

**THE PAPILLION CREEK
WATERSHED PARTNERSHIP (PCWP)**

http://www.pcwperosioncontrol.org



STORM WATER POLLUTION PREVENTION PLAN NARRATIVE (SWPPP-N)

INSTRUCTIONS

The PCWP Storm Water Pollution Prevention Plan - Narrative (SWPPP-N) is to be completed in accordance with the current Environment Protection Agencies (EPA) National Pollutants Discharge Elimination System (NPDES) General Storm Water Permit For Construction Activities, State of Nebraska Department of Environmental Quality (NDEQ) – NPDES General Permit for Storm Water Discharges from Construction Sites, and PCWP Grading Permit Terms (GPT).

1.0 SITE DESCRIPTION

1.1 Project Name And Location

Provide all information requested below.

11-20-2006	0219	NER111205	
<small>Date</small>	<small>PCWP Project Number</small>	<small>NDEQ NOI Number</small>	
Waterford		144 th St. and Ida St.	
<small>Project Name</small>		<small>Address</small>	
Waterford	441	Omaha	Douglas
<small>Subdivision Name</small>	<small>S&ID #</small>	<small>City</small>	<small>County</small>
41deg 19min 47sec	-96deg 8min 48sec	Nebraska	
<small>Latitude</small>	<small>Longitude</small>	<small>State</small>	<small>Zip Code</small>

1.2 Construction Project Description

Describe the nature/function of the construction project and its impact on the surrounding environment.

The construction project consists of grading, sanitary sewer, storm sewer, and paving for a residential subdivision.

1.3 Existing Site Conditions

Describe the existing site conditions, with an emphasis on environmentally sensitive areas.

Existing site conditions consist of a partly to mostly completed residential subdivision with all grading, sewer, and paving complete. All remaining work consists of building houses on individual lots. On site drainage drains to a large water quality pond designed to trap sediment before it reaches Standing Bear lake downstream.

1.4 Sequence Of Major Construction Activities

Describe the intended sequence of major construction activities.

All major construction activities have been completed and the remaining activities involve house construction only.

1.5 Name Of Receiving Waters

Identifying and name any receiving waters within one mile of the site.

Standing Bear Lake	

1.6 Industrial Activities

Indicate the location of any storm water discharges associated with industrial activity other than at the site (e.g., dedicated asphalt, concrete plants, and etcetera).

There are no industrial activities within one mile of the site.

1.7 Site Data

Provide requested site data.

Total Site Area (Acres)	142	Estimated Permit Duration (Months)	36
Disturbed Area (Acres)	142	Cut Volume (YD³)	958000
Undisturbed Area (Acres)	0	Fill Volume (YD³)	
Impervious Area Before Const. (%)	0	Runoff Coefficient Before Const.	0.2
Impervious Area After Const. (%)	34	Runoff Coefficient After Const.	0.5

1.8 Pollution Sources

Identify all potential sources of pollution that might affect the quality of storm water discharge from the site.

Vehicle emissions and fluid leaks.

1.9 Operators

Identify the types of OPERATORS (e.g., grading contractor; residential and commercial lot builders; public improvement contractor; sub contractors; suppliers, trades people, and etcetera) who will be at the site, and the areas over which each OPERATOR has control.

Grading Contractor: McArdle Grading Company
Ready Mix Concrete
Miscellaneous general home building contractors
Miscellaneous suppliers and subcontractors

2.0 CONTROLS TO REDUCE POLLUTANTS

2.1 Control Measures

For each major activity identified (see section 1.4), describe all control measures, the timing during the construction when measures will be installed, and the OPERATOR responsible for accomplishing the installation.

Silt fence has been installed before start of construction, and has been maintained, and will be maintained until project completion. As the entire site has been graded, seeding has also been entirely completed.

2.2 Interim And Permanent Stabilization Practices

Describe all interim and permanent stabilization practices with the associated installation schedule.

Interim stabilization by seeding has been installed since completion of grading work. Permanent stabilization by way of paving, building construction, and turfed and landscaped open areas is ongoing.

2.3 Construction Activity Record Keeping

Maintaining a record of the dates when major grading activity occurs, when construction activity has been temporarily or permanently ceased on a portion of the site, and when stabilization measures are initiated is an integral part of the SWPPP. Explain how the construction activity record keeping will be accomplished for the duration of the permit.

Weekly/Monthly inspections are being conducted, including reports of construction status and erosion control. Reports are posted on the City of Omaha website for the duration of the grading permit.

2.4 Structural Practices

Describe any structural practices used to divert flows from exposed soils, retain/detain flows, or otherwise limit runoff/pollutants from exposed areas.

Silt fence has been installed before construction began, and will be maintained until project completion. Perimeter silt fence is used to control flow off of the site. silt Basins have been constructed to capture overland flow and will continue to do so until the building phase is essentially completed.

2.5 Post-Construction Storm Water Management Controls

Describe any post-construction storm water management controls to be installed at the site, and identify any applicable federal, state, local and/or tribal requirements for design or installation.

Permanent site stabilization will be paving, building construction, and turfed and landscaped areas. All disturbed areas have been seeded.

2.6 Measures/Waste Disposal Practices

Describe all measures/waste disposal practices to prevent discharge of solid material, including building materials, to waters of the U.S.

Silt fence has been installed and maintained since the start of construction. Contractors are responsible for upkeep and cleanup. Construction materials shall be covered or placed in waterproof containers.

2.7 Sediment Track-out Prevention Practices

Describe measures to minimize off-site tracking of sediments to paved surfaces and the generation of dust.

Stabilized construction entrances were used until paving was completed, track out is to be cleaned at the end of each day.

2.8 Waste Or Construction Materials Storage Practices

Describe any waste or construction materials to be stored onsite, and list all measures to limit exposure, including storage, spill prevention and response practices.

Contractor is responsible for waste storage and removal. As all grading, sewer, and paving work is complete vehicles shall be parked on pavement to minimize the possibility of track out.

2.9 Pollutants From Sources Other Than Construction

Describe controls to minimize pollutants from sources other than construction (e.g, dedicated asphalt, concrete plants, and etcetera).

None.

3.0 NON-STORM WATER DISCHARGE MANAGEMENT

Identify & list pollution prevention measures for any allowable non-storm water discharges.

Entire site has had all grading, sewer, and paving work completed so all vehicles must be parked on paved streets. Contractors are responsible to avoid dumping and spilling fuels and chemicals. For closing of sediment basin, all construction vehicles shall have secondary containment on site to avoid fuel spills.

4.0 PERMIT ELIGIBILITY RELATED TO ENDANGERED SPECIES

Document your project's eligibility for permit coverage with regard to endangered species.

No endangered wildlife are known to be in the area. If any known endangered species are found on the site, all construction activity shall stop, and proceed only with written approval of the engineer.

5.0 PERMIT ELIGIBILITY RELATED TO TOTAL MAXIMUM DAILY LOADS

Document your project's eligibility for permit coverage with regard to discharging to water bodies with an approved TMDL.

This project is in a watershed that drains to Standing Bear lake approximately one mile downstream of the site. With on-site protection, silt basins, paving completed, and home construction partially completed, this project will contribute minimal sediment to Standing Bear lake.

6.0 APPLICABLE STATE, TRIBAL OR LOCAL PROGRAMS & REQUIREMENTS

Describe your project's compliance with any applicable state, local and/or tribal requirements for erosion control and storm water management.

This project is permitted by the City of Omaha's grading and erosion control permit, which falls under a general permit under the State of Nebraska. There are no tribal areas on or near this project.

7.0 INSPECTIONS

7.1 Inspection Schedule, Procedures, and Frequency

Describe routine inspection schedules, procedures, and frequency to ensure control measures are operating effectively.

Inspections are completed weekly/monthly and after any rain event of 0.5" or greater. Inspector shall make on-site inspections to monitor condition of all erosion control measures including track out, construction entrance, silt fence, construction vehicle fluid leakage, refueling operations, etc.

7.2 Personnel Performing Inspections

Indicate who will be to perform inspections and describe the person's qualifications.

Michael Sexton, P.E., is a registered civil engineer in the State of Nebraska, and will conduct, and/or supervise inspections of this site.

7.4 Report Format

Describe the format for the inspection reports documenting each inspection, including documentation of incidents of noncompliance or certifying full compliance, and indicating who will be authorized to sign the report.

The report format will be per the City of Omaha online reporting system.

8.0 OPERATOR RESPONSIBILITY & NOTIFICATION

8.1 Responsibility

Describe in detail each OPERATOR'S (see section 1.9 for a list of OPERATORS) responsibility for implementing and maintaining the SWPPP in the APPLICANTS behalf.

Grading contractor is responsible for implementing and maintaining SWPPP measures outlined in the grading and erosion control plan. Owner shall monitor compliance through the Engineer. Other contractors will be notified of the SWPPP by signage on site. Each contractor is responsible for observing SWPPP measures as outlined in the grading and erosion control plan.

8.2 Notification

Describe in detail how each OPERATOR (see section 1.9 for a list of OPERATORS) will be informed of the existence of the SWPPP and requirements. Furthermore, describe how each OPERATOR'S signature and certification for the SWPPP will be obtained and tracked.

SWPPP will be delivered to the contractor with the construction contract. The contractor will sign and acknowledgement that will be attached to the contact.

9.0 MAINTENANCE OF CONTROLS

9.1 Procedures And Activities

Describe all procedures and activities to be used to accomplish the following: maintain all identified controls in effective operating condition and maintain controls as soon as possible if site inspections identify controls are not working effectively.

Weekly/Monthly inspection reports will be reviewed by the Engineer and any deficiencies will be corrected by a contractor, hired by the owner.

9.2 Modifications

Describe in detail a protocol for modifying the SWPPP whenever there is a change in design, construction, operation, or maintenance at the site; or if during inspections or investigations it is determined that the SWPPP is ineffective in minimizing pollutant discharge from the site.

The SWPPP will be modified when documentation in the weekly reports indicates that a change is necessary. The Engineer for the project will revise the SWPPP, and submit the change to the City of Omaha for approval.

10.0 MANAGEMENT PRACTICES

10.1 Control Measure Management Practices

Describe the protocol for ensuring that all controls will be properly selected, installed, and maintained in accordance with manufacturer specification and good engineering practices.

Weekly inspections and site visits by both the inspector, and engineer will be used to monitor compliance with the approved SWPPP.

10.2 Off-site Management Practices

Describe the protocol for ensuring off-site accumulations of sediment will be removed as necessary.

If inspection reports indicate off site accumulation of sediment, a contractor will be hired to remove the sediment.

10.3 Litter, debris and chemical Management Practices

Describe the protocol for ensuring litter, debris, and chemicals shall be prevented from being exposed to storm water.

The owner shall mandate good housekeeping be maintained on the jobsite by all operators. Litter and debris shall be picked up at the end of each workday, and no chemical storage will be allowed on the site.

10.4 Stabilization Management Practices

Stabilization measures (e.g., Temporary Seeding, Permanent Seeding, and Mulching) must be initiated as soon as practical in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 14 days after the construction activity in that portion of the site has temporarily or permanently ceased. Describe the protocol for ensuring the implementation stabilization measures.

When the contractor has completed the grading operation, the weekly inspection will indicate the need for temporary seeding. The engineer shall notify the owner that seeding is required, and coordinate with a seeding contractor.

10.5 Maximum Pollutant Removal Management Practices

Describe the protocol for ensuring a combination of sediment and erosion control measures will be used to achieve maximum pollutant removal. Also, document any factors considered when determining whether to use sediment basin(s) as a control measure.

Sediment basins, silt fence, ditch checks, and stabilized construction entrances are used to control the amount of erosion that occurs.

10.6 Velocity Dissipation Management Practices

Describe the protocol for ensuring velocity dissipation devices will be used at discharge locations and along outfall channels to provide non-erosive flow.

Stormwater discharge from sediment basins will be controlled by use of rock rip-rap and other velocity dissipation measures if deemed necessary. All stormwater discharge will be controlled to decrease the exit velocity to 5 ft/sec or less.

DESIGNER

QUALIFICATIONS

Phase 1 Grading Permits (GR1) - Any grading site that is greater than or equal to 5 acres of disturbed ground (note: Disturbed ground means any area that will be and/or is without vegetative cover) will be considered a Phase 1 Grading Permit (GR1). To act as the DESIGNER associated with a PCWP GR1 grading permit the individual must have the following professional qualifications:

- Registered Professional Engineers in the State of Nebraska.

Phase 2 Grading Permits (GR2) - Any grading site that is greater than or equal to 1 acre and less than 5 acres of disturbed ground (note: Disturbed ground means any area that will be and/or is without vegetative cover) will be considered a Phase 2 Grading Permit (GR2). To act as the DESIGNER associated with a PCWP GR2 grading permit the individual must have one of the following professional qualifications:

- Registered professional engineer in the State of Nebraska.
- Registered professional architect in the State of Nebraska.
- Registered professional landscape architect in the State of Nebraska. Qualified professional knowledgeable in the principles and practices of erosion and sediment control.

Engineer **Architect** **Landscape Architect** **Erosion Control Professional**

<u>RD Engineering, Inc.</u> Business Name	<u>msexton@rdengineering-inc.com</u> Representative's Email Address	<u>(402) 505-4355</u> Phone Number
<u>Michael Sexton, P.E.</u> Representative's Name	<u>3803 N. 153rd St., Suite 201</u> Address	<u>(402) 505-4432</u> Fax Number
<u>001-003-04</u> Project # Assigned By DESIGNER	<u>Omaha</u> <u>NE</u> City State	<u>68116</u> Zip Code

INSPECTOR

QUALIFICATIONS

Phase 1 Grading Permits (GR1) - Any grading site that is greater than or equal to 5 acres of disturbed ground (note: Disturbed ground means any area that will be and/or is without vegetative cover) will be considered a Phase 1 Grading Permit (GR1). To act as the INSPECTOR associated with a PCWP GR1 grading permit the individual must have the following professional qualifications:

- Registered Professional Engineers in the State of Nebraska.

Phase 2 Grading Permits (GR2) - Any grading site that is greater than or equal to 1 acre and less than 5 acres of disturbed ground (note: Disturbed ground means any area that will be and/or is without vegetative cover) will be considered a Phase 2 Grading Permit (GR2). To act as the INSPECTOR associated with a PCWP GR2 grading permit the individual must have one of the following professional qualifications:

- Registered professional engineer in the State of Nebraska.
- Registered professional architect in the State of Nebraska.
- Registered professional landscape architect in the State of Nebraska. Qualified professional knowledgeable in the principles and practices of erosion and sediment control.

Engineer **Architect** **Landscape Architect** **Erosion Control Professional**

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APPLICANT

The APPLICANT must certify under penalty of law the following: (1) that, this document and all supporting information has been prepared under their direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted; (2) that, they have read or been advised of the conditions contained within the Storm Water Pollution Prevention Plan – Site Map (SWPPP-SM), Storm Water Pollution Prevention Plan – Narrative (SWPPP-N), and PCWP Grading Permit Terms (<http://www.PCWPErosionControl.org>) and believe that they understand them; (3) that, to the best of their knowledge and belief information contained in the SWPPP is true, complete, and accurate; (4) that, the SWPPP has been represented and warranted to conform to all applicable Standards, Criteria, Ordinances, Laws, Rules, and Regulations enacted by the -- [a] PCWP and its Members, [b] Douglas County, [c] Sarpy County, [d] State of Nebraska, and [e] United States Federal Government; (5) that, sound and established practices were used for the creation of the SWPPP; (6) that, under the terms of the permit, there will be reporting requirements; (7) that, the SWPPP will be implemented as the first element of construction; (8) that, they shall indemnify and save harmless the PCWP, its Members, Officers, Agents and Employees from all claims and demands of every nature and description growing out of the implementation of the SWPPP, including personal injuries received and all property damage sustained; and (9) that, corrections of defects and deficiencies in design, construction, inspection, implementation, and testing shall be without expense to the PCWP and its Members, Officers, Agents and Employees and shall be their obligations while acting as APPLICANT. The APPLICANTS Certification must appear on the SWPPP-SM.

<u>Graves Development Resources, Inc.</u>	<u>prososki@gdromaha.com</u>	<u>(402) 614-9100</u>
Business Name	Representative's Email Address	Phone Number
<u>Eugene Prososki</u>	<u>3803 N. 153rd St., Suite 200</u>	<u>(402) 614-9104</u>
Representative's Name	Address	Fax Number
<u>Project # Assigned By APPLICANT</u>	<u>Omaha</u>	<u>NE</u>
	City	State
		<u>68116</u>
		Zip Code

