

Hosanna Lutheran Church Rain-garden/water quality project



Protecting Your Water Resources

PROJECT SPECS

Date Constructed
August 2012

Area Treated ~ 14,000 sq/ft

Rain-gardens.....~ 850 sq/ft

Natives Planted.....~585

Cost Share Funding 75% of
project expenses up to
\$9,400

Pre-Project Conditions

The Hosanna Lutheran Church property located on Highway 97 drains to Forest Lake. In addition to an eroding hillside, the site was dominated by rooftop and turf grass. As a result, there was:

- Active erosion occurring on a steep slope adjacent to the building. During rain storms the eroded soil would flow across the parking lot and into a wetland and then into Forest Lake.
- The untreated water runoff also conveyed nutrients and pollution from the property into the lake, increasing algae and unwanted vegetation blooms.



**Before
Fall of 2011**



**After
September, 2012**

After Restoration

The steep slope and eroded channel was stabilized with native plantings and mulch, a rock swale, and a rain-garden. Combined the practices are able move water safely from the top of the hill to the bottom of the hill where it goes into a rain-garden and soaks into the ground preventing the polluted water from getting into Forest Lake.

Approximately 585 native grasses and flowers were planted. The native plantings, rock swale and rain-garden provide multiple benefits, including;

- Stopping soil from washing into the lake.
- Stormwater is slowed and retained as it flows toward the lake increasing infiltration and decreasing input of nutrients and pollutants to Forest Lake.
- Plant diversity and wildlife habitat is increased.