

**SHORELINE AREA (Reach Code): WHATCOM 6**

**REACH NUMBER: 17**

|                           |                                |   |
|---------------------------|--------------------------------|---|
| Land Use                  | Current Land Use               | Majority of the land use is public park. No residential buildings area located within the SMA. (Ref# 8,37,71)   |
|                           | Zoning                         | 27.6 acres public (Whatcom Falls Park), 9.3 acres multi-family residential (Ref# 54,104)  |
| Potential Species Present | Wildlife species               | In 100% of the reach: presence of a variety of non-urban mammals, including habitat specific species; a variety of non-urban birds dominate, including habitat specific species, a variety of native amphibians, and an abundance of garter snakes and lizards and denning. Movement is possible for all animals including amphibians in 100% of the reach. (Ref# 61,69,70,105) |
|                           | Fish species                   | Chinook, Chum, Sea-run & Resident Cutthroat, Pink, Steelhead. Presumed potential/historic for bull trout and coho. (Ref# 69,70,94,105)  |
|                           | PHS species/habitat            | Nearly 100% of the reach has habitat for breeding/rearing/wintering use by multiple PHS or SC. (Ref# 24,92,93,105)  |
|                           | TSE species                    | Bull trout (FT), Chinook (FT & SC), Coho (FCo), and Cutthroat (FCo). (Ref# 92,93,105)   |
|                           | Invasive wildlife/fish species | No data   |
| Physical Environment      | Acres of land in reach         | 36.9 with 34.2 acres of land and 2.7 acres of water (Ref# 13)   |
|                           | Aquatic vegetation             | No data   |
|                           | Slope                          | The majority of the reach is incised in a steep, narrow ravine, including falls within the creek, with slope classes of 20-35% and greater (up to 50-70%). Lower most portions of the reach are gently sloping, slope class of 2-5%, with some narrow bands of steepness along the creek in this area. (Ref# 21)  |
|                           | Buildings                      | Zero (Ref# 16)  |
|                           | Culverts/stormwater utilities  | Three culverts are located along Woburn Street at lower terminus of reach. Only utilities are along Woburn Street. (Ref# 39,40,41,42)   |
|                           | Geology                        | Extreme lower portion of reach is glaciomarine drift, the rest of the reach is continental sedimentary rock. Landslide Hazard Area on 15-35% or greater slopes. (Ref# 21,103)   |
|                           | Tributary creeks               | None indicated (Ref# 8,57,59,71)  |
|                           | Wetlands                       | (Ref# 11,52)  |
|                           | Impervious surface             | 61% pervious, 38% semi-pervious, 1% impervious (Ref# 12)  |
|                           | Invasive plant species         | No data   |
|                           | Roads/transportation           | Only road is Woburn Street located at lower terminus of reach. (Ref# 14,35,36,44,45,46)   |
|                           | Soils                          | Hydric soils, very low filtration with high potential for runoff (Hydrologic soil Group D) in lower most corner of reach. The remainder of the reach has moderate filtration/runoff soils (Group B). (Ref# 51,63)   |
|                           | Topography                     | 78' to 258' range; 158' mean. (Ref# 47)   |
|                           | FEMA                           | 12.2 acres in 100 year floodplain, none in the floodway. Floodplain is restricted by topography. (Ref# 19)  |
|                           | Terrestrial Vegetation         | Vegetation is native coniferous/deciduous forest. Entire length reach was burned by pipeline explosion and restoration has occurred. Before fire occurred the reach was dominated by a diverse multi-structured native habitat of high quality. Overstory was mature native forest with emergent trees. (Ref# 8,20,71)  |
| Riparian Function         | DOE 303(d)                     | Category 5 Polluted Waters listed for dissolved oxygen, fecal coliform, and temperature. Category 2 Water of concern for pH and bio-assessment (biological degradation based on invertebrates). TDML for fecal coliform. (Ref# 56,85,89)  |
|                           | Channel confinement            | Lower ¼: unconfined; Upper ¾: confined (Ref# 22,23)   |

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|   |   |  |
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|   | Channel gradient  | Lower 2-4%; Upper 4-8% (Ref# 22,23)  |
|   | Channel migration zone  | No data  |
|   | Creosote structures   | No data  |
|   | Fish passage blockages  | Impassible falls located in upper portion of reach (natural feature) (Ref# 15,94)  |
|   | In-water structures   | None indicated (Ref# 8,18,43,71)   |
|   | LWD presence  | Incomplete data  |
|   | Non-point source pollution  | No data  |
|   | Point source pollution  | No data  |
|   | Riffle/pool analysis  | No data  |
|   | Aquatic substrate type  | No data. One sampling point was taken just below the falls: 53% cobble, 18% coarse gravel, 16% boulder, 14% fine gravel. (Ref# 86) |
|   | Toxic sites/land fills  | None indicated (Ref# 80)   |
| Historic & Cultural                           | Historic aerials  | No data  |
|   | Archeological sites   | No data  |
|   | Historic sites  | None indicated (Ref# 77)   |
|   | Parks & public access   | 0.5 acres of community park, 0.5 acres of neighborhood park – area associated with Whatcom Falls Park (Ref# 33,34,36,48,54)        |
| Function Analysis                             | <b>Reach Function</b>   |  |
|   | • Hydrologic  | Unimpaired.  |
|   | • Shoreline Vegetation  | Unimpaired.  |
|   | • Habitat   | Unimpaired.  |
|   | <b>Limiting Factors</b>   | Water quality  |
|   | <b>Functions</b>  |  |
| • Sustainable                                 | All functions are sustainable   |  |
| • Not Sustainable                             | None. Hydrology- most likely can not be sustained beyond current condition.   |  |
| <b>Priority Actions</b>                       | <ul style="list-style-type: none"> <li>• Stormwater treatment and detention</li> <li>• Water quality improvement</li> </ul>                                   |  |
| <b>Current Enhancement Projects</b>           | Two projects have taken place to restore the shoreline and riparian vegetation along both sides of the creek, but only in the very lower extent of the reach. |  |
| <b>Preservation/Enhancement Opportunities</b> | Preservation of existing shoreline and riparian vegetation, and habitat<br>(Ref# 24,49,50,61,69,70,71,89 for above)   |  |