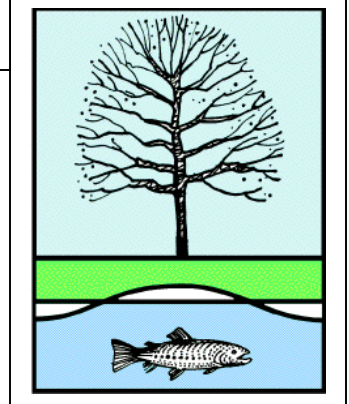


# URBAN CREEKS COUNCIL

## Project: Soil-Bioengineering / Erosion Control (October 15<sup>th</sup> – October 26<sup>th</sup> 2006)

### Duties:

- Installed erosion control matting on exposed creekside banks
- Planted willow cuttings in banks for erosion mitigation



**Anadromous Fish Populations:** Anadromous fish are fish born in fresh water (i.e. streams and rivers), which then migrate to the ocean to grow into adults, and finally return to freshwater to spawn. Salmonid species (e.g. salmon, steelhead trout) are anadromous fish.

**Barriers to Fish Migration:** Barriers to fish migration include any obstacles that may interfere with or prevent the upstream or downstream movement of fish. Examples of major barriers to fish migration include dams, culverts, and heavily engineered channels of concrete and riprap. Minor barriers can include partial dams, eroded streamside banks, small waterfalls, etc. Modification and/or removal of barriers can open up large sections of streams to fish populations - including spawning habitat - that were previously unreachable.

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**Riparian:** The riverside or riverine environment next to a stream channel. There is no specific measured distance constituting the riparian area; instead, it refers to the extent of habitat on either side of a river or stream channel that is clearly dependent on that river or stream.

**Soil-bioengineering:** The use of natural methods to control creek bank erosion, and to restore natural stream habitat. Also referred to as, "biotechnical slope protection," soil-bioengineering involves the use of live and dead woody cuttings and poles or posts collected from native plants, to revegetate watershed slopes and stream banks. The cuttings, posts, and vegetative systems composed of bundles, layers, and mats of the cuttings and posts provide structure, drains, and vegetative cover to repair eroding and slumping slopes.

**Steelhead Trout:** One species of the salmonid family, officially termed, *Oncorhynchus mykiss*. Steelhead trout are currently listed as a "threatened" species under the federal Endangered Species Act.

**Watershed:** The landscape area whose run-off flows into a particular stream or river, also known as "basins" or "drainages." Watersheds can be nested within each other - i.e. smaller watersheds draining into smaller streams are nested within a larger encompassing watershed that contains all of those streams, as well as a larger river into which they flow.