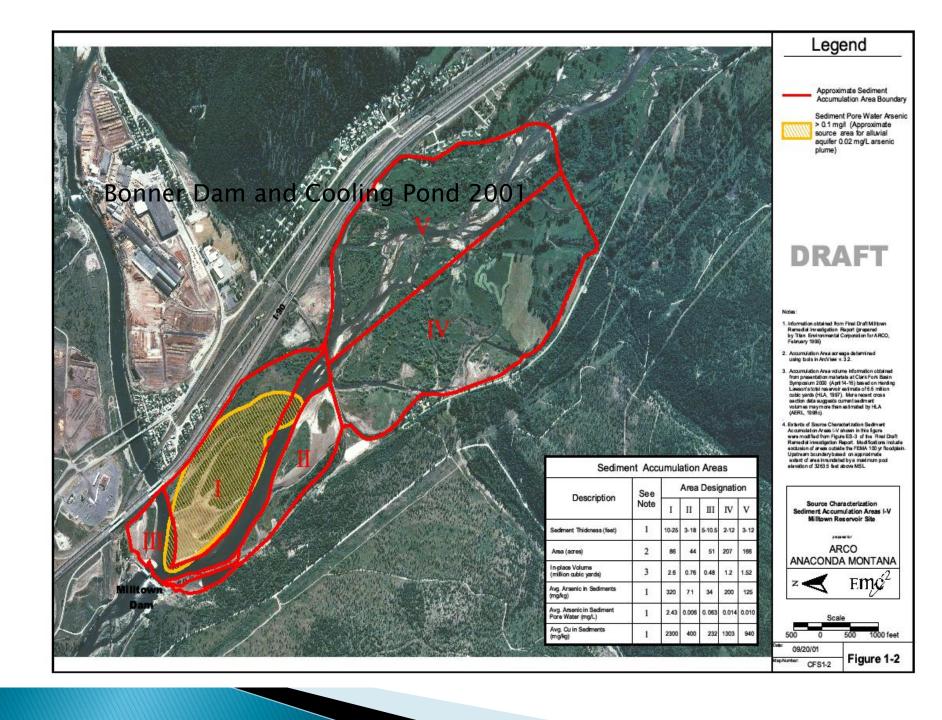
Stimson Cooling Pond PCB Cleanup Project

Keith Large – DEQ Project Manager Bill Kirley – DEQ Legal

> DEQ Rem. Div. Update Nov. 12, 2014

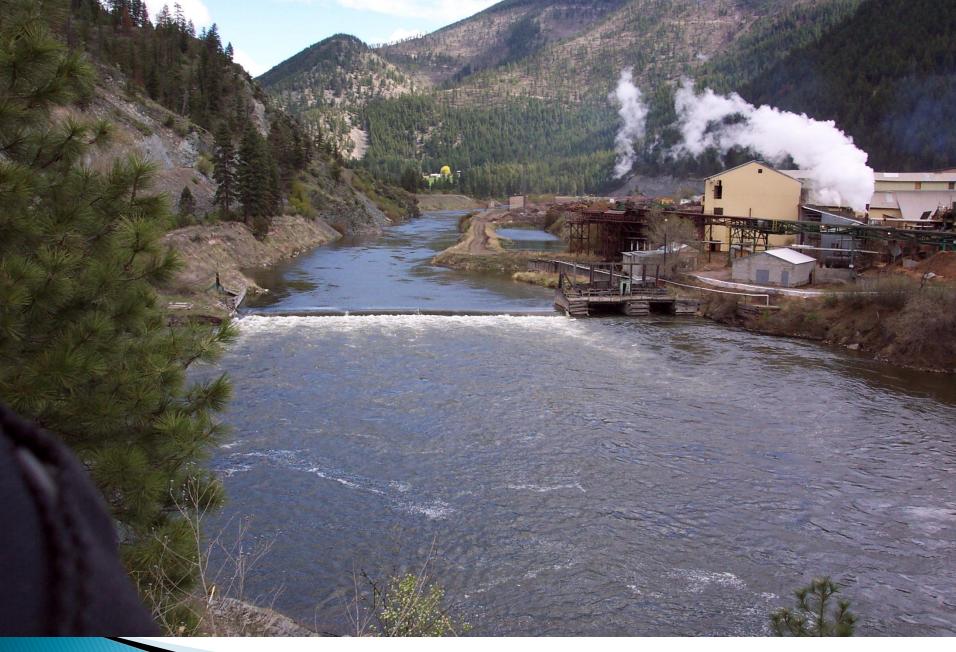


- PCB project began in January 2006
- PCBs are regulated by TSCA
- DEQ used a combination of three different authorities to justify the response action
 - MT Water Quality Act
 - CECRA
 - CERCLA

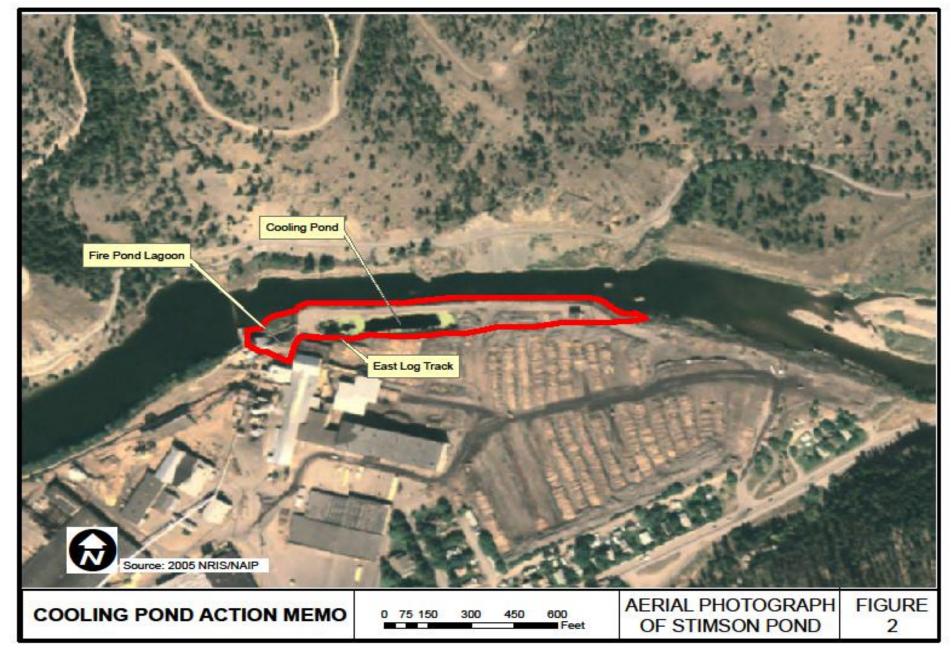
- 2006 2008 DEQ characterized the site and drafted an EE/CA
- EE/CA public comment period Sept./Oct. 2008 (ended up being 60 days)
- DEQ Action Memo signed in October 2009
- AOC signed by DEQ and Stimson Lumber Co. in April 2010
- Construction Work Plan and 404 Permit package approved in September 2010

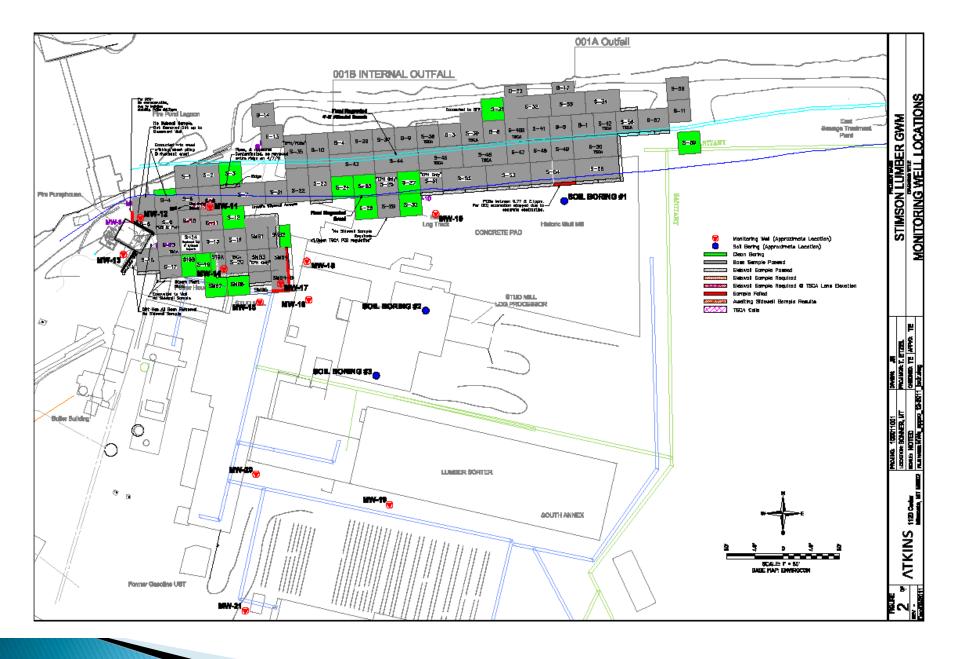
- Construction also began in September 2010
- To-date, about 100,000 cubic yards of PCB impacted soils have been removed and disposed of
- Contaminated materials have been disposed of in a;
 - permitted off-site RCRA landfill
 - the local Missoula landfill
 - or the on-site repository
- Three different construction Phases were done to complete the work to-date





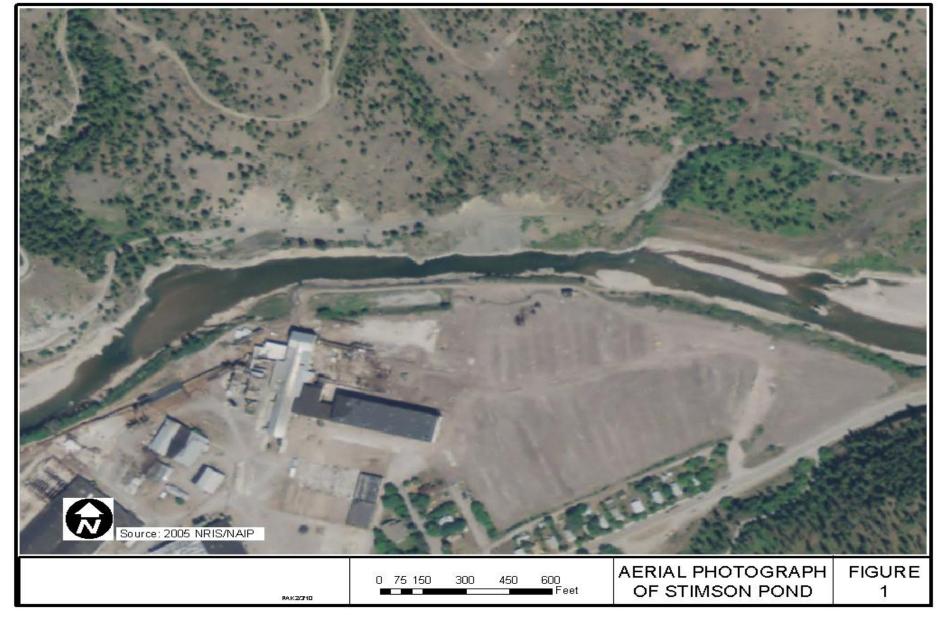




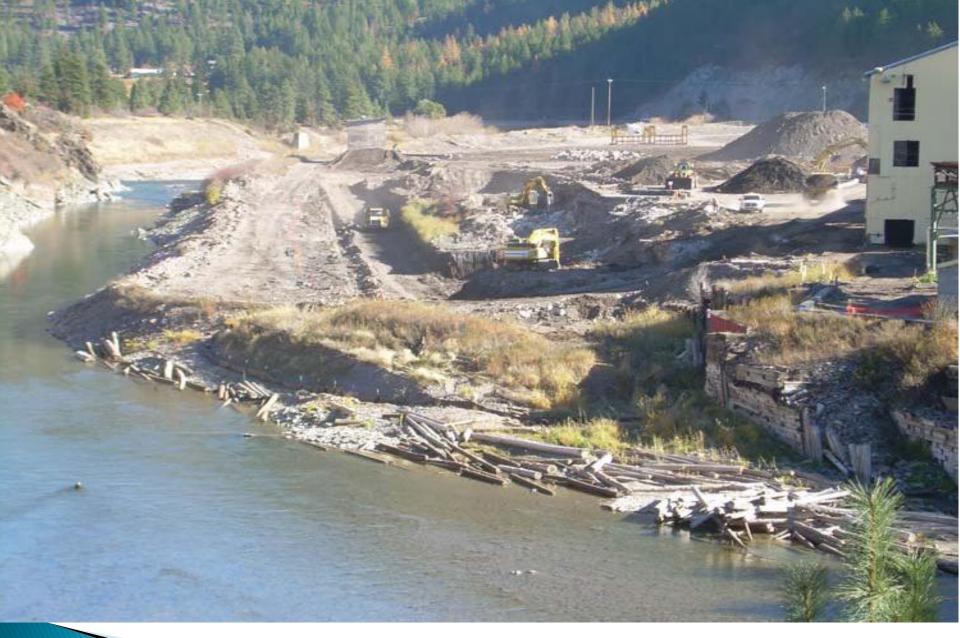


Phase I Construction

- September 2010 to May 2011
- Cooling Pond Removal Action
- PCB Waste Disposal
- PCBs contaminated materials ranging from 0.22 ppm to 0.74 ppm were placed in an onsite repository
- Materials ranging from 0.75 ppm to 50 ppm went to the local landfill
- Materials above 50 ppm PCBs went to a RCRA landfill in Idaho



Summer 2010



Fall 2010



January 2011



February 2011



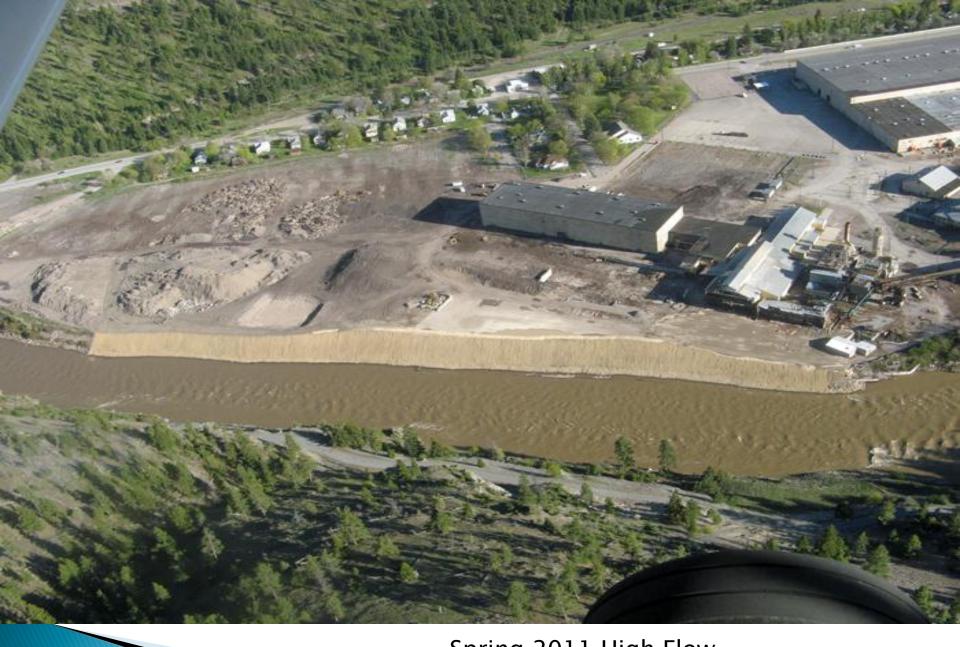
July 2011



- The expanded on-site repository covers almost 3 acres
- The repository contains about 40,000 cubic yards of material – all below 10 ppm PCBs
- SPLP calculations indicate that the material won't leach if it is below 13.2 ppm PCBs
- The bottom of it is an old concrete slab foundation with a 20 foot separation between the bottom of the repository and groundwater
- The cap is a two foot thick vegetated cap made of 18" of clean material and 6" growth media
- Repository is fenced and has three downgradient GW monitoring wells

Phase II Construction

- November 2011 to February 2012
- Rock-in-River Removal Action
- Expanded Repository Construction



Spring 2011 High Flow





November 2011









Phase III Construction

- November 2013 to May 2014
- Final Bonner Dam Removal (NRD and FWP)
- ▶ MW-15 Well Area Removal Action (PTCS)
- MW-13 Well Area Removal Action





















