

Stormwater Outfall Inventory Management

Overview

Introduction

ODOT is required to hold a National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit issued by the Oregon Department of Environmental Quality (DEQ) to operate the ODOT stormwater system. A requirement of that permit is that ODOT must inventory and manage stormwater outfalls associated with the ODOT stormwater system. ODOT has prepared an inventory of its stormwater outfalls but ODOT outfall records can be difficult to read and understand.

Stormwater outfalls are one of several stormwater treatment facility components specially configured to assist with the conveyance of runoff before leaving the state's highway system and entering a receiving water body. Outfalls typically convey water from either a stormwater treatment facility or a stormwater piping system to a point of discharge where water enters a natural water body or another drainage conveyance system.

Stormwater outfalls are integral parts of the State's highway system and like other infrastructural elements they are subject to deterioration. ODOT is responsible for maintaining these components as part of its operation and maintenance of stormwater treatment facilities in an effort to more effectively remove highway pollutants from stormwater runoff before they re-enter the natural environment.

In support of the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System Discharge Permit (MS4), ODOT has provided an inventory of its stormwater outfalls located along the State's highways. The focus is on outfall pipes discharging to a water body.

Outfall Inventory Project

ODOT has begun a new project where new and existing ODOT outfall information is being collected and formatted so a GIS map can be produced that clearly depicts location of ODOT outfalls. The project is focused specifically on mapping ODOT outfalls located in MS4 NPDES permit areas because DEQ has identified these areas as high risk for stormwater impacts to receiving waters.

Long Term Effort

ODOT has been working for a number of years on organizing highway inventory information into a format that is more usable for GIS mapping. This project is part of that effort. ODOT's long term goal is to eventually produce maps that depict various highway features associated with ODOT right of way, stormwater outfalls being one of those highway features.

A summary of ODOT [outfall inventory](#) information gathered to date for this project. ODOT is currently in the process of developing a user-friendly map that will be posted soon.

Data Collection

Over 600 stormwater outfalls have been inventoried within Phase I/II municipal boundaries and are shown in the files listed below:

Type	Phase 1 & 2 Community Maps	File Size
	Bend	N/A
	Corvallis/Philomath	390 KB
	Eugene/Springfield	684 KB
	Medford/Ashland	744 KB
	Portland	3.4 MB
	Salem/Keizer	569 KB

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