

I. INTRODUCTION

This storm water pollution prevention information has been prepared to assist the contractor in preparing a storm water pollution prevention plan (SWPPP) for construction activities for Lot 4R, Block 1, Belt Line - Marsh Business Park. The information includes elements necessary for compliance with the nationwide general permit for construction activities administered by the Environmental Protection Agency (EPA) under the National Pollutant Discharge Elimination System (NPDES) program.

The purpose of this information is to provide guidelines for preventing soil and pollutants that originate on the site from flowing into natural surface water bodies. The contractor's SWPPP shall terminate as soon as completed construction area is finally stabilized as defined in Part VII of this document.

According to Clayton Napier from the United States Department of the Interior Fish and Wildlife Service, there are two species indigenous to Denton County that should be noted. The black-capped vireo and the interior least tern are federally listed as endangered and threatened, respectively.

The nationwide general permit for construction activities provides for each of the following types of non-storm water discharges, which are anticipated at this project.

- 1. Water used to wash vehicles or control dust.
2. Potable water sources, such as flushing new water distribution pipes.

A Storm Water Pollution Prevention Plan must be implemented and accommodate the different stages of development and comply with all known local and state sanitary, septic and erosion/sedimentation requirements.

The storm water management controls included on this sheet focus on providing control of pollutant discharges with practical approaches that utilize readily available techniques, expertise, materials and equipment.

II. SITE EVALUATION AND DESIGN

SITE INFORMATION

This project is being constructed on material consisting of CH clay and CL calcareous clay. This material overlies the Austin Chalk Formation, which consists of gray, hard, chalky limestone interbedded with thinner beds of calcareous shale, according to the Geotechnical Investigation prepared by Reed Engineering Group. Since information was not available on quality of runoff from the site, information regarding quality is not included. The name of the receiving body of water for the site is Rawhide Creek.

SITE PLAN DESIGN

Site grading was designed to match grades on the adjacent streets, while trying to match the amount of fill to the amount of cut on the site. Once the grades connecting the site to the streets were determined, grades over the site area, as well as the finished floor of the future building pads, were determined by trying to minimize the amount total cut and fill required to achieve the desired grades. Visual inspection found no evidence of wetlands at this site. Storm water runoff will leave the site in an underground, reinforced concrete pipe storm sewer system. All slopes on site were designed to be no greater than a four to one to protect the stability of the slopes. Silt fences were designed to be constructed on the down slope boundaries of the site to eliminate the loss of as much erodible soil as possible.

CONSTRUCTION ACTIVITY

The planned project, also known as Osteomed, consists of a future office/manufacturing building. The soil disturbing activities which will be taking place during the current phase of construction of this facility are: clearing, excavation, stockpiling, rough grading, drainage utility installation, and seeding and planting.

POLLUTION PREVENTION SITE MAP

The Contractor shall prepare an Erosion Control Plan. This plan shall show the areas of soil that will be disturbed during construction, as well as the mechanisms that will be used to combat erosion. Filter fabric will be used at proposed and existing curb inlets to keep sediment from entering the storm sewer system. The silt fence around the site, as previously mentioned, will keep runoff from the site from carrying soil away. Most drainage will leave the site in the underground storm sewer system and discharge into the existing natural channel to the northwest. Some areas will drain to the existing adjacent city streets where runoff will be collected in the public inlet and storm sewer systems.

III. SITE ASSESSMENT

The area to be disturbed covers an area of approximately 4.3 acres. The drainage areas can be seen on sheet CL2 in the engineering site plan package. The runoff coefficient for the developed site has been determined to be 0.90 as per the Town of Addison "Drainage Criteria Manual".

IV. CONTROL DESIGN

EROSION AND SEDIMENT CONTROLS

The EPA requires that areas of the construction site that were disturbed in the past but will not be redisturbed for 21 days or more be stabilized by the 14th day after the last disturbance. Temporary seeding/permanent seeding/mulching should be used to stabilize these disturbed areas on site.

A silt fence, as previously mentioned, should be constructed. This device is described in detail on sheet CL2 in this set. Lime stabilization may also be used to prevent erosion.

OTHER CONTROLS

It is the responsibility of the operator to identify and prevent contamination of non-storm water discharges using controls that may or may not be given in this set. All solid construction site waste materials will be collected in containers. The containers will be emptied periodically and trucked away from the site. Methods of concrete waste management, solid waste management, and hazardous waste management can be found on sheet CL3 in this set.

A stabilized construction entrance and vehicle washing racks will be installed to alleviate tracking of site soil off the site. This construction entrance described on sheet CL2 in this set.

INSPECTION AND MAINTENANCE OF CONTROLS

Each control element should be inspected once every seven days, using the inspection form similar to the one on this sheet. Always inspect each element after rain storms greater than 0.5 inches in depth.

If the silt fence becomes clogged, it should be cleaned. If it is impossible to clean, it should be removed and replaced. Soil should not be allowed to collect to above one half of the height of the fence.

The void areas in the aggregate in the construction entrance should not be filled with sediment. If this is the case, the aggregate must be washed or replaced. Regrading and top dressing with additional stone will keep the entrance from becoming inefficient.

The filter fabric designed to surround each inlet must be inspected for signs of deterioration. Sediment should be removed from behind fabric if it reaches a depth of six inches.

SEQUENCE OF MAJOR ACTIVITIES

Phase I - site grading
Silt fence to be installed and stabilized construction entrance to be constructed.
Inlet protection to be installed on all existing inlets

Phase II - site storm drainage and utility installation
Entrance, inlet protection, and silt fence to be maintained.

STATE AND LOCAL REQUIREMENTS

There are no known state and local requirements which would interfere with or change this storm water pollution prevention information.

V. CERTIFICATION AND NOTIFICATION

CERTIFY THE POLLUTION PREVENTION PLAN

A copy of a certification statement, to be signed by the owner and all contractors and subcontractors responsible for implementing measures in the Pollution Prevention Plan appears on this sheet. This form should be duplicated as needed.

NOTICE OF INTENT

A notice of intent should be submitted to EPA's central processing center postmarked within 48 hours of beginning construction. A NOI form can be obtained from the EPA. The address to send the completed NOI form is:

Storm Water Notice of Intent (4203)
USEPA
401 M. Street, SW
Washington, DC 20460

VI. CONSTRUCTION AND IMPLEMENTATION

IMPLEMENT CONTROLS

Controls shall be implemented according to procedures listed in the Best Management Practices (BMP) sheets published by the North Central Texas Council of Governments (NCTCOG) on sheet CL3 in this set.

INSPECT AND MAINTAIN CONTROLS

Based on the results of an inspection, as described above, any necessary modification to the control elements in this plan will be implemented within seven (7) calendar days. The Inspection Reports will be kept on file as part of the Storm Water Pollution Prevention Plan for at least three years from the date that the site is finally stabilized. The Inspection Report will state whether the site was in compliance or identify any incidents of non-compliance. Each report shall be signed, dated, and contain a certification statement as described in accordance with part VI.G. of the NPDES General Permit.

It is the responsibility of the Operator to maintain effective pollutant discharge controls. Actual physical site conditions or contractor practices could make it necessary to install more controls than are shown on the Plan. For example, localized concentrations of surface runoff or unusually steep areas could require additional silt fence, or other structural controls. Assessing the need for, and implementing additional controls will be a continuing aspect of the SWPPP until a section has achieved final stabilization.

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

MAINTAIN RECORDS OF CONSTRUCTION ACTIVITIES

The operator should keep records of:
-Dates when major grading activities occur in a particular area
-Dates when construction activities cease in an area, temporarily or permanently
-Dates when an area is stabilized, temporarily or permanently

UPDATE/CHANGE PLAN

The SWPPP must accurately reflect site features and operations. When necessary, the SWPPP must be changed to reflect actual conditions. The operator is responsible for changing the SWPPP if it is observed that pollutant discharge from the site is not being minimized.

RELEASES OF REPORTABLE QUANTITIES

EPA has issued regulations found in 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, that define what Reportable Quantity (RQ) levels are for spills of oil and hazardous substances. In the case of an RQ release during construction, the following steps must be taken:
-Notify the National Response Center immediately at (800) 424-8802
-Submit a written description of the release to the EPA Regional office providing the date and circumstances of the release and steps to be taken to prevent another release
-Modify the pollution prevention plan to include the above information

PLAN LOCATION AND ACCESS

A copy of the Pollution Prevention Plan must be kept available at the construction site from beginning to final stabilization. All records and reports required by the permit, and all data used to complete the NOI must be retained for 3 years after the completion of site stabilization. These plans must be made available upon request to the Director, and/or the State or local agency who is approving erosion and sediment control plans, or storm water management plans. If site storm water runoff is discharged into a municipal separate storm sewer system, the plans must be made available upon request to the municipal operator of the system.

VII. FINAL STABILIZATION/NOTICE OF TERMINATION

The notice of termination (NOT) will be submitted after final stabilization of the project. Final stabilization occurs when there is a uniform perennial vegetative cover of 70% over the area of the site, or equivalent measures such as rip rap for the areas of the site not covered by permanent structures or pavement. The NOT states that construction activities are complete, the site is stabilized, and no longer has a discharge associated with an industrial or construction activity covered under the permit. Once the permit has been terminated, permittees are relieved of their responsibility. This notice should be sent to the same address listed for the Notice of Intent.

NAME OF OWNER:
OSTEOMED CORPORATION

ADDRESS:
3750 REALTY ROAD
ADDISON, Texas 75001-4311

TELEPHONE NUMBER:
(972) 241-3401

The representative of the owner for the above named construction site must be identified and must sign the following certification statement.

Certification Statement:

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

Name: _____ Date: _____

Title: _____

CONTRACTOR/SUBCONTRACTOR CERTIFICATION

Name of Contractor or Subcontractor: _____

Address: _____

Telephone Number: _____

Type of Construction Service to be Provided: _____

Certification Statement:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination Systems (NPDES) permit that authorizes the storm water discharge associated with industrial activity from the construction site identified as part of this certification:

Name: _____ Date: _____

Title: _____

Inspection Report

DATE: _____

INSPECTOR: _____ TITLE: _____

REASON FOR INSPECTION: Weekly 1/2" Rain (Circle One)

PROJECT NAME: _____

SITE CONDITIONS:

Table with 3 columns: EROSION AND SEDIMENTATION CONTROLS, IN CONFORMANCE, EFFECTIVE. Rows include Inlet Protection, Stabilization, Silt Fence, Other.

VIOLATIONS NOTED: _____

RECOMMENDED REMEDIAL ACTIONS: _____

COMMENTS:

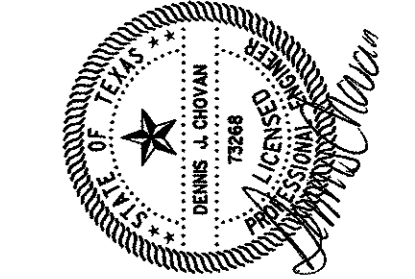
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage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

INSPECTOR: _____ DATE: _____

Signature

OSTEOMED CORPORATION FACILITY
ADDISON, TEXAS

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Checked by: DJC
Sheet Title: EROSION CONTROL NOTES
Sheet Number: C1.4

AS-BUILT PLAN BASED ON CONTRACTOR'S RECORD DRAWINGS