



Water Reuse in Idaho

Fall 2014

This is the first edition of the Idaho Department of Environmental Quality (DEQ) Water Reuse quarterly newsletter. We hope you will find it useful and welcome your input and comments for future editions. Contact your reuse permit coordinator, provided on page 3, if you have any questions.

An electronic version of this newsletter is also available. See "DEQ Resources" at <http://www.deq.idaho.gov/permitting/water-quality-permitting/wastewater-reuse.aspx>.

Water Reuse News

2012 Guidelines for Water Reuse (EPA)

An update to the 2004 US Environmental Protection Agency (EPA) Water Reuse guidelines is available at <http://nepis.epa.gov/Adobe/PDF/P100FS7K.pdf>.

FDA Food Safety Management Act (FSMA)

Proposed rules under the FSMA impose new requirements in the area of (1) waste solids management and use and (2) irrigation water used to grow food crops for direct consumption that may be applicable in certain reuse situations. These US Food and Drug Administration requirements would be in addition to those specified in reuse permits.

This page contains links to general information about proposed rules under FSMA: <http://www.fda.gov/Food/GuidanceRegulation/FSA/default.htm>.

If waste solids are used in animal feed, this part of the proposed rule may apply: <http://www.fda.gov/downloads/Food/GuidanceRegulation/FSMA/UCM412923.pdf>.

Water used for irrigating certain types of crops, such as raw sprouts, has bacterial monitoring requirements:

<http://www.fda.gov/downloads/Food/GuidanceRegulation/FSMA/UCM412921.pdf>.

Double-Cropping Silage Corn and Triticale

Information about double-cropping silage corn and winter forage crops in Idaho is available at <http://www.cals.uidaho.edu/edcomm/pdf/BUL/BUL0869.pdf>.

This technique can increase nitrogen and phosphorus uptake at slow rate land application sites.

New Agrimet Weather Stations in Eastern Idaho

In March 2014, six new AgriMet weather stations were installed in the communities of Grace, Rigby, Ririe, Osgood, Shelley, and Terreton: <http://gcn.com/articles/2014/04/23/agrimet-water-data-web-apps.aspx> and *Capital Press*.

Grazing Management

This document was developed by three northwest universities and contains information that may be useful in developing grazing management plans:

<http://www.cals.uidaho.edu/edcomm/pdf/PNW/PNW0614.pdf>.

Forest Management

The following University of Idaho website provides links that are useful for facilities land applying to forested sites:

<http://www.uidaho.edu/extension/forestry>.

What's New at DEQ

- Permit Application Forms have been updated. The forms include new checklists for plan of operation and technical report content. Contact your DEQ regional office to obtain forms and information regarding their use.
- Quality Assurance Project Plans (QAPPs): in March 2012, EPA approved DEQ's Quality Management Plan. This plan requires that DEQ use *quality* data in all decision-making processes, which includes data generated to meet the monitoring requirements in your reuse permit. Your quality assurance officer (or equivalent) is responsible for approving your QAPP. Current reuse permits require that a QAPP be developed and implemented by a specified date.
- In May 2013, a *water reuse permit template* was developed and is now used by DEQ permit writers to promote consistency in permits.

Idaho Reuse Highlights

- In 2014, Simplot-Caldwell started up a new wastewater treatment facility including reverse osmosis treatment that will allow a portion of the recycled water to be reused in the production plant.

Class A in Idaho!

- The City of Ketchum and Sun Valley Water & Sewer District Class A permit was issued in 2009. Recycled water is used for WWTP irrigation and distribution to a nearby subdivision. Use at the Elkhorn golf course is expected this year, and future uses may include snowmaking.
- The City of Meridian began using Class A reuse water in September 2010. Current users include Heroes Park, landscaping at the Ten Mile interchange, and a commercial car washing facility.

Water Reuse in Idaho

- Approximately 130 water reuse permits are issued in Idaho: 95 municipal and 35 industrial permits.
- Almost 5 billion gallons of recycled water was land applied in 2012 (approximately 15,000 acre-feet).
- Ninety-two percent of systems are slow rate systems and the remainder are rapid infiltration or overland flow systems.
- Seventy percent of municipal permits are Class C or D recycled water quality.



TASCO, near Paul, Idaho, with storage pond and application field in background



Southside near Sagle, Idaho



Kootenai Ponderay in northern Idaho



Glanbia Gooding—membrane treatment

Regional Office Reuse Permit Coordinators

- Coeur d’Alene: Matt Plaisted, (208) 666-4622
- Lewiston: Nicolas Hiebert, (208) 799-4886
- Boise: Valerie Greear, (208) 373-0459
- Twin Falls: Jerimiah “JJ” Fenton, (208) 736-2190
- Pocatello: Scott MacDonald, (208) 239-5018
- Idaho Falls: Tom Rackow, (208) 528-2650

State Office Contacts

- Chas Ariss, Wastewater Engineering Manager, Water Quality Division, (208) 373-0561
- Paul Wakagawa, Water Reuse Permit Coordinator, (208) 373-0514

Water Reuse Permits in Idaho

Current permits issued by DEQ are provided at www.deq.idaho.gov/permitting/issued-permits.aspx?records=10&type=Wastewater+Reuse&sort=effectiveDescending.

For information on municipal wastewater collection and treatment system classification, see <http://www.deq.idaho.gov/water-quality/wastewater/pwws-classification-licensure/system-classifications.aspx>.

Training Calendar

Environmental conferences, trainings, and workshops hosted by DEQ are found at <http://www.deq.idaho.gov/assistance-resources/conferences-trainings.aspx>.

Wastewater Land Application Operator Exam Review: This training will be offered in October and November 2014. See details at <http://www.deq.idaho.gov/assistance-resources/conferences-trainings/wastewater-land-application-exam-preparation.aspx>. For questions, contact Brenda Valverde at brenda.valverde@deq.idaho.gov or (208) 373-0522.

Note: The updated *Wastewater Land Application Operators Study and Reference Manual* for reuse systems was completed in May 2014 and is available at www.deq.idaho.gov/media/1117548/ww-land-application-operators-study-reference-manual.pdf.

Send address, name, or e-mail corrections to paul.wakagawa@deq.idaho.gov.