Pelican River Watershed District
Residential Stormwater Management ->25% Impervious Lot Coverage and <10,000 ft^2 Within the Shoreland District
Small Site Stormwater Management Permit Application Checklist

This document is intended for guidance in submitting a complete permit application for small site permits. Sites exceeding 10,000 square feet of impervious coverage may require engineered plans. Please contact the Pelican River Watershed District at (218) 846-0436 or PRWDpermit@arvig.net for more information.

____1. Permit application form, signed by landowner or Authorized Agent (*must be notarized*); attach any required mitigation, conditional use, or variances requirements by Becker County or City of Detroit Lakes

____2. Permit review fee paid (See Fee Schedule)

____3. Construction Erosion Prevention and Sediment Control Plan or SWPPP

____4. Long Term Maintenance Agreement for BMP's signed by landowner or Authorized Agent.

____5. Site Plan showing existing and proposed details:

- Lot Size (Dimensions and Square Footage)- *Provide Survey if available*
- Indicate Conforming or Non-Conforming status of lot, structures, and setbacks.
- Contours or drainage arrows depicting water flow direction from land and structures
- Location and size of permanent stormwater management Best Management Practices (BMPs)
- Location and distances to structure

____6. **Impervious surface and calculated runoff treatment area (2.2" rainfall event) needed for proposed project (see below).**

Examples of Stormwater Best Management Practices design requirements

Raingarden/Infiltration basin

- Impervious area draining to basin
  - Basin volume sizing calculations showing retention of required rain-event volume.
    $\frac{2.2" \; x \; impervious \; surface \; treated}{12}$ = Volume of storage required (in cubic feet)
- Sediment pre-treatment
  - Sediment trap, grass filter strip, or other method
- Infiltration Suitability
  - Soil type (USDA Web Soil Survey) or soil boring report
  - Minimum 3 feet between bottom of basin and groundwater (or OHW)
- Planting Plan

French Drain (underground infiltration)

- Impervious area draining to basin
  - Basin volume sizing calculations showing retention of a 2.2" storm event.
    $\frac{2.2" \; x \; impervious \; surface \; treated}{12} \Big/ 0.4(rock \; void \; space)$ = total volume required (in cubic feet)
- Sediment pre-treatment
  - Sediment trap, grass filter strip, or other method
- Infiltration Suitability
  - Soil type (USDA Web Soil Survey) or soil boring report
  - Minimum 3 feet between bottom of basin and groundwater (or OHW)