

OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES

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Study maps changes in Sandy River channel

Portland, Oregon: The Oregon Department of Geology and Mineral Industries (DOGAMI) has released a study showing changes between 2007 and 2011 to the upper Sandy River channel geometry in the area nearby Brightwood, Mt. Hood Village, Welches, Wemme, and Zigzag. With the removal of the Marmot dam on October 17, 2007, the river's sediment regime changed: approximately 730,000 cubic meters of stored sand and gravel were released downriver.

Open-File Report O-13-01, Change detection analysis using serial lidar data along a portion of the Upper Sandy River, Multnomah and Clackamas Counties, Oregon, indicates large amounts of sediment were eroded and deposited between 2007 and 2011, especially in five areas of channel. Most of the change likely resulted from large flows due to flooding occurring January 2, 2009, and January 16, 2011.

The publication, a 48 x 36 inch, 1 inch=1,000 ft scale, map plate PDF, can be previewed here:

<http://www.oregongeology.org/pubs/ofr/p-O-13-01.htm>

DOGAMI Open-File Report O-13-01 can be purchased on CD-ROM for \$15 each from the Nature of the Northwest Information Center (NNW), 800 NE Oregon Street, Suite 965, Portland, Oregon, 97232. You may also call NNW at (971) 673-2331 or order online at <http://www.NatureNW.org>. There is a \$4.95 shipping and handling charge for all mailed items.

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The Oregon Department of Geology and Mineral Industries is an independent agency of the State and has a broad responsibility in developing an understanding of the state's geologic resources and natural hazards. The Department then makes this information available to communities and individuals to help inform and reduce the risks from natural hazards, such as earthquakes, tsunamis, landslides, floods and volcanic eruptions. The Department assists in the formulation of state policy where an understanding of geologic materials, geologic resources, processes, and hazards is key to decision-making. The Department is also the lead state regulatory agency for mining, oil, gas and geothermal exploration, production and reclamation.

Learn more about Oregon's geology online: <http://www.OregonGeology.org>

DOGAMI's mission is to provide earth science information and regulation to make Oregon safe and prosperous.

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