Woodland Park Area

Contamination History

- Prior to 1965 all of the mills along Canyon Creek discharged most, if not all, of their tailings to the stream. Flooding spread wastes onto the Woodland Park floodplain.
- Plank and pile tailings dam constructed early 1900's at southern narrows to impound Canyon Creek tailings. Dam later breached in 1917 flood.
- Star Mine tailings ponds constructed beginning in 1965. Contain an estimated 3.4 million tons and occupy about 66 acres. Total of 6 ponds.
- In 1997 and 1998 Silver Valley Natural Resource Trustees (SVNRT) removed about 600,000 cubic yards of wastes from floodplain and other Canyon Creek areas and consolidated it in the SVNRT repository in Woodland Park.

Current Known Contaminant Sources

- Residual tailings in floodplain and along creek.
- Groundwater contaminated by contact with residual tailings.
- Seepage from SVNRT repository (see photos).
- Seepage from Star Mine tailings ponds.
- Mine water piped from the Gem Portal and Star Mine.
- Old Wallace private landfill.
- Flood sediment from upstream mine sites (see photos).

Proposed Cleanup Plan (see figure)

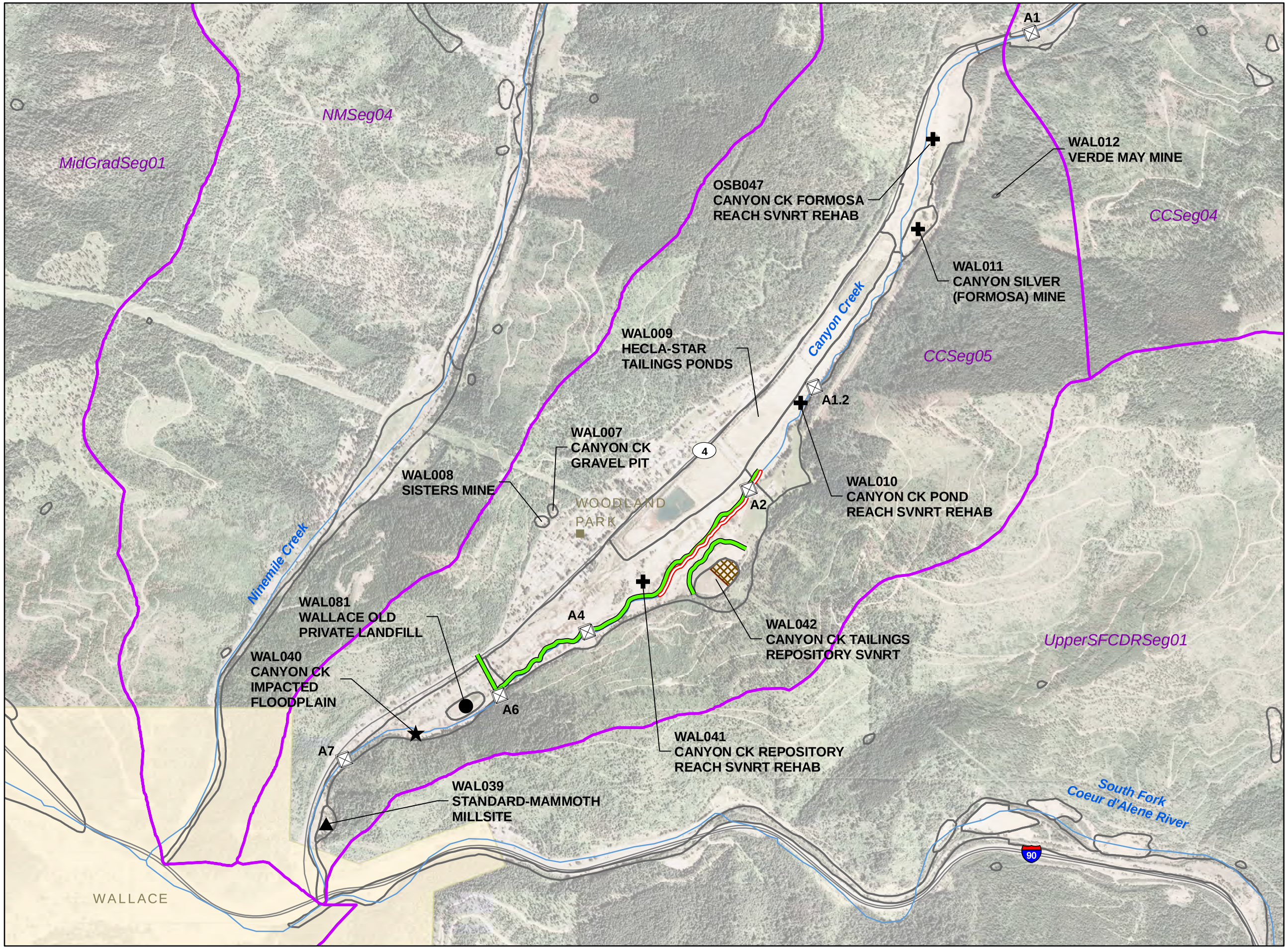
- Line portion of Canyon Creek to reduce leakage into underlying tailings.
- Install French drain to collect contaminated groundwater before it enters creek.
- Install French drain to collect SVNRT seepage.
- Collect Gem Portal and Star Mine flows.
- Treat collected groundwater, Gem Portal, and Star Mine flows at Central treatment Plant (CTP) in Kellogg.
- Place soil cap over SVNRT repository.
- Remove tailings and sediment (about 40,000 CY)

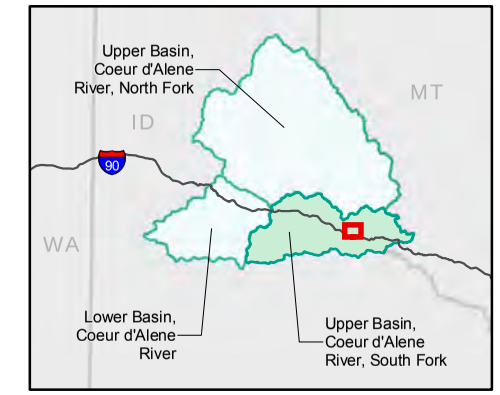
Seep from SVNRT Repository in Woodland Park which drains into Canyon Creek

Close-up of Seep from SVNRT Repository in Woodland Park.

Erosion at Frisco Mill during May 2008 spring runoff.

Erosion at Tamarack No. 7 (1200 Level) during May 2008 spring runoff.





2006 Hydrologic Study Monitoring Station

Source Control Actions:

- Excavate Floodplain Artificial Fill
- Excavate Floodplain Sediments
- Excavate Upland Tailings
- Shallow Source Control

WAL012 (Site ID)
VERDE MAY MINE (Site Name[1])

- River/Creek
- French Drain
- Stream Liner
- Native Soil Cap
- Watershed Segment[2]
- Site
- City Limit

N

0 500 1,000 2,000 Feet

Base Map Data:
NHDPlus (Hydrography, 2005);
ESRI (Roads, Jurisdictional Boundaries, 2006).

Notes:
1. The source IDs and names are based on the inventory of source sites conducted by the Bureau of Land Management (BLM) in 1999 in support of the Remedial Investigation/Feasibility Study (RI/FS) for the Coeur d'Alene Basin (U.S. Environmental Protection Agency [USEPA], 2001a, 2001b).
2. **CCSeg05** = Segment within the Upper Watershed of the Coeur d'Alene River Basin, designated as such to focus the 1997-2001 Remedial Investigation U.S. Environmental Protection Agency (USEPA, 2001a).

Figure E-5
Option C:
Stream Liners, French Drains, and Source Control Actions
Updated Woodland Park Components of Ecological Alternatives 3 and 4
Focused Feasibility Study
Upper Basin of the Coeur d'Alene River
BUNKER HILL SUPERFUND SITE

EPA