



Washington Hydrologic Society Presents:

**Concentrated Animal Feeding Operations (CAFOs):  
Environmental Concerns and  
Ecology's Draft CAFO Permit**

**Jon Jennings**

Washington State Department of Ecology

**Wednesday, November 4, 2015 at 7:00 PM**

At: USGS Washington Water Science Center  
934 Broadway, Suite 300  
Tacoma, WA, 98402  
Phone (253-552-1600)

*Directions Below*

**Food and beverages** will be available for a \$10 donation at 6:30 PM. The presentation will begin at 7:00 PM.

**RSVP** by noon on the day of the talk. Please indicate if you want to be included in the food count. Call or email with your RSVP to:

*Dawn Chapel, Pacific Groundwater Group, [dawn@pgwg.com](mailto:dawn@pgwg.com) (206) 329-0141 | [www.pgwg.com](http://www.pgwg.com)*

## ***Abstract:***

Concentrated Animal Feeding Operations (CAFOs) are a type of animal agriculture that confines and feeds animals in a central location and collects the manure generated for later use as fertilizer on crop fields. CAFOs may have only a few hundred animals to many thousands of animals. When used beneficially, the manure generated by a CAFO is good fertilizer. However, if mismanaged, manure from CAFOs can contribute to impacts to surface and groundwater. This presentation will briefly provide a general background explanation of CAFOs, water quality permits, and areas where CAFOs are considered to be contributing to environmental impacts, and then go into some detail about what Ecology proposed as part of its preliminary draft CAFO permit and its permit development process moving forward.

## ***Biosketch:***

Jon Jennings is a permit writer and administer with the Water Quality Program at Washington Department of Ecology where is has worked for about the last 8.5 years. He is currently the primary permit writer for the CAFO general permit, helps write other permits (e.g. aquatic pesticide use), and administers many of the aquatic pesticide permits issued by Ecology. Jon completed a BS in chemistry from Western Washington University in 2005 and is close to completing a second BS in Information Systems (computer programming) from City University of Seattle. In his spare time Jon enjoys fishing, photography, cooking, and other outdoor activities.

## ***Directions to the USGS Washington Water Science Center:***

The USGS office is located across from the Pantages Theater, straight across from a “salmon fountain” in the park. Enter the lobby and go to the third floor using the elevator in the back of the lobby. The building is locked after business hours, so someone will be waiting in the lobby to let everyone in between 6:30 and 7:00pm.

The USGS office is just two short blocks away (southwest) from the Theater District stop on the Sound Transit Tacoma Link Light Rail system, which will bring you from the Sounder Train at the Tacoma Dome station. Sound Transit currently has seven trains in the evening from Seattle’s King Street Station. See <http://www.soundtransit.org/>. Travel back to Downtown Seattle is possible via Sound Transit’s Route 594 bus. Further information on connections from Seattle is available via Metro Transit, <http://tripplanner.kingcounty.gov/>.

The USGS office is also a block west of Pierce Transit’s downtown Tacoma Transit Center on Commerce St. For connections, see <http://www.piercetransit.org/>. Limited connections are also available from Thurston County, via Intercity Transit from the same transit center, <http://www.intercitytransit.com/Pages/default.aspx>

For additional directions and a map, see <http://wa.water.usgs.gov/directions.html>