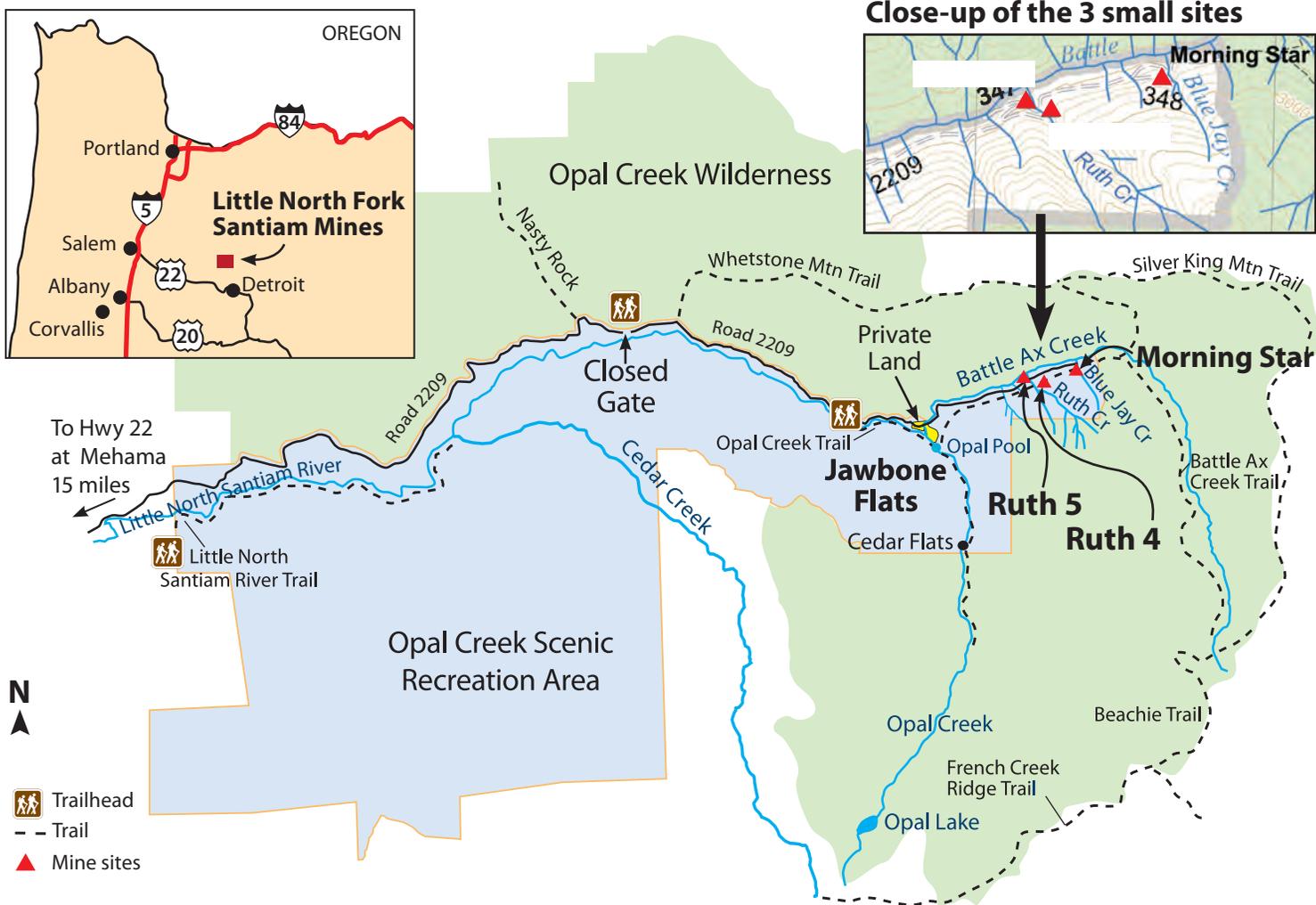


**Greetings:** The Detroit Ranger District is continuing its efforts to clean up old, abandoned mine sites. This flyer describes our latest project. These 3 small sites are located on small streams that drain into Opal Creek, about 2 miles above Jawbone Flats. Mine waste at the sites contains lead and other hazardous substance that has historically been released into the aquatic ecosystem, and threatens to be released in future flooding events. We've shown these sites via pictures and diagrams and we're writing to you to gather any written feedback or concerns you might have. We'll evaluate your comments and then provide another opportunity for the public to review and comment on the analysis documents. The actions being considered are conducted under a site clean-up law called the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (commonly referred to as CERCLA). If it is decided that waste rock will be removed from the stream edges and stabilized, the project is currently projected to take place in the fall of 2012. Please respond with your comments no later than 30 days from the date on this flyer.



Morning Star waste rock pile

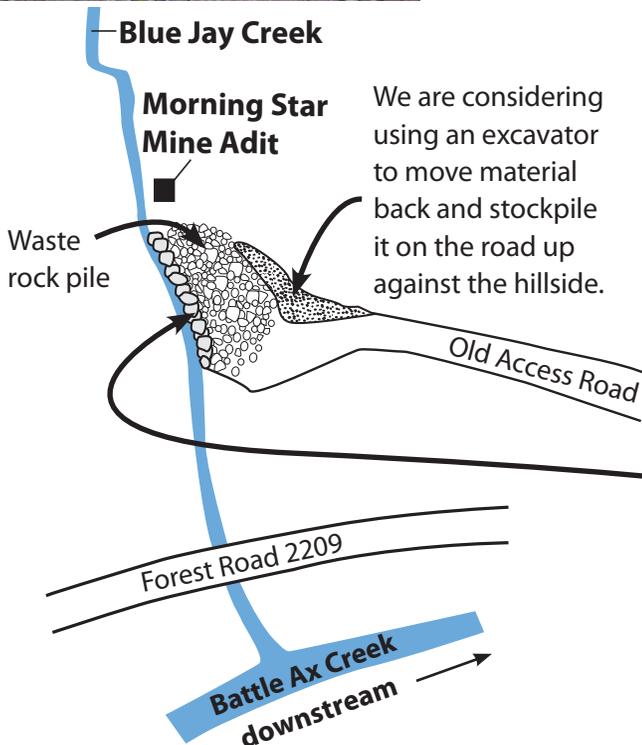
### Morning Star Mine

Shallow debris slides along the banks of the waste rock have already resulted in sediment getting into the stream. Untreated, slides will continue to persist.

Water rising in Blue Jay Creek will likely cause erosion of the bottom of the mine waste. When this occurs, lumber debris at the mine site would cause the creek's channel bottom to erode the lower banks. This in turn will cause the waste rock material directly downstream of the adit to erode and enter Blue Jay Creek.

**To help prevent waste rock entering the creek and reduce the risk of water eroding the waste rock material on the banks,** the alternative under consideration would remove waste rock and wood debris from the channel and stockpile it in the old road bed.

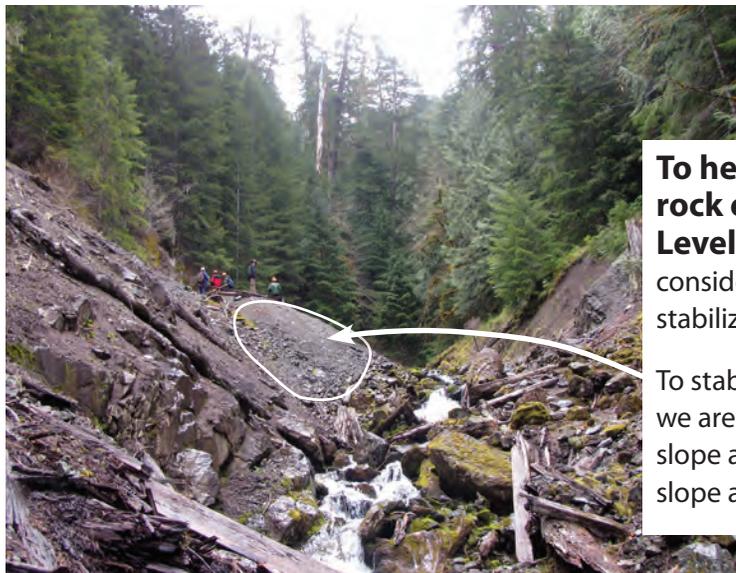
Rocks excavated from the site that are larger than 16 inches in diameter are being considered for placement along the margins of the creek's channel bank. This will stabilize and reduce erosion of the creek's bank.



## The Ruth Mines: Levels, 4 & 5

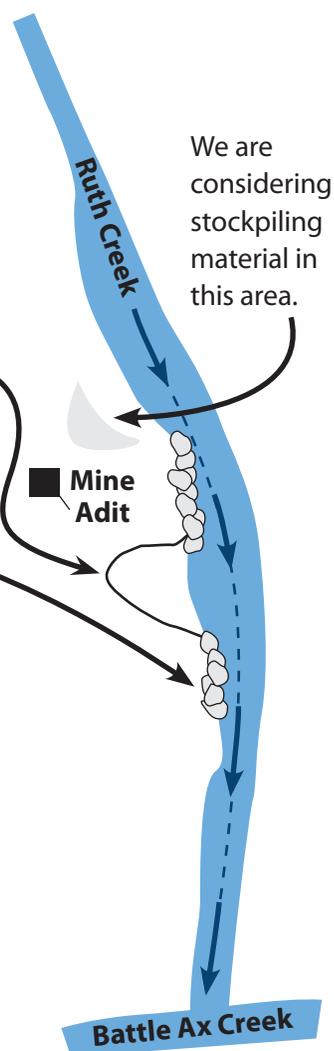
Material has been lost at the base of the slope at Ruth mines from past flooding. Because of the slope's over-steepened condition and potential for more stream erosion, there is potential at Level 4 for more erosion of the waste rock pile. Also, the rock buttress at the toe of the slope of the waste rock pile does not extend the entire length of the pile. This unprotected area shows evidence of previous slope failure.

### Level 4



**To help prevent waste rock entering the creek at Level 4,** the alternative under consideration would move and stabilize this waste rock pile.

To stabilize and protect the slope, we are considering re-grading the slope and buttressing the toe of slope along the creek.



**At Level 5 of the Ruth mine** the alternative under consideration would monitor the quality of the water leaving the adit and flowing into Battle Ax Creek.

The access road at Level 5 would be blocked by placing large boulders at the intersection with Forest Service Road 2209.

## Questions and Comments

Questions? Please contact Grady McMahan, District Ranger for the Detroit Ranger District, at 503-854-4200. Please send written comments to Grady McMahan at HC73, Box 320, Mill City, OR 97360. It would be most helpful if you would respond no later than 30 days from the date on this flyer.

Detroit Ranger District  
HC73, Box 320  
Mill City, OR 97360

