THURSTON COUNTY

Shoreline Master Program
2013 Update

Map 17
Hydrologic Processes
Alterations

Legend

- ◇ Marinas
- ◎ Culverts
- ▣ Dams
- ⋈ Bridges
- ⋀ Power Transmission Lines
- Rain-on-Snow Zones
- Rain-Dominated Zones
- 100-year Floodplain

- Loss of Depressional Wetlands
- Built Environment (High Permeability Deposits)
- Built Environment (Low Permeability Deposits)
- Non-forest Landcover on High Permeability Deposits
- Non-forest Landcover on Low Permeability Deposits
- Forest

- Water Resource Inventory Area
- Cities
- Urban Growth Areas
- Major Roads
- Railroads
- Streams

Water Process Alterations based on methods from Stanley et al. 2008
*Built Environment = Low, Medium and High Intensity Developed landcover
*Loss of Depressional Wetlands = Built Environment on hydric soils with < 2% slope
Delivery
- Impaired timing of snow melt - Non-forest landcover in rain-on-snow and snow-dominated zones
- Impaired timing of runoff - Non-forest landcover in rain-dominated zones
Movement
- Impaired outland flow - Built Environment
- Impaired surface storage - Loss of depressional wetlands, Built Environment adjacent to streams, dams
- Impaired shallow subsurface flow - Built Environment and non-forest landcover on low permeability deposits
- Impaired recharge - Built Environment and non-forest landcover on high permeability deposits
- Impaired vertical and lateral flows - Roads and culverts
- Impaired discharge - Built Environment and non-forest landcover on high permeability deposits in flood plain

Map labels: McNeil Island, Anderson Island, Hartstene Island, Squaxin Island, Balch Passage, Drayton Passage, Nisqually Reach, Totten Inlet, Oyster Bay, Eld Inlet, Budd Inlet, Henderson Inlet, Nisqually Flats, Olympia, Lacey, Tumwater, Nisqually Indian Reservation, Joint Base Lewis-McChord, Yelm, Rainier, Tenino, Bucoda, Grand Mound, Confederated Tribes of the Chehalis Reservation, Nisqually River, Snoqualmie NF

Miles
0   2   4   6   8   10

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WASHINGTON
SINCE 1852

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