

## Project Information Sheet

USGS map showing terrain before existing gas station buildings and development of culvert/vault



**Applicant:** Pierce County Dept. of Public Works, Surface Water Management

### Strategic Initiatives:

**C2.3** Fix problems caused by existing development (structural upgrades; regular and enhanced maintenance). **C2.4** Control Sources of Pollutants; **C2.5** Provide focused stormwater-related education, training, and assistance **B1.2** Support local governments to adopt and implement plans, regulations, and policies that protect the marine nearshore and estuaries, and incorporate climate change forecasts. **B3.1** Protect intact marine ecosystems, particularly in sensitive areas and for sensitive species; **C1.5** Control wastewater and other sources of pollution, such as oil and toxics from boats and vessels; **A1.2** Support local governments to adopt and implement plans, regulations, and policies consistent with protection and recovery targets, and incorporate climate change forecasts; **A 2** Riparian Corridor Management Protect and restore upland, freshwater, and riparian ecosystems. **D6.3** Incorporate Puget Sound place-based content into K-12 curricula throughout the Puget Sound region.... Link schools to organizations with structured volunteer opportunities.

### Priority Near Term Action:

Phase I -Purdy Gas Station Acquisition assessment of creek location alternatives and permits

Phase II Removal/Relocation, Replacement of 300 ft. barrier vault and culverts /Habitat Enhancement and Restoration including Educational kiosk, rail, and signage.

## **Ecosystem threat summary:**

The Purdy Creek crossing of 144<sup>th</sup> Street NW was included in the Key Peninsula Island Basin plan as a high priority replacement. The site is within the Watershed Protection District and Burley Lagoon has been identified as a shellfish restricted area. This project will support shellfish restoration and protection efforts. This is also a prime spawning area of Coho, Chinook and Chum salmon. The existing corrugated metal pipe and box culvert that total 300 feet are a partial fish passage barrier. In addition the gas station is not constructed to standards and currently there are three areas where runoff from the gas station flows directly into the culvert with no treatment and one area where runoff not entering the culvert flows directly from the gas station pad into the creek adjacent to the parcel. This situation over time will contaminate the creek and soil and if a spill occurs damage may seriously harm the nearby shellfish beds in Burley Lagoon and Henderson Bay.

## **Project Description:**

The Purdy gas station was constructed in the middle of the 20<sup>th</sup> Century. This appears to be approximately the same time that SR 302 was relocated over part of the lagoon, and the CMP culverts and box culverts were installed enlarging the existing buildable area on the parcel. This action will 1)Return the creek to the approximate natural channel; 2)Eliminate the continuing cumulative pollution occurring at the site from gas station residue; and 3)Eliminate the threat of a catastrophic spill on the site from fuel trucks or pump malfunction. SRFB Feasibility funding for assessment of alternative placements for the creek has been received and will begin soon. This project is ready to proceed.

## **Major Tasks:**

### Phase 1 (This application)

- Eliminate the gas station use by purchasing the property or grandfathered right to use as a gas station. Obtain necessary permits for Phase II.
- Address site specific issues such as road encroachments and parcel configuration
- Conduct assessment of creek hydrology and flood danger taking in consideration climate change. Note: Assessment of exact placement of creek/alternatives will occur with SRFB feasibility funding that was recently awarded

### Phase 2

- Replace existing culvert under 144<sup>th</sup> NW and daylight the creek on gas station parcel
- Restore habitat and plant native species with help from volunteers from nearby high school
- Construct educational kiosk describing hydrology of creeks in the area and restoration efforts.
- Create attractive overview of creek including benches and handicapped access

**Budget:** \$4 million for both phases.

**Project Schedule:** Design and feasibility Phase I 2016-2017 Phase II construction 2018-2019

## **Project Partnership and Roles:**

This Near Term Action is part of five culvert replacements planned for creeks that drain into Henderson Bay. Two of the Near Term Actions involve culverts that are on the boundary of Kitsap and Pierce Counties and will involve coordinated action. In addition all three of the creeks Huger, Minter and Purdy extend into Kitsap County and Kitsap efforts will have greater impact with these replacements. The five projects are shown below.

Pierce County Dept. of Public Works Proposed Near Term  
Actions

