



Portland
State
UNIVERSITY

The Environmental Professional Program
Wetland Delineation Program

EPP 719 – Wetland Hydrology Indicators and Problem Situations

Course Summary: This two-day course will provide wetland professionals with an in-depth understanding of hydrologic conditions that form and sustain wetlands. Instruction will focus on identification of hydrology sources (precipitation, ground water, streams), as well as the hydrology indicators specified by the Western Mountains, Valley & Coast and Arid West regional supplements to the 1987 Wetland Delineation Manual.

The course will examine delineation situations where one or more of the evaluation parameters has been disturbed or missing (problematic situations). Common examples of these situations include grazed pastures, cultivated fields, drained/artificial wetlands, seasonal wetlands, and riparian wetlands. These examples are common occurrences in urban areas within the Western U.S., as well as other regions. This course is intended for wetland professionals wanting to expand their knowledge of wetland hydrology and better assess disturbed delineation sites. This course has a high participant-instructor ratio, so there are numerous opportunities for project specific examples that participants want to discuss. It qualifies as credit towards certification through the Society of Wetland Scientist Professional Certification Program, as well as elective credit toward the PSU River Restoration Professional Certificate. The course instructor has over 25 years of wetland delineation and training experience, with an emphasis on hydric soils, wetland hydrology, and disturbed site delineations. The course format will be mostly instruction in the mornings and field visits in the afternoon. The field visits will teach participants to apply wetland hydrology indicators, examine hydrology sources, document problematic situations, and refine delineation skills.

This course requires some wetland hiking, carrying field gear and some labor. Hiking/walking may involve slippery or wet, uneven ground that is often without trails.

Duration: 2 days in the field and 1 day of pre-recorded lectures.

Topics:

- Field Documentation of Wetland Hydrology Indicators.
- Field Exercises.
- Growing Season.
- Hydrology Concepts.
- Problematic Hydric Soil Situations and Hydrology Indicators.
- Problematic Situations Overview (Veg, Soils & Hydrology).
- Problematic Soils, Vegetation and Hydrology Situations.
- Review of Field Exercise and Data.
- Water Sources.
- Wetland Hydrology Indicators (Arid West and Western Mts, Valley & Coast).
- Wetlands Periodically Lacking Hydrology.

Available Professional Credit: 2.4 CEU, or 24 PDH.