extent practicable. The operator must continue to inspect the BMPs at the frequencies established in Part III.F.8.(c) for unstabilized sites.

(D) the requirement for permittees to initiate stabilization is triggered as soon as it is known with reasonable certainty that construction activity at the site or in certain areas of the site will be stopped for 14 or more additional calendar days. If the initiation or completion of vegetative stabilization is prevented by circumstances beyond the control of the permittee, the permittee must employ and implement alternative stabilization measures immediately. When conditions at the site changes that would allow for vegetative stabilization, then the permittee must initiate or complete vegetative stabilization as soon as practicable.

iv. Final stabilization must be achieved prior to termination of permit coverage.

v. TCEQ does not expect that temporary or permanent stabilization measures to be applied to areas that are intended to be left un-vegetated or un-stabilized following construction (e.g., dirt access roads, utility pole pads, areas being used for storage of vehicles, equipment, or materials).

(c) Sediment Control Practices

The SWP3 must include a description of any sediment control practices used to remove eroded soils from stormwater runoff, including the general timing or sequence for implementation of controls. Controls selected by the permittee must be compliant with the requirements in Part IV. of this permit.

i. Sites With Drainage Areas of Ten (10) or More Acres

(A) Sedimentation Basin(s) or Impoundments

(1) A sedimentation basin or similar impoundment is required, where feasible, for a common drainage location that serves an area with ten (10) or more acres disturbed at one time. A sedimentation basin or impoundment may be temporary or permanent, and must provide sufficient storage to contain a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained. When calculating the volume of runoff from a 2-year, 24-hour storm event, it is not required to include the flows from offsite areas and flow from onsite areas that are either undisturbed or have already undergone permanent stabilization, if these flows are diverted around both the disturbed areas of the site and the sediment basin or similar impoundment. Capacity calculations shall be included in the SWP3. Sedimentation basins must be designed for and appropriate for controlling runoff at the site and existing detention or retention ponds at the site may not be appropriate.

(2) Where rainfall data is not available, or a calculation cannot be performed, the sedimentation basin must provide at least 3,600 cubic feet of storage per acre drained until final stabilization of the site.

(3) If a sedimentation basin or impoundment is not feasible, then the permittee shall provide equivalent control measures until final stabilization of the site. In determining whether installing a sediment basin or impoundment is feasible, the permittee may consider factors such as site soils, slope, available area, public safety, precipitation patterns, site geometry, site vegetation, infiltration capacity, geotechnical factors, depth to groundwater, and other similar considerations. The permittee shall document the reason that the sediment basins or impoundments are not feasible, and shall utilize equivalent control measures, which may include a series of smaller sediment basins or impoundments.

(4) Unless infeasible, when discharging from sedimentation basins and impoundments, the permittee shall utilize outlet structures that withdraw water from the surface.

(B) Perimeter Controls: At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries of the construction area, and for those side slope boundaries deemed appropriate as dictated by individual site conditions.

ii. Controls for Sites with Drainage Areas Less than Ten (10) Acres:

(A) Sediment traps and sediment basins may be used to control solids in stormwater runoff for drainage locations serving less than ten (10) acres. At a minimum, silt fences, vegetative buffer strips, or equivalent sediment controls are required for all down slope boundaries of the construction area, and for those side slope boundaries deemed appropriate as dictated by individual site conditions.

(B) Alternatively, a sediment basin that provides storage for a calculated volume of runoff from a 2-year, 24-hour storm from each disturbed acre drained may be utilized. Where rainfall data is not available or a calculation cannot be performed, a temporary or permanent sediment basin providing 3,600 cubic feet of storage per acre drained may be provided. If a calculation is performed, then the calculation shall be included in the SWP3.

(C) If sedimentation basins or impoundments are used, the permittee shall comply with the requirements in Part IV.F. of this general permit.

3. Description of Permanent Stormwater Controls

A description of any stormwater control measures that will be installed during the construction process to control pollutants in stormwater discharges that may occur after construction operations have been completed must be included in the SWP3. Permittees are responsible for the installation and maintenance of stormwater management measures, as follows:

(a) permittees authorized under the permit for small construction activities are responsible for the installation and maintenance of stormwater control measures prior to final stabilization of the site; or

(b) permittees authorized under the permit for large construction activities are responsible for the installation and maintenance of stormwater control measures prior to final stabilization of the site and prior to submission of an NOT.

4. Other Required Controls and BMPs

(a) Permittees shall minimize, to the extent practicable, the off-site vehicle tracking of sediments and dust. The SWP3 shall include a description of controls utilized to control the generation of pollutants that could be discharged in stormwater from the site.

(b) The SWP3 must include a description of construction and waste materials expected to be stored on-site and a description of controls to minimize pollutants from these materials.

(c) The SWP3 must include a description of potential pollutant sources in discharges of stormwater from all areas of the construction site where construction activity, including construction support activities, will be located, and a description of controls and measures that will be implemented at those sites to minimize pollutant discharges.

(d) Permittees shall place velocity dissipation devices at discharge locations and along the length of any outfall channel (i.e., runoff conveyance) to provide a non-erosive flow velocity from the structure to a water course, so that the natural physical and biological characteristics and functions are maintained and protected.

(e) Permittees shall design and utilize appropriate controls in accordance with Part IV. of this permit to minimize the offsite transport of suspended sediments and other pollutants if it is necessary to pump or channel standing water from the site.

(f) Permittees shall ensure that all other required controls and BMPs comply with all of the requirements of Part IV. of this general permit.

(g) For demolition of any structure with at least 10,000 square feet of floor space that was built or renovated before January 1, 1980, and the receiving waterbody is impaired for polychlorinated biphenyls (PCBs):

i. implement controls to minimize the exposure of PCB-containing building materials, including paint, caulk, and pre-1980 fluorescent lighting fixtures to precipitation and to stormwater; and

ii. ensure that disposal of such materials is performed in compliance with applicable state, federal, and local laws.

5. Documentation of Compliance with Approved State and Local Plans

   (a) Permittees must ensure that the SWP3 is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or stormwater management site plans or site permits approved by federal, state, or local officials.

   (b) SWP3s must be updated as necessary to remain consistent with any changes applicable to protecting surface water resources in sediment erosion site plans or site permits, or stormwater management site plans or site permits approved by state or local official for which the permittee receives written notice.

   (c) If the permittee is required to prepare a separate management plan, including but not limited to a WPAP or Contributing Zone Plan in accordance with 30 TAC Chapter 213 (related to the Edwards Aquifer), then a copy of that plan must be either included in the SWP3 or made readily available upon request to authorized personnel of the TCEQ. The permittee shall maintain a copy of the approval letter for the plan in its SWP3.

6. Maintenance Requirements

   (a) All protective measures identified in the SWP3 must be maintained in effective operating condition. If, through inspections or other means, as soon as the permittee determines that BMPs are not operating effectively, then the permittee shall perform maintenance as necessary to maintain the continued effectiveness of stormwater controls, and prior to the next rain event if feasible. If maintenance prior to the next anticipated storm event is impracticable, the reason shall be documented in the SWP3 and maintenance must be scheduled and accomplished as soon as practicable. Erosion and sediment controls that have been intentionally disabled, run-over, removed, or otherwise rendered ineffective must be replaced or corrected immediately upon discovery.

   (b) If periodic inspections or other information indicates a control has been used incorrectly, is performing inadequately, or is damaged, then the operator shall replace or modify the control as soon as practicable after making the discovery.

   (c) Sediment must be removed from sediment traps and sedimentation ponds no later than the time that design capacity has been reduced by 50%. For perimeter controls such as silt fences, berms, etc., the trapped sediment must be removed before it reaches 50% of the above-ground height.

   (d) If sediment escapes the site, accumulations must be removed at a frequency that minimizes off-site impacts, and prior to the next rain event, if feasible. If the permittee does not own or operate the off-site conveyance, then the permittee shall work with the owner or operator of the property to remove the sediment.

7. Observation and Evaluation of Dewatering Controls Pursuant to Part IV.C. of this General Permit

   (a) Personnel provided by the permittee must observe and evaluate dewatering controls at a minimum of once per day on the days where dewatering discharges from the construction site occur. Personnel conducting these evaluations must be knowledgeable of this general permit, the construction activities at the site, and the SWP3 for the site. Personnel conducting these evaluations are not required to have signatory authority for reports under 30 TAC § 305.128 (relating to Signatories to Reports).

(b) Requirements for Observations and Evaluations

i. A report summarizing the scope of any observation and evaluation must be completed within 24-hours following the evaluation. The report must also include, at a minimum, the following:

(A) date of the observations and evaluation;

(B) name(s) and title(s) of personnel making the observations and evaluation;

(C) approximate times that the dewatering discharge began and ended on the day of evaluation, or if the dewatering discharge is a continuous discharge that continues after normal business hours, indicate that the discharge is continuous (this information can be reported by personnel initiating the dewatering discharge);

(D) estimates of the rate (in gallons per day) of discharge on the day of evaluation;

(E) whether or not any indications of pollutant discharge were observed at the point of discharge (e.g., foam, oil sheen, noticeable odor, floating solids, suspended sediments, or other obvious indicators of stormwater pollution); and

(F) major observations, including: the locations of where erosion and discharges of sediment or other pollutants from the site have occurred; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed.

ii. Actions taken as a result of evaluations, including the date(s) of actions taken, must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and this permit. The report must be retained as part of the SWP3 and signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

iii. The names and qualifications of personnel making the evaluations for the permittee may be documented once in the SWP3 rather than being included in each report.

8. Inspections of All Controls

(a) Personnel provided by the permittee must inspect disturbed areas (cleared, graded, or excavated) of the construction site that do not meet the requirements of final stabilization in this general permit, all locations where stabilization measures have been implemented, areas of construction support activity covered under this permit, stormwater controls (including pollution prevention controls) for evidence of, or the potential for, the discharge of pollutants, areas where stormwater typically flows within the construction site, and points of discharge from the construction site.

i. Personnel conducting these inspections must be knowledgeable of this general permit, the construction activities at the site, and the SWP3 for the site.

ii. Personnel conducting these inspections are not required to have signatory authority for inspection reports under 30 TAC § 305.128 (relating to Signatories to Reports).

(b) Requirements for Inspections

i. Inspect all stormwater controls (including sediment and erosion control measures identified in the SWP3) to ensure that they are installed properly, appear to be operational, and minimizing pollutants in discharges, as intended.

ii. Identify locations on the construction site where new or modified stormwater controls are necessary.

iii. Check for signs of visible erosion and sedimentation that can be attributed to the points of discharge where discharges leave the construction site or discharge into any surface water in the state flowing within or adjacent to the construction site.

iv. Identify any incidents of noncompliance observed during the inspection.

v. Inspect locations where vehicles enter or exit the site for evidence of off-site sediment tracking.

vi. If an inspection is performed when discharges from the construction site are occurring: identify all discharge points at the site, and observe and document the visual quality of the discharge (i.e., color, odor, floating, settled, or suspended solids, foam, oil sheen, and other such indicators of pollutants in stormwater).

vii. Complete any necessary maintenance needed, based on the results of the inspection and in accordance with the requirements listed in Part III.F.6. above.

(c) Inspection frequencies:

i. Inspections of construction sites must be conducted at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater, unless as otherwise provided below in Part III.F.8.(c)ii. – v. below.

(A) If a storm event produces 0.5 inches or more of rain within a 24-hour period (including when there are multiple, smaller storms that alone produce less than 0.5 inches but together produce 0.5 inches or more in 24 hours), you are required to conduct one inspection within 24 hours of when 0.5 inches of rain or more has fallen. When the 24-hour inspection time frame occurs entirely outside of normal working hours, you must conduct an inspection by no later than the end of the next business day.

(B) If a storm event produces 0.5 inches or more of rain within a 24-hour period on the first day of a storm and continues to produce 0.5 inches or more of rain on subsequent days, you must conduct an inspection within 24 hours of the first day of the storm and within 24 hours after the last day of the storm that produces 0.5 inches or more of rain (i.e., only two (2) inspections would be required for such a storm event). When the 24-hour inspection time frame occurs entirely outside of normal working hours, you must conduct an inspection by no later than the end of the next business day.

ii. Inspection frequencies must be conducted at least once every month in areas of the construction site that meet final stabilization or have been temporarily stabilized.

iii. Inspection frequencies for construction sites, where runoff is unlikely due to the occurrence of frozen conditions at the site, must be conducted at least once every month until thawing conditions begin to occur (see definitions for thawing conditions in Part I.B.). The SWP3 must also contain a record of the approximate beginning and ending dates of when frozen conditions occurred at the site, which resulted in inspections being conducted monthly, while those

conditions persisted, instead of at the interval of once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

iv. In arid, semi-arid, or drought-stricken areas, inspections must be conducted at least once every month and within 24 hours after the end of a storm event of 0.5 inches or greater. The SWP3 must also contain a record of the total rainfall measured, as well as the approximate beginning and ending dates of when drought conditions occurred at the site, which resulted in inspections being conducted monthly, while those conditions persisted, instead of at the interval of once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater.

v. As an alternative to the inspection schedule in Part III.F.8.(c)i. above, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, then the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.

vi. The inspection procedures described in Part III.F.8.(c)i. – v above can be performed at the frequencies and under the applicable conditions indicated for each schedule option, provided that the SWP3 reflects the current schedule and that any changes to the schedule are made in accordance with the following provisions: the inspection frequency schedule can only be changed a maximum of once per calendar month and implemented within the first five (5) business days of a calendar month; and the reason for the schedule change documented in the SWP3 (e.g., end of "dry" season and beginning of "wet" season).

(d) Utility line installation, pipeline construction, and other examples of long, narrow, linear construction activities may provide inspection personnel with limited access to the areas described in Part III.F.8.(a) above.

i. Inspection of linear construction sites could require the use of vehicles that could compromise areas of temporary or permanent stabilization, cause additional disturbance of soils, and result in the increase the potential for erosion. In these circumstances, controls must be inspected at least once every fourteen (14) calendar days and within 24 hours of the end of a storm event of 0.5 inches or greater, but representative inspections may be performed.

ii. For representative inspections, personnel must inspect controls along the construction site for 0.25 mile above and below each access point where a roadway, undisturbed right-of-way, or other similar feature intersects the construction site and allows access to the areas described in Part III.F.8.(a) above. The conditions of the controls along each inspected 0.25-mile portion may be considered as representative of the condition of controls along that reach extending from the end of the 0.25-mile portion to either the end of the next 0.25-mile inspected portion, or to the end of the project, whichever occurs first.

As an alternative to the inspection schedule described in Part III.F.8.(c)i. above, the SWP3 may be developed to require that these inspections will occur at least once every seven (7) calendar days. If this alternative schedule is developed, the inspection must occur regardless of whether or not there has been a rainfall event since the previous inspection.

iii. the SWP3 for a linear construction site must reflect the current inspection schedule. Any changes to the inspection schedule must be made in accordance with the following provisions:

(A) the schedule may be changed a maximum of one time each month;

(B) the schedule change must be implemented at the beginning of a calendar month, and

(C) the reason for the schedule change must be documented in the SWP3 (e.g., end of "dry" season and beginning of "wet" season).

(e) Adverse Conditions.

Requirements for inspections may be temporarily suspended for adverse conditions. Adverse conditions are conditions that are either dangerous to personnel (e.g., high wind, excessive lightning) or conditions that prohibit access to the site (e.g., flooding, freezing conditions). Adverse conditions that result in the temporary suspension of a permit requirement to inspect must be documented and included as part of the SWP3. Documentation must include:

i. the date and time of the adverse condition,

ii. names of personnel that witnessed the adverse condition, and

iii. a narrative for the nature of the adverse condition.

(f) In the event of flooding or other adverse conditions which prohibit access to the inspection sites, inspections must be conducted as soon as access is practicable. Inspection Reports.

i. A report summarizing the scope of any inspection must be completed within 24-hours following the inspection. The report must also include the date(s) of the inspection and major observations relating to the implementation of the SWP3. Major observations in the report must include: the locations of where erosion and discharges of sediment or other pollutants from the site have occurred; locations of BMPs that need to be maintained; locations of BMPs that failed to operate as designed or proved inadequate for a particular location; and locations where additional BMPs are needed.

ii. Actions taken as a result of inspections, including the date(s) of actions taken, must be described within, and retained as a part of, the SWP3. Reports must identify any incidents of non-compliance. Where a report does not identify any incidents of non-compliance, the report must contain a certification that the facility or site is in compliance with the SWP3 and this permit. The report must be retained as part of the SWP3 and signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

iii. The names and qualifications of personnel making the inspections for the permittee may be documented once in the SWP3 rather than being included in each report.

(g) The SWP3 must be modified based on the results of inspections, as necessary, to better control pollutants in runoff. Revisions to the SWP3 must be completed within seven (7) calendar days following the inspection. If existing BMPs are modified or if additional BMPs are necessary, an implementation schedule must be described in the SWP3 and wherever possible those changes implemented before the next storm event. If implementation before the next anticipated storm event is impracticable, these changes must be implemented as soon as practicable. If necessary, modify your site map to reflect changes to your stormwater controls that are no longer accurately reflected on the current site map.

9. The SWP3 must identify and ensure the implementation of appropriate pollution prevention measures for all eligible non-stormwater components of the discharge, as listed in Part II.A.3. of this permit.

10. The SWP3 must include the information required in Part III.B. of this general permit.

11. The SWP3 must include pollution prevention procedures that comply with Part IV.D. of this general permit.

Part IV. Erosion and Sediment Control Requirements Applicable to All Sites

Except as provided in 40 CFR §§ 125.30-125.32, any discharge regulated under this general permit, with the exception of sites that obtained waivers based on low rainfall erosivity, must achieve, at a minimum, the following effluent limitations representing the degree of effluent reduction attainable by application of the best practicable control technology currently available (BPT). The BPT are also required by and must satisfy the Effluent Limitations Guideline (ELG) permitting requirement for application of 40 CFR § 450.24 New Source Performance Standards (NSPS), 40 CFR § 450.22 Best Available Technology Economically Achievable (BAT), and 40 CFR § 450.23 Best Conventional Pollutant Control Technology (BCT).

Section A. Erosion and Sediment Controls

Design, install, and maintain effective erosion controls and sediment controls to minimize the discharge of pollutants. At a minimum, such controls must be designed, installed, and maintained to:

1. control stormwater volume and velocity within the site to minimize soil erosion in order to minimize pollutant discharges;
2. control stormwater discharges, including both peak flowrates and total stormwater volume, to minimize channel and streambank erosion and scour in the immediate vicinity of discharge point(s);
3. minimize the amount of soil exposed during construction activity;
4. minimize the disturbance of steep slopes;
5. minimize sediment discharges from the site. The design, installation, and maintenance of erosion and sediment controls must address factors such as the amount, frequency, intensity and duration of precipitation, the nature of resulting stormwater runoff, and soil characteristics, including the range of soil particle sizes expected to be present on the site;
6. provide and maintain appropriate natural buffers around surface water in the state. Direct stormwater to vegetated areas and maximize stormwater infiltration to reduce pollutant discharges, unless infeasible. If providing buffers is infeasible, the permittee shall document the reason that natural buffers are infeasible and shall implement additional erosion and sediment controls to reduce sediment load;
7. preserve native topsoil at the site, unless the intended function of a specific area of the site dictates that the topsoil be disturbed or removed, or it is infeasible; and
8. minimize soil compaction. In areas of the construction site where final vegetative stabilization will occur or where infiltration practices will be installed, either:
   (a) restrict vehicle and equipment use to avoid soil compaction; or
   (b) prior to seeding or planting areas of exposed soil that have been compacted, use techniques that condition the soils to support vegetative growth, if necessary and feasible.

   Minimizing soil compaction is not required where the intended function of a specific area of the site dictates that it be compacted.
9. TCEQ does not consider stormwater control features (e.g., stormwater conveyance channels, storm drain inlets, sediment basins) to constitute “surface water” for the purposes of triggering the buffer requirement in Part IV.A.(6) above.

Section B. Soil Stabilization

Stabilization of disturbed areas must, at a minimum, be initiated immediately whenever any clearing, grading, excavating, or other earth disturbing activities have permanently ceased on any portion of the site, or temporarily ceased on any portion of the site and will not resume for a period exceeding fourteen (14) calendar days. In the context of this requirement, "immediately" means as soon as practicable, but no later than the end of the next workday, following the day when the earth-disturbing activities have temporarily or permanently ceased. Temporary stabilization must be completed no more than fourteen (14) calendar days after initiation of soil stabilization measures, and final stabilization must be achieved prior to termination of permit coverage. In arid, semi-arid, and drought-stricken areas where initiating vegetative stabilization measures immediately is infeasible, alternative non-vegetative stabilization measures must be employed as soon as practicable. Refer to Part III.F.2.(b) for complete erosion control and stabilization practice requirements. In limited circumstances, stabilization may not be required if the intended function of a specific area of the site necessitates that it remain disturbed.

Section C. Dewatering

Discharges from dewatering activities, including discharges from dewatering of trenches and excavations, are prohibited, unless managed by appropriate controls to address sediment and prevent erosion. Operators must observe and evaluate the dewatering controls once per day while the dewatering discharge occurs as described in Part III.F.7. of this general permit.

Section D. Pollution Prevention Measures

Design, install, implement, and maintain effective pollution prevention measures to minimize the discharge of pollutants. At a minimum, such measures must be designed, installed, implemented, and maintained to:

1. minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water, and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge;
2. minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste, and other materials present on the site to precipitation and to stormwater;
3. minimize the exposure of waste materials by closing waste container lids at the end of the workday and during storm events. For waste containers that do not have lids, where the container itself is not sufficiently secure enough to prevent the discharge of pollutants absent a cover and could leak, the permittee must provide either a cover (e.g., a tarp, plastic sheeting, temporary roof) to minimize exposure of wastes to precipitation, stormwater, and wind, or a similarly effective means designed to minimize the discharge of pollutants (e.g., secondary containment). Minimization of exposure is not required in cases where the exposure to precipitation and to stormwater will not result in a discharge of pollutants, or where exposure of a specific material or product poses little risk of stormwater contamination (such as final products and materials intended for outdoor use);
4. minimize exposure of wastes by implementing good housekeeping measures. Wastes must be cleaned up and disposed of in designated waste containers on days of operation at the site. Wastes must be cleaned up immediately if containers overflow;

5. minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302 occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as you have knowledge of the release. You must also, within seven (7) calendar days of knowledge of the release, provide a description of the release, the circumstances leading to the release, and the date of the release; and
6. minimize exposure of sanitary waste by positioning portable toilets so that they are secure and will not be tipped or knocked over, and so that they are located away from surface water in the state and stormwater inlets or conveyances.

Section E. Prohibited Discharges

The following discharges are prohibited:

1. wastewater from wash out of concrete, unless managed by an appropriate control;
2. wastewater from wash out and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
3. fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
4. soaps or solvents used in vehicle and equipment washing; and
5. toxic or hazardous substances from a spill or other release.

Section F. Surface Outlets

When discharging from basins and impoundments, utilize outlet structures that withdraw water from the surface, unless infeasible. If infeasible, the permittee must provide documentation in the SWP3 to support the determination, including the specific conditions or time periods when this exception will apply.

Part V. Stormwater Runoff from Concrete Batch Plants

Discharges of stormwater runoff from concrete batch plants present at regulated construction sites and operated as a construction support activity may be authorized under the provisions of this general permit, provided that the following requirements are met for concrete batch plant(s) authorized under this permit. Only the discharges of stormwater runoff and non-stormwater from concrete batch plants that meet the requirements of a construction support activity can be authorized under this permit (see the requirements for "Non-Stormwater Discharges" in Part II.A.3. and "Discharges of Stormwater Associated with Construction Support Activity" in Part II.A.2.).

If discharges of stormwater runoff or non-stormwater from concrete batch plants are not authorized under this general permit, then discharges must be authorized under an alternative general permit or individual permit [see the requirement in Part II.A.2.(c)].

This permit does not authorize the discharge or land disposal of any wastewater from concrete batch plants at regulated construction sites. Authorization for these wastes must be obtained under an individual permit or an alternative general permit.

Section A. Benchmark Sampling Requirements

1. Operators of concrete batch plants authorized under this general permit shall sample the stormwater runoff from the concrete batch plants according to the requirements of this section of this general permit, and must conduct evaluations on the effectiveness of the SWP3 based on the following benchmark monitoring values:

Table 1. Benchmark Parameters

Benchmark Parameter	Benchmark Value	Sampling Frequency	Sample Type
Oil and Grease (*1)	15 mg/L	1/quarter (*2) (*3)	Grab (*4)
Total Suspended Solids (*1)	50 mg/L	1/quarter (*2) (*3)	Grab (*4)
pH	6.0 – 9.0 Standard Units	1/quarter (*2) (*3)	Grab (*4)
Total Iron (*1)	1.3 mg/L	1/quarter (*2) (*3)	Grab (*4)

(*1) All analytical results for these parameters must be obtained from a laboratory that is accredited based on rules located in 30 TAC § 25.4 (a) or through the National Environmental Laboratory Accreditation Program (NELAP). Analysis must be performed using sufficiently sensitive methods for analysis that comply with the rules located in 40 CFR §§ 136.1(c) and 122.44(i)(1)(iv).

(*2) When discharge occurs. Sampling is required within the first 30 minutes of discharge. If it is not practicable to take the sample, or to complete the sampling, within the first 30 minutes, sampling must be completed within the first hour of discharge. If sampling is not completed within the first 30 minutes of discharge, the reason must be documented and attached to all required reports and records of the sampling activity.

(*3) Sampling must be conducted at least once during each of the following periods. The first sample must be collected during the first full quarter that a stormwater discharge occurs from a concrete batch plant authorized under this general permit.

January through March
April through June
July through September
October through December

For projects lasting less than one full quarter, a minimum of one sample shall be collected, provided that a stormwater discharge occurred at least once following submission of the NOI or following the date that automatic authorization was obtained under Part II.E.2., and prior to terminating coverage.

(*4) A grab sample shall be collected from the stormwater discharge resulting from a storm event that is at least 0.1 inches of measured precipitation that occurs at least 72 hours from the previously measurable storm event. The sample shall be collected downstream of the concrete batch plant, and where the discharge exits any BMPs utilized to handle the runoff from the batch plant, prior to commingling with any other water authorized under this general permit.

2. The permittee must compare the results of sample analyses to the benchmark values above, and must include this comparison in the overall assessment of the SWP3's effectiveness. Analytical results that exceed a benchmark value are not a violation of this permit, as these values are not numeric effluent limitations. Results of analyses are indicators that modifications of the SWP3 should be assessed and may be necessary to protect water quality. The operator must investigate the cause for each exceedance and must document the results of this investigation in the SWP3 by the end of the quarter following the sampling event.

   The operator's investigation must identify the following:

   (a) any additional potential sources of pollution, such as spills that might have occurred;

   (b) necessary revisions to good housekeeping measures that are part of the SWP3;

   (c) additional BMPs, including a schedule to install or implement the BMPs; and

   (d) other parts of the SWP3 that may require revisions in order to meet the goal of the benchmark values.

   Background concentrations of specific pollutants may also be considered during the investigation. If the operator is able to relate the cause of the exceedance to background concentrations, then subsequent exceedances of benchmark values for that pollutant may be resolved by referencing earlier findings in the SWP3. Background concentrations may be identified by laboratory analyses of samples of stormwater run-on to the permitted facility, by laboratory analyses of samples of stormwater run-off from adjacent non-industrial areas, or by identifying the pollutant is a naturally occurring material in soils at the site.

Section B. Best Management Practices (BMPs) and SWP3 Requirements

Minimum SWP3 Requirements – The following are required in addition to other SWP3 requirements listed in this general permit, which include, but are not limited to the applicable requirements located in Part III.F.8. of this general permit, as follows:

1. Description of Potential Pollutant Sources – The SWP3 must provide a description of potential sources (activities and materials) that can cause, have a reasonable potential to cause or contribute to a violation of water quality standards or have been found to cause, or contribute to, the loss of a designated use of surface water in the state in stormwater discharges associated with concrete batch plants authorized under this permit. The SWP3 must describe the implementation of practices that will be used to minimize to the extent practicable the discharge of pollutants in stormwater discharges associated with industrial activity and non-stormwater discharges (described in Part II.A.3. of this general permit), in compliance with the terms and conditions of this general permit, including the protection of water quality, and must ensure the implementation of these practices.

   The following must be developed, at a minimum, in support of developing this description:

   (a) Drainage – The site map must include the following information:

      i. the location of all outfalls for stormwater discharges associated with concrete batch plants that are authorized under this permit;

      ii. a depiction of the drainage area and the direction of flow to the outfall(s);

      iii. structural controls used within the drainage area(s);

iv. the locations of the following areas associated with concrete batch plants that are exposed to precipitation: vehicle and equipment maintenance activities (including fueling, repair, and storage areas for vehicles and equipment scheduled for maintenance); areas used for the treatment, storage, or disposal of wastes; liquid storage tanks; material processing and storage areas; and loading and unloading areas; and

v. the locations of the following: any bag house or other dust control device(s); recycle/sedimentation pond, clarifier or other device used for the treatment of facility wastewater (including the areas that drain to the treatment device); areas with significant materials; and areas where major spills or leaks have occurred.

(b) Inventory of Exposed Materials – A list of materials handled at the concrete batch plant that may be exposed to stormwater and precipitation and that have a potential to affect the quality of stormwater discharges associated with concrete batch plants that are authorized under this general permit.

(c) Spills and Leaks – A list of significant spills and leaks of toxic or hazardous pollutants that occurred in areas exposed to stormwater and precipitation and that drain to stormwater outfalls associated with concrete batch plants authorized under this general permit must be developed, maintained, and updated as needed.

(d) Sampling Data – A summary of existing stormwater discharge sampling data must be maintained, if available.

2. Measures and Controls – The SWP3 must include a description of management controls to regulate pollutants identified in the SWP3's "Description of Potential Pollutant Sources" from Part V.B.1. of this permit, and a schedule for implementation of the measures and controls. This must include, at a minimum:

(a) Good Housekeeping – Good housekeeping measures must be developed and implemented in the area(s) associated with concrete batch plants.

i. Operators must prevent or minimize the discharge of spilled cement, aggregate (including sand or gravel), settled dust, or other significant materials from paved portions of the site that are exposed to stormwater. Measures used to minimize the presence of these materials may include regular sweeping or other equivalent practices. These practices must be conducted at a frequency that is determined based on consideration of the amount of industrial activity occurring in the area and frequency of precipitation, and shall occur at least once per week when cement or aggregate is being handled or otherwise processed in the area.

ii. Operators must prevent the exposure of fine granular solids, such as cement, to stormwater. Where practicable, these materials must be stored in enclosed silos, hoppers or buildings, in covered areas, or under covering.

(b) Spill Prevention and Response Procedures – Areas where potential spills that can contribute pollutants to stormwater runoff and precipitation, and the drainage areas from these locations, must be identified in the SWP3. Where appropriate, the SWP3 must specify material handling procedures, storage requirements, and use of equipment. Procedures for cleaning up spills must be identified in the SWP3 and made available to the appropriate personnel.

(c) Inspections – Qualified facility personnel (i.e., a person or persons with knowledge of this general permit, the concrete batch plant, and the SWP3 related to the concrete batch plant(s) for the site) must be identified to inspect designated equipment and areas of the facility specified in the SWP3. Personnel conducting these inspections are not required to have signatory authority for inspection reports under 30 TAC § 305.128. Inspections of facilities in operation must be performed

once every seven (7) days. Inspections of facilities that are not in operation must be performed at a minimum of once per month. The current inspection frequency being implemented at the facility must be recorded in the SWP3. The inspection must take place while the facility is in operation and must, at a minimum, include all areas that are exposed to stormwater at the site, including material handling areas, above ground storage tanks, hoppers or silos, dust collection/containment systems, truck wash down and equipment cleaning areas. Follow-up procedures must be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections must be maintained and be made readily available for inspection upon request.

(d) Employee Training – An employee training program must be developed to educate personnel responsible for implementing any component of the SWP3, or personnel otherwise responsible for stormwater pollution prevention, with the provisions of the SWP3. The frequency of training must be documented in the SWP3, and at a minimum, must consist of one (1) training prior to the initiation of operation of the concrete batch plant.

(e) Record Keeping and Internal Reporting Procedures – A description of spills and similar incidents, plus additional information that is obtained regarding the quality and quantity of stormwater discharges, must be included in the SWP3. Inspection and maintenance activities must be documented and records of those inspection and maintenance activities must be incorporated in the SWP3.

(f) Management of Runoff – The SWP3 shall contain a narrative consideration for reducing the volume of runoff from concrete batch plants by diverting runoff or otherwise managing runoff, including use of infiltration, detention ponds, retention ponds, or reusing of runoff.

3. Comprehensive Compliance Evaluation – At least once per year, one or more qualified personnel (i.e., a person or persons with knowledge of this general permit, the concrete batch plant, and the SWP3 related to the concrete batch plant(s) for the site) shall conduct a compliance evaluation of the plant. The evaluation must include the following:

(a) visual examination of all areas draining stormwater associated with regulated concrete batch plants for evidence of, or the potential for, pollutants entering the drainage system. These include, but are not limited to: cleaning areas, material handling areas, above ground storage tanks, hoppers or silos, dust collection/containment systems, and truck wash down and equipment cleaning areas. Measures implemented to reduce pollutants in runoff (including structural controls and implementation of management practices) must be evaluated to determine if they are effective and if they are implemented in accordance with the terms of this permit and with the permittee's SWP3. The operator shall conduct a visual inspection of equipment needed to implement the SWP3, such as spill response equipment.

(b) based on the results of the evaluation, the following must be revised as appropriate within two (2) weeks of the evaluation: the description of potential pollutant sources identified in the SWP3 (as required in Part V.B.1., "Description of Potential Pollutant Sources"); and pollution prevention measures and controls identified in the SWP3 (as required in Part V.B.2., "Measures and Controls"). The revisions may include a schedule for implementing the necessary changes.

(c) the permittee shall prepare and include in the SWP3 a report summarizing the scope of the evaluation, the personnel making the evaluation, the date(s) of the evaluation, major observations relating to the implementation of the SWP3, and actions taken in response to the findings of the evaluation. The report must identify any incidents of noncompliance. Where the report does not identify incidences of noncompliance, the report must contain a statement that the evaluation did not identify any

incidence(s), and the report must be signed according to 30 TAC § 305.128 (relating to Signatories to Reports).

(d) the Comprehensive Compliance Evaluation may substitute for one of the required inspections delineated in Part V.B.2.(c) of this general permit.

Section C. Prohibition of Wastewater Discharges

Wastewater discharges associated with concrete production including wastewater disposal by land application are not authorized under this general permit. These wastewater discharges must be authorized under an alternative TCEQ water quality permit or otherwise disposed of in an authorized manner. Discharges of concrete truck wash out at construction sites may be authorized if conducted in accordance with the requirements of Part VI of this general permit.

Part VI. Concrete Truck Wash Out Requirements

This general permit authorizes the land disposal of wash out from concrete trucks at construction sites regulated under this general permit, provided the following requirements are met. Any discharge of concrete production wastewater to surface water in the state must be authorized under a separate TCEQ general permit or individual permit.

A. Discharge of concrete truck wash out water to surface water in the state, including discharge to storm sewers, is prohibited by this general permit.

B. Concrete truck wash out water shall be disposed in areas at the construction site where structural controls have been established to prevent discharge to surface water in the state, or to areas that have a minimal slope that allow infiltration and filtering of wash out water to prevent discharge to surface water in the state. Structural controls may consist of temporary berms, temporary shallow pits, temporary storage tanks with slow rate release, or other reasonable measures to prevent runoff from the construction site.

C. Wash out of concrete trucks during rainfall events shall be minimized. The discharge of concrete truck wash out water is prohibited at all times, and the operator shall insure that its BMPs are sufficient to prevent the discharge of concrete truck wash out as the result of rainfall or stormwater runoff.

D. The disposal of wash out water from concrete trucks, made under authorization of this general permit must not cause or contribute to groundwater contamination.

E. If a SWP3 is required to be implemented, the SWP3 shall include concrete wash out areas on the associated site map.

Part VII. Retention of Records

The permittee must retain the following records for a minimum period of three (3) years from the date that a NOT is submitted as required in Part II.F.1. and 2. of this permit. For activities in which an NOT is not required, records shall be retained for a minimum period of three (3) years from the date that the operator terminates coverage under Section II.F.3. of this permit. Records include:

A. a copy of the SWP3;

B. all reports and actions required by this permit, including a copy of the TCEQ construction site notice;

C. all data used to complete the NOI, if an NOI is required for coverage under this general permit; and

D. all records of submittal of forms submitted to the operator of any MS4 receiving the discharge and to the secondary operator of a large construction site, if applicable.

Part VIII. Standard Permit Conditions

A. The permittee has a duty to comply with all permit conditions. Failure to comply with any permit condition is a violation of the permit and statutes under which it was issued (CWA and TWC), and is grounds for enforcement action, for terminating, revoking and reissuance, or modification, or denying coverage under this general permit, or for requiring a discharger to apply for and obtain an individual TPDES permit, based on rules located in TWC § 23.086, 30 TAC § 305.66, and 40 CFR § 122.41 (a).

B. Authorization under this general permit may be modified, suspended, revoked and reissued, terminated or otherwise suspended for cause, based on rules located in TWC § 23.086, 30 TAC § 305.66, and 40 CFR § 122.41(f). Filing a notice of planned changes or anticipated non-compliance by the permittee does not stay any permit condition. The permittee must furnish to the executive director, upon request and within a reasonable time, any information necessary for the executive director to determine whether cause exists for modifying, revoking and reissuing, terminating or, otherwise suspending authorization under this permit, based on rules located in TWC § 23.086, 30 TAC § 305.66, and 40 CFR § 122.41 (h). Additionally, the permittee must provide to the executive director, upon request, copies of all records that the permittee is required to maintain as a condition of this general permit.

C. It is not a defense for a discharger in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the permit conditions.

D. Inspection and entry shall be allowed under TWC Chapters 26-28, Texas Health and Safety Code §§ 361.032-361.033 and 361.037, and 40 CFR § 122.41(i). The statement in TWC § 26.014 that commission entry of a facility shall occur according to an establishment's rules and regulations concerning safety, internal security, and fire protection is not grounds for denial or restriction of entry to any part of the facility or site, but merely describes the commission's duty to observe appropriate rules and regulations during an inspection.

E. The discharger is subject to administrative, civil, and criminal penalties, as applicable, under TWC Chapter 7 for violations including but not limited to the following:

1. negligently or knowingly violating the federal CWA §§ 301, 302, 306, 307, 308, 318, or 405, or any condition or limitation implementing any sections in a permit issued under CWA § 402, or any requirement imposed in a pretreatment program approved under CWA §§ 402(a)(3) or 402(b)(8);
2. knowingly making any false statement, representation, or certification in any record or other document submitted or required to be maintained under a permit, including monitoring reports or reports of compliance or noncompliance; and
3. knowingly violating CWA §303 and placing another person in imminent danger of death or serious bodily injury.

F. All reports and other information requested by the executive director must be signed by the person and in the manner required by 30 TAC § 305.128 (relating to Signatories to Reports).

G. Authorization under this general permit does not convey property or water rights of any sort and does not grant any exclusive privilege.

H. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

I. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems that are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

J. The permittee shall comply with the monitoring and reporting requirements in 40 CFR § 122.41(j) and (l), as applicable.

K. Analysis must be performed using sufficiently sensitive methods for analysis that comply with the rules located in 40 CFR §§ 136.1(c) and 122.44(i)(1)(iv).

Part IX. Fees

A. A fee of must be submitted along with the NOI:

1. $225 if submitting an NOI electronically, or
2. $325 if submitting a paper NOI.

B. Fees are due upon submission of the NOI. An NOI will not be declared administratively complete unless the associated fee has been paid in full.

C. No separate annual fees will be assessed for this general permit. The Water Quality Annual Fee has been incorporated into the NOI fees as described above.

Appendix A: Automatic Authorization

Periods of Low Erosion Potential by County – Eligible Date Ranges

Andrews: Nov. 15 - Apr. 30

Archer: Dec. 15 - Feb. 14

Armstrong: Nov. 15 - Apr. 30

Bailey: Nov. 1 - Apr. 30, or Nov. 15 - May 14

Baylor: Dec. 15 - Feb. 14

Borden: Nov. 15 - Apr. 30

Brewster: Nov. 15 - Apr. 30

Briscoe: Nov. 15 - Apr. 30

Brown: Dec. 15 - Feb. 14

Callahan: Dec. 15 - Feb. 14

Carson: Nov. 15 - Apr. 30

Castro: Nov. 15 - Apr. 30

Childress: Dec. 15 - Feb. 14

Cochran: Nov. 1 - Apr. 30, or Nov. 15 - May 14

Coke: Dec. 15 - Feb. 14

Coleman: Dec. 15 - Feb. 14

Collingsworth: Jan. 1 - Mar. 30, or Dec. 1 - Feb. 28

Concho: Dec. 15 - Feb. 14

Cottle: Dec. 15 - Feb. 14

Crane: Nov. 15 - Apr. 30

Crockett: Nov. 15 - Jan. 14, or Feb. 1 - Mar. 30

Crosby: Nov. 15 - Apr. 30

Culberson: Nov. 1 - May 14

Dallam: Nov. 1 - Apr. 14, or Nov. 15 - Apr. 30

Dawson: Nov. 15 - Apr. 30

Deaf Smith: Nov. 15 - Apr. 30

Dickens: Nov. 15 - Jan. 14, or Feb. 1 - Mar. 30

Dimmit: Dec. 15 - Feb. 14

Donley: Jan. 1 - Mar. 30, or Dec. 1 - Feb. 28

Eastland: Dec. 15 - Feb. 14

Ector: Nov. 15 - Apr. 30

Edwards: Dec. 15 - Feb. 14

El Paso: Jan. 1 - Jul. 14, or May 15 - Jul. 31, or Jun. 1 - Aug. 14, or Jun. 15 - Sept. 14, or Jul. 1 - Oct. 14, or Jul. 15 - Oct. 31, or Aug. 1 - Apr. 30, or Aug. 15 - May 14, or Sept. 1 - May 30, or Oct. 1 - Jun. 14, or Nov. 1 - Jun. 30, or Nov. 15 - Jul. 14

Fisher: Dec. 15 - Feb. 14

Floyd: Nov. 15 - Apr. 30

Foard: Dec. 15 - Feb. 14

Gaines: Nov. 15 - Apr. 30

Garza: Nov. 15 - Apr. 30

Glasscock: Nov. 15 - Apr. 30

Hale: Nov. 15 - Apr. 30

Hall: Feb. 1 - Mar. 30

Hansford: Nov. 15 - Apr. 30

Hardeman: Dec. 15 - Feb. 14

Hartley: Nov. 15 - Apr. 30

Haskell: Dec. 15 - Feb. 14

Hockley: Nov. 1 - Apr. 14, or Nov. 15 - Apr. 30

Howard: Nov. 15 - Apr. 30

Hudspeth: Nov. 1 - May 14

Hutchinson: Nov. 15 - Apr. 30

Irion: Dec. 15 - Feb. 14

Jeff Davis: Nov. 1 - Apr. 30 or Nov. 15 - May 14

Jones: Dec. 15 - Feb. 14

Kent: Nov. 15 - Jan. 14 or Feb. 1 - Mar. 30

Kerr: Dec. 15 - Feb. 14

Kimble: Dec. 15 - Feb. 14

King: Dec. 15 - Feb. 14

Kinney: Dec. 15 - Feb. 14

Knox: Dec. 15 - Feb. 14

Lamb: Nov. 1 - Apr. 14, or Nov. 15 - Apr. 30

Loving: Nov. 1 - Apr. 30, or Nov. 15 - May 14

Lubbock: Nov. 15 - Apr. 30

Lynn: Nov. 15 - Apr. 30

Martin: Nov. 15 - Apr. 30

Mason: Dec. 15 - Feb. 14

Maverick: Dec. 15 - Feb. 14

McCulloch: Dec. 15 - Feb. 14

Menard: Dec. 15 - Feb. 14

Midland: Nov. 15 - Apr. 30

Mitchell: Nov. 15 - Apr. 30

Moore: Nov. 15 - Apr. 30

Motley: Nov. 15 - Jan. 14, or Feb. 1 - Mar. 30

Nolan: Dec. 15 - Feb. 14

Oldham: Nov. 15 - Apr. 30

Parmer: Nov. 1 - Apr. 14, or Nov. 15 - Apr. 30
Pecos: Nov. 15 - Apr. 30
Potter: Nov. 15 - Apr. 30
Presidio: Nov. 1 - Apr. 30, or Nov. 15 - May 14
Randall: Nov. 15 - Apr. 30
Reagan: Nov. 15 - Apr. 30
Real: Dec. 15 - Feb. 14
Reeves: Nov. 1 - Apr. 30, or Nov. 15 - May 14
Runnels: Dec. 15 - Feb. 14
Schleicher: Dec. 15 - Feb. 14
Scurry: Nov. 15 - Apr. 30
Shackelford: Dec. 15 - Feb. 14
Sherman: Nov. 15 - Apr. 30
Stephens: Dec. 15 - Feb. 14
Sterling: Nov. 15 - Apr. 30
Stonewall: Dec. 15 - Feb. 14
Sutton: Dec. 15 - Feb. 14
Swisher: Nov. 15 - Apr. 30
Taylor: Dec. 15 - Feb. 14
Terrell: Nov. 15 - Apr. 30
Terry: Nov. 15 - Apr. 30
Throckmorton: Dec. 15 - Feb. 14
Tom Green: Dec. 15 - Feb. 14
Upton: Nov. 15 - Apr. 30
Uvalde: Dec. 15 - Feb. 14
Val Verde: Nov. 15 - Jan. 14, or Feb. 1 - Mar. 30
Ward: Nov. 1 - Apr. 14, or Nov. 15 - Apr. 30
Wichita: Dec. 15 - Feb. 14
Wilbarger: Dec. 15 - Feb. 14
Winkler: Nov. 1 - Apr. 30, or Nov. 15 - May 14
Yoakum: Nov. 1 - Apr. 30, or Nov. 15 - May 14
Young: Dec. 15 - Feb. 14
Wheeler: Jan. 1 - Mar. 30, or Dec. 1 - Feb. 28
Zavala: Dec. 15 - Feb. 14

Appendix B: Storm Erosivity (EI) Zones in Texas

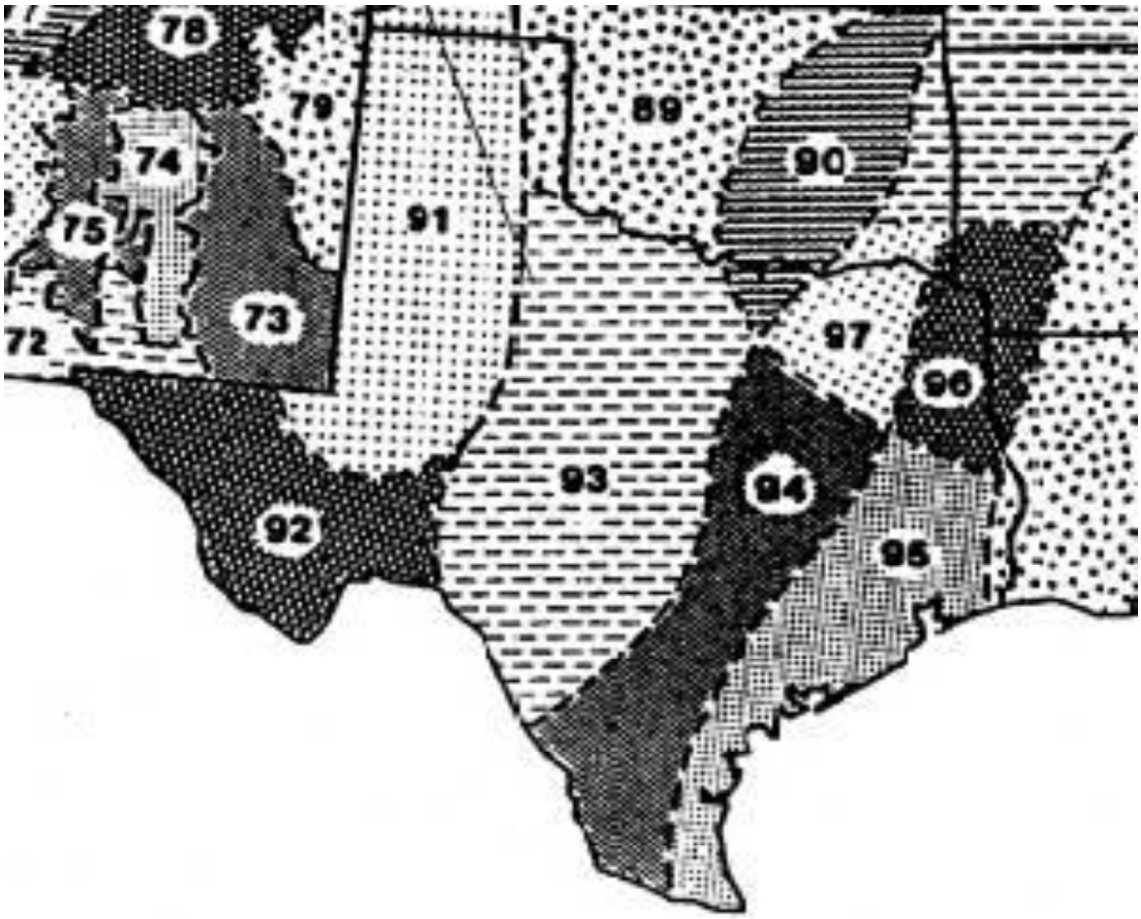


Figure B. EI Distribution Zones

Adapted from Chapter 2 of USDA Agriculture Handbook 703: "Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE)," U.S. Department of Agriculture, Agricultural Research Service

Appendix C: Isoerodent Map

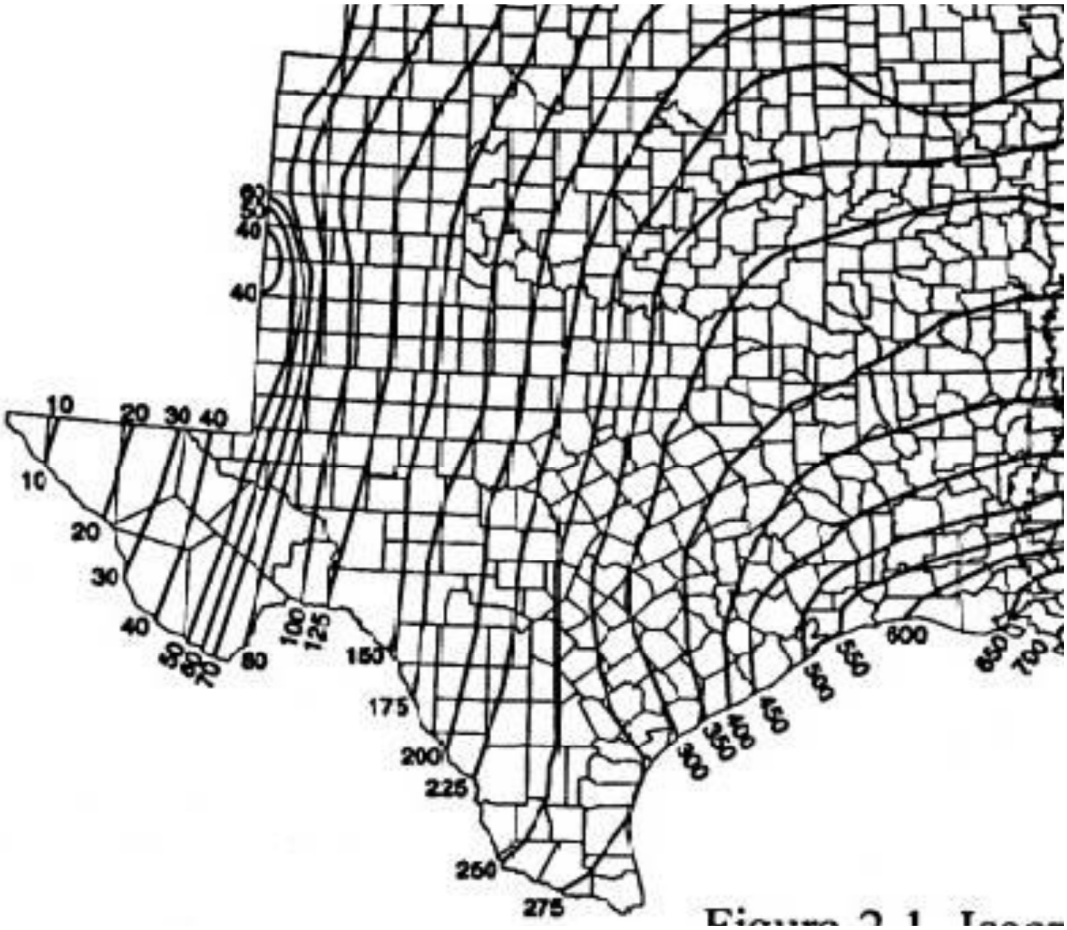


Figure C. Isoerodent Map of Texas. Units are hundreds ft*tonf*in(ac*h*yr)$^{-1}$

Adapted from Chapter 2 of USDA Agriculture Handbook 703: "Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE)," U.S. Department of Agriculture, Agricultural Research Service

Appendix D: Erosivity Indices for EI Zones in Texas

Table D. EI as percentage of average annual computed selected geographic areas (EI number) by date period (month/day).

Date Periods* (Month/Day)

EI #	1/1	1/16	1/31	2/15	3/1	3/16	3/31	4/15	4/30	5/15	5/30	6/14	6/29	7/14	7/29	8/13	8/28	9/12	9/27	10/12	10/27	11/11	11/26	12/11	12/31
89	0	1	1	2	3	4	7	2	8	27	38	48	55	62	69	76	83	90	94	97	98	99	100	100	100
90	0	1	2	3	4	6	8	13	21	29	37	46	54	60	65	69	74	81	87	92	95	97	98	99	100
91	0	0	0	0	1	1	1	2	6	16	29	39	46	53	60	67	74	81	88	95	99	99	100	100	100
92	0	0	0	0	1	1	1	2	6	16	29	39	46	53	60	67	74	81	88	95	99	99	100	100	100
93	0	1	1	2	3	4	6	8	13	25	40	49	56	62	67	72	76	80	85	91	97	98	99	99	100
94	0	1	2	4	6	8	10	15	21	29	38	47	53	57	61	65	70	76	83	88	91	94	96	98	100
95	0	1	3	5	7	9	11	14	18	27	35	41	46	51	57	62	68	73	79	84	89	93	96	98	100
96	0	2	4	6	9	12	17	23	30	37	43	49	54	58	62	66	70	74	78	82	86	90	94	97	100
97	0	1	3	5	7	10	14	20	28	37	48	56	61	64	68	72	77	81	86	89	92	95	98	99	100
106	0	3	6	9	13	17	21	27	33	38	44	49	55	61	67	71	75	78	81	84	86	90	94	97	100

*Each period begins on the date listed in the table above and lasts until the day before the following period. The final period begins on December 11 and ends on December 31.

Table adapted from Chapter 2 of USDA Agriculture Handbook 703: "Predicting Soil Erosion by Water: A Guide to Conservation Planning With the Revised Universal Soil Loss Equation (RUSLE)," U.S. Department of Agriculture, Agricultural Research Service.

APPENDIX F

PERMIT FORMS

NOTICE OF INTENT
CONSTRUCTION SITE NOTICE (LARGE)
TCEQ CZP APPROVAL LETTER

Texas Commission on Environmental Quality

Construction Notice of Intent

Site Information (Regulated Entity)

What is the name of the site to be authorized?	Silver Creek Subdivision
Does the site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	Silver Creek Rd., approximately 4,100 ft. south of the intersection with Fitzhugh Rd.
City	Dripping Springs
State	TX
ZIP	78620
County	HAYS
Latitude (N) (##.######)	30.236851
Longitude (W) (-###.######)	-98.056332
Primary SIC Code	1521
Secondary SIC Code	
Primary NAICS Code	236117
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	Silver Creek Subdivision
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	Silver Creek Rd., approximately 4,100 ft. south of the intersection with Fitzhugh Rd.
City	Dripping Springs
State	TX
ZIP	78620
County	HAYS
Latitude (N) (##.######)	30.236851
Longitude (W) (-###.######)	-98.056332
Facility NAICS Code	236117
What is the primary business of this entity?	Single-family residential construction

Customer (Applicant) Information

How is this applicant associated with this site?	Operator
What is the applicant's Customer Number (CN)?	

Type of Customer	Partnership
Full legal name of the applicant:	
Legal Name	Dripping Springs Owner, LLC
Texas SOS Filing Number	0804561958
Federal Tax ID	
State Franchise Tax ID	32084550501
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Dripping Springs Owner, LLC
Prefix	
First	Brian
Middle	
Last	Sewell
Suffix	
Credentials	
Title	Chief Operating Officer
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3990 HILLSBORO PIKE STE 400
Routing (such as Mail Code, Dept., or Attn:)	
City	NASHVILLE
State	TN
ZIP	37215
Phone (###-###-####)	6157782889
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	brian.sewell@southernland.com

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	

Organization Name	Doucet
Prefix	
First	Sumita
Middle	
Last	Kadariya
Suffix	
Credentials	PE
Title	Project Engineer III
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	7401 W HIGHWAY 71 STE B160
Routing (such as Mail Code, Dept., or Attn:)	
City	AUSTIN
State	TX
ZIP	78735
Phone (###-###-####)	5127746152
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	8005872817
E-mail	skadariya@doucetengineers.com

CNOI General Characteristics

1	Is the project or site located on Indian Country Lands?	No
2	Is the project or site associated to a facility that is licensed for the storage of high-level radioactive waste by the United States Nuclear Regulatory Commission under 10 CFR Part 72?	No
3	Is your construction activity associated with an oil and gas exploration, production, processing, or treatment, or transmission facility?	No
4	What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site?	1521
5	If applicable, what is the Secondary SIC Code(s)?	
6	What is the total number of acres that the construction project or site will disturb under the control of the primary operator?	70
7	What is the construction project or site type?	Single-family residential
8	Is the project part of a larger common plan of development or sale?	No
9	What is the estimated start date of the project?	07/03/2023
10	What is the estimated end date of the project?	12/31/2023
11	Will concrete truck washout be performed at the site?	Yes

12	What is the name of the first water body(s) to receive the stormwater runoff or potential runoff from the site?	Barton Creek
13	What is the segment number(s) of the classified water body(s) that the discharge will eventually reach?	1430
14	Is the discharge into a Municipal Separate Storm Sewer System (MS4)?	Yes
14.1	What is the name of the MS4 Operator?	City of Dripping Springs
15	Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?	Yes
15.1	I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented.	Yes
16	I certify that a stormwater pollution prevention plan (SWP3) has been developed, will be implemented prior to construction, and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the general permit TXR150000. Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3 provided all obligations are confirmed by at least one operator.	Yes
17	I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000).	Yes
18	I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.	Yes

LARGE CONSTRUCTION SITE NOTICE

FOR THE
Texas Commission on Environmental Quality (TCEQ)
Stormwater Program

TPDES GENERAL PERMIT TXR150000

"PRIMARY OPERATOR" NOTICE

This notice applies to construction sites operating under Part II.E.3. of the TPDES General Permit Number TXR150000 for discharges of stormwater runoff from construction sites equal to or greater than five acres, including the larger common plan of development. The information on this notice is required in Part III.D.2. of the general permit. Additional information regarding the TCEQ stormwater permit program may be found on the internet at:

http://www.tceq.state.tx.us/nav/permits/wq_construction.html

Site-Specific TPDES Authorization Number:	
Operator Name:	Dripping Springs Owner, LLC
Contact Name and Phone Number:	Brian Sewell - 615-778-2889
Project Description: *Physical address or description of the site's location, and estimated start date and projected end date, or date that disturbed soils will be stabilized.*	Silver Creek Rd., Dripping Springs, Texas 78620 Start: May 2023, Project End: December 2023
Location of Stormwater Pollution Prevention Plan:	Job site trailer

APPENDIX G

POST-CONSTRUCTION FORMS

NOTICE OF TERMINATION

TCEQ Office Use Only
Permit No:
CN:
RN:
Region:

Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

IMPORTANT INFORMATION:

Please read and use the General Information and Instructions prior to filling out each question in the form.

Effective September 1, 2018, this paper form must be submitted to TCEQ with a completed electronic reporting waiver form (TCEQ-20754).

ePermits: This form is available on our online permitting system.
Sign up for online permitting at: https://www3.tceq.texas.gov/steers/

What is the permit number to be terminated?

TXR15 enter permit number here **TXRCW** enter permit number here

Section 1. OPERATOR (Permittee)

a) What is the Customer Number (CN) issued to this entity?

CN enter customer number here

b) What is the Legal Name of the current permittee?

enter legal name of current permittee here

c) Provide the contact information for the Operator (Responsible Authority).

Prefix (Mr. Ms. or Miss): enter prefix here

First and Last Name: enter first and last name here Suffix: enter suffix here

Title: enter title here Credentials: enter credentials

Phone Number: enter phone number here Fax Number: enter fax number here

Email: enter email address here

Mailing Address: enter mailing street number and name here

City, State, and Zip Code: enter city, state, and zip code here

Country Mailing Information, if outside USA: enter country mailing info here

Section 2. APPLICATION CONTACT

This is the person TCEQ will contact if additional information is needed regarding this application.

Is the application contact the same as the permittee identified above?

☐ Yes, go to Section 3.

☐ No, complete section below

Prefix (Mr. Ms. or Miss): enter prefix here

First and Last Name: enter first and last name here Suffix: enter suffix here

Title: enter title here Credentials: enter credentials here

Phone Number: enter phone number here Fax Number: enter fax number here

Email: enter email address here

Mailing Address: enter mailing street number and name here

City, State, and Zip Code: enter city, state, and zip code here

Country Mailing Information, if outside USA: enter country mailing info here

Section 3. REGULATED ENTITY (RE) INFORMATION ON PROJECT OR SITE

a) TCEQ issued RE Reference Number (RN): RN enter regulated entity number here

b) Name of project or site as known by the local community: enter site name here

c) County, or counties if more than 1: enter counties where site is located here

d) Latitude: enter latitude here Longitude: enter longitude here

e) Site Address/Location:

If the site has a physical address such as 12100 Park 35 Circle, Austin, TX 78753, complete Section 3A.

If the site does not have a physical address, provide a location description in Section 3B. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1.

Section 3A: Physical Address of Project or Site:

Street Number and Name: enter street number and name here

City, State, and Zip Code: enter city, state, and zip code here

Section 3B: Site Location Description:

Location description: enter location description here. Example: located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1

City where the site is located or, if not in a city, what is the nearest city: enter city here

Zip Code where the site is located: enter zip code here

Section 4. REASON FOR TERMINATION

Check the reason for termination:

☐ Final stabilization has been achieved on all portions of the site that are the responsibility of the Operator and all silt fences and other temporary erosion controls have been removed, or scheduled for removal as defined in the SWP3.

☐ Another permitted Operator has assumed control over all areas of the site that have not been finally stabilized, and temporary erosion controls that have been identified in the SWP3 have been transferred to the new Operator.

☐ The discharge is now authorized under an alternate TPDES permit.

☐ The activity never began at this site that is regulated under the general permit.

Section 5. CERTIFICATION

Signatory Name: enter signatory name here

Signatory Title: enter signatory title here

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document, and can provide documentation in proof of such authorization upon request.

Signature (use blue ink): _____ Date: _____

Instructions for Notice of Termination (NOT) for Authorizations under TPDES General Permit TXR150000

GENERAL INFORMATION

Where to Send the Notice of Termination (NOT):

BY REGULAR U.S. MAIL:
Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)
P.O. Box 13087
Austin, Texas 78711-3087

BY OVERNIGHT/EXPRESS MAIL:
Texas Commission on Environmental Quality
Stormwater Processing Center (MC-228)
12100 Park 35 Circle
Austin, TX 78753

TCEQ Contact List:

Application status and form questions:	512-239-3700, swpermit@tceq.texas.gov
Technical questions:	512-239-4671, swgp@tceq.texas.gov
Environmental Law Division:	512-239-0600
Records Management - obtain copies of forms:	512-239-0900
Reports from databases (as available):	512-239-DATA (3282)
Cashier's office:	512-239-0357 or 512-239-0187

Notice of Termination Process:

A Notice of Termination is **effective on the date postmarked for delivery to TCEQ.**

When your NOT is received by the program, the form will be processed as follows:

1) Administrative Review: The form will be reviewed to confirm the following:
   - the permit number is provided;
   - the permit is active and has been approved;
   - the entity terminating the permit is the current permittee;
   - the site information matches the original permit record; and
   - the form has the required original signature with title and date.

2) Notice of Deficiency: If an item is incomplete or not verifiable as indicated above, a phone call will be made to the applicant to clear the deficiency. A letter will not be sent to the permittee if unable to process the form.

3) Confirmation of Termination: A Notice of Termination Confirmation letter will be mailed to the operator.

Change in Operator:

An authorization under the general permit is not transferable. If the operator of the regulated entity changes, the present permittee must submit a Notice of Termination and the new operator must submit a Notice of Intent. The NOT and NOI must be submitted not later than 10 days prior to the change in Operator status.

INSTRUCTIONS FOR FILLING OUT THE FORM

The majority of permit information related to the current operator and regulated entity are available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

Section 1. Operator (Current Permittee):

a) Customer Number (CN)
TCEQ's Central Registry assigns each customer a number that begins with CN, followed by nine digits. This is not a permit number, registration number, or license number. The Customer Number, for the current permittee, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

b) Legal Name of Operator
The operator must be the same entity as previously submitted on the original Notice of Intent for the permit number provided. The current operator name, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

c) Contact Information for the Operator (Responsible Authority)
Provide information for person signing the NOT application in the Certification section. This person is also referred to as the Responsible Authority.

Provide a complete mailing address for receiving mail from the TCEQ. Update the address if different than previously submitted for the Notice of Intent or Notice of Change. The mailing address must be recognized by the US Postal Service. You may verify the address on the following website: https://tools.usps.com/go/ZipLookupAction!input.action.

The phone number should provide contact to the operator.

The fax number and e-mail address are optional and should correspond to the operator.

Section 2. Application Contact:

Provide the name, title and contact information of the person that TCEQ can contact for additional information regarding this application.

Section 3. Regulated Entity (RE) Information on Project or Site:

a) Regulated Entity Reference Number (RN)
A number issued by TCEQ's Central Registry to sites where an activity regulated by TCEQ. This is not a permit number, registration number, or license number. The Regulated Entity Reference Number is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

b) Name of the Project or Site
Provide the name of the site as known by the public in the area where the site is located.

c) County
Identify the county or counties in which the regulated entity is located.

d) Latitude and Longitude
Enter the latitude and longitude of the site in degrees, minutes, and seconds or decimal form. The latitude and longitude as provided on the current authorization is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

e) Site/Project (RE) Physical Address/Location Information
The physical address/location information, as provided on the current authorization, is available at the following website: http://www2.tceq.texas.gov/wq_dpa/index.cfm.

Section 3A. If a site has an address that includes a street number and street name, enter the complete address for the site. If the physical address is not recognized as a USPS delivery address, you may need to validate the address with your local police (911 service) or through an online map site used to locate the site. Please confirm this to be a complete and valid address. Do not use a rural route or post office box for a site location.

Section 3B. If a site does not have an address that includes a street number and street name, provide a complete written location description. For example: "The site is located on the north side of FM 123, 2 miles west of the intersection of FM 123 and Highway 1."

Provide the city (or nearest city) and Zip Code of the facility location.

Section 4. Reason for Termination:

The Notice of Termination form is only for use to terminate the authorization (permit). The Permittee must indicate the specific reason for terminating by checking one of the options. If the reason is not listed then provide an attachment that explains the reason for termination.

Please read your general permit carefully to determine when to terminate your permit. Permits will not be reactivated after submitting a termination form. The termination is effective on the date postmarked for delivery to TCEQ.

Section 5. Certification:

The certification must bear an original signature of a person meeting the signatory requirements specified under 30 Texas Administrative Code §305.44.

IF YOU ARE A CORPORATION:
The regulation that controls who may sign an application form is 30 Texas Administrative Code §305.44(a), which is provided below. According to this code provision, any corporate representative may sign an NOI or similar form so long as the authority to sign such a document has been delegated to that person in accordance with corporate procedures. By signing the NOI or similar form, you are certifying that such authority has been delegated to you. The TCEQ may request documentation evidencing such authority.

IF YOU ARE A MUNICIPALITY OR OTHER GOVERNMENT ENTITY:
The regulation that controls who may sign an NOI or similar form is 30 Texas Administrative Code §305.44(a), which is provided below. According to this code provision, only a ranking elected official or principal executive officer may sign an NOI or similar form. Persons such as the City Mayor or County Commissioner will be considered ranking elected officials. In order to identify the principal executive officer of your government entity, it may be beneficial to consult your city charter, county or city ordinances, or the Texas statutes under which your government entity was formed. An NOI or similar document that is signed by a government official who is not a ranking elected official or principal executive officer does not conform to §305.44(a)(3). The signatory requirement may not be delegated to a government representative other than those identified in the regulation. By signing the NOI or similar form, you are certifying that you are either a ranking elected official or principal executive officer as required by the administrative code. Documentation demonstrating your position as a ranking elected official or principal executive officer may be requested by the TCEQ.

If you have any questions or need additional information concerning the signatory requirements discussed above, please contact the Texas Commission on Environmental Quality's Environmental Law Division at 512-239-0600.

30 Texas Administrative Code §305.44. Signatories to Applications

(a) All applications shall be signed as follows.

(1) For a corporation, the application shall be signed by a responsible corporate officer. For purposes of this paragraph, a responsible corporate officer means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding $25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures. Corporate procedures governing authority to sign permit or post-closure order applications may provide for assignment or delegation to applicable corporate positions rather than to specific individuals.

(2) For a partnership or sole proprietorship, the application shall be signed by a general partner or the proprietor, respectively.

(3) For a municipality, state, federal, or other public agency, the application shall be signed by either a principal executive officer or a ranking elected official. For purposes of this paragraph, a principal executive officer of a federal agency includes the chief executive officer of the agency, or a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., regional administrator of the EPA).

APPENDIX H

TEMPORARY STORMWATER SECTION

SEQUENCE OF MAJOR ACTIVITIES
TEMPORARY SEDIMENT POND(S) AND CALCULATIONS
INSPECTION AND MAINTENANCE FOR BMPs

TEMPORARY STORMWATER SECTION

Sequence of Major Activities:

1. Install and maintain Erosion Control and Tree Protection per the Approved Plans and specifications prior to any clearing and grubbing, grading, excavating, etc... Notify Construction Inspection Division when installed.

2. Prior to beginning construction, the owner or his representative shall hold a Pre-Construction Conference between TCEQ, Hays County, City of Dripping Springs, Contractor, and any other affected parties. Notify TCEQ at least 48 hours prior to the time of the conference and 48 hours prior to beginning construction. Prior to Pre-Construction Conference.

3. Hold Pre-Construction Conference with contractor, TCEQ, EV Inspector, Engineer, and owner or his representative.

4. Rough grade roadway. (Estimate of disturbed area=5.80 ac)

5. Begin installation of water line. (Estimate of disturbed area <1.00 ac)

6. Begin installation of storm sewer. Upon completion, restore as much disturbed areas as possible, particularly channels and large open areas. (Estimate of disturbed area<1.00 ac)

7. Regrade streets to subgrade (Estimate of disturbed area=2.92 ac)

8. Ensure that all underground utility crossings are completed. Lay first course base material on all streets. (2.92 ac)

9. Install ribbon curb. (Estimate of disturbed area <1.00 ac)

10. Install sidewalk. (Estimate of disturbed area <1.00 ac)

11. Lay final base course on all streets. (2.92 ac)

12. Lay asphalt. (1.92 ac)

13. Clean site and revegetate all disturbed area according to the plans and specifications. Stabilization measures should include seeding and/or mulching.

14. Complete permanent erosion control and restoration of site vegetation.

15. Project Engineer to provide a written concurrence letter, and scheduling final inspection with EV Inspector, prior to the removal of erosion controls.

16. Remove and dispose of temporary erosion/sedimentation control measures.

17. Complete any necessary final dress up of areas disturbed by Item 14.

18. Conduct a final inspection and complete all punch list items.

Clearing and grubbing under a development permit, solely for the purpose of surveying and soil exploration, shall be a hand-cutting or blade-up operation.

TEMPORARY STORMWATER SECTION

Temporary Sediment Pond(s) and Calculations:

No temporary sediment pond(s) are proposed for the Silver Creek Subdivision project.

TEMPORARY STORMWATER SECTION

Inspection and Maintenance for BMP's

The Temporary BMP's will be inspected on a weekly basis for their compliance with TCEQ criteria. Inspection of silt fence will occur weekly, and after any rainfall. Sediment shall be removed from silt fence when buildup reaches 6-inches and torn fabric must be replaced or a second line of fencing parallel to the torn section shall be provided. The contractor will be responsible for maintenance of these items. If cited by TCEQ, Hays County, or the City of Dripping Springs, the contractor will have 24 hours to bring the delinquent items up to standard. The contractor will keep a record of these items on site in the construction trailer. A Stormwater Pollution Prevention Plan will be filed prior to commencement of construction. The written SWPPP will include additional requirements regarding BMP monitoring, inspection, and maintenance.

SECTION 4

COPY OF NOTICE OF INTENT

(NOI)

Texas Commission on Environmental Quality

Construction Notice of Intent

Site Information (Regulated Entity)

What is the name of the site to be authorized?	Silver Creek Subdivision
Does the site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	Silver Creek Rd., approximately 4,100 ft. south of the intersection with Fitzhugh Rd.
City	Dripping Springs
State	TX
ZIP	78620
County	HAYS
Latitude (N) (##.######)	30.236851
Longitude (W) (-###.######)	-98.056332
Primary SIC Code	1521
Secondary SIC Code	
Primary NAICS Code	236117
Secondary NAICS Code	
Regulated Entity Site Information	
What is the Regulated Entity's Number (RN)?	
What is the name of the Regulated Entity (RE)?	Silver Creek Subdivision
Does the RE site have a physical address?	No
Physical Address	
Because there is no physical address, describe how to locate this site:	Silver Creek Rd., approximately 4,100 ft. south of the intersection with Fitzhugh Rd.
City	Dripping Springs
State	TX
ZIP	78620
County	HAYS
Latitude (N) (##.######)	30.236851
Longitude (W) (-###.######)	-98.056332
Facility NAICS Code	236117
What is the primary business of this entity?	Single-family residential construction

Customer (Applicant) Information

How is this applicant associated with this site?	Operator
What is the applicant's Customer Number (CN)?	

Type of Customer	Partnership
Full legal name of the applicant:	
Legal Name	Dripping Springs Owner, LLC
Texas SOS Filing Number	0804561958
Federal Tax ID	
State Franchise Tax ID	32084550501
State Sales Tax ID	
Local Tax ID	
DUNS Number	
Number of Employees	
Independently Owned and Operated?	
I certify that the full legal name of the entity applying for this permit has been provided and is legally authorized to do business in Texas.	Yes
Responsible Authority Contact	
Organization Name	Dripping Springs Owner, LLC
Prefix	
First	Brian
Middle	
Last	Sewell
Suffix	
Credentials	
Title	Chief Operating Officer
Responsible Authority Mailing Address	
Enter new address or copy one from list:	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	3990 HILLSBORO PIKE STE 400
Routing (such as Mail Code, Dept., or Attn:)	
City	NASHVILLE
State	TN
ZIP	37215
Phone (###-###-####)	6157782889
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	
E-mail	brian.sewell@southernland.com

Application Contact

Person TCEQ should contact for questions about this application:	
Same as another contact?	

Organization Name	Doucet
Prefix	
First	Sumita
Middle	
Last	Kadariya
Suffix	
Credentials	PE
Title	Project Engineer III
Enter new address or copy one from list:	
Mailing Address	
Address Type	Domestic
Mailing Address (include Suite or Bldg. here, if applicable)	7401 W HIGHWAY 71 STE B160
Routing (such as Mail Code, Dept., or Attn:)	
City	AUSTIN
State	TX
ZIP	78735
Phone (###-###-####)	5127746152
Extension	
Alternate Phone (###-###-####)	
Fax (###-###-####)	8005872817
E-mail	skadariya@doucetengineers.com

CNOI General Characteristics

1	Is the project or site located on Indian Country Lands?	No
2	Is the project or site associated to a facility that is licensed for the storage of high-level radioactive waste by the United States Nuclear Regulatory Commission under 10 CFR Part 72?	No
3	Is your construction activity associated with an oil and gas exploration, production, processing, or treatment, or transmission facility?	No
4	What is the Primary Standard Industrial Classification (SIC) Code that best describes the construction activity being conducted at the site?	1521
5	If applicable, what is the Secondary SIC Code(s)?	
6	What is the total number of acres that the construction project or site will disturb under the control of the primary operator?	70
7	What is the construction project or site type?	Single-family residential
8	Is the project part of a larger common plan of development or sale?	No
9	What is the estimated start date of the project?	07/03/2023
10	What is the estimated end date of the project?	12/31/2023
11	Will concrete truck washout be performed at the site?	Yes

12	What is the name of the first water body(s) to receive the stormwater runoff or potential runoff from the site?	Barton Creek
13	What is the segment number(s) of the classified water body(s) that the discharge will eventually reach?	1430
14	Is the discharge into a Municipal Separate Storm Sewer System (MS4)?	Yes
14.1	What is the name of the MS4 Operator?	City of Dripping Springs
15	Is the discharge or potential discharge within the Recharge Zone, Contributing Zone, or Contributing Zone within the Transition Zone of the Edwards Aquifer, as defined in 30 TAC Chapter 213?	Yes
15.1	I certify that the copy of the TCEQ-approved Plan required by the Edwards Aquifer Rule (30 TAC Chapter 213) that is included or referenced in the Stormwater Pollution Prevention Plan will be implemented.	Yes
16	I certify that a stormwater pollution prevention plan (SWP3) has been developed, will be implemented prior to construction, and to the best of my knowledge and belief is compliant with any applicable local sediment and erosion control plans, as required in the general permit TXR150000. Note: For multiple operators who prepare a shared SWP3, the confirmation of an operator may be limited to its obligations under the SWP3 provided all obligations are confirmed by at least one operator.	Yes
17	I certify that I have obtained a copy and understand the terms and conditions of the Construction General Permit (TXR150000).	Yes
18	I understand that a Notice of Termination (NOT) must be submitted when this authorization is no longer needed.	Yes

SECTION 5

AGENT AUTHORIZATION FORM

(TCEQ-0599)

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

I Brian Sewell,
Print Name

Chief Operating Officer,
Title - Owner/President/Other

of Dripping Springs Owner, LLC,
Corporation/Partnership/Entity Name

have authorized Sumita Kadariya, P.E.
Print Name of Agent/Engineer

of Doucet & Associates, Inc. (Doucet)
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.

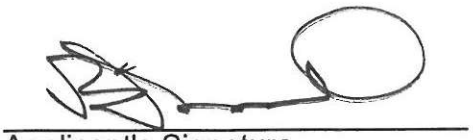
2. For those submitting an application who are not the property owner, but who have the right to control and possess the property, additional authorization is required from the owner.

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:

X 
Applicant's Signature

4/06/23
Date

THE STATE OF Tennessee §

County of Davidson §

BEFORE ME, the undersigned authority, on this day personally appeared Brian Sweet 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 6 day of April, 2023.

Kelly L Schooley
NOTARY PUBLIC

Kelly L. Schooley
Typed or Printed Name of Notary

KELLY L SCHOOLEY STATE OF TENNESSEE NOTARY PUBLIC SUMNER COUNTY

MY COMMISSION EXPIRES: _____

My Commission Expires May 20,2024

SECTION 6

APPLICATION FEE FORM

(TCEQ-0574)

Application Fee Form

Texas Commission on Environmental Quality
Name of Proposed Regulated Entity: Silver Creek Subdivision
Regulated Entity Location: Silver Creek Rd., Dripping Springs, TX 78620
Name of Customer: Dripping Springs Owner, LLC
Contact Person: Sumita Kadariya, P.E. Phone: 512-774-6152
Customer Reference Number (if issued):CN _____
Regulated Entity Reference Number (if issued):RN _____
Austin Regional Office (3373)

☒ Hays ☐ Travis ☐ Williamson

San Antonio Regional Office (3362)

☐ Bexar ☐ Medina ☐ Uvalde
☐ Comal ☐ Kinney

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

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

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

Site Location (Check All That Apply):

☐ Recharge Zone ☒ Contributing Zone ☐ Transition Zone

Type of Plan	***Size***	***Fee Due***
Water Pollution Abatement Plan, Contributing Zone Plan: One Single Family Residential Dwelling	Acres	$
Water Pollution Abatement Plan, Contributing Zone Plan: Multiple Single Family Residential and Parks	70 Acres	$ 6,500
Water Pollution Abatement Plan, Contributing Zone Plan: Non-residential	Acres	$
Sewage Collection System	L.F.	$
Lift Stations without sewer lines	Acres	$
Underground or Aboveground Storage Tank Facility	Tanks	$
Piping System(s)(only)	Each	$
Exception	Each	$
Extension of Time	Each	$

Signature: _____ Date: 4/03/2023

TCEQ-0574 (Rev. 02-24-15)

Application Fee Schedule

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

Water Pollution Abatement Plans and Modifications

Contributing Zone Plans and Modifications

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

Organized Sewage Collection Systems and Modifications

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

Underground and Aboveground Storage Tank System Facility Plans and Modifications

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

Exception Requests

Project	*Fee*
Exception Request	$500

Extension of Time Requests

Project	*Fee*
Extension of Time Request	$150

SECTION 7

CHECK PAYABLE TO
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ)

(copy not enclosed for privacy reasons)

SECTION 8

CORE DATA FORM

(TCEQ-10400)

TCEQ Use Only

TCEQ Core Data Form

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

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

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

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

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

SECTION II: Customer Information

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

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

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

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

Dripping Springs Owner, LLC

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*
0804561958	32084550501	87-4107289	

11. Type of Customer: ☐ Corporation ☐ Individual Partnership: ☐ General ☒ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other ☐ Sole Proprietorship ☐ Other:

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

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

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

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

15. Mailing Address:

3990 Hillsboro Pike, Suite 400

City	Nashville	**State**	TN	**ZIP**	37215	**ZIP + 4**	

16. Country Mailing Information *(if outside USA)*

17. E-Mail Address *(if applicable)*
brian.sewell@southernland.com

18. Telephone Number	**19. Extension or Code**	**20. Fax Number** *(if applicable)*

(830) 837-1982		( ) -

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.)*

Silver Creek Subdivision

23. Street Address of the Regulated Entity: ***(No PO Boxes)***								
	City		**State**		**ZIP**		**ZIP + 4**	
24. County								

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

25. Description to Physical Location:	Silver Creek Rd. approximately 4,100 south of the intersection with Fitzhugh Rd.				
26. Nearest City			**State**	**Nearest ZIP Code**	
Dripping Springs			TX	78620	

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:	30.236851°		**28. Longitude (W) In Decimal:**	-98.056332°	
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds
30	14	12.6636	-98	3	22.7946

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1521		236117	

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

single-family residential construction

34. Mailing Address:	**3990 Hillsboro Pike, Suite 400**							
	City	**Nashville**	**State**	**TN**	**ZIP**	**37216**	**ZIP + 4**	
35. E-Mail Address:	**brian.sewell@southernland.com**							

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 837-1982		( ) -

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

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

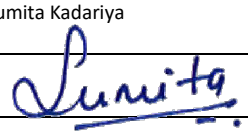
SECTION IV: Preparer Information

40. Name:	Sumita Kadariya, P.E.	**41. Title:**	Project Engineer III

42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512 **)** 774-6152		**(** 800 **)** 587-2817	skadariya@doucetengineers.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:	Doucet	**Job Title:**	Project Engineer III
Name *(In Print):*	Sumita Kadariya	**Phone:**	**(** 512 **)** 774- **6152**
Signature:		**Date:**	4/28/2023