

EXECUTIVE SUMMARY

The Irondale & Port Hadlock Urban Growth Area (UGA) Stormwater Management Plan will be a portion of the overall UGA Capital Facilities Element that will amend the Jefferson County Comprehensive Plan. It is also a planning document that will guide development of the UGA so as to minimize the adverse effects of stormwater runoff on ground and surface water, including aquatic resources and habitats and water quantity. The Plan identifies specific structural and non-structural solutions to conveyance and water quality problems within the UGA. Structural solutions include constructing detention and infiltration ponds, pipes, and treatment facilities. Non-structural solutions include stormwater management facility inspection and maintenance, public education and outreach, water quality monitoring, and encouraging low impact development.

- The Plan meets local, State, and Federal stormwater requirements; identifies water quality and quantity problems associated with stormwater runoff that may adversely affect the environment and community; and provides recommendations for improvements and programs including a cost analysis and an implementation schedule.
- The Plan was developed in conformance with Jefferson County Comprehensive Plan Appendix G: Review of Drainage, Flooding, Stormwater Management Issues and Polluted Discharges. The Plan meets the recommended stormwater provisions of the Puget Sound Water Quality Action Plan. It is consistent with Jefferson County's adopted stormwater management technical standard, the 2001 Washington Department of Ecology *Stormwater Management Manual for Western Washington*.
- The UGA generally has low volumes and rates of stormwater runoff due to highly permeable soils in the area. As development continues, more modified pervious and impervious area will be added, leading to additional stormwater runoff and the need for additional stormwater management facilities and programs. However, unlike transportation, sewer, or potable water infrastructure, private developers will provide nearly all of the stormwater management facilities on a project-by-project basis.
- The drainage analysis conducted for the UGA Stormwater Management Plan divided the area into 43 sub-basins. This was due to the generally flat topography and highly permeable soils. The majority of sub-basins do not have surface drainage conveying flow. Infiltration and treatment facilities within the sub-basins can meet stormwater management requirements of the Jefferson County Unified Development Code and the *Stormwater Management Manual*.

- The Port Hadlock Core storm sewer system and Moore Street in Irondale collect and convey stormwater runoff to discharge points to Port Townsend Bay. The Plan assesses the stormwater management needs of these two areas.
- The Hadlock Core storm sewer system is a sealed conveyance system that collects runoff from SR 116, Irondale Road, and Chimacum Road as well as adjoining private parcels. It is approximately 17 years old. The outfall from this system consists of deeply buried pipe placed by private parties on a County drainage easement. It is anticipated to need replacement at a shallower depth during the 20-year planning horizon. The planning level construction estimate is \$144,000. Stormwater runoff from the Port Hadlock Core currently receives no water quality treatment before infiltrating or discharge to Port Townsend Bay. The planning level construction estimate for a treatment system is \$10,000. Improvements in stormwater treatment are included in the Capital Improvements and Program Plan.
- The Moore Street project is divided into two components. The first is a conveyance system that would eliminate surface flow on the roadway. The planning level construction estimate is \$208,000. The second involves revising the outfall and providing a water quality treatment swale. The planning level construction estimate is \$42,000. This work could be conducted as part of the Capital Improvements and Program Plan in conjunction with the Washington Department of Fish and Wildlife Irondale beach restoration project.
- The Plan discusses options for financing construction, operation, and maintenance of stormwater management facilities and for financing stormwater management program activities. The Plan recommends financing through the Transportation Improvement Program, County Road operations budget, and stormwater management fees, depending on the nature of the facility or program to be funded.