

Stormwater Pollution Prevention Plan (SWP3)

Authorization No. OKR10#####

For Construction Activities At:

Pryor Creek Mennonite Church

1919 W. 470

Pryor, OK 74361

SWP3 Prepared For:

Lowry Construction Services

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SWP3 Prepared By:

Route 66 Engineering

Billy Cox

28 N. Water Street

Sapulpa, OK 74066

918-248-1129

SWP3 Preparation Date:

10/09/2023

Estimated Project Dates:

Project Start Date: 11/15/2023

Project Completion Date: 5/01/2024

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Section 1: Stormwater Team and Project/Site Information

1.1 Stormwater Team

Stormwater team members/operators are responsible for overseeing development of the SWP3, making any modifications to it, implementing and maintaining control measures, taking corrective actions when required, performing site inspection and monitoring, supervising pollution prevention and waste management activities, providing staff training, and communicating changes in the SWP3 to the people working on the site. The following personnel, along with their role and responsibility, will be part of the **stormwater team** for my construction site:

| Team Lead #1 Primary Operator | Roles & Responsibilities |
|--|-------------------------------------|
| Name: Hutton Lowry | Manage the Project |
| Title: Project Manager | |
| Phone #: 918-592-2442 | |

| Team Lead #2 Secondary Operator | Roles & Responsibilities |
|--|-------------------------------------|
| Name: To be Determined | Manage the Project |
| Title: | |
| Phone #: | |

| Team Lead #3 (specify in Title) | Roles & Responsibilities |
|--|-------------------------------------|
| Name: | |
| Title: | |
| Phone #: | |

| Team Member #4 (specify in Title) | Roles & Responsibilities |
|--|-------------------------------------|
| Name: | |
| Title: | |
| Phone #: | |

| Team Member #5 (Specify in Title) | Roles & Responsibilities |
|--|-------------------------------------|
| Name: | |
| Title: | |
| Phone #: | |

1.2 Nature of Construction Activity and Project Information

| Project/Site Name and Address | |
|---|-----------------|
| Project/Site Name: Pryor Creek Mennonite Church | |
| Project/Site Street/Location: 1919 W. 470 | |
| City: Pryor | County: Mayes |
| State: OK | ZIP Code: 74361 |

General Description of the Project/Site: Church building expansion, utilities, and gravel parking area.

| | | |
|--|-------|---------|
| Estimated project start date: 11/15/2023 | | |
| Estimated project end date: 5/01/2024 | | |
| Total area of the construction site: | 10.95 | (acres) |
| Estimated area to be disturbed: | 2.3 | (acres) |
| Estimated current impervious area at the site: | 1.15 | (acres) |
| Estimated impervious area after construction: | 1.78 | (acres) |
| Pre-construction runoff coefficient of the site: 0.452 | | |
| Post-construction runoff coefficient of the site: 0.481 | | |
| Purpose of the Construction Project/Site: <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Wind Farm <input type="checkbox"/> Road/Bridge <input checked="" type="checkbox"/> Other(s), please specify: Church | | |

| Project Latitude/Longitude (Physical entrance OR for linear project, include latitude/longitude of start and end points) | |
|--|--|
| Latitude: | Longitude: |
| 1. 36 ° 20' 09" N (degrees, minutes, seconds) | 1. 95 ° 17 ' 27" W (degrees, minutes, seconds) |
| 2. 36.335833 ° N (decimal) | 2. 95.290833° W (decimal) |

| Latitude: | | Longitude: | |
|---|--------------------------------------|---|------------------------------|
| 1. ___° ___' ___" N (degrees, minutes, seconds) | | 1. ___° ___' ___" W (degrees, minutes, seconds) | |
| 2. ___° N (decimal) | | 2. ___° W (decimal) | |
| Method for determining latitude/longitude: | | | |
| <input checked="" type="checkbox"/> DEQ Flex-viewer | <input type="checkbox"/> EPA Website | <input type="checkbox"/> USGS topographic map | <input type="checkbox"/> GPS |

| <p>Description of soil type(s) and fill materials: Parsons silt loam, 0 to 1 percent slopes</p> |
|--|
| <p>Description of slopes (describe existing slopes and note any changes due to grading or fill activities): The west building expansion area slopes south and the east building expansion slopes east. The proposed drainage closely match with the exception of steeping slopes to tie in after raising area for building pad.</p> |
| <p>Description of drainage patterns (describe existing drainage patterns and note any changes dues to grading or fill activities): The west building expansion area drains south and the east building expansion drains east. The proposed drainage closely match with the exception of steeping slopes to tie in after raising area for building pad</p> |
| <p>Description of existing or baseline vegetation on or immediately surrounding the project area: Existing vegetation is grass.</p> |
| Climate/Rainfall Patterns - check the box that applies: |
| <input type="checkbox"/> (0-20" annual rainfall) <input type="checkbox"/> (20" -30" annual rainfall) <input type="checkbox"/> (30"-40" annual rainfall) <input checked="" type="checkbox"/> (40" -50" annual rainfall) |
| <p><i>(Note: Annual rainfall data can be found at the following link: https://www.mesonet.org/index.php/weather/category/rainfall)</i></p> |

1.3 Operators and Contactor's Contact Information

| Operator(s) Information: | | |
|---|-----------|-----------------|
| Name: Lowry Construction Services | | |
| Address: 1919 W. 470 | | |
| City: Pryor | State: OK | Zip Code: 74361 |
| Operator's Point of Contact: Hutton Lowry | | |
| Telephone Number: 918-592-2442 | | |
| Email address: hutton@lowrycs.com | | Fax number: |

(Repeat for multiple operators by copying and pasting the above rows)

| Contractor's Information: | | |
|-----------------------------------|-----------|-----------------|
| Name: Lowry Construction Services | | |
| Address: 1919 W. 470 | | |
| City: Pryor | State: OK | Zip Code: 74361 |
| Telephone Number: 918-592-2442 | | |
| Email address: hutton@lowrycs.com | | Fax number: |

(If owner is a separate entity)

| Sub-Contractor's Information: | | |
|--------------------------------------|--------|-------------|
| Name: | | |
| Address: | | |
| City: | State: | Zip Code: |
| Telephone Number: | | |
| Email address: | | Fax number: |

(If owner is a separate entity)

| | |
|--|-------------|
| SWP3 Contact(s): | |
| SWP3 Contact Name (Primary): Hutton Lowry | |
| Telephone number: 918-592-2442 | |
| Email address: hutton@lowrycs.com | Fax number: |
| SWP3 Contact Name (Secondary): To be determined | |
| Telephone number: | |
| Email address: | Fax number: |

1.4 Construction Support Activities (if applicable)

List of construction support activities that will be present at the construction project/site:

(Note-1: Locate all the construction support activities on the site map (included in Section 2.2 in SWP3 template). Appropriate/additional controls & measures are required for construction support activities. Support activities should not be located within the watershed of an Outstanding Resource Water (ORW). See Addendum B of permit for ORW areas.

Note-2: Include Section 8 if you have Concrete Batch Plant and/or Asphalt Plant as construction support activities at your construction site. Exclude/delete Section 8 if you don't have Concrete Batch Plant and/or Asphalt Plant at your construction site.)

| Type of Construction Support Activities ¹ | Will be Present at the Construction Site? |
|--|---|
| Equipment Staging Yards | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Material Storage Areas | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Excavated Material Disposal Areas | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Borrow Areas | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Concrete Batch Plant ² | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Asphalt Plant ² | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

1.5 Sequence of Construction Activities

(Note: You may edit sequence of construction activities in the following table to reflect your project's sequences along with estimated start date and duration. Make sure to update for all locations/operators involved.)

| No. | Sequence of Construction Activities | Estimated Start Date | Duration (in Days) |
|-----|---|----------------------|--------------------|
| 1. | Construction access/entrance to site, construction routes, areas designated for equipment parking/staging area | 11/15/2023 | 5 |
| 2. | Silt fences, berm or similar control measures as perimeter control | 11/21/2023 | 5 |
| 3. | Land clearing and grading, site preparation (cutting, filling, and grading, sediment traps, barriers, diversions, drains, surface roughening) | 11/26/2023 | 15 |
| 4. | Runoff control diversions, perimeter dikes, water bars, outlet protection | 12/10/2023 | 5 |
| 5. | Inlet/outlet protection, sediment traps and/or sediment basin | 12/15/2023 | 5 |
| 6. | Runoff conveyance system, stabilize stream banks, storm drains, channels, inlet and outlet protection, slope drains | 12/20/2023 | 5 |
| 7. | Surface stabilization - temporary and permanent hydraulic mulching, hydroseeding, straw mulch, sodding, riprap | 12/25/2023 | 10 |
| 8. | Pond stormwater construction | 01/05/2024 | 95 |
| 9. | Landscaping and final stabilization, top-soiling, trees and shrubs, permanent seeding, mulching, sodding, riprap | 04/10/2024 | 10 |
| 10. | Removal of all structural controls where applicable | 04/20/2024 | 10 |
| 11. | Complete | 05/01/2024 | |
| | | | |
| | | | |
| | | | |
| | | | |

1.6 Allowable Non-Stormwater Discharges

List of allowable non-stormwater discharges that will be present at the construction site:

(Note: You are required to identify the likely locations of these allowable non-stormwater discharges on your site maps.)

| No. | Type of Allowable Non-Stormwater Discharge | Likely to be Present at Construction Site? |
|-----|---|---|
| 1. | Fire hydrant flushing | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. | Waters used to wash vehicles and equipment | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 3. | Water used to control dust | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4. | Potable water including uncontaminated water line flushing | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5. | Routine external building wash down | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6. | Pavement washing waters | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 7. | Uncontaminated air conditioning or compressor condensate | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 8. | Uncontaminated, non-turbid discharges of ground water or spring water | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 9. | Foundation or footing drains | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 10. | Landscape Irrigation | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 11. | Discharges from emergency fire-fighting activities | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 12. | Uncontaminated construction dewatering water | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

Section 2: Site Description and Site Map

2.1 Receiving Waters/Discharge Information

Receiving Water body's Information: Stormwater discharges from this construction project will flow to the following receiving water body(ies).

| No. | Name of the Receiving Waters | Is this surface water listed as impaired? | Cause of Impairment ¹ | Has a TMDL ² been completed? | TMDL Pollutant(s) |
|-----|------------------------------|---|----------------------------------|---|-------------------|
| 1. | Salt Branch Creek | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 2. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 3. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 4. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |
| 5. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | | <input type="checkbox"/> Yes <input type="checkbox"/> No | |

(Note: Name of the receiving waters can be found at the DEQ website using the following link: <https://gis.deq.ok.gov/maps>. Cause of impairment and TMDL information can be found at the DEQ website using the following link: <https://www.deq.ok.gov/water-quality-division/watershed-planning/integrated-report/>)

- ¹ If you discharge to an impaired water that is impaired for **Sediment and/or Turbidity and located within 1 mile** (as described in Part 3.4 of OKR10 permit), you are required to comply with the additional requirements in Part 4.6.B of OKR10 permit.
- ² Total Maximum Daily Load (TMDL)

Does the project/site discharge stormwater to an **Aquatic Resource of Concern (ARC)** or an **Outstanding Resource Water (ORW)**?

Yes No, If yes, I must comply with specific buffer requirements (see Table 4-1 and Part 4.6.B of OKR10 permit) and stabilization deadline requirements (see Parts 4.3.A and 4.6.B of OKR10 permit).

(Note: ARC maps can be found at the following link: <https://www.deq.ok.gov/wp-content/uploads/water-division/OKR10-Sensitive-Area.png> ORW maps can be found in Addendum B of OKR10 permit)

Does the project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)?

Yes No

If yes, what is the name of the MS4 operator? _____

Note: See Table C.7 in the MS4 Permit Factsheet, link: https://www.deq.ok.gov/wp-content/uploads/water-division/2021_OKR04_Factsheet.pdf.

2.2 General Location Map

Provide a general location map (e.g., DEQ GIS Data Viewer or U.S. Geological Survey (USGS), link: <https://gis.deq.ok.gov/maps/>, quadrangle map or aerial image from the internet) with enough detail to identify the location of your facility and all receiving waters for your stormwater discharges within one mile of the construction site (see Part 5.3.F of the OKR10 permit).

A **general location map** is included in **Attachment A** of this SWP3.

2.3 Site Map

SWP3 includes a legible site map or series of site maps/erosion and sediment control plans showing all the features (see also Part 5.3.F of OKR10 permit) listed below:

- Pre-construction topographic view including vegetation, showing the location of
 - ✓ all surface water bodies within one mile of the site (including wetlands); and
 - ✓ direction of stormwater flow across the construction site (i.e., use arrows to show which direction stormwater will flow);
- Boundaries of property and identify the location(s) of:
 - ✓ Earth-disturbing activities;
 - ✓ boundary lines of any natural buffers;
 - ✓ approximate slopes before and after major grading activities,
 - ✓ areas of steep slopes, surface water crossings, Structures and other impervious surfaces upon completion of construction
- Locations of all structural and nonstructural controls/BMPs identified in the plan including showing the location of:
 - ✓ construction entrance/exit,
 - ✓ concrete wash-out area,
 - ✓ construction support activity areas such as locations of off-site materials, waste, borrow area, or equipment storage area;
 - ✓ stockpiled materials (sediment, topsoil, etc.), and
 - ✓ locations of all potential pollutant-generating activities;
- Locations where stormwater and allowable non-stormwater will be discharged off-site (should be continuously updated); sampling locations if project is subject to numeric limitations due to presence of an asphalt batch plant;
- Location where stabilization practices are expected to occur; Areas where final stabilization will be accomplished and no further construction phase permit requirements apply.

The **site map or series of maps** for this facility can be found in **Attachment B** of this SWP3 showing all the above-mentioned features in Part 2.3 of this SWP3.

Section 3: Construction Site Pollutants

3.1 Pollutant-Generating Activities

Potential sources of sediment to stormwater runoff:

Clearing and grubbing operations, grading and site excavation operations, vehicle tracking, topsoil stripping and stockpiling, landscaping operations

Potential sources of pollutants, other than sediment, to stormwater runoff:

- Combined Staging Area - small fueling activities, minor equipment maintenance, sanitary facilities, and hazardous waste storage.
- Materials Storage Area - general building materials, solvents, adhesives, paving materials, paints, aggregates, trash, etc.
- Construction Activity - paving, curb/gutter installation, concrete pouring/mortar/stucco, and building construction
- Concrete Washout Area

3.2 List of Potential Pollutants

List of Pollutants that can be present at the construction site:

(Note: Check all the boxes applicable to your project site; include additional pollutants, if necessary, in the space below)

| Check | Materials/ Chemicals | Stormwater Pollutants | Location at the Site |
|-------------------------------------|---|---|-----------------------|
| <input checked="" type="checkbox"/> | Dirt from land disturbed area | Sediment | Site grading |
| <input type="checkbox"/> | Pesticides (insecticides, fungicides, herbicides, rodenticides) | Chlorinated hydrocarbons, organophosphates, carbonates, arsenic | |
| <input checked="" type="checkbox"/> | Fertilizer and dirt/soil | Nitrogen, phosphorous | Site grading |
| <input type="checkbox"/> | Plaster | Calcium sulphate, calcium carbonate, sulfuric acid | |
| <input checked="" type="checkbox"/> | Cleaning solvents | Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates | Building Construction |
| <input type="checkbox"/> | Asphalt | Oil, petroleum distillates | |
| <input checked="" type="checkbox"/> | Concrete | Limestone, sand, pH, chromium | sidewalk |
| <input checked="" type="checkbox"/> | Glue, adhesives | Polymers, epoxies | Building Construction |
| <input checked="" type="checkbox"/> | Paints | Metal oxides, Stoddard solvent, talc, calcium carbonate, arsenic | Building Construction |
| <input checked="" type="checkbox"/> | Curing compounds | Naphtha | Building Construction |
| <input checked="" type="checkbox"/> | Wood preservatives | Stoddard solvent, petroleum distillates, arsenic, copper, chromium | Building Construction |
| <input checked="" type="checkbox"/> | Hydraulic oil/fluids | Mineral oil | Material Storage Area |
| <input checked="" type="checkbox"/> | Gasoline | Benzene, ethyl benzene, toluene, xylene, MTBE | Material Storage Area |
| <input checked="" type="checkbox"/> | Diesel Fuel | Petroleum distillate, oil & grease, naphthalene, xylenes | Material Storage Area |
| <input checked="" type="checkbox"/> | Antifreeze/coolant | Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc) | Material Storage Area |
| <input checked="" type="checkbox"/> | Sanitary toilets | Bacteria, parasites, and viruses | On-Site |
| <input type="checkbox"/> | | | |
| <input type="checkbox"/> | | | |

Section 4: Compliance with Federal and State Requirements

4.1 Endangered or Threatened Species Protection

Eligibility Criterion

Under which criterion listed in NOI is the construction project/site eligible for coverage under the OKR10 permit?

(Note: ARC maps can be found at the following link:

<https://www.deq.ok.gov/wp-content/uploads/water-division/OKR10-Sensitive-Area.png>

A B C D E

For reference purposes, the eligibility criteria listed in Part 2.5.B.3 of OKR10 permit are as follows:

- Criterion A.** Criterion A requires that proposed construction site or land disturbing activity is not located within any of the corridors of the federal or state identified aquatic resource of concern ("ARC"), and further investigation is not required.
- Criterion B.** Criterion B requires that the proposed construction site or land disturbing activity is located within a corridor of a federal or state identified ARC. Operators must provide and implement measures to protect the endangered or threatened species or their critical habitat; these measures must be identified in the NOI and described in the facility's SWP3.
- Criterion C.** Criterion C requires that the applicant use Addendum D to evaluate alternatives of buffer requirements and select equivalent sediment controls or contact DEQ for further consultation if one of those eligibility criteria under Part 2.5.B.3.b, d, or e cannot be met.
- Criterion D.** Criterion D requires that the applicant's federally approved construction activities are authorized by the appropriate federal or state agency and that authorization addresses the Endangered Species Act Section 7 consultation for the storm water discharge or storm water discharge-related activities. Applicants selecting option d must include documentation from U.S. Fish and Wildlife Service ("USFWS") or a qualified biologist that demonstrates Section 7 consultation has been completed. The SWP3 must comply with and be updated to include any conditions resulting from that consultation.
- Criterion E.** Criterion E requires that the applicant's storm water discharges and storm water discharge-related activities are already addressed in another operator's certification of eligibility that includes the applicant's project area. By certifying eligibility under this part, the applicant agrees to comply with applicable measures or controls upon which the other operator's certification was based.

Note: For Criterion B, C, D, or E, you may subject to comply with additional requirements.

4.2 Federal, State, or Local Historic Preservation Laws

Will stormwater discharges or stormwater discharge-related activities (e.g., catch basin, pond, culver, etc.) affect a property that is protected by Federal, State, or local historic preservation laws? Yes No

If yes, describe any actions taken to mitigate those effects: [Click here to enter text.](#)

Describe how this determination was made: [Click here to enter text.](#)

4.3 TMDL Requirements

If a TMDL or watershed plan or local compliance plan has been approved for the waterbody, SWP3 must include all the applicable requirements in consistent with the TMDL or watershed plan or local compliance plan that are applicable to the stormwater discharges from the construction site.

Does the construction project/site discharge stormwater into a receiving stream that has an approved TMDL or watershed plan or local compliance plan?

Yes No

If yes, is there any waste load allocations (WLAs) and/or the TMDL's associated implementation plan requirements applicable to stormwater discharges from the construction activity?

Yes No

If yes, SWP3 must incorporate any limitations, conditions, or requirements applicable to permittee's discharges to ensure that the waste load allocations (WLAs) and/or the TMDL's associated implementation plan will be met within any timeframe established in the TMDL report or watershed plan. Monitoring and reporting of the discharges may also be required as appropriate to ensure compliance with the TMDL or watershed plan.

Note: *Approved TMDL reports or watershed plans can be downloaded from DEQ's website at <https://www.deq.ok.gov/water-quality-division/watershed-planning/tmdl/completed-tmdls/>.*

Does the construction project/site discharge stormwater to the **Lake Thunderbird watershed**?

Yes No

If **yes**, the following control measures will be used to meet the Lake Thunderbird TMDL requirements:

- Additional Pollutant Prevention or Discharge Monitoring** - You must comply with any additional requirements established by the local MS4 municipalities;
- Sites of Five Acres or Larger** - You must submit a copy of SWP3 to DEQ for review;
- Vegetated Buffer** - You must ensure that a vegetated buffer of at least 100 feet is retained or successfully established or planted between the area disturbed and all receiving streams. If the nature of the construction activity or the construction site makes a buffer impossible, you must provide equivalent controls. There are exceptions from this requirement for water crossings, limited water access, and stream restoration authorized under a CWA Section 404 permit;
- Sediment Basins** - For all drainage locations serving 5 or more acres disturbed at one time, you must use a temporary or permanent sediment basin and/or sediment traps to minimize sediment discharges;
- Site Inspection** - You must conduct site inspections once every 7 calendar days at a minimum, and within 24 hours of a storm event of 0.5 inches or greater and within 24 hours of a discharge caused by snowmelt;
- Corrective Actions** - You must implement corrective actions (e.g., repair, modify, or replace any stormwater control used at the site, clean up and dispose of spills, releases, or other deposits, or remedy a permit violation) by no later than 7 calendar days from the time of discovery. If it is infeasible to complete the installation or repair within 7 calendar days, you must document in your records why it is infeasible to complete the installation or repair within the 7 calendar days timeframe and document your schedule for installing the stormwater controls and making them operational as soon as practicable after the 7 days timeframe;
- Stabilization** - You must initiate stabilization measures immediately whenever earth-disturbing activities have permanently or temporary ceased on any portion of the site and will not resume for a period exceeding 14 calendar days. You are required to complete the stabilization activities within 7 calendar days after the permanent or temporary cessation;
- Soil Nutrient Testing** - You are required to conduct a soil nutrient test to determine actual nutrient needs before applying fertilizer on your site. Fertilizer application must be limited to that necessary to meet actual needs on the site.
- Describe any additional measures or controls you will implement to comply with the Lake Thunderbird TMDL requirements: [Click here to enter text.](#)

Section 5: Stormwater Control Measures

The purpose of the implementation of different stormwater pollution controls is to reduce pollutants in the stormwater and the volume of stormwater leaving the construction site. All pollution control measures will be selected, installed, and maintained in accordance with the manufacturer's specifications and good engineering practices.

5.1 Stabilization Practices

Type of Site Stabilization Practice(s) that will be implementing at the construction project/site (select all that apply):

- Temporary Permanent Vegetative Non-Vegetative

Deadline to Initiate Stabilization: I shall initiate stabilization measures **immediately** whenever earth-disturbing activities have permanently or temporarily ceased on any portion of the site and will not resume for a period of 14 or more calendar days.

Deadline to Complete Stabilization:

- I shall complete stabilization measures **as soon as practicable** but no later than 14 calendar days after the initiation of soil stabilization.
- My project/site is located in ARC/discharge to ORW; I shall complete stabilization measures **as soon as practicable** but no later than 7 calendar days after the initiation of soil stabilization.
- (Note: ARC maps can be found at the following link:
<https://www.deq.ok.gov/wp-content/uploads/water-division/OKR10-Sensitive-Area.png>
ORW maps can be found in Addendum B of OKR10 permit)*

Temporary Non-Vegetative Stabilization: The following **non-vegetative** controls/BMPs will be used to temporarily stabilize exposed portions of the construction site (*select all that apply*):

- Rolled erosion control products such as geotextiles, blankets or plastic cover Soil binders
- Straw mulch Wood mulch Compost Blanket Other, _____

If any of the above-referenced controls is used to temporarily protect areas that are being vegetative stabilized, one of the effective non-vegetative cover will be used to stabilize any such exposed portions of our site.

Temporary Vegetative Stabilization: The following **vegetative** controls will be used to temporarily stabilize the exposed portions of the construction site (*select all that apply*):

- Hydroseeding with mulch Sod Other, _____

Permanent Vegetative Stabilization: The following **vegetative** controls will be used to permanently stabilize the exposed portions of the construction site (*select all that apply*):

- Hydroseeding with mulch Sod Planted vegetation Other, _____

One of the following criteria will be used for vegetative cover:

- Provide a vegetative cover which covers 70% or more of the vegetation prior to commencing earth-disturbing activities and no large bare areas (10 square feet).
- Immediately after seeding, you must select, design, and install non-vegetative erosion controls that provide cover (such as **straw mulch, jute matting, and straw blankets**) to the area while vegetation is being established.

Stabilization Practices Record: A record of the dates when grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included with the plan. Yes No

If No, explain: _____

A record of the dates when grading activities occur will be documented using the Grading & Stabilization Activity logs in **Attachment-I** of this SWP3.

5.2 Natural Buffers and/or Equivalent Sediment Controls

Buffer Compliance Alternatives

Are there any **waters of the State** that are located within 50 feet (or 100 feet if the construction site is a high priority construction site (see Part 3.4 of OKR10 permit) or located in Lake Thunderbird Watershed) of your construction disturbances as measured from the top of the bank to the disturbed portions of your site?

Yes No

(Note: Waters of the State means all named/unnamed stream, creeks, rivers, lakes, ponds, marshes, watercourses, waterways, wells, springs, irrigation systems, drainage systems, storm sewers and all other bodies or accumulations of water, surface and underground, natural or artificial, public or private located within the boundary of Oklahoma State.)

If Yes, check the compliance alternative that you have chosen:

- I will provide and maintain a 50 feet (or **100 feet** if the construction site is a high priority construction site or located in Lake Thunderbird Watershed) undisturbed natural buffer.

(Note 1: See Table 4-1 of OKR10 permit for exceptions to above buffer requirements.)

(Note 2: You must show the boundary line of the natural buffer on your site map.)

(Note 3: You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls.)

- I will provide and maintain an undisturbed natural buffer that is less than 50 feet (or **100 feet** if the construction site is located in ARC or ORW or Lake Thunderbird Watershed) and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to required undisturbed natural buffer.

(Note 1: See Table 4-1 of OKR10 permit for exceptions to above buffer requirements.)

(Note 2: You must show the boundary line of the natural buffer on your site map.)

(Note 3: You must show on your site map how all discharges from your construction disturbances through the natural buffer area will first be treated by the site's erosion and sediment controls.)

i. Width of natural buffer to be retained: _____

ii. Method used to determine equivalent sediment load reduction:

Addendum-I: Buffer Guidance in OKR10 permit

a. Soil Type: _____

b. Buffer Vegetation: _____

OR

Site-specific calculation

a. Model or other tool used to estimate sediment load reductions:

b. Results of calculations: _____

c. Description of additional erosion and sediment controls used:

It is infeasible to provide and maintain an undisturbed natural buffer of any size; therefore, I will implement erosion and sediment controls that will achieve the sediment load reduction equivalent to a 50 feet (or 100 feet if the construction site is located in ARC or ORW or Lake Thunderbird Watershed) undisturbed natural buffer.

i. Rationale for concluding that it is infeasible to provide and maintain a natural buffer of any size:

ii. Method used to determine equivalent sediment load reduction:

Addendum-I: Buffer Guidance in OKR10 permit

a. Soil Type: _____

b. Buffer Vegetation: _____

OR

Site-specific calculation

a. Model or other tool used to estimate sediment load reductions:

b. Results of calculations: _____

c. Description of additional erosion and sediment controls used:

I qualify for one of the following exceptions (*select one that applies to your project/site*):

There is no discharge of stormwater to the surface water that is located 50 feet from my construction disturbances.

No natural buffer exists due to preexisting development disturbances that occurred prior to the initiation of planning for this project.

Buffer disturbances are authorized under a CWA Section 404 permit.

Buffer disturbances will occur for the construction of a water-dependent structure or water access area (e.g., pier, boat ramp, and trail).

5.3 Structural Controls/Best Management Practices (BMPs)

The table below listed Structural and Non-Structural Stormwater Controls/Best Management Practices (BMPs) that should be considered for every construction project/site to meet **the non-numeric technology-based effluent limitations, water-based effluent limitations and applicable numeric technology-based effluent limitations.**

The following BMPs will be used or implemented at the construction project/site (*select all that apply*):

| Erosion Controls | | Sediment Controls | |
|-------------------------------------|---------------------------------------|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Preservation of Existing Vegetation | <input checked="" type="checkbox"/> | Silt Fence |
| <input type="checkbox"/> | Vegetative Swales | <input checked="" type="checkbox"/> | Silt Dikes |
| <input checked="" type="checkbox"/> | Hydroseeding with Mulch | <input type="checkbox"/> | Compost Sock |
| <input type="checkbox"/> | Hydraulic Mulch | <input type="checkbox"/> | Check Dam |
| <input type="checkbox"/> | Wood Mulching | <input checked="" type="checkbox"/> | Fiber Rolls |
| <input type="checkbox"/> | Straw Mulching | <input type="checkbox"/> | Storm Drain Inlet Protection |
| <input type="checkbox"/> | Compost Blankets | <input checked="" type="checkbox"/> | Outlet Protection/Velocity Dissipation Devices |
| <input type="checkbox"/> | Soil Binders | <input type="checkbox"/> | Earth Berms and Drainage Swales |
| <input type="checkbox"/> | Geotextiles and Mats | <input type="checkbox"/> | Sand Bag Barrier |
| <input checked="" type="checkbox"/> | Soil Preparation/Roughening | <input type="checkbox"/> | Gravel Bag Berm/Barrier |
| <input type="checkbox"/> | Sod | <input type="checkbox"/> | Sediment Basin |
| <input type="checkbox"/> | Streambank Stabilization | <input type="checkbox"/> | Sediment Trap |
| Tracking Controls | | <input type="checkbox"/> | Rip-rap |
| <input checked="" type="checkbox"/> | Stabilized Construction Entrance/Exit | <input type="checkbox"/> | Gabions |
| <input type="checkbox"/> | Stabilized Construction Roadway | Non-Structural Controls | |
| <input type="checkbox"/> | Entrance/Exit Tire Wash | <input type="checkbox"/> | Phasing and Scheduling |
| <input type="checkbox"/> | Street Sweeping and Vacuuming | <input checked="" type="checkbox"/> | Dust Suppression |
| Other Structural Controls | | <input type="checkbox"/> | Dust Suppression |
| <input checked="" type="checkbox"/> | Vegetative Buffers | <input checked="" type="checkbox"/> | Good Housekeeping |
| <input type="checkbox"/> | Non-Vegetative Stabilization | <input type="checkbox"/> | Preventive Maintenance |
| <input type="checkbox"/> | Concrete Waste Management | <input checked="" type="checkbox"/> | Preservation of Top Soil |
| <input checked="" type="checkbox"/> | Dewatering Controls | <input type="checkbox"/> | Minimizing Soil Compaction |
| <input type="checkbox"/> | | <input checked="" type="checkbox"/> | Fertilizer Application Management |
| <input type="checkbox"/> | | <input type="checkbox"/> | |

Did you **include specifications** of all the selected structural BMPs with the SWP3?

Yes No, if no, explain the reason: [Click here to enter text.](#)

5.3.1 Perimeter Control

Permit requirement: *You must install controls along the perimeter of your site that will receive stormwater from your construction activities. (Examples of perimeter controls include, but are not limited to, silt fences, fiber rolls, filter berms, and temporary diversion dikes.)*

To comply with Part 4.2.C of OKR10 permit, I shall use the following type of perimeter control(s) at my construction site:

Perimeter Control Description: Silt fence along the downslopes of all disturbed areas, silt dikes and riprap where overland flow is concentrated.

Installation Date(s): Refer to section 1.5 for Sequence of Construction Activities

Maintenance Requirements: I shall remove sediment before it has accumulated to one-half of the above-ground height of any perimeter control. Silt fence will be inspected for rips or tears in the fabric, areas where the fence has been knocked down and areas where the fence has been undermined.

5.3.2 Sediment Track-Out

Permit requirement: *You must minimize the track-out of sediment onto off-site streets, other paved areas, and sidewalks from vehicles exiting your construction site. (Note: you may use most recent ODOT or OKC specifications for construction entrance/exit - use of aggregate stone with an underlying geotextile or non-woven filter fabric, or turf mats.)*

To comply with the Part 4.2.D of OKR10 permit, I shall use the following type of sediment track-out control at my construction site:

Track-Out Control/Construction Entrance/Exit Description: Construction entrance/exit will be located at exist to each industrial building location. 2"-3" course aggregate rock a minimum of 6" thick with filter fabric. Minimum dimensions are 50' long by 20' wide. Water will be used to wash tires off prior to public roadway. Sediment trap to be constructed on the downstream side of the entrance/exit.

Installation Date(s): Refer to section 1.5 for Sequence of Construction Activities

Maintenance Requirements: I shall minimize the track-out of sediment onto off-site streets, other paved areas, and sidewalks from vehicles exiting our construction site.

Track-out Removal/Cleaning:

- I shall remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal.
- I shall remove the deposited sediment by the **end of the same work day** in which the track-out occurs or by the end of the next work day if track-out occurs on a non-work day where sediment has been tracked-out from my construction site onto the surface of off-site streets, other paved areas, and sidewalks.
- I am prohibited from hosing or sweeping tracked-out sediment into any stormwater conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective

control).

5.3.3 Stockpiled Sediment or Soil

Permit requirement: *You must control discharge of stormwater from Stockpiled Sediment or Soil.*

To comply with the Part 4.2.E of OKR10 permit, I shall use temporary perimeter sediment barrier such as *berms, dikes, fiber rolls, silt fences, sandbag, or gravel bags* to protect from contact with stormwater (including run-on).

I shall use appropriate cover or temporary stabilization such as *mulching or hydro-mulching* to avoid direct contact with precipitation or to minimize sediment discharge.

Installation Date(s): Refer to section 1.5 for Sequence of Construction Activities

Maintenance Requirements: I shall not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any stormwater conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, and/or surface water.

5.3.4 Minimize Dust

Permit requirement: *You must minimize the generation of dust to avoid pollutant discharges to the extent feasible through application of water or other dust suppression techniques.*

Dust Control Description: To comply with the permit requirement and to avoid any pollutants, particularly soil/sediment, from being discharged into surface waters, I shall apply/spray water using spray truck or sprinklers to minimize the generation of dust from my construction site.

5.3.5 Minimize the Disturbance of Steep Slopes

Permit requirement: *You must minimize the disturbance of steep slopes (i.e., slopes of 40% or greater).*

Steep Slope Control Description: N/A

Installation Date(s): N/A

Maintenance Requirements: N/A

5.3.6 Preserve Topsoil

Permit requirement: *You must preserve native topsoil on your site, unless infeasible; you must stockpile and reuse it in areas that will be stabilized with vegetation.*

Topsoil Control Description: I shall preserve native topsoil on our site as much as possible and practicable.

Maintenance Requirements: I shall stockpile and reuse preserved top soil in areas that will be stabilized with vegetation.

5.3.7 Minimize Soil Compaction

Permit requirement: *In areas of your site where final vegetative stabilization will occur or where infiltration practices will be installed, you must minimize soil compaction.*

Soil Compaction Control Description: In areas of your site where final vegetative stabilization will occur or where infiltration practices will be installed, I shall restrict vehicle and/or equipment use in these areas to avoid or minimize soil compaction.

5.3.8 Protection of Storm Drain Inlets

Permit requirement: *If you discharge to a storm drain inlet that you have access to, you must install protection measures that remove sediment from your stormwater discharge. (Examples of inlet protection measures include **fabric filters, sandbags, or gravel barriers** -- Install inlet protection measures that remove sediment from your discharge prior to entry into the storm drain inlet.)*

Storm Drain Inlet Control Description: SILT SOCK SURROUNDING THE INLETS

Installation Date(s): Refer to section 1.5 for Sequence of Construction Activities

Maintenance Requirements: I shall clean, or remove and replace the protection measures as sediment accumulates, the filter becomes clogged, and/or performance is compromised. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, I shall remove the deposited sediment by **the end of the same work day** in which it is found or by the end of the following work day if removal by the same work day is not feasible.

5.3.9 Constructed Stormwater Conveyance Channels

(Note: Examples of velocity dissipation devices include check dams, sediment traps, riprap, or grouted riprap at outlets, include design specifications)

Stormwater Conveyance Channel Control Description: SILT DIKES

- If Silt dikes/Check dams are **used in series**, I shall space them at appropriate interval so that **the base of the upstream dike is at the same elevation as the top of the next downstream dike**. Spacing of silt dikes/check dams is indicated on the site plans of SWP3.

Installation Date(s): Refer to section 1.5 for Sequence of Construction Activities

Maintenance Requirements: all check dams/rip-rap will be inspected during facility inspection for erosion, undermining or breaches. Any damage will be repaired immediately.

5.3.10 Sediment Basins

Permit requirement: *For common drainage locations that serve an area of 10 or more acres disturbed at one time (or 5 acres if site is a high priority construction site), a temporary (or permanent) sediment basin shall be provided where attainable until final stabilization of the site.*

Are 10 or more (or 5 or more if site is a high priority construction site) acres draining to a common point?

- Yes No

Is a sediment basin included in the project? Yes No

If yes, what is the designed capacity for the storage?

- 3600 cubic feet per acre: _____

OR

- 2-year, 24 hour storm: _____

OR

- Other criteria were used to design basin: _____

If no, explain why no sedimentation basin was included and describe required natural buffer areas and other controls implemented instead: _____

Maintenance Requirements: I shall keep the sediment basin in effective operating condition and remove accumulated sediment to maintain at least ½ of the design capacity of the sediment basin at all times.

5.3.11 Dewatering Practices

Permit requirement: *You are prohibited from discharging stormwater that is removed from excavations, trenches, foundations, vaults, or other similar points of accumulation associated with a construction activity, unless such waters are first effectively managed by appropriate controls.*

Dewatering Practice Description: N/A

Installation Date(s): _____ N/A _____

Maintenance Requirements: N/A

5.3.12 Other Stormwater Controls

Stormwater Control Practice # 1

Description: N/A

Installation Date(s): _____

Maintenance Requirements: N/A

Stormwater Control Practice # 2

Description: N/A

Installation Date(s): _____

Maintenance Requirements: N/A

Section 6: Pollution Prevention Controls

6.1 Spill Prevention and Responses

Spill Prevention

Is there an existing Spill Prevention Control and Countermeasure (SPCC) plan developed for the site?

Yes No, if yes, keep a copy of the SPCC plan onsite with this SWP3.

If No, describe procedures for quickly stopping, containing, and cleaning up spills, leaks, and other releases:
Contractor to provide SPCC. _____

Emergency Spill Notification

| In case of a toxic or hazardous material spill, notify: | Phone Numbers |
|---|---------------|
| Project Manager/Team Leader (To be determined) | |
| Emergency – Fire, Police | 911 |
| County Local Emergency Planning Committee (LEPC) | 918-825-4650 |
| DEQ Spill Reporting Hotline (24-hr) | 800-522-0206 |
| NRC (National Response Center) | 800-424-8802 |

6.2 Waste Management Procedures

All wastes generated at the construction site, including, but not limited to, clearing and demolition debris, sediment removed from the site, construction and domestic waste, hazardous or toxic waste, and sanitary waste, shall be prevented from being discharged to Waters of the State. The following BMP measures will be used to handle trash disposal, hazardous or toxic waste, sanitary waste, recycling, and proper material handling:

- Trash Dumpsters:** dumpsters will have a secure watertight lid, will be closed during precipitation or not in use, and will be placed away from stormwater conveyances and drains, and meet all federal, state, and municipal regulations. Only trash and construction debris from the site will be deposited in the dumpster. No construction materials will be buried on site.
- Hazardous Waste Containment:** hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials.

- Portable Toilets:** portable toilets will be secured to prevent tipping, located away from stormwater inlets and conveyances. These toilets will be anchored with the ground to prevent any tipped or knocked over and/or sand bags around to ensure wastewater doesn't mix with the stormwater.
- Recycling Bins/Dumpsters:** wood pallets, cardboard boxes, and other recyclable construction scraps will be disposed of in a designated dumpster for recycling. The dumpster will have a secure watertight lid, will be closed during precipitation or not in use, and will be placed away from stormwater conveyances and drains and meet all local and state solid-waste management regulations.
- Proper Material Handling:** containers will be tightly sealed when not in use, and excess paint shall be disposed of according to Oklahoma requirements and manufacturer's recommendations. Minimum amounts of fertilizer, as recommended by the manufacturer, will be used. Upon application the fertilizer will be worked into the soil to limit exposure to stormwater. Contents of partially used bags will be transferred to a sealable plastic bin, and then stored in a covered area.
- Good housekeeping:** construction debris, trash, and other floatable material will be collected and prevented from becoming a pollutant source on the following schedule:
Refer to section 1.5 for Sequence of Construction Activities
- Minimizing exposure:** construction products, materials, chemicals, and wastes will be stored in such a way that they are prevented from coming into contact with stormwater (e.g., plastic sheeting or temporary roofs).
- Designated concrete washout:** all concrete washwater will be directed into a leak-proof container or pit. The container or pit will be designed so that no overflows can occur due to inadequate sizing or precipitation and located as far away as possible from surface waters and stormwater inlets or conveyances. I shall use *compacted clay liner, 20 mil synthetic liners or similar equivalent liners* to make the pit leak proof.
- Other:

6.3 Prohibited Discharges

The following discharges from the construction project/site are prohibited under the permit, and are considered a violation should any occur.

- Wastewater from the washout of concrete, unless managed by an appropriate control as described in Part 4.4.H of OKR10 permit;
 - Wastewater from the washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials, unless managed by an appropriate control as described in Part 4.4.H of OKR10 permit;
 - Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance;
 - Soaps, detergents or solvents used in vehicle and equipment washing; and
 - Toxic or hazardous substances from a spill or other release.
- In the event that one of these above-mentioned discharges occurs, I will take corrective action consistent with Part 7.4 of this SWP3.

Section 7: Procedures and Documentations

7.1 Maintenance and Repair

I shall ensure that all pollution prevention controls installed in accordance with the requirements of OPDES Construction General Permit OKR10 and remain in effective operating condition and are protected from activities that would reduce their effectiveness. All structural BMPs (i.e. all the Erosion & Sediment Controls) that require a repair of any kind (due to normal wear and tear, or as a result of damage) or require maintenance in order for the control to continue operating effectively shall be required/maintained in accordance with the OPDES Construction General Permit requirements. At a minimum, maintenance will be performed in the following specific instances:

- for perimeter controls, whenever sediment has accumulated to $\frac{1}{2}$ or more the above-ground height of the control (*see Part 4.2.C of OKR10 permit*);
- where sediment has been tracked-out onto the surface of off-site streets or other paved areas (*see Part 4.2.D of OKR10 permit*);
- for inlet protection measures, when sediment accumulates, the filter becomes clogged, and/or performance is compromised (*see Part 4.2.J of OKR10 permit*); and
- for sediment basins, as necessary to maintain at least $\frac{1}{2}$ of the design capacity of the basin (*see Part 4.2.L of OKR10 permit*).
- for all structural BMPs, repair of any kind (due to normal wear and tear, or as a result of damage) or maintenance will be performed in order for the BMPs to continue operating effectively.

7.2 Approval from Local Office

- I shall check/already checked local offices (city and county offices) to ensure SWP3 for my construction activities is consistent with requirements of the City and/or County Offices.
- I shall update the SWP3, if necessary, to make 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 local officials for which I received written notice.

7.3 Inspections

(Note: An inspector must be knowledgeable in the principles and practices of erosion and sediment controls and pollution prevention to assess conditions at the construction site that could impact stormwater quality, and the effectiveness of any stormwater controls.)

Person Responsible for Inspections: Construction Superintendent

General Procedures: During each inspection, the following areas of the construction site will be inspected:

- Cleared, graded, or excavated areas of the site;
- Stormwater controls (e.g., perimeter controls, silt dykes, check dams, sediment basins, inlets, exit points etc.) and pollution prevention practices (e.g., pollution prevention practices for vehicle fueling/maintenance and washing, construction product storage, handling, and disposal, etc.) at the site;
- Material, waste, or borrow areas covered by the permit, and equipment storage and maintenance areas;
- Evidence of a spill, leak, or other type of pollutant discharge, or failure to have properly cleaned up a previous spill, leak, or other type of pollutant discharge;
- Areas where stormwater flows within the site, stormwater discharge points;
- Identify any other incidents of non-compliances observed; and
- Areas where stabilization has been implemented.

Inspection Frequency:

- Once every 7 calendar days** and within 24 hours of the end of a storm event of 0.5 inches or greater, since my project is located in **ARC** or discharge to an impaired water.
- Once every 14 calendar days** and within 24 hours of the end of a storm event of 0.5 inches or greater.

Reductions in Inspection Frequency (if applicable):

- For the reduction in inspections resulting from stabilization: **Once per month** for the portion of the site that was stabilized per Part 4.3 and 5.4 of OKR10 permit.

Rain Gauge to Measure Qualified Storm Event of 0.5 inches or greater:

Location of the Rain Gauge: N/A

Inspection Report Forms:

Inspection Report Form has been prepared in accordance with the requirements of Part 5.4 of OKR10 permit. A copy of the Inspection Report Form that will be used during construction of this project included in **Attachment E** of this SWP3.

*(Note: Inspection report can be found under the **Construction Stormwater Templates and Additional Information** tab in the OKR10 link: <https://www.deq.ok.gov/stormwater-permitting/okr10-construction-stormwater/>.)*

7.4 Corrective Action

General: Corrective actions are actions taken to modify, replace, or reinstall any stormwater control used at the site; clean up and dispose of spills, releases, or other deposits; or remedy a permit violation.

Corrective actions are triggered only for specific, more serious conditions (*see Part 5.5.A of OKR10 permit*). For any of the following conditions, a new or modified control shall be installed **no later than 7 calendar days** from the discovery:

- A required stormwater control was never installed or was installed incorrectly, or not in accordance with the corresponding OKR10 permit requirement;
- A stormwater control needs to be repaired or replaced (*beyond routine maintenance required in Part 5.3.L of OKR10 permit*);
- A stormwater control is not effective enough for the discharge to meet applicable water quality standards;
- A prohibited discharge (*see Parts 2.2, 4.2 and 4.4.B.2 of OKR10 permit*) is occurring or has occurred; or
- DEQ or MS4 Operator requires corrective action as a result of permit violations found during an inspection.

- I shall immediately take all reasonable steps to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational, including cleaning up any contaminated surfaces so that the material will not discharge in subsequent storm events. I shall conduct corrective action(s) for each of the above-mentioned triggering conditions should they occur at my construction site.

Person Responsible for Corrective Actions: Dirt Contractor

Corrective Action Schedule/Specific Action Frequency:

- I shall perform all Corrective Actions (modify, replace, or reinstall), if identified, **no later than 7 calendar days from** the time of discovery.

Corrective Action Forms:

Corrective Action Report Form has been prepared in accordance with the requirements of Part 5.5.B of OKR10 permit. A copy of the Corrective Action Report Form that will be used during construction of this project included in **Attachment F** of this SWP3.

7.5 Employee Training

Person Responsible for Staff Training

Name: To be determined

Title: **Construction Superintendent**

Staff Training Requirements

Prior to the start of earth-disturbing activities, personal with the following responsibilities shall be trained to understand all the requirements of this SWP3:

- Proper design, installation, and maintenance/repair of stormwater controls.
- The proper application and storage of chemicals.
- Proper Inspection and corrective actions.

At minimum, all Personnel must be trained to understand:

- The location of all stormwater controls and the maintenance requirements for each of the control.
- The pollution prevention requirements outlined in this SWP3.
- When and how to conduct inspections, record applicable findings and take necessary corrective actions.

Frequency/Schedule of Employee Training: annually

(Note: Employee training shall be conducted at least annually or more often if employee turnover is high).

Employee training records and documentations shall be maintained using the **Employee Training Report** located in **Attachment G** of this SWP3.

7.6 Notification of Change of Ownership (NCO) for Individual Lots

- SWP3 will include documents if lots are sold and transfer to other new operator(s), (see Part 3.1.B.5 and 3.7.1 of OKR10 permit). Documents will be included under **Attachment M** of this SWP3.
- NCO is not applicable to my project/site.

7.7 Sub-contractor Certifications

- Sub-contractor certification forms will not be used for this project.
- DEQ's sub-contractor certification form (**Attachment M**) will be used and kept onsite with the SWP3.

- A form other than DEQ's form will be used and kept onsite with the SWP3.

7.8 Record Keeping and Record Retention

- I shall retain copies of the SWP3 and all reports required by the 2022 OKR10 permit, and records of all data used to complete the NOI to be covered by this permit, for a **period of at least 3 years** from the date that the site is finally stabilized.

7.9 Posting a Notice

- I shall post a notice near the main entrance of the construction site with the following information:
- The OPDES permit number for the project or a copy of the NOI if a permit number has not yet been assigned;
 - The name and telephone number of a local contact person;
 - A brief description of the project; and
 - Location of the SWP3

A **sample copy of the Notice** is included in **Attachment M** of this SWP3.

Section 8: Additional Monitoring (if applicable)

(Note: Only applicable if you have Concrete Batch Plant and/or Asphalt Plant that is covered under your OKR10 authorization; if not applicable delete this section)

8.1 Support Activity Covered by this Plan

Concrete Batch Plant Asphalt Plant Both Not Applicable

8.2 Representative Outfall(s)

Are there substantially identical outfalls? Yes No

If yes, which outfalls are substantially identical? _____

Which outfall(s) will be sampled? _____

8.3 Structural & Non-Structural BMPs

Perimeter control and retention/detention pond will be installed. All exposed areas will be kept clean and orderly manner to minimize exposure. Structural controls will be maintained to keep these effective and operational.

8.4 Quarterly Visual Monitoring

In addition to routine site inspection, quarterly visual monitoring, qualified facility inspector will perform quarterly visual monitoring:

1. Quarterly visual monitoring assessments will be conducted using the form in [Attachment J](#) of this SWP3. Each drainage point will be visually inspected on a quarterly basis. If no qualifying storm event occurs during a monitoring quarter, this will be noted on the quarterly visual monitoring report for that quarter.
2. Samples will be collected from each outfall, will be examined and documented observations of color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution using the quarterly visual monitoring form and will occur during daylight hours (e.g., normal working hours).
3. Completed quarterly visual monitoring forms will be kept with the SWP3.

8.5 Comprehensive Site Compliance Evaluation

1. A comprehensive site compliance evaluation will be conducted at least once annually. If the project is less than one year, at least one inspection will be conducted, which will include all areas where industrial materials or activities are exposed to stormwater and areas where spills and leaks have occurred within the past **3 years**.

2. A report resulting from this inspection will be submitted to DEQ by **March 1** of the year following the monitoring period using the form in **Attachment K** of this SWP3.

8.6 Numeric Effluent Limitation Monitoring for Asphalt Plant

1. Stormwater discharges from asphalt plants must comply with the limitations and monitoring requirements listed below.

| Parameter | Limitation | Monitoring Frequency | Sample Type |
|------------------------|--|----------------------|-------------|
| Total Suspended Solids | 23 mg/L, daily max. 15 mg/L, monthly avg. | 1/year | Grab |
| Oil and Grease | 15 mg/L, daily max. 10 mg/L, monthly avg. | 1/year | Grab |
| pH | 6.5 - 9.0, min. and max. | 1/year | Grab |

2. Annual monitoring period is from **January 1 to December 31**. If the project is less than one year, at least one sample must be collected.
3. Laboratory analyses for the parameters specified above must be performed by a laboratory certified by DEQ for those parameters.
4. Monitoring will be performed on a storm event that results in an actual discharge from the construction site (at least **0.1 inch** of stormwater event defined as a **measurable storm event**) that follows the preceding measurable storm event by at least 72 hours (3 days).
5. A minimum of one grab sample will be collected within the first 30 minutes of the discharge resulting from a measurable storm event. If it is not practicable to take the sample during the first 30 minutes, the sample must be collected as soon as practicable after the first 30 minutes and document why it was not possible to take samples within 30 minutes.
6. Monitoring information will be submitted on a discharge monitoring report (DMR) form (see **Attachment L**) by **March 1** of the year following the monitoring period.
7. If an exceedance of a numeric effluent limit occurs, follow-up monitoring will be conducted within 30 calendar days, or during the next qualifying storm event, of implementing corrective actions.

Person(s) and positions of person(s) responsible for monitoring: [Click here to enter text.](#)

Sample location(s): [Click here to enter text.](#)

Monitoring Schedules: [Click here to enter text.](#)

8.7 Additional Procedures for Concrete Batch Plant

Is there a mobile batch plant associated with this construction project/site?

No Yes, If yes, permit number: OKG11_____

How long will the batch plant be utilized?

- Less than 180 days
 Greater than 180 days

Will wastewater be used for dust suppression?

No Yes, If yes, the following requirements must be met:

- a. The wastewater to be land applied shall be free from visible sheen of oil or globules of oil or grease and shall have a pH of between 6.5 s.u. and 9.0 s.u.
- b. The wastewater to be land applied for dust suppression shall be visually inspected prior to land application. An inspection log shall be maintained at the site and made available to DEQ personnel upon request.
- c. There shall be no land application of wastewater in areas where the depth to maximum seasonal groundwater level is less than 2 feet in accordance with OAC 252:616-5-1(b)(2)(E).
- d. There shall be no land application of wastewater during periods of precipitation or when soil is saturated or frozen.
- e. There shall be no runoff of wastewater from the land application site(s).
- f. The permittee shall keep a logbook which records the time and date, the source and the volume of wastewater used, and the area to which the wastewater .

Describe the liner used for any surface impoundments: [Click here to enter text.](#)

Is the bottom of all surface impoundments at least 15 feet above groundwater levels?

No Yes

The following berm/dike slope requirement will be followed:

- For sites utilized less than 180 days, a 1:2 (1 vertical to 2 horizontal) slope
 For sites utilized more than 180 days, a 1:3 (1 vertical to 3 horizontal) slope

Section 9: SWP3 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 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.

Name: _____ **Title:** _____

Signature: _____ **Date:** _____

Section 10: SWP3 Modifications

I shall maintain records of modifications that will be made per Part 5.3.S of OKR10 permit, and other reasons in [Attachment H](#) of this SWP3:

[Click here to enter text.](#)

Section 11: SWP3 Attachments & Additional Documentation

The following documentations are attached to the SWP3:

Attachment A – General Location Map

A copy of general location map is included in Attachment A.

Attachment B – Site Map(s)

Copy of the site map(s) is/are included in Attachment B.

Attachment C – 2022 OKR10

Note: it is helpful to keep a printed-out copy of the 2022 OKR10 so that it is accessible to you for easy reference. However, you do not need to formally incorporate the entire 2022 OKR10 into your SWP3. As an alternative, you can include a reference to the permit and where it is kept at the site.

Attachment D – Notice of Intent (NOI)

A copy of your NOI is included in Attachment D.

Attachment E – Inspection Report

A copy of the Routine Facility Inspection Report Form is included in Attachment E.

Attachment F – Corrective Action Report

A copy of Corrective Action Report Form is included in Attachment F.

Attachment G – Employee Training Report

A copy of Employee Training Log is included in Attachment G.

Attachment H – SWP3 Modifications Log

A copy of Report on SWP3 Modifications/Amendments Log is included in Attachment H.

Attachment I – Site Stabilization Log

A copy of Site Stabilization Log is included in Attachment I.

Attachment J – Quarterly Visual Monitoring Report

A copy of Quarterly Visual Monitoring Report Form is included in Attachment J.

Attachment K – Annual Site Evaluation Report

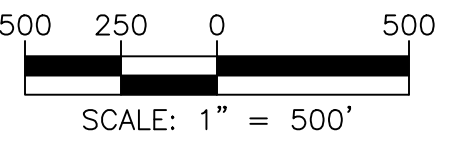
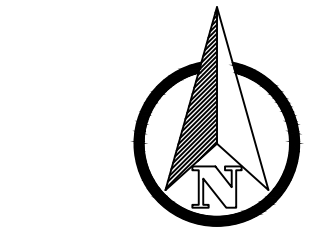
A copy of Annual Comprehensive Site Compliance Evaluation Report (ACSCER) form is included in Attachment K.

Attachment L –Other Documentations

Any other Documentation required by this Permit

Attachment A – General Location Map

CONSULTANT: CIVIL ENGINEER
 ROUTE 66 ENGINEERING
 28 N. Water Street
 Sapulpa, OK 74066
 918-248-1129



OKLAHOMA ONE-CALL SYSTEM, INC.

CONSTRUCTION DOCUMENTS
 2/24/2023

**PRYOR CREEK
 MENNONITE
 CHURCH**

1919 W. 470
 PRYOR, OK 74361

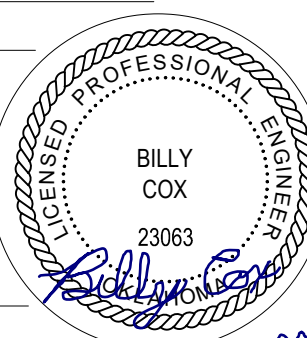
REVISIONS

GENERAL LOCATION MAP

BILLY COX, P.E.
 ROUTE 66 ENGINEERING, LLC
 CA #8853, DATE 06/30/2023

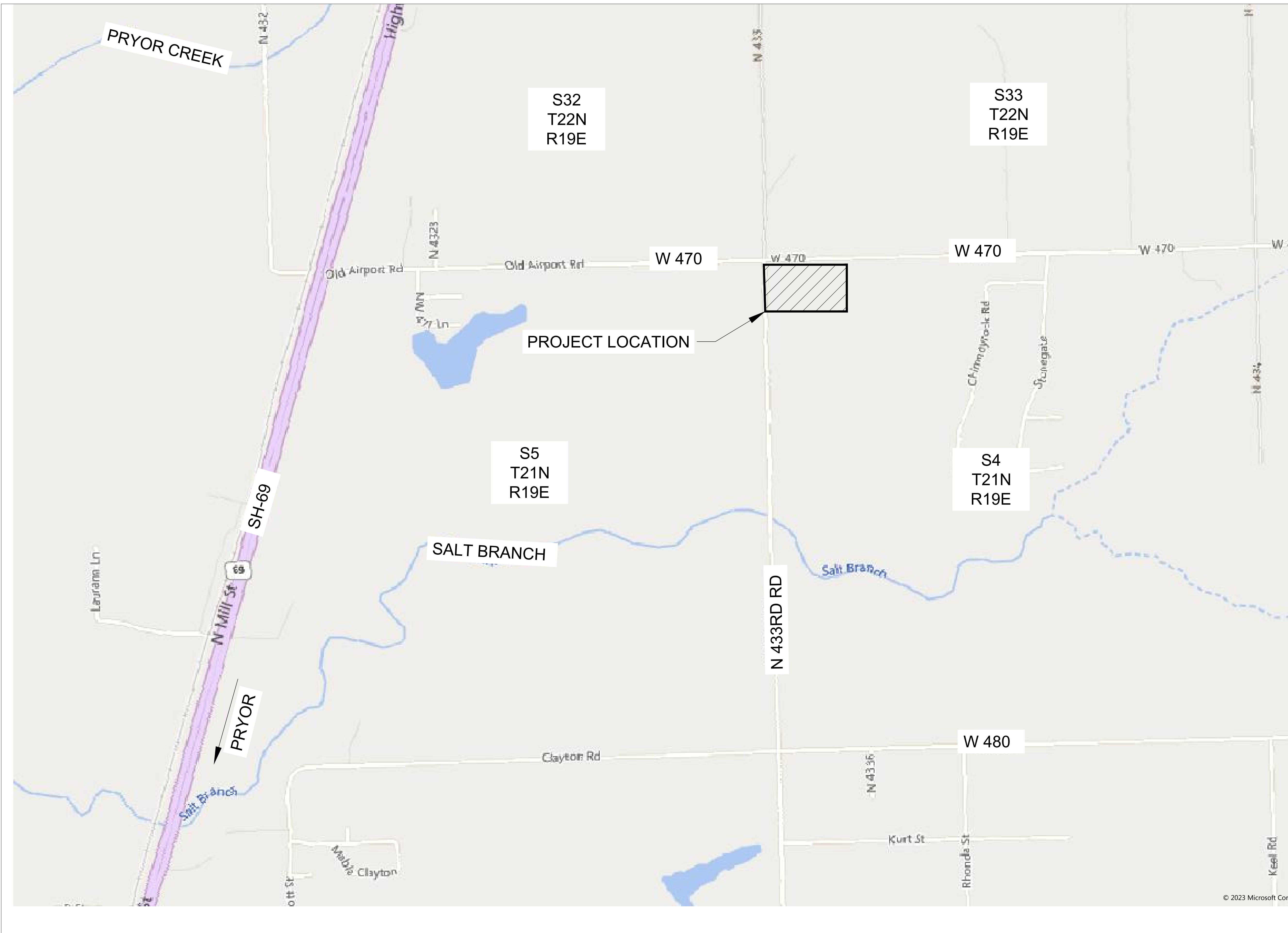
JOB: 2022.28
 ISSUE: 02/24/2023
 DRAWN BY: BD
 CHKD BY: BC

SK101



SCALE

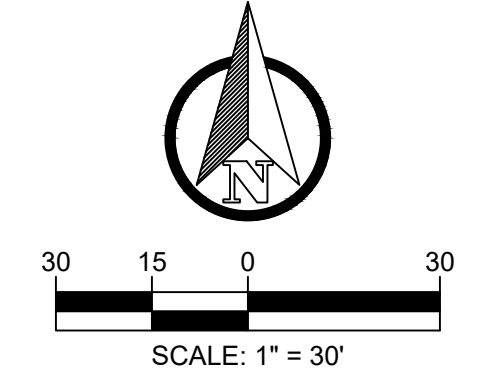
2-27-2023



Attachment B – Site Maps

This document, and the ideas and designs incorporated herein, as an instrument of professional service, is the property of REED Architecture & Interiors and is not to be used, in whole or in part, for any other project, without the written authorization of REED Architecture & Interiors.
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 ROUTE 66 ENGINEERING
 28 N. Water Street
 Sapulpa, OK 74066
 918-248-1129



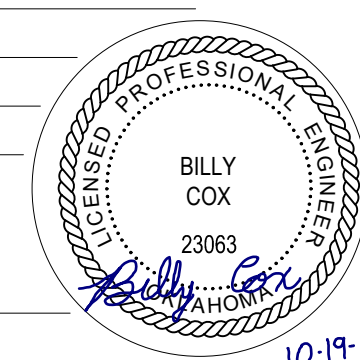
PRYOR CREEK MENNONITE CHURCH
 1919 W. 470
 PRYOR, OK 74361

REVISIONS

EROSION CONTROL PLAN

BILLY COX, P.E.
 ROUTE 66 ENGINEERING, LLC
 CA #8853, DATE 06/30/2025

JOB: 2022.28
 ISSUE: 10/19/2023
 DRAWN BY: BD
 CHK'D BY: BC



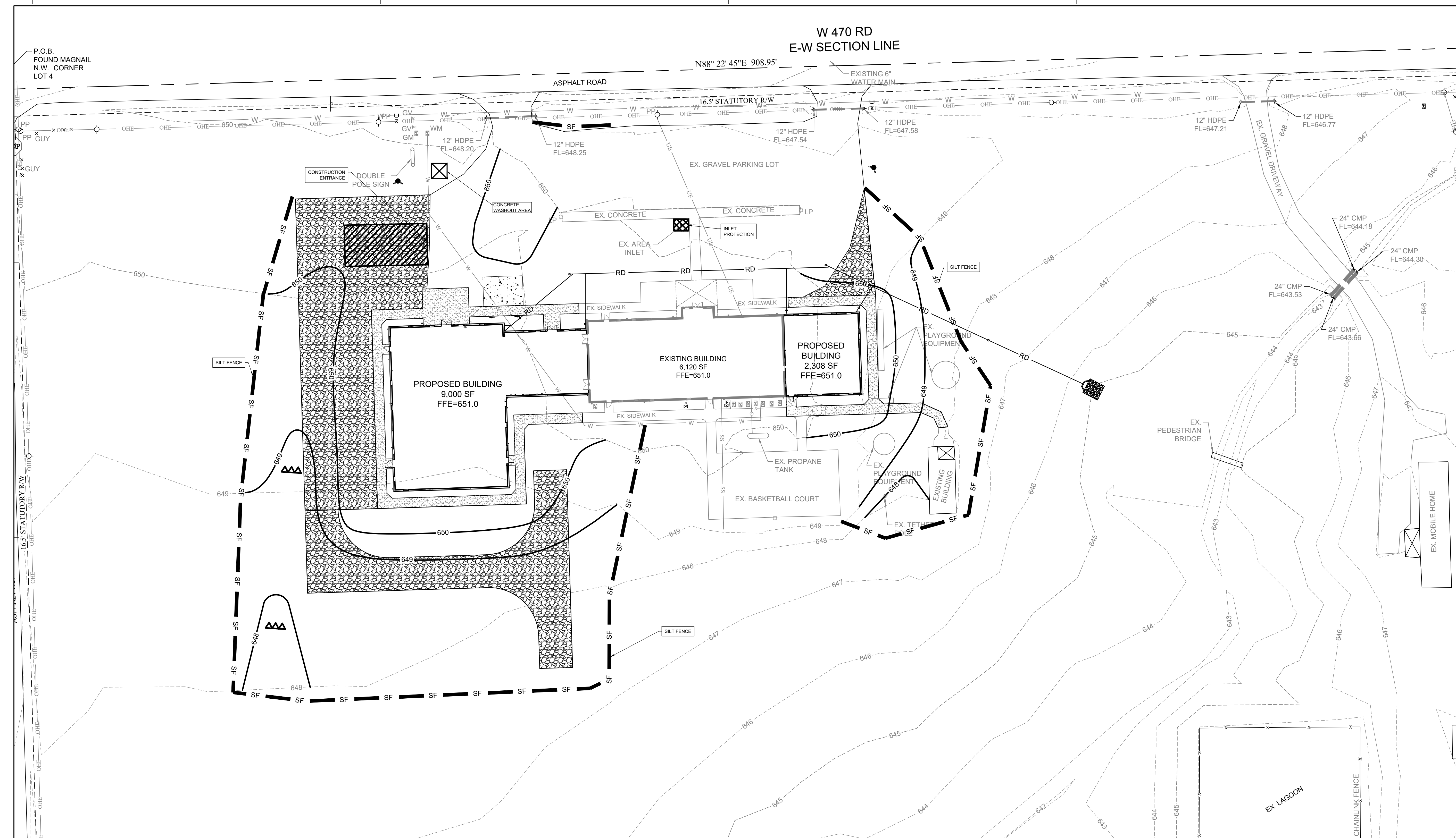
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SCALE

10-19-2023

**W 470 RD
 E-W SECTION LINE**

N88° 22' 45"E 908.95'



EROSION CONTROL NOTES

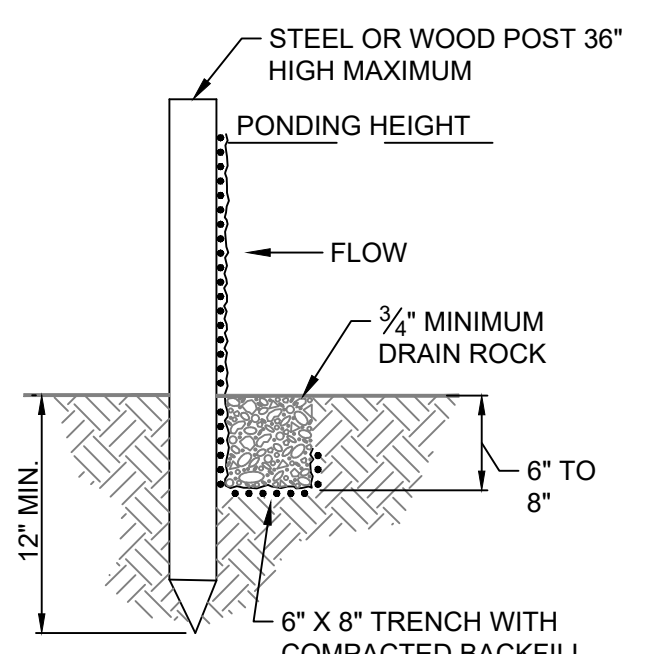
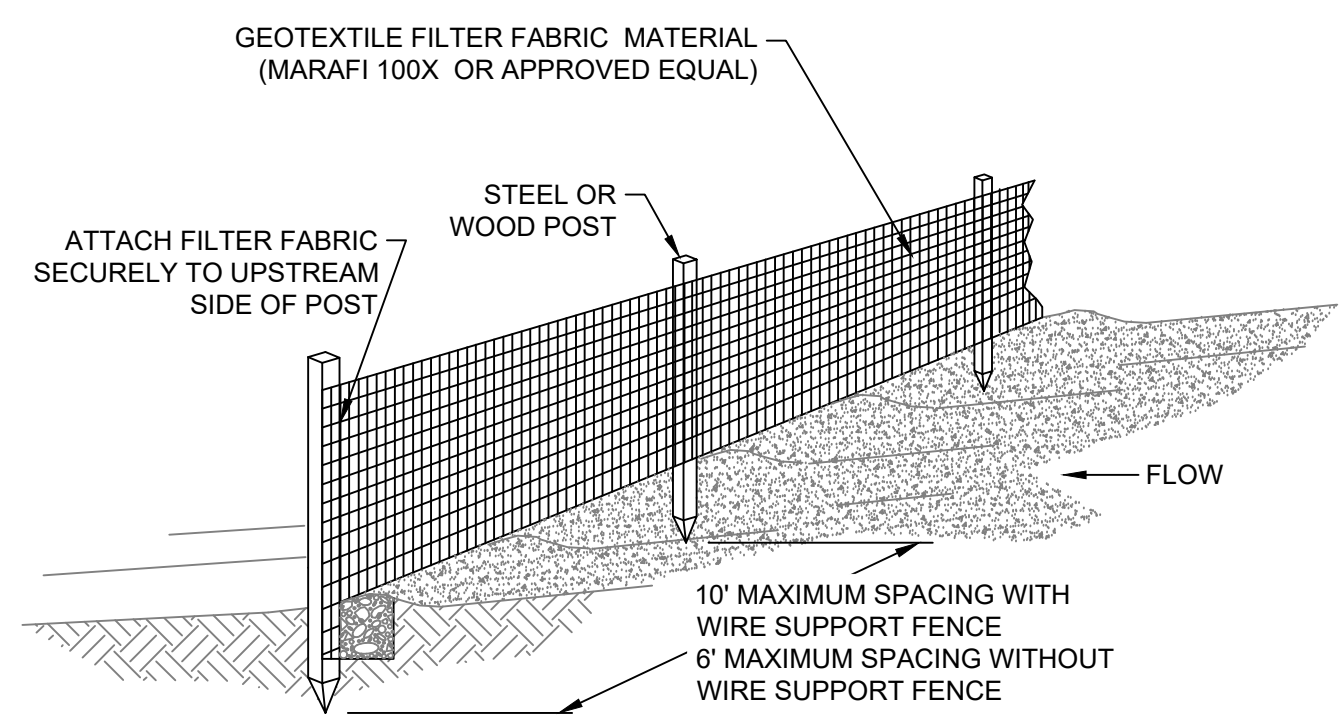
- ALL PERIMETER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE EXECUTION OF ANY GRADING WORK AND MAINTAINED BY THE GRADING CONTRACTOR FOR THE DURATION OF THE GRADING PROJECT. FAILURE TO INSTALL AND MAINTAIN EROSION CONTROL IS A VIOLATION OF STATE LAW AND SUBJECT TO FINE.
- THE APPROPRIATE EROSION CONTROL DEVICE(S) SHALL BE INSTALLED PRIOR TO THE INCEPTION OF ANY LAND DISTURBING ACTIVITY AND SHALL BE PROPERLY MAINTAINED AND/OR OPERATED DURING THE TIME SUCH SPECIAL CONDITIONS EXIST.
- ALL EROSION CONTROL DEVICES AND THEIR INSTALLATION SHALL MEET THE STANDARDS PRESCRIBED IN THE CURRENT GUIDELINES FOR STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES.
- SEDIMENT FILTER, SILT FENCE AND STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED PER ROGERS COUNTY STANDARDS
- SEDIMENT COLLECTED BEHIND THE SEDIMENT FILTERS AND SILT FENCES SHALL BE REMOVED WHEN SEDIMENT REACHES ONE THIRD THE HEIGHT OF THE BARRIER.
- SEDIMENT FILTERS AND SILT FENCES SHALL BE INSPECTED AND MAINTAINED NO LESS THAN WEEKLY OR WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE. MAINTENANCE SHALL INCLUDE BUT NOT LIMITED TO SEDIMENT REMOVAL, BARRIER REPAIR AND/OR REPLACEMENT.
- CONSTRUCTION SITE ENTRANCE: THE CONTRACTOR SHALL CONSTRUCT AS A MINIMUM ONE STABILIZED CONSTRUCTION ENTRANCE AT THE LOCATION SHOWN ON THE PLANS. IF ADDITIONAL INGRESS AND EGRESS TO THE CONSTRUCTION SITE IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE CONSTRUCTION MANAGER THE LOCATION OF THESE ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES. USAGE OF NON-STABILIZED POINTS FOR INGRESS AND EGRESS WILL NOT BE PERMITTED. THE STABILIZED ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY AND PAVED DRIVING LANES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS WARRANT. REPAIR OF THE ENTRANCE(S) OR CLEANING OF THE RIGHT-OF-WAY AND PAVED DRIVING LANES THAT HAVE BEEN SOILED SHALL BE PERFORMED BY THE CONTRACTOR AT HIS OWN EXPENSE. SATISFACTORY TO THE CONSTRUCTION MANAGER. WHEN NECESSARY, VEHICLE WHEELS AND TIRES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTERING ONTO PUBLIC RIGHTS-OF-WAY AND PUBLIC STREETS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE.
- THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PERIODICALLY WATER THE SITE TO CONTROL DUST.
- SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE REMOVED FOLLOWING CONSTRUCTION OR UPON PERMANENT STABILIZATION OF THE DISTURBED AND GRADED AREAS, WHICHEVER OCCURS LAST.

EROSION CONTROL LEGEND

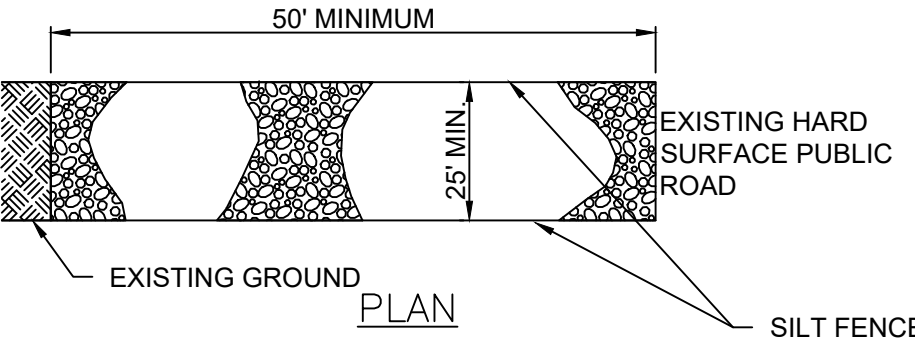
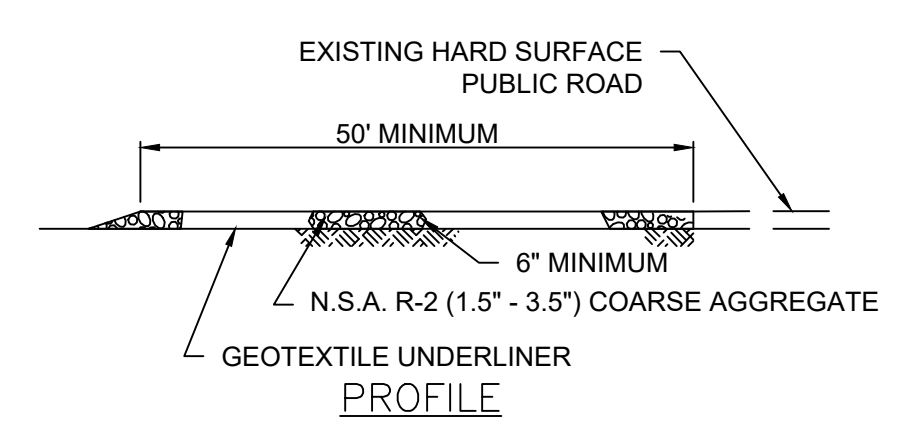
| | |
|--|--|
| | CONSTRUCTION ENTRANCE |
| | SILT FENCE |
| | INLET PROTECTION |
| | CONCRETE WASHOUT |
| | TYPE 1 PLAIN RIP-RAP (D50 > 0.80 FT. - 18" THICK) |
| | SILT DIKE |

**TOTAL DISTURBED AREA
 2.3 ACRES**

2/6/2023 11:07:34 AM



- FABRIC FILTER SILT FENCE NOTES:**
- MUST BE INSTALLED PROPERLY TO AVOID NOTICE OF VIOLATION.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE POUNDING EFFICIENCY.
 - INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9' MAXIMUM RECOMMENDED STORAGE HEIGHT.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE TO SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.



SILT FENCE TO BE PLACED ALONG THE EDGE OF STONE ON BOTH SIDES TO DIRECT TRAFFIC THROUGH ENTRANCE FOR THE FULL LENGTH

- DETAIL NOTES:**
- STONE SIZE SHALL BE N.S.A. R-2 (1.5" TO 3.5") COARSE **CLEAN** AGGREGATE WITH A GEOTEXTILE UNDERLINER.
 - LENGTH-AS EFFECTIVE. BUT NO LESS THAN 50 FEET.
 - THICKNESS-NOT LESS THAN SIX (6) INCHES.
 - WIDTH-NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS, OR AS INDICATED ON THE PLAN.
 - WASHING-WHEN NECESSARY. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATER-COURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.
 - MAINTENANCE-THE ENTRANCE/EXIT SHALL 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. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

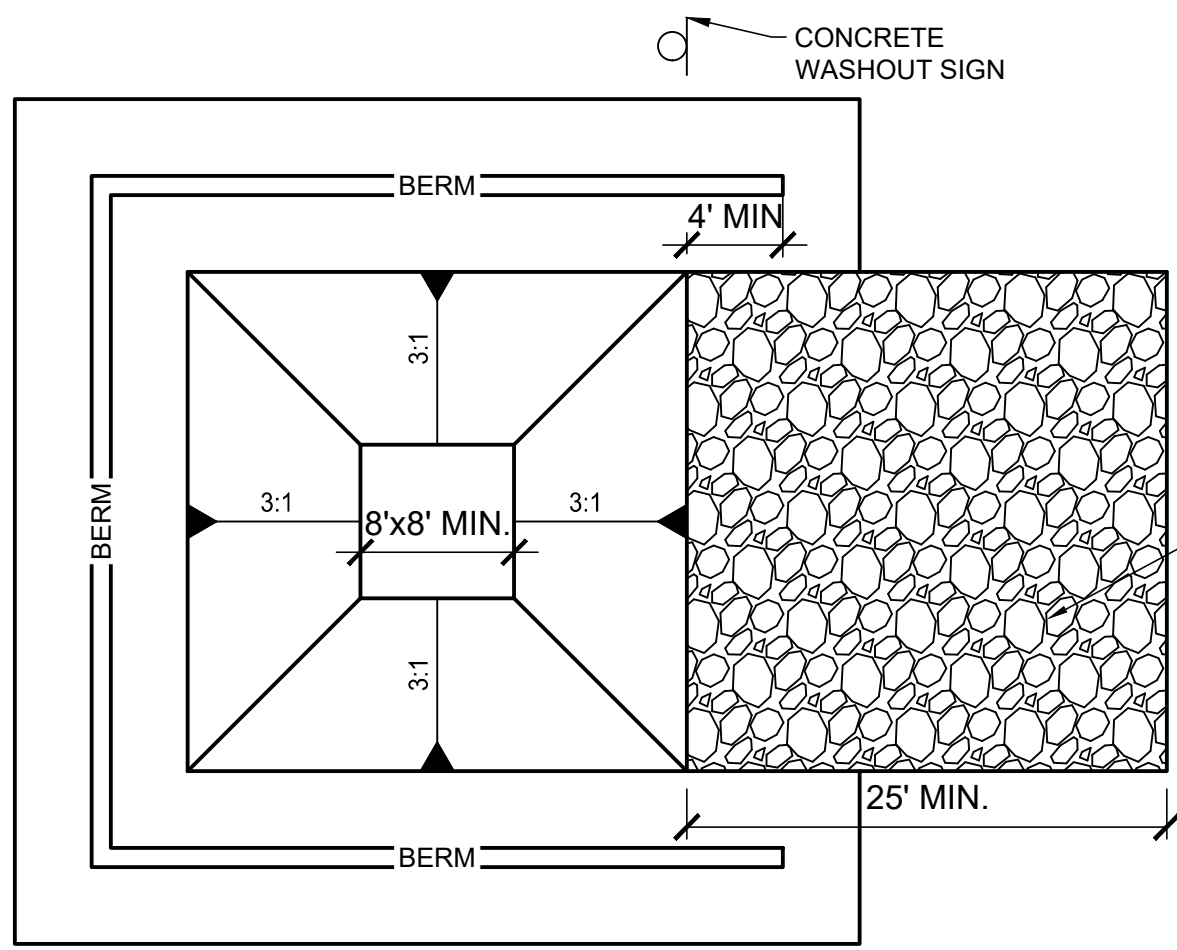
CONSTRUCTION ENTRANCE
SCALE: NTS

SPECIFIC APPLICATION

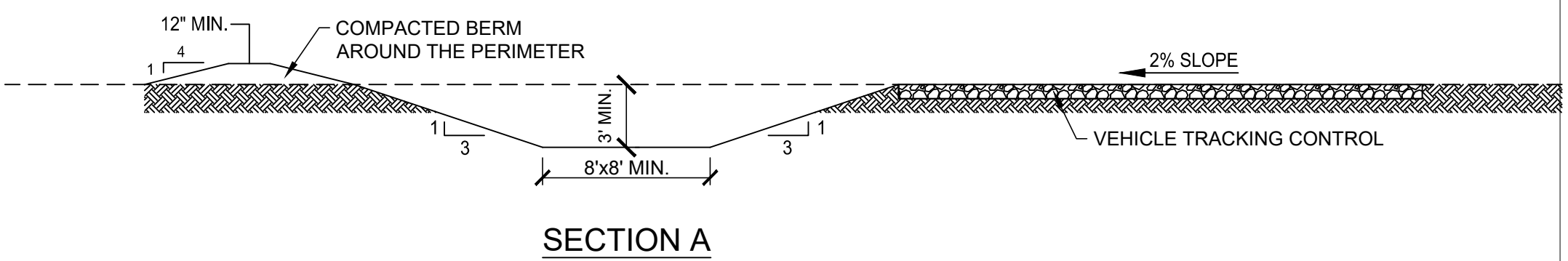
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GUTTERBUDDY SYNTHETIC FIBER CURB INLET & DITCH PAVEMENT FILTER AT 12' LONG SI GEOSOLUTIONS - 6025 LEE HIGHWAY, SUITE 435, CHATTANOOGA, TN 37421 (800) 621-0444 PHONE, (423) 899-7619 FAX - WWW.SIGEOSOLUTIONS.COM

* DANDY BAG SLIPOVER SYNTHETIC FIBER BAG FOR FLAT GRATES AND MOUNTABLE CURBS TO DETAIN SEDIMENT LADEN STORMWATER. MANUFACTURER: TED CATE NICOLON, 365 SOUTH HOLLAND DRIVE PENDERGRASS, GEORGIA 30567 USA OR WWW.TCNICOLON.COM 1(888) 795-0808 PHONE, 1(706) 693-4400 FAX



CONCRETE WASH-OUT AREA PLAN

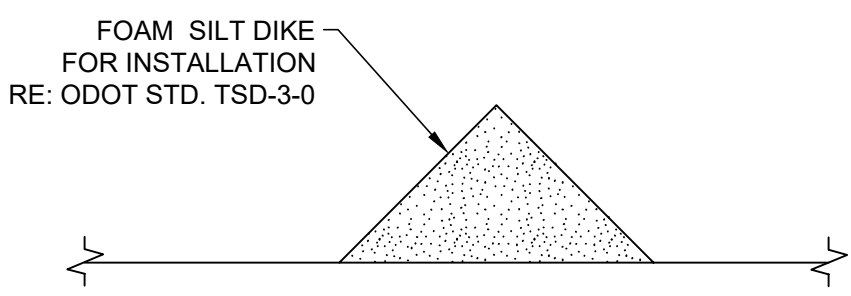


SECTION A

- CONCRETE WASH-OUT AREA INSTALLATION NOTES:**
- DO NOT LOCATE THE CONCRETE WASH-OUT AREA WITHIN 400 FEET OF ANY NATURAL DRAINAGE PATHWAY OR WATER BODY, OR WITHIN 1000 FEET OF ANY WELLS OR DRINKING WATER SOURCES.
 - THE CONCRETE WASH-OUT AREA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
 - CONCRETE WASH-OUT AREA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' BOTTOM, SLOPES LEADING OUT OF THE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
 - THE CONCRETE WASH-OUT PIT SHALL BE LINED WITH EITHER A, 20 MIL THICK IMPERMEABLE SYNTHETIC LINER, OR SIMILAR EQUIVALENT LINERS TO MAKE THE PIT LEAK PROOF.
 - BERM ALONG THE SIDES AND BACK OF THE CONCRETE WASH-OUT AREA SHALL HAVE A MINIMUM HEIGHT OF 1'.
 - VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CONCRETE WASH-OUT AREA.
 - SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CONCRETE WASH-OUT AREA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CONCRETE WASH-OUT AREA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
 - USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
 - STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASH-OUT DEVICES OR A LINED, ABOVE GROUND STORAGE AREA ARE ACCEPTABLE.

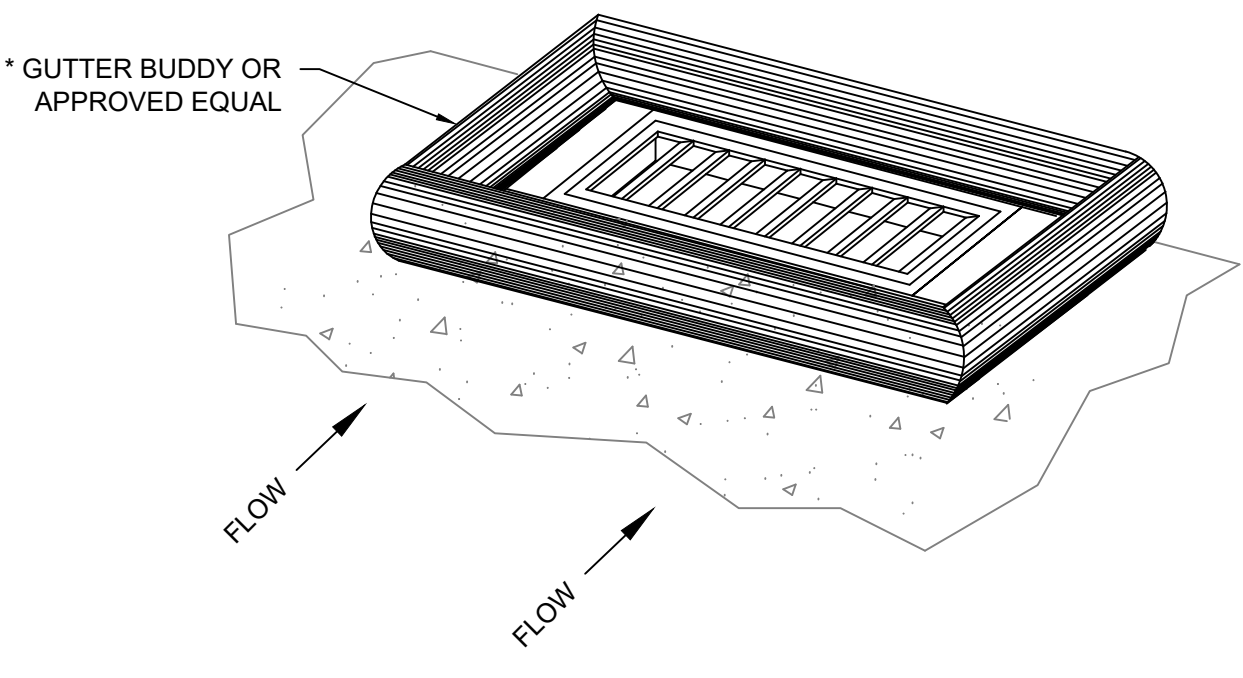
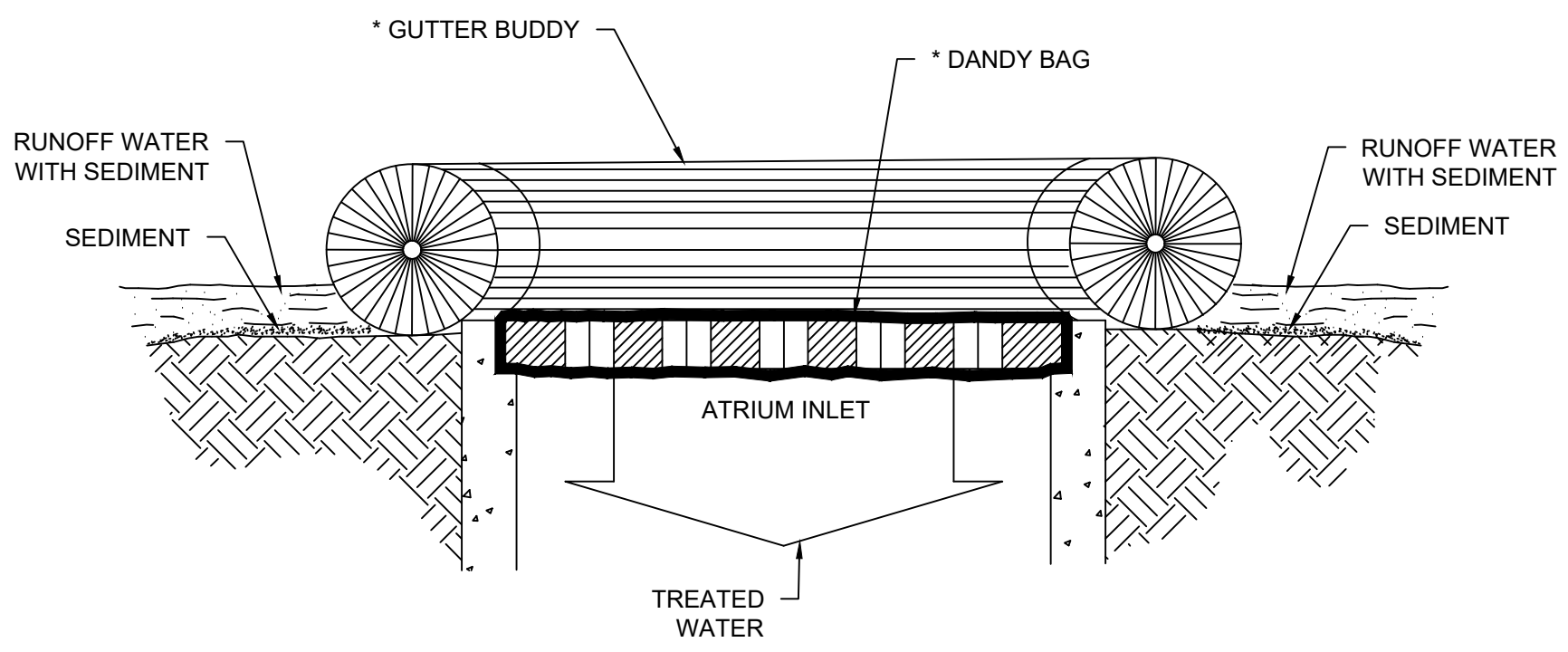
- CONCRETE WASH-OUT AREA MAINTENANCE NOTES:**
- THE CONCRETE WASH-OUT AREA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2 FEET.
 - CONCRETE WASH-OUT WATER, WASTER PIECES OF CONCRETE, AND ALL OTHER DEBRIS IN THE CONCRETE WASH-OUT PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
 - THE CONCRETE WASH-OUT AREA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
 - WHEN THE CONCRETE WASH-OUT AREA IS REMOVED, COVER THE DISTURBED AREA WITH TOPSOIL, SEED, AND MULCH OR OTHERWISE STABILIZED IN AN APPROVED MANNER.

CONCRETE WASH-OUT
SCALE: NTS

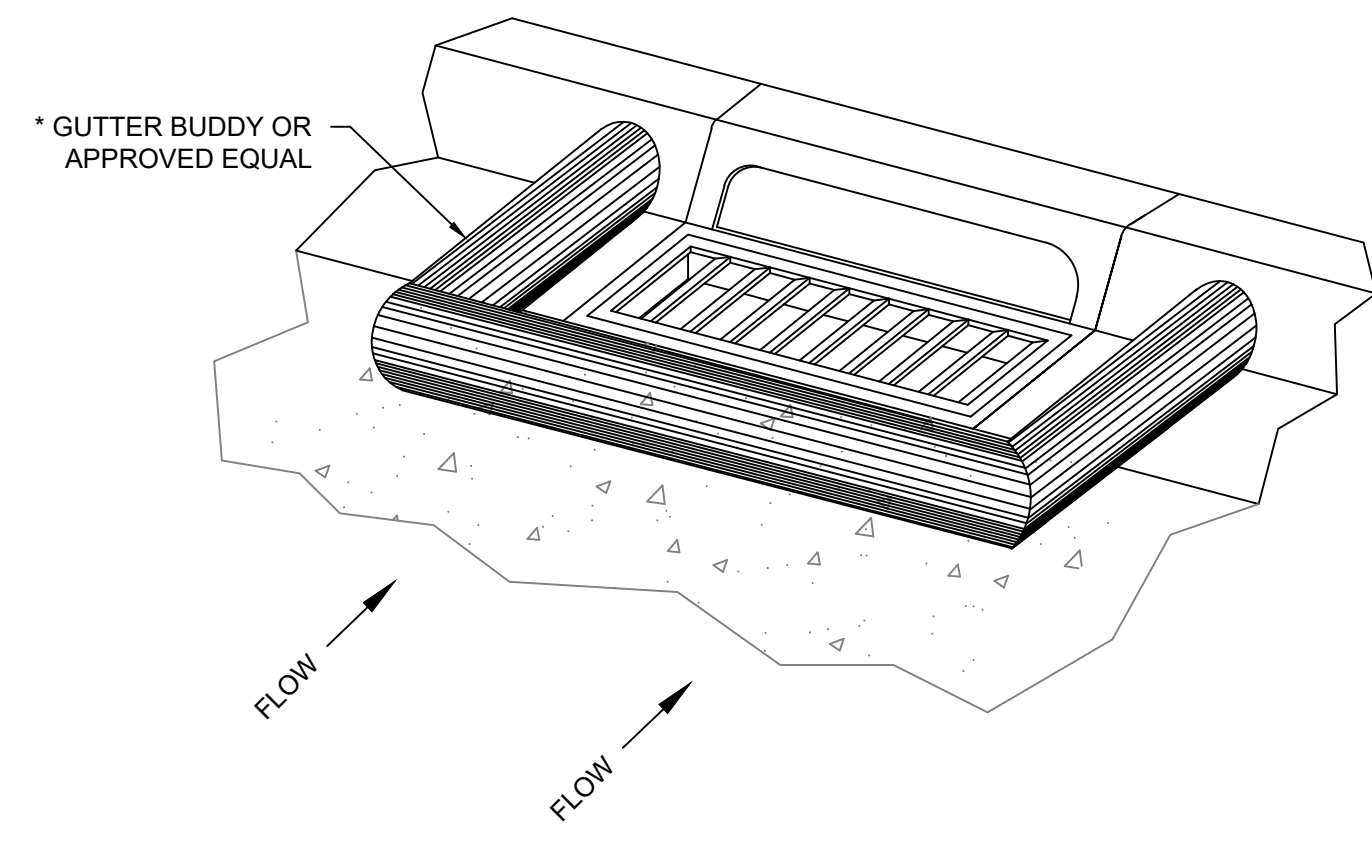


SILT DIKE
SCALE: NTS

SILT FENCE
SCALE: NTS



SEDIMENT INLET FILTER
SCALE: NTS



PRYOR CREEK MENNONITE CHURCH

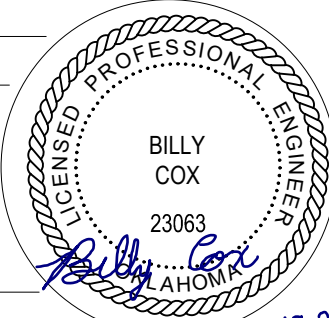
1919 W. 470
PRYOR, OK 74361

REVISIONS

EROSION CONTROL DETAILS

BILLY COX, P.E.
ROUTE 66 ENGINEERING, LLC
CA #8853, DATE 06/30/2025

JOB 2022.28
ISSUE 10/19/2023
DRAWN BY: BD
CHK'D BY: BC



CE501

SCALE

10-19-2023

Attachment C – 2022 OKR10

FOR A COMPLETE COPY OF THE OKR10 CLICK THE FOLLOWING LINK:

<https://www.deq.ok.gov/wp-content/uploads/water-division/OKR10-2022-Final-permit-1.pdf>

Attachment D – Notice of Intent (NOI)

DEQ Form
606-002A
Sept. 27, 2022



**Oklahoma Department of Environmental Quality Notice of Intent (NOI)
for Stormwater Discharges Associated with Construction Activity under
the OPDES Construction General Permit OKR10**

Submission of this NOI constitutes notice that the party identified in Section I of this form intends to be authorized by DEQ for stormwater discharges associated with construction activity on land disturbance equal to or greater than one acre, or less than one acre of total land area that is part of a larger common plan of development or sale in the State of Oklahoma. Becoming a permittee obligates such discharger to comply with the terms and conditions of this permit. To obtain an authorization from DEQ, this form must be complete with all the pertinent information.

All associated fees must be submitted with this NOI. See instructions for completing the NOI on pages 4 and 5 of this form.

NEW APPLICATION AMENDMENT/MODIFICATION RENEWAL Existing Authorization Number: **OKR10**_____

I. Operator Information *For type of entity, select federal, state, private or municipal.*

Operator Name: _____ Phone: _____

Mailing Address: _____ Type of entity: _____

City: _____ State: _____ Zip Code: _____

Operator has operational control over: - Plans and specifications and/or - Day-to-day construction activities

Operator's Point of Contact (Name): _____ Title: _____

Phone: _____ E-mail: _____

II. Site/Project Information *Provide latitude/longitude of the center of the site or start/end of the linear project.*

Site/Project Name: _____

Site/Project Address: _____ SIC: _____

City: _____ County: _____ Zip Code: _____

Site/Project's Point of Contact: _____ Title: _____

Phone: _____ E-mail: _____

Site/Project's Consultant: _____ Title: _____

Phone: _____ E-mail: _____

Description of activity: _____

Latitude: _____ Longitude: _____

Estimated construction start date: _____ Estimated construction end date: _____

Total area of the construction site: _____ acres Estimated area to be disturbed: _____ acres

Current total impervious area: _____ acres Post-construction total impervious area: _____ acres

Post-construction runoff coefficient of the site: _____ Soil and fill material description: _____

Is this site/project part of the common plan of development or sale?

- No - Yes, please provide current authorization number (if applicable): OKR10 _____

III. Notification of Multiple Operators

Are there other operators associated with this site/project?

- No
- Yes: - All operators will be covered under this authorization.
- All, or some, operators will be obtaining a separate authorization and will be documented in the SWP3.
- New owner/operators will be obtaining a separate authorization and will be documented using Form 605-NCO Notification of Change of Ownership (NCO) which will be kept with the SWP3.

IV. Site/Project Discharge Information Use additional sheets of paper if necessary.

Does the site/project discharge stormwater into an MS4? No Yes Name of the MS4 _____

| Name of all Receiving Waterbodies | Is the waterbody impaired? If so, what are its impairments? <input type="checkbox"/> Yes <input type="checkbox"/> No | Is there a TMDL for that impairment? <input type="checkbox"/> Yes <input type="checkbox"/> No |
|-----------------------------------|--|--|
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |

Endangered Species Eligibility

- a. My site/project is not located within any of the corridors of federal and state identified Aquatic Resources of Concern (ARC).
- b. My site/project is located within a corridor of federal and state identified ARC.
- c. If one of the eligibility criteria cannot be met, I may use Addendum D for equivalent sediment controls.
- d. I am required to have an Endangered Species Act Section 7 consultation process.
- e. I am relying on another permittee's certification of eligibility and agree to comply with the conditions of that certification.

V. Stormwater Pollution Prevention Plan (SWP3) Information

Has the SWP3 been prepared and is it available on-site for review? Yes (SWP3 must be developed prior to NOI submittal)
Is the operator registered and in good standing with the Secretary of State of Oklahoma? Yes No
Does your site/project have construction support activities? Yes (asphalt batch plant) Yes (concrete batch plant)
 Other (e.g., equipment storage yards, material storage areas, excavated material disposal areas, borrow areas, etc.) No

Proposed Best Management Practices (BMPs) to control pollution in the stormwater discharges, check all that apply:

- | | | | |
|--|--|--|---|
| <input type="checkbox"/> Construction phased | <input type="checkbox"/> Sediment basin/trap | <input type="checkbox"/> Mulching/seeding/sodding | <input type="checkbox"/> Vegetated buffer |
| <input type="checkbox"/> Vehicle/concrete wash-out | <input type="checkbox"/> Site inspection | <input type="checkbox"/> Diversion dikes | <input type="checkbox"/> Inlet protection |
| <input type="checkbox"/> Construction entrances | <input type="checkbox"/> Silt fence | <input type="checkbox"/> Waste management | <input type="checkbox"/> Stream crossings |
| <input type="checkbox"/> Spill prevention/cleanup | <input type="checkbox"/> Employee training | <input type="checkbox"/> Compost blanket/geotextiles | <input type="checkbox"/> Check dams |
| <input type="checkbox"/> Construction sequencing | <input type="checkbox"/> Riprap | <input type="checkbox"/> Gradient terraces | <input type="checkbox"/> Silt dikes |

Other BMPs: _____

Post-construction Best Management Practices for construction activities, check all that apply:

- | | | | |
|---|--|---|--|
| <input type="checkbox"/> Narrow street/turnaround | <input type="checkbox"/> Wet/dry pond | <input type="checkbox"/> Protected natural features | <input type="checkbox"/> Vegetated filter strips |
| <input type="checkbox"/> Eliminated curbs & gutters | <input type="checkbox"/> Wetland | <input type="checkbox"/> Infiltration basin/trench | <input type="checkbox"/> Porous pavement |
| <input type="checkbox"/> Bio-retention/rain gardens | <input type="checkbox"/> Riparian | <input type="checkbox"/> Redevelopment/retrofit | <input type="checkbox"/> Grassed swales |
| <input type="checkbox"/> Low impact development | <input type="checkbox"/> Green designs | <input type="checkbox"/> Conservation easements | <input type="checkbox"/> Retrofit |

Other BMPs: _____

VI. Required Attachments

- A legible site map showing your facility location and boundaries, including support activities, and all waters of the state within one mile of the site.
- Application fee (\$100.00) and first-year permit fee (\$347.71) or Fees have already been paid

VII. 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 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 have no personal knowledge that the information submitted is other than 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."

Print Name: _____ Title: _____

E-mail: _____ Phone: _____

Signature: _____ Date: _____

For DEQ use only: Assigned Authorization Number: OKR10_____



Instructions for Completing NOI Form 606-002A for Stormwater Discharges Associated with Construction Activities on Sites of One or more acres under the OPDES Construction General Permit OKR10

Who Must File an NOI Form

Under Section 402(p) of the Clean Water Act and regulation at 40 C.F.R. § 122.26, adopted and incorporated by reference in Oklahoma Administrative Code (OAC) 252:606-1-3(b)(3)(L), stormwater discharges associated with construction activities are prohibited to waters of the state unless authorized under an Oklahoma Pollutant Discharge Elimination System (OPDES) permit from the Oklahoma Department of Environmental Quality (DEQ). Operators of construction sites where one or more acres are disturbed and smaller sites that are part of a larger common plan of development or sale where there is a cumulative disturbance of at least one acre must obtain coverage under the OPDES Construction General Permit (CGP) OKR10 by submitting a completed NOI to DEQ. If you have questions regarding permit coverage under the Stormwater Program, you may call the Stormwater Unit of Environmental Complaints and Local Services (ECLS) of DEQ at (405) 702-6100 or email to ecsls-stormwaterpermitting@deq.ok.gov.

Completing the NOI Form

To complete an NOI form, type or print in all the appropriate places of the form. Check the appropriate box whether you are filing for a new application, amendment/modification, or renewal of your current permit authorization. Enter your current authorization number if you are applying for permit amendment/modification or renewal.

Section I. Operator Information

Provide the legal name, mailing address and telephone number of the company/firm, public organization, or any other entity that either individually or together meets the following two criteria: (1) have operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications (e.g., in most cases this is the owner of the site); and/or (2) have the day-to-day operational control of those activities at the site necessary to ensure compliance with Stormwater Pollution Prevention Plan (SWP3) and/or other permit conditions (i.e., they are authorized to direct workers at a site to carry out activities required by the permit; in most cases this the general contractor of the project). Also enter the name, title, phone number, and email address for the operator's point of contact.

Section II. Site/Project Information

Provide the site/project's official or legal name, phone number and street address or general location information (e.g., Intersection of State Highways 61 and 34). Also provide the name, title, phone number, and email address for the site/project's point of contact.

Indicate the purpose of the project (e.g., residential subdivision, commercial building, road and/or bridge, wind farm, etc.).

Provide latitude and longitude of the construction project or site (at the center of the site). Latitude and Longitude can be obtained online at DEQ and USGS's websites or other mapping tools.

Provide the estimated starting and ending dates of the construction on site or project. The date must be provided in MM-DD-YYYY where MM is the month, DD is the date and YYYY is the year. Provide total area of construction site, and estimated area to be disturbed in acres. Provide total impervious area before construction starts (pre-construction) and total impervious area after construction completed (post-construction) in acres.

Provide post-construction runoff coefficient of the site after the construction addressed in the NOI is completed. Operator may use recommended runoff coefficients in Addendum E of the OKR10 permit. Average coefficients for composite areas may be calculated on an area weighted basis from $C = \frac{\sum C_i A_i}{\sum A_i}$, where C_i is the coefficient applicable to the area A_i .

Describe the nature of fill material and existing soil data describing soils (e.g., coarse-grained soils: gravels, sands, or fine-grained soils: silts and clays, and highly organic soils, etc.). Operators may use soil classification chart in Attachment 1 of Addendum D to determine the types of the soils on the site. Indicate whether this is the site of the common plan of development or sale. Enter the current OKR10 authorization number if it is part of a common plan of development or sale.

Complete the section on Endangered Species Eligibility by checking the appropriate box: (a) the site/project is not located within any of the corridors of the federal or state identified Aquatic Resources of Concern (ARC) and further investigation is not required; or (b) the site/project is located within a corridor of a federal or state identified ARC. Operators must provide and implement measures to protect the endangered or threatened species or their critical habitat; or (c) If one of those eligibility criteria under Part 2.5.B.3.b, d, or e cannot be met, operator may use Addendum D to evaluate alternatives of buffer requirements and select equivalent sediment controls or contact DEQ for further consultation; or (d) operator's federally approved construction activities are authorized by the appropriate federal or state agency and that authorization addresses the Endangered Species Act Section 7 consultation for the operator's stormwater discharge or stormwater-related activities. Operator selecting option d must include documentation from the United States Fish and Wildlife Service (USFWS) or a qualified biologist that demonstrates Section 7 consultation has been completed. The SWP3 must include any conditions resulting from that consultation; or (e) operator's stormwater discharges and stormwater-related activities were already addressed in another operator's certification of eligibility that included the proposed site/project area. Operator agrees to comply with any conditions attached to that certification.

Section III. Notification of Multiple Operators

Indicate whether all operators on the site will be covered under this authorization or have obtained/will obtain their own authorizations. If operators will be obtaining their own authorizations, indicate whether they will be documented in the SWP3 or, for new owner/operators, in Form 605-NCO which shall be kept with the SWP3.

Section IV. Site/Project Discharge Information

Indicate whether the site/project discharges stormwater to a Municipal Separate Storm Sewer System (MS4). If yes, enter the name of the MS4. A MS4 is defined as a conveyance or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that are owned or operated by a state, city, town, borough, parish, district, association, or other public body which is designed or used for collecting or conveying stormwater.

Identify all the receiving waterbodies from the sites that discharge stormwater, including names of those waterbodies. Check appropriate box if the receiving waterbody is listed in DEQ 303(d) impaired waterbodies or drains to watershed with approved Total Maximum Daily Loads (TMDL) report. Identify the pollutant(s) for which the waterbody is impaired.

For a current list of MS4s in the State of Oklahoma, review the 2021 OKR04 Fact Sheet located at <https://www.deq.ok.gov/stormwater-permitting/okr04-municipal-stormwater>.



Instructions for Completing NOI Form 606-002A for Stormwater Discharges Associated with Construction Activity of One or More Acres under the OPDES Construction General Permit OKR10

Section V. Stormwater Pollution Prevention Plan (SWP3) Information

All sites/projects eligible for coverage under the CGP OKR10 permit must prepare a SWP3 prior to submitting the NOI to DEQ. The SWP3 is intended to document the selection, design, and installation of different control measures to meet the permit's non-numeric technology based effluent limitations, if applicable, numeric effluent limitations, and water quality-based effluent limitations contained in Part 3 of the Permit as well as to document compliance with other permit requirements. The SWP3 must be prepared by a qualified person in accordance with good engineering practices and to industry standards. The SWP3 is considered a "living document" and must be maintained/updated regularly to accurately reflect current site conditions. Check the appropriate box if the SWP3 has been prepared and is available on site. Check the appropriate box if the operator has registered for construction activities with the Secretary of State of Oklahoma.

List all the proposed Best Management Practices (BMPs) for construction activities. Operator must describe the proposed measures, including BMPs to control pollutants in stormwater discharges during construction. Specify any BMPs to be used if additional erosion and sediment controls are required by local government or due to specific site conditions.

List all the post-construction proposed Best Management Practices (BMPs) for construction activities. Operator must describe the proposed measures to be used to control pollutants in stormwater discharges that will occur after construction operations have been completed, including any BMPs to be used if additional erosion and sediment controls are required by local government or due to specific site conditions.

Section VI. Required Attachments

Submit the following with the NOI:

- A legible site map showing your facility location and boundaries, including support activities, and all waters of the state within one mile of the site, and
- The application fee and permit fee or indicate if fees have already been paid
 - Renewal NOI - \$100 application fee,
 - New NOI - \$447.71 (\$100 application fee and \$347.71 annual permit fee).

Section VII. Certification

Federal regulations require all permit applications and report shall be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) 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 (ii) the manager of one or more

manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental law and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents had been assigned or delegated to the manager in accordance with corporate procedures;

For a limited liability company (LLC): by a member, managing or otherwise;

For a partnership: by a general partner;

For a sole proprietorship: by the proprietor (owner); or

For a municipality, state, federal, or other public facility: by either a principal executive or ranking elected official.

Modifying an Existing NOI

After issuance of an authorization, an NOI modification may be submitted by a permittee if circumstances change (e.g., the area to be disturbed has increased from 20 acres to 40 acres). However, the modification of an NOI cannot be used if the area to be disturbed has decreased (e.g., the area to be disturbed has been changed from 40 acres to 20 acres). The amended NOI shall include the operator's assigned authorization number and request a change.

The original authorization number will be retained. DEQ will provide an acknowledgement by either mail or email that the amended NOI has been received and processed. Permittees must update their SWP3 to reflect the modification.

Submitting Your NOI Form and Required Attachments

The completed NOI form and all required attachments must be submitted to the following address, fax, or email:

Stormwater Unit of ECLS
Oklahoma DEQ
P.O. Box 1677, Oklahoma City, OK 73101-1677

Fax to (405)702-6226

Email to ecls-stormwaterpermitting@deq.ok.gov

Once DEQ's online NOI submission tool is made available, NOIs may also be completed and submitted electronically using that tool.

Attachment E – Inspection Report

Field Inspection Report

Inspection Date: _____

| General Information (OKR10 Part 4.5.13.E) | |
|---|------------------|
| Name of Project: | DEQ Permit No.: |
| Inspector Name: | Inspector Title: |
| Inspector's Contact Information: | |
| Inspection Location: (if multiple inspections are required) | |
| Inspection Frequency: | |
| Standard Frequency: <input type="checkbox"/> Weekly <input type="checkbox"/> Every 14 days and within 24 hours of a 0.50" rain Reduced Frequency: <input type="checkbox"/> Once per month (for stabilized areas) | |
| Weather at the time of this inspection: _____ | |
| Was this inspection after a 0.50" storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No, Total rainfall that triggered the inspection (in inches): | |
| Are there any discharges at the time of inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No | |

List all areas where soil stabilization is required to begin because construction work in that area has permanently stopped or temporarily stopped and all areas where stabilization has been implemented:

| Stabilization of Exposed Soil (OKR10 Part 4.5.13.D) | | | |
|---|----------------------|--|-------|
| Stabilization Area | Stabilization Method | Have You Initiated Stabilization? | Notes |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide date: | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide date: | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide date: | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide date: | |
| | | <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, provide date: | |

(Notes: For each area where stabilization has been initiated, describe the progress that has been made, and what additional actions are necessary to complete stabilization. Note the effectiveness of stabilization in preventing erosion. If stabilization has been initiated but not completed, make a note of the date it is to be completed. If stabilization has been completed, make a note of the date it was completed. If stabilization has not yet been initiated, make a note of the date it is to be initiated, and the date it is to be completed.)

Provide a list/description of all structural and non-structural BMPs that your SWP3 indicates will be installed and implemented at your site. You must separately identify the **location** of each control. During Inspection, identify whether they are **installed and operating properly**, or any **corrective action** is necessary. Provide the **date** on which the condition that triggered the need for maintenance or corrective action was first identified. In the notes section you must describe the **specifics about the problem** you observed.

Condition and Effectiveness of BMP Controls & Pollution Prevention (OKR10 Part 3.3, 4 & 5)

| SI. No. | BMP Description & Location | Is BMP Installed & Operating Properly? | Corrective Action (CA) Required? | Date on Which Maintenance or CA First Identified? | Notes |
|---------|---|--|--|---|-------|
| 1. | Silt Fence/Fiber Rolls/Berm/Wattles Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 2. | Silt Dykes/Check Dam/Rock Dams Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 3. | Stabilized Construction Entrance /Exit Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 4. | Inlet Protection on all storm drain Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 5. | Sand Bag Barrier/Gravel Bag Barrier Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 6. | Vegetated Swales Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 7. | Compost Blankets/Geotextiles & Mats Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 8. | Vegetative Buffers Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 9. | Sediment Trap/ Sediment Basin Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 10. | Concrete Washout Pit Location: | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 11. | Dust Control/Prevention | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 12. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 13. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 14. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 15. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |
| 16. | | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | | |

(Note: The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions – whether a required stormwater control was never installed, or was installed incorrectly, or not installed in accordance with the requirements of OKR10)

| Pollution Prevention and Waste Management (OKR10 Part 3.3.3) | | |
|---|---|------------------|
| Items of Inspection | Response & Reason | Action(s) Needed |
| Is the site free of floatables, litter, and construction debris? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Are material storage and handling areas, including fueling areas, free of spills and leaks? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Are spill kits available where spills and leaks are likely to occur? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Are dumpsters and waste receptacles covered when not in use? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Has preventative maintenance been conducted on equipment and machinery? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Are material stockpiles sufficiently contained? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Has there been any sediment tracked-out from the site onto the surface of paved street, sidewalks or other paved areas outside of the site? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |
| Is the project free from visible erosion and/or sedimentation? | <input type="checkbox"/> Yes <input type="checkbox"/> No If no, reason: | |

Complete the following section if a discharge is occurring at the time of the inspection:

| Description of Discharges (OKR10 Part 4.5.13.D.2.f) | |
|--|--|
| Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? <input type="checkbox"/> Yes <input type="checkbox"/> NO, If yes, provide the following information for each point of discharge: | |
| Specify Discharge Location | Observations (Visual Quality of the Discharge) |
| 1. | Describe the discharge (color, odor, floating, settled/suspended solids, foam, & oil sheen): Are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No, If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: |
| 2. | Describe the discharge (color, odor, floating, settled/suspended solids, foam, & oil sheen): Are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No, If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: |

Contractor or Subcontractor Certification and Signature:

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.

Signature: _____

Date: _____

Print Name: _____

Affiliation: _____

Attachment F – Corrective Action Report

Corrective Action Report Form

DEQ Authorization No. OKR10_____

You are only required to fill out this form if any of the corrective action triggering conditions occurs on your site. Routine maintenance and repairs are generally not considered to be a corrective action triggering condition.

| Section A – Initial Report (Part 4.5.15.C.1 of OKR10) (Complete this section <u>within 24 hours</u> of discovering the condition that triggered corrective action) | |
|---|---|
| Name of Project: | Today's Date: |
| Date Problem First Discovered: | Time Problem First Discovered: |
| Name & Contact Information of the Individual: | |
| What site conditions triggered the requirement to conduct corrective action <i>(check the box that applies)</i> : <input type="checkbox"/> A required stormwater control was never installed or was installed incorrectly, or not in accordance with the corresponding OKR10 permit requirement <input type="checkbox"/> A stormwater control is not effective enough for the discharge to meet applicable water quality standards <input type="checkbox"/> A prohibited discharge (OKR10 Parts 3.1 and 3.3.3.A) is occurring or has occurred. <input type="checkbox"/> DEQ requires corrective action as a result of permit violations found during an DEQ inspection | |
| Provide a description of the problem: | |
| Deadline for completing corrective action: | <i>no more than 7 calendar days after the date you discovered the problem</i> |

| Section B – Corrective Action Progress (Part 4.5.15.C.2 of OKR10) (Complete this section <u>no later than 7 calendar days</u> after discovering the condition that triggered corrective action) | | | |
|---|---|--|-------|
| Section B.1 – Why the Problem Occurred | | | |
| Cause(s) of Problem | How It Was Determined & Date of Determining the Cause | | |
| 1. | 1. | | |
| 2. | 2. | | |
| Section B.2 – Stormwater Control Modifications to be Implemented to Correct the Problem | | | |
| List of Stormwater Control Modification(s) Needed to Correct Problem | Date of Completion | SWP3 Update Necessary? | Notes |
| 1. | | <input type="checkbox"/> Yes <input type="checkbox"/> No, If yes, provide date SWPPP modified: | |
| 2. | | <input type="checkbox"/> Yes <input type="checkbox"/> No, If yes, provide date SWPPP modified: | |

Section C – Certification and Signature by Permittee

"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."

Signature of Permittee or Duly Authorized Representative: _____ **Date:** _____

Printed Name and Title: _____

Attachment G – Employee Training Report

SWP3 Employee Training Log

Facility Name: _____ DEQ Authorization No. OKR05 _____

Instructor's Name: _____ Instructor's Title: _____

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- | | |
|---|--|
| <input type="checkbox"/> Overview of SWP3 | <input type="checkbox"/> Minimize Overall Exposure to Stormwater |
| <input type="checkbox"/> Controls Measures/BMPs Design & Installation | <input type="checkbox"/> Good Housekeeping |
| <input type="checkbox"/> Controls Measures/BMPs Repair & Maintenance | <input type="checkbox"/> Inspections and Corrective Actions |
| <input type="checkbox"/> Spill Prevention and Response | <input type="checkbox"/> Emergency Procedures |

Specific Training Objective: _____

Attendee Roster: *(attach additional pages as necessary)*

| No. | Name of Attendee | Signature of the Attendees | Date |
|-----|------------------|----------------------------|------|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |
| 10 | | | |
| 11 | | | |
| 12 | | | |

Attachment H – SWP3 Modification Log

SWP3 Modification Log

| No. | Description of the Modification | Date of Modification | Modification Prepared by [Name(s) and Title] | Signature by Designated Corporate Official |
|------------|--|-----------------------------|--|---|
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| 6. | | | | |
| 7. | | | | |
| 8. | | | | |
| | | | | |
| | | | | |

Attachment I – Site Stabilization Log

Grading and Stabilization Activities Log

| Date Grading Initiated | Description of Grading Activity | Description of Stabilization Measure and Location | Date Grading Activity Ceased (Temporary or Permanent) | Date When Stabilization Initiated |
|------------------------|---------------------------------|---|--|-----------------------------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Attachment J – Quarterly Visual Monitoring Report

Quarterly Visual Monitoring Report

(Complete a separate form for each outfall you assess)

| | | | |
|--|---|---|--|
| Facility Name: | | DEQ Authorization No. | |
| Outfall Id.: | Substantially Identical Outfall? <input type="checkbox"/> No <input type="checkbox"/> Yes <i>(identify substantially identical outfalls)</i> | | |
| Date & Time Discharge Began: | Date & Time Sample Collected: | Date & Time Sample Examined: | |
| Substitute Sample? <input type="checkbox"/> No <input type="checkbox"/> Yes <i>(identify quarter/year when sample was originally scheduled to be collected)</i> | | | |
| Person's Name/Title collecting sample: | | | |
| Person's Name/Title examining sample: | | | |
| Nature of Discharge: <input type="checkbox"/> Rainfall, if rainfall: Rainfall Amount inches <input type="checkbox"/> Snowmelt | | | |

Parameters & Observation Results

| Parameter | Method | Results |
|---|---|--|
| Color | Visual | <input type="checkbox"/> Clear <input type="checkbox"/> Green <input type="checkbox"/> Yellow <input type="checkbox"/> Brown <input type="checkbox"/> Red <input type="checkbox"/> Black <input type="checkbox"/> Blue <input type="checkbox"/> Milky <input type="checkbox"/> Other (Describe) _____ |
| Odor | Smell | <input type="checkbox"/> None <input type="checkbox"/> Musky <input type="checkbox"/> Earthy <input type="checkbox"/> Rotten Eggs <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other (Describe) _____ |
| Clarity or Turbidity | Visual <i>(try to see through clear container)</i> | <input type="checkbox"/> Can't see through bottle, <input type="checkbox"/> Can see through but can't read newsprint, <input type="checkbox"/> Can see through and read newsprint, <input type="checkbox"/> Clear, but not as clear as bottled water, <input type="checkbox"/> As clear as bottled water |
| Floating Solids | Visual <i>(top of water in container)</i> | <input type="checkbox"/> Yes (Describe) _____ <input type="checkbox"/> No |
| Settled Solids | Visual <i>(bottom of container)</i> | <input type="checkbox"/> ____ Tablespoons, or <input type="checkbox"/> ____ Cups of solids on bottom after 24-hr. |
| Suspended Solids | Visual <i>(look through container)</i> | Describe Observations. _____ _____ |
| Foam | Visual | <input type="checkbox"/> No <input type="checkbox"/> Yes, if yes, Thickness _____ Color _____ |
| Oil Sheen | Visual | <input type="checkbox"/> No <input type="checkbox"/> Yes, if yes, Color _____ Extent _____ |
| Other Obvious Indicators of Stormwater Pollution | Indicate what you observed | Describe: _____ _____ |
| Probable Sources of any Observed Stormwater Contamination: _____ _____ | | |

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.

Name: _____ Title: _____

Signature: _____ Date: _____

Attachment K – Annual Site Evaluation Report

DEQ Form
606-005
July 5, 2017



Oklahoma Department of Environmental Quality
Annual Comprehensive Site Compliance Evaluation Report (ACSCER)
for Stormwater Discharges Associated with Industrial Activity
under the OPDES Multi-Sector General Permit OKR05

Submission of this ACSCER form is required for all authorized industrial facilities.

All requested information must be provided on this form. See instructions on Page 5 of this form.

DEQ Authorization Number: OKR05 _____

Part A: Operator Information and Certification

Section I. Operator Information

Operator Name: _____

Mailing Address: _____ City: _____

County: _____ State: _____ Zip Code: _____

Operator's Point of Contact : _____ Title: _____

Phone: _____ Email: _____

Section II. Facility Information

Facility Name: _____ Phone: _____

Address: _____

City: _____ County: _____ State: OK Zip Code: _____

Latitude: _____ Longitude: _____

Facility's Point of Contact : _____ Title: _____

Phone: _____ E-mail: _____

Section III. Certification

I certify under penalty of law that I have read and understand the requirements for filing this Annual Comprehensive Site Compliance Evaluation Report, which is to be filed by March 1 of each year beginning in 2018.

This report is also to be retained as part of the Stormwater Pollution Prevention Plan (SWP3) for at least 3 years from the date permit coverage expires or is terminated and will be made available to any State or Federal Inspector visiting this facility. All records of actions taken in accordance with 4.10 of this Permit as part of the SWP3 will be retained for at least 3 years from the date permit coverage expires or is terminated. 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 upon my inquiry of the person or persons who manage the system, or those persons directly involved in 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.

Print Name: _____ Title: _____

Signature: _____ Date: _____

Part B: Annual Comprehensive Site Compliance Evaluation

Reporting Period: _____

1. Number of routine facility inspections you performed during the reporting period: _____

2. Dates of the Inspection performed: _____

3. Did any of your routine facility inspections find that one or more of your BMPs was not effective in controlling the pollutant source for which it was designed?

Yes No All BMPs were effective

4. Were all BMPs you indicated you would be using in your SWP3 (Part 4.2.4), including good housekeeping practices, actually being implemented at the time of the Annual Comprehensive Site Compliance Evaluation?

Yes No

5. If you found one or more ineffective BMPs, have they all been replaced with an alternative or modified BMP?

Yes No All BMPs were being effective

6. Were there additional BMPs needed to address any conditions requiring corrective action?

Yes No

7. If one or more BMPs were not being implemented, were corrective actions taken after the *first* inspection to eliminate the problem?

Yes No All BMPs were being implemented

8. Was/were the same failure(s) to implement a BMP deficiency(ies) noted in more than one inspection?

Yes No No deficiencies noted in any inspection

9. Document any deficiencies identified and any corrective actions implemented (see Part 6 of OKR05) to remove the original violation below. Use additional sheets if necessary.

| Date | Deficiencies | Corrected | | Date of Correction |
|-------|--------------|------------------------------|-----------------------------|--------------------|
| _____ | _____ | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ |
| _____ | _____ | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ |
| _____ | _____ | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ |
| _____ | _____ | <input type="checkbox"/> Yes | <input type="checkbox"/> No | _____ |

| | |
|-----|---|
| 10. | What must you do to correct the deficiencies that remain uncorrected? |
| 11. | <p>Did any conditions require SWP3 review and revision to eliminate design, selection, installation, and/or implementation problem during the past year? If yes, describe the conditions in brief:</p> <p><input type="checkbox"/> No <input type="checkbox"/> Yes _____</p> |
| 12. | <p>At any time during the reporting period, did you discover any previously unidentified <i>unauthorized</i> non-stormwater discharges from your facility or previously unidentified pollutants in the existing discharges?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| 13. | <p>Have all unauthorized non-stormwater discharges (including any discovered in previous years) been eliminated or permitted?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Permit applied for <input type="checkbox"/> No unauthorized discharges</p> |
| 14. | <p>Have any significant spills or leaks occurred at your facility during the reporting period?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| 15. | <p>If any significant spills or leaks occurred, did they result in either a dry weather discharge or an actual discharge of the spilled or leaked material commingled with stormwater (as opposed to the spilled material being washed away by stormwater?)</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| 16. | <p>If any significant spills or leaks occurred, did they result in more than the minimum amounts of material being discharged in stormwater? Base your answer on your knowledge of the material you spilled or that leaked. The minimum amounts could vary with the nature (toxicity, oxygen demand, pH, etc.) of the spilled or leaked material from amounts left after normal <i>sweeping</i> type cleanup to the point at which even trace amounts left after cleanup could cause an environmental problem.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No spills or leaks occurred</p> |
| 17. | <p>Have all known spills or leaks been cleaned up or otherwise prevented from contaminating stormwater that would be discharged under the authority of this permit?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No spills or leaks occurred</p> |
| 18. | <p>How many times did you visually monitor all of your stormwater discharges at all the outfalls during the reporting year (count only those done in accordance with the procedures at Part 5.1 - Quarterly Visual Monitoring)?</p> <p>_____</p> |
| 19. | <p>Would the results of your visual monitoring indicate that there are pollutants in your stormwater discharges that are not adequately controlled by your current BMPs?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |

| 20. | <p>If the results of your visual monitoring indicated a potential problem, was it due to one or more of the following?</p> <p><input type="checkbox"/> New pollutant source (including exposure of previously unexposed material)</p> <p><input type="checkbox"/> Failure to implement or maintain an existing BMP</p> <p><input type="checkbox"/> Less than expected performance from a BMP</p> <p><input type="checkbox"/> No BMP was selected to deal with that problem</p> <p><input type="checkbox"/> N/A (No problems identified)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|--|-------------------------|-------|------------|--------------|--|------|---------------------|-------------------------|-------|------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 21. | <p>If your visual monitoring indicated a potential problem, what have you done to resolve the problem?</p> <p><input type="checkbox"/> Eliminated exposure or pollutant source <input type="checkbox"/> Modified existing BMPs</p> <p><input type="checkbox"/> Added a new BMP <input type="checkbox"/> Plan to address problem by end of current reporting year</p> <p><input type="checkbox"/> Nothing planned <input type="checkbox"/> N/A (No problems identified)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | <p>Did any monitoring results exceed a numeric effluent limitation contained in Part 7.2.2 and Part 11 during the past discharge monitoring period?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | <p>If your answer to the previous question was Yes, list the dates, name of the pollutants and the test results that exceeded numeric effluent limitations. Use additional sheets if necessary.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width:15%;">Date</th> <th style="width:20%;">Pollutants</th> <th style="width:20%;">Test Results</th> <th style="width:15%;">Date</th> <th style="width:20%;">Pollutants</th> <th style="width:10%;">Test Results</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table> | | | | | | Date | Pollutants | Test Results | Date | Pollutants | Test Results | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| Date | Pollutants | Test Results | Date | Pollutants | Test Results | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24. | <p>Were there any incidents of noncompliance in the past year or any non-compliance that is currently ongoing?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Compliant with the Permit</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. | <p>Were there any required revisions to the SWP3 resulting from the inspection and/or monitoring?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. | <p>If your answer to the previous question was Yes, list the dates, reason for revision and brief description of the revision. Use additional sheets if necessary.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width:15%;">Date</th> <th style="width:35%;">Reason for Revision</th> <th style="width:50%;">Description of Revision</th> </tr> </thead> <tbody> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> <tr> <td>_____</td> <td>_____</td> <td>_____</td> </tr> </tbody> </table> | | | | | | Date | Reason for Revision | Description of Revision | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | _____ | | | | | | | | | | | | |
| Date | Reason for Revision | Description of Revision | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _____ | _____ | _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Instructions for Completing the Annual Comprehensive Site Compliance Evaluation Report (ACSCER) Form 606-005 for Stormwater Discharges Associated with Industrial Activity

When to File an ACSCER Form

Permittees who are presently covered under OPDES MSGP OKR05 for stormwater discharges associated with industrial activity must submit an ACSCER form to DEQ by March 1 of each year beginning in 2018. If your authorization becomes effective less than one month from the end of the yearly monitoring period, your first monitoring period starts with the next annual monitoring period.

Completing the Form

To complete this form, type or print in the appropriate areas only.

Permit Information

Enter the existing DEQ Authorization assigned to the facility identified in Section I for stormwater discharges from industrial activity.

Part A: Operator Information and Certification

Section I. Operator Information

Provide the legal name of the person, firm, public organization or any other commercial entity that owns or operates the facility described in this application. The name of the operator may or may not be the same name as the facility. An operator is the legal entity that controls the facility's operation, rather than the plant or site manager. Provide complete mailing address including city, county, state, and ZIP code. Include operator's point of contact name, title, telephone number and a valid email address.

Section II. Facility Information

Enter the facility's official or legal name and complete physical address including city, county, state, and ZIP code. Include facility's point of contact name, telephone number and email address. Indicate the latitude and longitude of the facility to the nearest 15 seconds. . Include facility's point of contact name, title, telephone number and a valid email address.

Section III. Certification

The ACSCER form must be signed by a responsible party - **for corporation:** by a responsible corporate official, such as: president, vice president, secretary, and treasurer either for a corporation or company; **for a partnership or sole proprietorship:** by a general partner or the proprietor, respectively. (Note: **for limited liability company (LLC):** by one of its owners, called managing members/partners of the company); **for a municipality, state, Federal, or other public facility:** by either a principal executive or ranking elected official.

Part B: Annual Comprehensive Site Compliance Evaluation Report

1. A summary of your past year's routine facility inspection documentation such as control measures' maintenance, repair and/or replacement, any additional control measures needed to comply with the permits;
2. The location(s) of discharges of pollutants from the site, evidence of pollutants discharging to receiving waters at all facility outfall(s), and the condition of and around the outfall(s);
3. A summary of your past year's corrective action documentation;
4. A summary of your past year's quarterly visual monitoring documentation;
5. A summary of your past year's effluent limitation violations if applicable; and
6. Describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the Permit.

Note: Please see Part 8.3 of OKR05 for detailed scope of Annual Comprehensive Site Compliance Evaluation.

**Completed ACSCER form must be submitted to DEQ by
March 1 of each year beginning in 2018.**

If you need any assistance or have any question, contact the Stormwater Unit of Environmental Complaints and Local Services (ECLS) of DEQ at (405) 702-6100 or email to: ecls-stormwaterpermitting@deq.ok.gov

Where to file an ACSCER Form

Completed ACSCER form must be submitted to the following address:

Stormwater Unit of ECLS
Oklahoma DEQ
P.O. Box 1677
Oklahoma City, OK 73101-1677

or fax it to: (405)702-6226

or email it to: ecls-stormwaterpermitting@deq.ok.gov

Commencing December 21, 2020, ACSCERs must be electronically submitted to DEQ. Instructions on how to access and use the appropriate electronic reporting tool will be made available on DEQ's website prior to the December 21, 2020 compliance deadline.

Attachment L –Other Documentation

National Flood Hazard Layer FIRMMette



95°17'45"W 36°20'23"N



Legend

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

| | | |
|------------------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS | | Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i> |
| | | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i> |
| | | Regulatory Floodway |
| OTHER AREAS OF FLOOD HAZARD | | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
| | | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i> |
| | | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i> |
| | | Area with Flood Risk due to Levee <i>Zone D</i> |
| OTHER AREAS | | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i> |
| | | Effective LOMRs |
| GENERAL STRUCTURES | | Area of Undetermined Flood Hazard <i>Zone D</i> |
| | | Channel, Culvert, or Storm Sewer |
| | | Levee, Dike, or Floodwall |
| OTHER FEATURES | | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation 17.5 |
| | | Coastal Transect |
| | | Base Flood Elevation Line (BFE) |
| | | Limit of Study |
| | | Jurisdiction Boundary |
| MAP PANELS | | Coastal Transect Baseline |
| | | Profile Baseline |
| | | Hydrographic Feature |
| | | Digital Data Available |
| | | No Digital Data Available |
| | | Unmapped |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/27/2023 at 3:23 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Hydrologic Soil Group—Mayes County, Oklahoma



Map Scale: 1:670 if printed on A landscape (11" x 8.5") sheet.

0 5 10 20 30 Meters


0 30 60 120 180 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

Soil Rating Polygons





 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Lines

 A
 A/D
 B
 B/D
 C
 C/D
 D
 Not rated or not available

Soil Rating Points

 A
 A/D
 B
 B/D

 C
 C/D
 D
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
 Web Soil Survey URL:
 Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Mayes County, Oklahoma
 Survey Area Data: Version 16, Sep 6, 2022

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: May 11, 2022—May 14, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|------------------------------------|--|--------|--------------|----------------|
| DnB | Dennis silt loam, 1 to 3 percent slopes | C/D | 0.0 | 0.0% |
| PaA | Parsons silt loam, 0 to 1 percent slopes | D | 2.1 | 100.0% |
| Totals for Area of Interest | | | 2.1 | 100.0% |

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: None Specified

Tie-break Rule: Higher