
Victoria E. Mitchell
Virginia S. Gillerman

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Field Inspection conducted by Virginia S. Gillerman and Gregg Beukleman
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Table 1. Summary of sites in the Bunker Hill area, Blaine County, Idaho. .......................... 5
GEOLOGY

The Bunker Hill area (Figure 1) is underlain by the Dollarhide Formation of Pennsylvanian and Permian age and by intrusive granitic rocks of Cretaceous age (Figure 2). The Dollarhide Formation is composed of dark-colored and carbonaceous calcareous sandstone, calcareous siltstone, silty and sandy limestone, and silty argillite (Worl and others, 1991). There is probably enough carbonate in the Dollarhide Formation to neutralize any acid mine water from mines that are hosted in this unit. Sedimentary units in the surrounding area include the Devonian Milligen Formation and the Wood River Formation of Pennsylvanian and Permian age (Worl and others, 1991).

The Westlake properties were discovered around 1907, and a description of the deposit can be found in Anderson (1950; Figure 3). Mineral deposits in the surrounding area are discussed in Link and others (1995), and Worl and Johnson (1995). Most of the significant mines in this area were discovered before 1900 (Lindgren, 1900), and major production of lead and silver occurred at that time (Umpleby and others, 1930).

HAZARD ASSESSMENT

SITE ID-0054-00010: WESTLAKE NORTH (IVANHOE) MINE (HA-1187)

The Westlake North property is southeast of Gilman Butte and west of Hailey in the Bellevue 7.5-minute quadrangle. The mine is reached by a long and poor road up the East Fork of Rock Creek. Though presumably a lead, zinc, and silver producer, little evidence of mineralization was seen at the site. The rocks consist of black argillite with some intrusive rocks. It is one of the few properties in the region with a sizeable open pit.

Two major workings were mapped. Adit #1 is next to the end of the road up the East Fork of Rock Creek (Figure 10-5). The drainage is marked by a riparian zone of bushes and trees, which hide the wooden portal. The adit is 3 feet high (Figure 10-3), approximately 4 feet wide, and appears to be open at least 30 feet. It is posted with a “No Trespass” sign. Water, discharging from the adit at a rate of 5-10 gallons per minute, had a pH of 8.3 and a conductivity of 410 µS. For some 50 feet in front of the portal, the water supports a messy swamp filled with lush lilies and watercress (Figure 10-4). The adit is nearly inaccessible due to the vegetation and the swampy approach. Rails extend from the adit to a modest waste dump; both are in the floodplain of the creek. A collapsed wooden building, an old trailer, several rusty car bodies, two empty and rusting fuel drums, and a large pile of trash are located at the Site ID point at the end of the road.

The large open pit is a short distance south of the adit, across the creek and uphill. The pit is approximately 300-400 feet long and 60 feet wide. It is 30 feet deep on the sides, but on the east end, there is a dangerous high wall that is up to 100 feet high in places and very steep (Figure 10-7). A fence with warning signs is needed on the uphill side. There is minor water seepage in the bottom of the pit (Figure 10-8), which may have originally been an adit or shaft. The rocks
Figure 1. Location map of the Bunker Hill area near Hailey and Bellevue, Blaine County, Idaho (Idaho Transportation Department Fairfield 30x60-minute quadrangle, scale 1:100,000).
Figure 2. Geologic map of the area around the Mineral Hill and Camas mining districts. Dm = Milligen Formation; PPDl, Pdm, Pdu = Dollarhide Formation; Pwh = Wood River Formation; Kgdk, Kqd = Idaho batholith; Tct, Tca = Challis Volcanics; Tv = Miocene Idaho Volcanics; Tmf = Miocene lava flows (Magic Mountain eruptive center); Qt = terrace gravels; Qa = alluvium. Heavy lines are faults: ball and bar on downthrown side of normal fault, sawteeth on upper plate of thrust fault, and hachures on upper plate of low-angle normal faults (Worl and others, 1991; enlarged to a scale of approximately 1:125,000).
Figure 3. Geologic maps of the surface and accessible underground workings at the Westlake Mine (Anderson, 1950, Figure 13).
Table 1. Summary of sites in the Bunker Hill area, Blaine County, Idaho. Site name in bold indicates property has one or more significant potential environmental or physical hazards. Under "Environmental Hazards": T = a mill tailings problem, D = dump material in or near waterway. Under "Physical Hazards" – Features: A = adit, P = prospect pit, S = shaft, St = stope; Condition: O = open, C = Caved. ? = Unknown (condition or number).

<table>
<thead>
<tr>
<th>BLM Site Number</th>
<th>IGS Property Number</th>
<th>Mine Name</th>
<th>Environment Hazard</th>
<th>Physical Hazard</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID-0054-00010</td>
<td>HA 1187</td>
<td>Westlake North (Ivanhoe)</td>
<td>W</td>
<td>1AO</td>
<td>Clean up trash; fence highwall on pit</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1AC</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1P</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00011</td>
<td>HA 1197</td>
<td>Westlake South, Site B</td>
<td></td>
<td>1AC</td>
<td>Fence the highwall on the shaft</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1SC</td>
<td></td>
</tr>
<tr>
<td>ID-0054-00012</td>
<td>HA 1197</td>
<td>Westlake South, Site A</td>
<td></td>
<td>1AO</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>3AC</td>
<td></td>
</tr>
</tbody>
</table>
exposed in the pit are principally argillite, which is intruded by a mafic sill. A large, heavily vegetated waste dump is spread out on the western side of the pit (Figure 10-6). Anderson (1950) describes the mine workings at the Westlake North property as tunnels, shafts, and a series of cuts, but does not mention the open pit. This suggests that the pit was excavated after 1949.

A second adit (Adit #2) is located at the adit symbol on the Bellevue 1:24,000 topographic map. It is completely caved and dry. No photographs were taken.

The remediation measures recommended at the Westlake North property include a warning fence on the high wall of the open pit and trash cleanup.

SITE ID-0054-00011: WESTLAKE SOUTH PROPERTY, SITE B (HA-1197b)

Access to the Westlake South property is from a rocky four-wheel-drive jeep trail up Long Gulch. Site B of the Westlake South property consists principally of the shaft that is shown next to the road in the bottom of the canyon almost due south of Bunker Hill on the Bellevue 1:24,000 topographic map. The shaft is near the east sideline of Section 7, T. 1 N., R. 18 E. Anderson (1950, Figure 13) shows the Westlake South workings in Section 8 as well as Section 7 (note the difference between where Anderson shows the section line (Figure 3) and where it is shown on the U.S. Geological Survey topographic map (Figure 11-1)). Site ID-0054-00012 corresponds to the Westlake South workings as mapped by Anderson (1950; Figure 3), and it is likely that the Long Gulch shaft (Site ID-0054-00011) is part of these workings.

The country rocks are black argillite, mapped as part of the Dollarhide Formation. The mine was reportedly a Pb-Zn-Ag-Cu property, although no sulfides were noted during the field examination.

The shaft is located accurately on the published topographic map. It is only 6 feet from the road, which crosses the dump. There were tracks on the roads, although the area is rather remote and the roads appeared little used. BLM personnel had reported the shaft was open, but it is now caved, leaving a hole 15 feet in diameter and 15-30 feet deep. The high wall (Figure 11-4) would be dangerous to someone coming too quickly down the very steep slope above the shaft or traveling too fast along the road on a trail bike or snowmobile. However, it is easy to climb out of the depression. Figure 11-3 shows the caved shaft and a few of the burned timbers lying on the small dump.

Two caved adits with modest waste dumps were somewhat arbitrarily included with Site B of the Westlake South property. One is southeast of Bunker Hill along the road leading toward the saddle, and the other is on the southeast flank of Bunker Hill itself. No action is recommended on the Westlake South property.

SITE ID-0054-00012: WESTLAKE SOUTH PROPERTY, SITE A (HA-1197a)

This property sits on the saddle and ridge due east of Bunker Hill and northeast of the shaft on the road in Long Gulch (ID-0054-00011). This site was identified in the field as the
Hidden Treasure Mine (HA-1196; rover file: HA-1196.cor). However, Anderson (1950) shows this area as the south end of the Westlake property, which is the name used here.

Site ID-0054-00012 consists of a number of workings, principally adits, located on the ridge southeast of Bunker Hill between Bunker Hill and Hill 6260. These adits are shown on the Bellvue 1:24,000 topographic map (1986 edition) in the northwest quarter of Section 8, T. 1 N., R. 18 E. A few minor cuts could also be seen in the area. The country rock was black argillite, and most of the dumps showed oxidized, iron-stained quartz.

Four adits, each with a corresponding modest-sized waste dump (see Dump #3 in Figure 12-5), and one prospect were mapped. Adit #3 was open at least 75 feet. It is located on the steep, west side of the ridge. This adit is 4 feet wide and has a 3-foot-high opening in competent rock (Figure 12-4). The portal is in sandy, limey argillite cut by a bluish quartz vein. The dump included abundant gossanous quartz with some secondary lead oxides.

The other adits were caved (see Adit #2 in Figure 12-3). Dumps were mostly clear of trash, except for a few old timbers and shovels. The main road leads to Adit #4, which appears to have been the lowermost haulage level. The portal was caved, but it did have a 25-foot highwall behind it (Figure 12-6).

Although tire tracks were visible on the jeep trail at the site, the area is remote and appears to get few visitors. A gate for Adit #3 is the only suggested corrective measure, although the Westlake South site must be considered low priority relative to many others in the region.

REFERENCES


Link, P. K., J. B. Mahoney, D. J. Bruner, L. D. Batatian, Eric Wilson, F. J. C. Williams, 1995, Stratigraphic setting of sediment-hosted mineral deposits in the eastern part of the Hailey 1°x2° quadrangle and part of the southern part of the Challis 1°x2° quadrangle, south-central Idaho: Part C in Ronald G. Worl, Paul K. Link, Gary R. Winkler, and Kathleen M. Johnson, editors, Geology and Mineral Resources of the Hailey 1°x2° Quadrangle and the


SITE INSPECTION REPORTS FOR MINES IN THE BUNKER HILL AREA
A. SITE IDENTIFICATION
ID Number: 1 D 0 0 5 4 0 0 1 0
Site/Mine Name: Westlake North (Ivanhoe) (HA-1187) Primary Commodity: Pb, Zn, Ag

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4814317 N 714204.7 E Zone 11 ___ AND
Township: 1 N Range: 18 E Section: 6 Subdivision: SW1/4 SE1/4
Meridian: Boise 08 County: Blaine 013
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM X / Non-BLM ___

C. ACCESS
Visible from: Nearest road X / Trail ___ / Population center ___
Access by: 2wd X / 4wd ___ / Hike ___ / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Poor road from Rock Creek ___

Recent human use: X Describe: Abundant trash; shots were heard ___

D. SITE DESCRIPTION
Acresage: _ Elevation: _
General slope (degrees): 0-10 ___ / 11-35 X / >35 ___
Floodplain: Disturbance in X / Adjacent to X / NA ___ East Fork Rock Creek
Recent mineral activity ___ Describe: _______________________________

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits 1 / Closed adits 1 / Open inclines ___ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stopes ___
Other openings ___ Type ___
Trenches ___ Length ________ / Prospects ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length 100 feet high ___
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___
Mills ___ Type ___ ___ ___ ___
Explosives ___ ___ Describe: ________________________________
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways X / Rails ___
Powerlines ___ ___
Structures 1 ___ Type ___ Collapsed wooden shed; old trailer ___
Condition: Good ___ / Fair ___ / Poor X ___ / Number Locked ___
Homesites ___ ___
Other: Trash ___

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed (Weeds) / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ X ___ / Describe: Lush lilies and watercress along adit drainage. The range land has been taken over by weeds, with star thistle all over.

ANIMALS
Evidence: X ___ / Presence: ___ / Describe: cow manure

GEOLOGY
Black argillite on dump, some limestone and intrusive rock
Staining of soils ___ Describe:
Sulfide minerals minimal Type(s):
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: Adit #1 pH Conductivity Flow (GPM) Sketch #
Standing water in workings: ___ ___ ___ ___ ___
Water through/over tailings: ___ ___ ___ ___ ___
waste rock: ___ ___ ___ ___ ___
ore: ___ ___ ___ ___ ___

Adjacent water sources:
Type pH Conductivity Flow (GPM) Distance
Ground water:
Surface water:
Surface H2O above site:
Surface H2O below site:

Evidence of aquatic life: ___ Location: ________ Describe: ________

Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___
Brown ___ / Green ___ / Grey-Black ___ / Other ___ looks clear and okay ___

Samples collected: ___ Sketch #(s): ________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ___ / Acid or Chemical odor ___ / Asbestos ___
Petrochemical Products ___ / Dump sites ___
Power Substations ___ / Transformers ___

Barrels, Tanks, Containers 2 ___ Leaking: ___ Contents: Empty, rusted 55-gallon fuel drums on bench above Adit #2
Evidence of Underground Storage Tanks: ___ Describe: ________

Other: Rusty 55 gallon fuel drums on bench above Adit 2

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills _____ / Gullies _____ / Sheetwash _____
Unstable Rock _____ / Slope instability _____ / Wind erosion _____

MITIGATION STATUS
None _____ / Fencing _____ / Signs _____ / Safety hazards mitigated _____
Other: ____________________________________________________________

Mitigation condition: Good _____ / Fair _____ / Poor _____
Site ID tags: _____ / Locations: ______________________________________

OPTIONAL: Identify the critical reclamation measures needed:

_____ Cable nets, grates _____ Topsoil, soil amendments
_____ Permanent seal _____ Revegetation
_____ Gates _____ X Stabilize/destroy structures
_____ Backfill openings, pit _____ Drainage control
_____ Recontour _____ Water treatment
_____ Fences _____ Wildlife closure
_____ Warning signs _____ No action
_____ Plug open drill holes _____ Trash / clean up
_____ Other: ______________________________________________________

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features
on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  HA1187.cor _____

K. PHOTOGRAPHS
Number of photographs taken: Roll 4 (Neg. 9300), frames 1-6

L. ACTION
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM _____
HAZMAT _____ / Other _____________________________________________

Reason: Clean up trash and fence the riparian area. The gate is a lower priority.

(03/95)
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit #1</td>
<td>may be 30 feet; caved inside</td>
<td>~4 feet</td>
<td>3 feet open</td>
<td>open, but nearly inaccessible</td>
</tr>
<tr>
<td>Dump #1</td>
<td>60 feet</td>
<td>40 feet</td>
<td>5 feet</td>
<td></td>
</tr>
<tr>
<td>Dump #2 (from open pit)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pit #1</td>
<td>300-400 feet</td>
<td>60 feet</td>
<td>Highwall 100 feet; rest ~30-50 feet</td>
<td>Fence highwall</td>
</tr>
<tr>
<td>Adit #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dump at Adit #2</td>
<td>20 feet</td>
<td>50 feet</td>
<td>5 feet</td>
<td></td>
</tr>
<tr>
<td>Collapsed building</td>
<td>12 feet</td>
<td>16 feet</td>
<td></td>
<td>clean up trash</td>
</tr>
<tr>
<td>(at site ID point)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

See next page.
Field Notes:

There is lots of trash at this site, much of which has been left fairly recently. Campsite remains are also present, as well as evidence of livestock in the riparian zone.

Rails come out from Adit #1. The adit is open (Figure 10-3), but is posted with a "No Trespassing" sign. The approach is very swampy (Figure 10-4), which would discourage most people from investigating it. A collapsed building is across the road from the adit (Figure 10-5).

Adit # 2, shown on the map on the south side of the creek, is caved, dry, and vegetated.

Pit #1 is large and has a dangerous highwall (Figures 10-6, 10-7, and 10-8). It is fairly remote, but the highwall should be fenced. Some water is seeping into the bottom. This pit may originally have been an adit. There is a question whether the pit was a mine or a road metal quarry. The rock is argillite with basalt intrusive.
Figure 10-1. Topographic map of the Westlake North (Ivanhoe) Mine, Blaine County, Idaho (U.S. Geological Survey Bellvue 7.5-minute topographic map).
Figure 10-2. Map of the Westlake North (Ivanhoe) Mine, showing the features logged during the site inspection. GPS data is not available for Adit #2 or its associated dump.
<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (Neg. 9300)</td>
<td>1</td>
<td>looking east</td>
<td>Adit #1 portal</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>2</td>
<td>looking down</td>
<td>Adit #1 – vegetation and water</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>3</td>
<td>looking east</td>
<td>Pit #1 open cut – bottom of the pit, with water</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>4</td>
<td>looking east</td>
<td>Pit #1 open cut – highwall</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>5</td>
<td>looking west</td>
<td>From the top of the highwall, looking down at the cut and dump</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>6</td>
<td>looking west</td>
<td>Site ID Point, showing collapsed buildings and junk cars. The Adit #1 dump is on the left.</td>
</tr>
</tbody>
</table>
A. SITE IDENTIFICATION
Other BLM ID Number:
Locatable ____ / Leasable ____ / Salable ____
Operator (last known):
Commodities: Primary ____ / Secondary ____________________________
Other Agency ID Number: __ Agency: ________________________________

B. LOCATION DATA
Site is in ____ or within a mile ____ of:
ACEC ____ / WSA ____ / Wilderness Area ____ / Riparian Area ____
Nominated for Designation to National Wild & Scenic River System ____

C. ACCESS
Distance in Miles to Closest Public:
Road ____ Dwelling ____ School ____
Potable Water ________ Water Source ____ Trail ____
Campground/Picnic Area ____ Other Public Use ____

D. SITE DESCRIPTION
Nearest named drainage: ____ Distance: ____

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action ____
CERCLIS Number ____ OR
Federal Docket Number __________

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species ____________________________
Cultural Resources ____________________________
Historic ____________________________
Other ____________________________

Date reclamation completed: ____________________________ Cost: ____________________________
Type of closure: ____________________________ Comments: ____________________________

Monitoring frequency: ____ Dates of monitoring visits:

(03/95)

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
I. INTERVIEWS

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

Name
Address

Phone
Affiliation

Comments:

(03/95)
Figure 10-3. Portal for Adit #1 at the Westlake North (Ivanhoe) Mine. The view is to the east (Roll Hailey 4 (9300), frame #1; photograph by Virginia S. Gillerman; September 13, 1997).

Figure 10-4. Water from Adit #1 at the Westlake North (Ivanhoe) Mine. Note the abundant vegetation. The view is downward (Roll Hailey 4 (9300), frame #2; photograph by Virginia S. Gillerman, September 13, 1997).
Figure 10-5. Collapsed building (Site Identification Point) opposite Adit #1 and Dump #1 at the Westlake North (Ivanhoe) Mine. The view is to the west (Roll Hailey 4 (9300), frame #6; photograph by Virginia S. Gillerman; September 13, 1997).

Figure 10-6. Looking down at the pit and dump from the top of the highwall of Open Pit #1 at the Westlake North (Ivanhoe) Mine. The view is to the west (Roll Hailey 4 (9300), frame #5; photograph by Virginia S. Gillerman, September 13, 1997).
Figure 10-7. Highwall of Open Pit #1 at the Westlake North (Ivanhoe) Mine. The view is to the east (Roll Hailey 4 (9300), frame #4, photograph by Virginia S. Gillerman; September 13, 1997).

Figure 10-8. Bottom of Open Pit #1 at the Westlake North (Ivanhoe) Mine. The view is to the east (Roll Hailey 4 (9300), frame #3, photograph by Virginia S. Gillerman, September 13, 1997).
BUREAU OF LAND MANAGEMENT
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
ID Number: 0 0 5 4 - 0 0 0 1 1
Site/Mine Name: Westlake South, Site B (HA-1197b) Primary Commodity: Pb, Zn, Ag

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: __ LONG: __ OR
UTM Coord: 4812305 N 714742.1 E Zone 11 AND
Township: 1 N Range: 18 E Section: 2 Subdivision: SE1/4 NE1/4
Meridian: Boise 08 County: Blaine 013
Surface: BLM ___ Non-BLM ___ Mineral Estate: BLM ___ Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ Trail ___ Population center ___
Access by: 2wd ___ 4wd ___ Hike ___ Other ___
Access disturbance in need of reclamation: Length ___ Width ___ Acres ___
Road Log: 4-wheel-drive road up Long Gulch, then jeep trail.

Recent human use: ___ Describe: Tracks

D. SITE DESCRIPTION
Acreage: ___ Elevation: 5,744
General slope (degrees): 0-10 ___ 11-35 ___ >35 ___
Floodplain: Disturbance in ___ Adjacent to ___ NA ___
Recent mineral activity ___ Describe: ___

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ Closed adits ___ Open inclines ___ Closed inclines ___
Open shafts ___ Closed shafts ___ Stopes ___
Other openings Type ___
Trenches ___ Length ___ Prospects ___ Open drill holes ___
Pits >30 ft. deep ___ Pits <30 ft. deep ___ Pit highwall length ___30 feet above shaft___
Waste dumps: <0.1 ac ___ 0.1 - 5 ac ___ >5 ac ___
Tailings: <0.1 ac ___ 0.1 - 5 ac ___ >5 ac ___
Heaps ___ Dredge ___
Ponds ___ Dams ___
Mills ___ Type ___ ___ ___

Explosives ___ Describe: ___
Equipment/Machinery ___ Headframes ___ Trestles/tramways ___
Powerlines ___
Structures ___ Type ___
Condition: Good ___ Fair ___ Poor ___ Number Locked ___
Homesites ___
Other: ___

(03/95)
ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ___ / Stressed X ___ / Dead ___ / Nonexistent ___
Evidence of natural revegetation: ___ / Describe: weeds along road

ANIMALS
Evidence: ___ / Presence: ___ / Describe: 

GEOLOGY
Black argillite of the Millgen Formation
Staining of soils ___ Describe: 
Sulfide minerals ___ Type(s): 
Tailings: Confined ___ / Unconfined ___ / Unknown ___

HYDROLOGY
Water flowing from workings: ___ 
Standing water in workings: ___ 
Water through/over tailings: ___ 
waste rock: ___ 
ore: ___ 
Adjacent water sources: 
Ground water: ___ Type pH Conductivity Flow (GPM) Sketch # 
Surface water: ___ ___ ___ ___ 
Surface H2O above site: ___ ___ ___ ___ 
Surface H2O below site: ___ ___ ___ ___ 
Evidence of aquatic life: ___ Location: Describe: 
Water bed color: White ___ / Yellow ___ / Yellow-Orange ___ / Orange ___ 
Brown ___ / Green ___ / Orange-Black ___ / Other ___ 
Samples collected: ___ Sketch #(s): 

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ___ / Acid or Chemical odor ___ / Asbestos ___ 
Petrochemical Products ___ / Dump sites ___ 
Power Substations ___ / Transformers ___ 

Barrels, Tanks, Containers ___ Leaking: ___ Contents: Describe: 
Evidence of Underground Storage Tanks: ___ Describe: 

Other: 

(03/95)
RECLAMATION

SITE CONDITIONS
Erosion: Rills _____ / Gullies _____ / Sheetwash _____
Unstable Rock _____ / Slope instability _____ / Wind erosion _____

MITIGATION STATUS
None _____ / Fencing _____ / Signs _____ / Safety hazards mitigated _____
Other: __________________________________________________________________________

Mitigation condition: Good _____ / Fair _____ / Poor _____
Site ID tags: _____ / Locations: _______________________________________________________________________

OPTIONAL: Identify the critical reclamation measures needed:

_____ Cable nets, grates  _____ Topsoil, soil amendments
_____ Permanent seal  _____ Revegetation
_____ Gates  _____ Stabilize/destroy structures
_____ Backfill openings, pit  _____ Drainage control
_____ Recontour  _____ Water treatment
_____ Fences  _____ Wildlife closure
_____ Warning signs  _____ No action
_____ Plug open drill holes  _____ Trash / clean up
_____ Other: _______________________________________________________________________


SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features on attached sketch map. Use the feature symbols provided in the map legend on page 6.

GLOBAL POSITIONING SYSTEM DATA  HA1197.cor

PHOTOGRAPHS
Number of photographs taken: Roll 4 (Neg. 9300), frame 7-8

ACTION
Site requires immediate investigation _____ by: Law Enforcement _____ / BLM _____
HAZMAT _____ / Other ________________________________

Reason: __________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________
_______________________________________________________________________________

(03/95)
### M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft #1</td>
<td>~15 feet in diameter</td>
<td></td>
<td>~15 feet deep; 30 foot highwall</td>
<td>Fence!</td>
</tr>
<tr>
<td>Dump #1</td>
<td>50 feet</td>
<td>40 feet</td>
<td>3 feet</td>
<td></td>
</tr>
<tr>
<td>Prospect #1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #1 (on road to saddle)</td>
<td>20 feet</td>
<td>50 feet</td>
<td>~4 feet</td>
<td>caved</td>
</tr>
<tr>
<td>Dump #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adit #2 (way north of shaft site; no GPS)</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Dump #3</td>
<td>10 feet</td>
<td>50 feet</td>
<td>4 feet</td>
<td></td>
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<tr>
<td>Upper Prospect</td>
<td></td>
<td></td>
<td></td>
<td>not checked</td>
</tr>
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</table>

**Field Notes:**

This is the shaft in the Bunker Hill area on the topographic map. Adit #2 is on the southeast face of Bunker Hill.

Shaft #1 at Site B of the Westlake South property (Figure 11-3) is 6 feet from the road, which is 4-wheel-drive jeep trail. The road is little used, but does have tracks on it. Only a few half-burned timbers are on the small dump. The highwall behind the shaft (Figure 11-4) is dangerous to someone walking or skiing down the hill. If an unaware person is driving up road, the shaft could be a problem, even though it appears to be easy to climb out, if someone fell in.
Figure 11-1. Topographic map of the Westlake South Mine (Site B), Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 11-2. Map of the Westlake South Mine (Site B), showing features logged during the site inspection. The © symbol indicates a dump that was too small for the perimeter to be logged.
Fill out the following for each photo:

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<tr>
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<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
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<tr>
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<td>7</td>
<td>looking east</td>
<td>Shaft #1</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>8</td>
<td>looking NE</td>
<td>Shaft #1, with the highwall against the hill</td>
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...
A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable ______ / Leasable ______ / Salable ______
Operator (last known): ________________________________
Commodities: Primary ______ / Secondary __________________
Other Agency ID Number: __ Agency: _______________________

B. LOCATION DATA
Site is in _____ or within a mile _____ of:
ACEC ______ / WSA ______ / Wilderness Area _____ / Riparian Area _____
Nominated for Designation to National Wild & Scenic River System ____

C. ACCESS
Distance in Miles to Closest Public:
Road ______
Potable Water ______
Campground/Picnic Area ______
Dwelling ______
School ______
Water Source ______
Trail ______
Other Public Use ______

D. SITE DESCRIPTION
Nearest named drainage: __ Distance: __

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action _____
CERCLIS Number __ OR
Federal Docket Number

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species __________________________
Cultural Resources __________________________
Historic __________________________
Other __________________________

Date reclamation completed: __________________________
Type of closure: __________________________ Cost: __________________________
Comments: __________________________

Monitoring frequency: _______ Dates of monitoring visits: __________________________

(Note: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)
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**Phone**

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**Phone**

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</tr>
</tbody>
</table>

(03/95)

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Figure 11-3  Shaft #1 at the Westlake South Mine (Site B). The view is to the east (Roll Hailey 4 (9300), frame #7, photograph by Virginia S. Gillerman, September 13, 1997).

Figure 11-4  Highwall behind Shaft #1 at the Westlake South Mine (Site B). The view is to the northeast (Roll Hailey 4 (9300), frame #8, photograph by Virginia S. Gillerman; September 13, 1997).
ABANDONED/INACTIVE MINE LAND INVENTORY
FIELD CHECKLIST

A. SITE IDENTIFICATION
ID Number: 1 D - 0 0 5 4 - 0 0 0 1 2
Site/Mine Name: Westlake South, Site A (HA-1197a) Primary Commodity: Ag, Pb

B. LOCATION DATA
USGS Quad: Bellevue 7.5-minute LAT: ___ LONG: ___ OR
UTM Coord: 4812477 N 714981.4 E Zone 11 AND
Township: 1 N Range: 18 E Section: 8 Subdivision: SW1/4 NW1/4
Meridian: Boise 08 County: Blaine 013
Surface: BLM X / Non-BLM ___ Mineral Estate: BLM X / Non-BLM ___

C. ACCESS
Visible from: Nearest road ___ / Trail X / Population center ___
Access by: 2wd ___ / 4wd X / Hike X / Other ___
Access disturbance in need of reclamation: Length ___ / Width ___ / Acres ___
Road Log: Jeep trail up from the property in Long Gulch ___

Recent human use: X ___ Describe: Tracks on road

D. SITE DESCRIPTION
Acreage: ___ Elevation: ___
General slope (degrees): 0-10 ___ / 11-35 X ___ / >35 ___
Floodplain: Disturbance in ___ / Adjacent to ___ / NA ___
Recent mineral activity ___ Describe: ___

E. MINING/EXPLORATION FEATURES (Provide numbers of features)
Open adits ___ / Closed adits ___ / Open inclines ____ / Closed inclines ___
Open shafts ___ / Closed shafts ___ / Stopes ___
Other openings ___ Type ___
Trenches ___ Length ___ / Prospects ___ / Open drill holes ___
Pits >30 ft. deep ___ / Pits <30 ft. deep ___ / Pit highwall length ___
Waste dumps: <0.1 ac ___ / 0.1 - 5 ac X ___ / >5 ac ___
Tailings: <0.1 ac ___ / 0.1 - 5 ac ___ / >5 ac ___
Heaps ___ / Dredge ___
Ponds ___ / Dams ___
Mills ___ Type ___ / ___ ___
Explosives ___ Describe: ___
Equipment/Machinery ___ / Headframes ___ / Trestles/tramways ___
Powerlines ___ ___
Structures ___ Type ___
Condition: Good ___ / Fair ___ / Poor ___ / Number Locked ___
Homesites ___
Other: ___

(03/95)
F. ENVIRONMENTAL FEATURES

VEGETATION
Vegetation: Healthy ____ / Stressed X / Dead ____ / Nonexistent ____
Evidence of natural revegetation: ____ / Describe: _large numbers of weed_____

ANIMALS
Evidence: ____ / Presence: ____ / Describe: ________________________________

GEOLOGY  Milligen Formation [Dollarhide Formation, according to Worf and others, 1991.]
Staining of soils ____ Describe: ________________________________
Sulfide minerals ____ Type(s): Oxidized ________________________________
Tailings: Confined ____ / Unconfined ____ / Unknown ____

HYDROLOGY
Water flowing from workings: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch # ______
Standing water in workings: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch # ______
Water through/over tailings: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch # ______
  waste rock: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch # ______
  ore: ____ pH ____ Conductivity ____ Flow (GPM) ____ Sketch # ______

Adjacent water sources:
  Ground water: Type ________________ pH ____ Conductivity ____ Flow (GPM) ____ Distance ____
  Surface water: ____________________ pH ____ Conductivity ____ Flow (GPM) ____ Distance ____
  Surface H2O above site: ___________ pH ____ Conductivity ____ Flow (GPM) ____ Distance ____
  Surface H2O below site: ____________ pH ____ Conductivity ____ Flow (GPM) ____ Distance ____

Evidence of aquatic life: ____ Location: ______________ Describe: ________________________________

Water bed color: White ____ / Yellow ____ / Yellow-Orange ____ / Orange ____
  Brown ____ / Green ____ / Grey-Black ____ / Other ___________________________

Samples collected: ____ Sketch #(s): ________________________________

G. POTENTIAL HAZARDOUS MATERIALS (Provide numbers of features)

Chemical piles or spills ____ / Acid or Chemical odor ____ / Asbestos ____
Petrochemical Products ____ / Dump sites ______
Power Substations ____ / Transformers ______

Barrels, Tanks, Containers ____ Leaking: ____ Contents: ________________________________
Evidence of Underground Storage Tanks: ____ Describe: ________________________________

Other: ___________________________________________________________________
_________________________________________________________________________
_________________________________________________________________________

(03/95)
H. RECLAMATION

SITE CONDITIONS
Erosion: Rills ____ / Gullies ____ / Sheetwash ____
Unstable Rock ____ / Slope instability ____ / Wind erosion ____

MITIGATION STATUS
None ____ / Fencing ____ / Signs ____ / Safety hazards mitigated ____
Other: _______________________________________________________

Mitigation condition: Good ____ / Fair ____ / Poor ____
Site ID tags: ____ / Locations: ______________________________________

OPTIONAL: Identify the critical reclamation measures needed:

____ Cable nets, grates ______ Topsoil, soil amendments
____ Permanent seal ______ Revegetation
X ______ Gates ______ Stabilize/destroy structures
____ Backfill openings, pit ______ Drainage control
____ Recontour ______ Water treatment
____ Fences ______ Wildlife closure
____ Warning signs ______ No action
____ Plug open drill holes ______ Trash / clean up
____ Other: ______________________________________________________

I. SITE SKETCH
Show orientation, approximate scale, access route, adjacent drainages, and locations of features
on attached sketch map. Use the feature symbols provided in the map legend on page 6.

J. GLOBAL POSITIONING SYSTEM DATA  HA1196.cor

K. PHOTOGRAPHS
Number of photographs taken: Roll 4 (Neg. 9300), frames 9-12

L. ACTION
Site requires immediate investigation ____ by: Law Enforcement ____ / BLM ____
HAZMAT ____ / Other ________________________________

Reason: _______________________________________________________

______________________________________________________________

(03/95)
M. FEATURES - PROVIDE DIMENSIONS IN FEET.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Length</th>
<th>Width</th>
<th>Height or Depth</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adit #1</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Dump #1</td>
<td>30 feet</td>
<td>20 feet</td>
<td>3 feet</td>
<td>black argillite and iron-stained quartz</td>
</tr>
<tr>
<td>Adit #2</td>
<td></td>
<td></td>
<td></td>
<td>caved</td>
</tr>
<tr>
<td>Dump #2</td>
<td>30 feet</td>
<td>40 feet</td>
<td>4 feet</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>on opposite side of hill from Adit #1</td>
</tr>
<tr>
<td>Adit #3</td>
<td>open at least 75 feet</td>
<td>~4 feet</td>
<td>3 feet high</td>
<td>OPEN; in competent rock</td>
</tr>
<tr>
<td>Dump #3</td>
<td>50 feet</td>
<td>40 feet</td>
<td>6-8 feet</td>
<td>iron-stained quartz</td>
</tr>
<tr>
<td>Prospect #1</td>
<td>50 feet</td>
<td>20 feet</td>
<td>~3 feet</td>
<td>at base of Dump #3</td>
</tr>
<tr>
<td>Adit #4 (~100 feet below Adit #3)</td>
<td></td>
<td></td>
<td></td>
<td>caved, with a ~25 foot highwall</td>
</tr>
<tr>
<td>Dump #4</td>
<td>50 feet</td>
<td>40 feet</td>
<td>6 feet</td>
<td></td>
</tr>
</tbody>
</table>

Field Notes:

See next page.
Field Notes:

Adit #1 and Adit #2 (Figure 12-3) are caved.

Adit #3 (Figure 12-4) has lots of iron-stained quartz on the dump (Figure 12-5), as well as minerals that are probably lead oxides and other secondary minerals. The portal is in a sandy, limey argillite cut by a (blue) quartz vein.

The main road goes to Adit #4 (Figure 12-6), which may have been the haulage level.

Note: The map in Pamphlet No. 90 shows a line of adits which is identified as Westlake South (HA1196). No Hidden Treasure Mine is listed.

[According to the Mines and Prospects database, the Westlake properties are as shown in Pamphlet No. 90. The Hidden Treasure is an old property that was correlated with an unnamed property in MILS. This property is to the northeast of the line through the Westlake North and South properties. In the light of the field map and with the information I have, this site, which was identified in the field as the Hidden Treasure, is part of the Westlake South property. -- VEM]
Figure 12-1. Topographic map of the Westlake South Mine (Site A), Blaine County, Idaho (U.S. Geological Survey Bellevue 7.5-minute topographic map).
Figure 12-2. Map of the Westlake South Mine (Site A), showing features logged during the site inspection. The ☺ symbol indicates a dump that was too small for the perimeter to be logged.
Fill out the following for each photo:

<table>
<thead>
<tr>
<th>Roll Number</th>
<th>Frame Number</th>
<th>Direction</th>
<th>Location/Feature</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 (Neg. 9300)</td>
<td>9</td>
<td>looking west</td>
<td>Caved Adit #2 in argillite</td>
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<tr>
<td>4 (Neg. 9300)</td>
<td>10</td>
<td>looking east</td>
<td>Adit #3, open at least 75 feet in competent rock</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>11</td>
<td>looking north</td>
<td>Dump #3</td>
</tr>
<tr>
<td>4 (Neg. 9300)</td>
<td>12</td>
<td>looking east</td>
<td>Adit #4, caved with a 25-foot highwall</td>
</tr>
</tbody>
</table>

(03/95)
A. SITE IDENTIFICATION
Other BLM ID Number: ________________________________
Locatable ______ / Leasable ______ / Salable ______
Operator (last known): ________________________________
Commodities: Primary ______ / Secondary ______
Other Agency ID Number: __ Agency: __________________________

B. LOCATION DATA
Site is in ______ or within a mile ______ of:
ACEC ______ / WSA ______ / Wilderness Area ______ / Riparian Area ______
Nominated for Designation to National Wild & Scenic River System ______

C. ACCESS
Distance in Miles to Closest Public:
Road ______ Dwelling ______ School ______
Potable Water ______ Water Source ______ Trail ______
Campground/Picnic Area ______ Other Public Use ______

D. SITE DESCRIPTION
Nearest named drainage: ______ Distance: ______

G. POTENTIAL HAZARDOUS MATERIALS
Site is under regulatory action ______
CERCLIS Number ______ OR
Federal Docket Number ______

H. RECLAMATION: Closure Information
Clearances: Threatened & Endangered Species ____________________________
Cultural Resources ____________________________
Historic ____________________________
Other ____________________________

Date reclamation completed: ____________________________
Type of closure: ____________________________ Cost: ____________________________
Comments: ____________________________
__________________________
__________________________
__________________________
__________________________

Monitoring frequency: _______ Dates of monitoring visits: ____________________________
__________________________
__________________________
__________________________
__________________________

(NOTE: The letters for the items above correspond to those on pp. 1 - 3 of this Checklist)

(03/95)
I. INTERVIEWS

Name
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Address
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Phone
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Affiliation
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Comments:
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Name
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Name
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Address
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Affiliation
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Comments:
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(03/95)
Figure 12-3. Adit #2 at the Westlake South Mine (Site A). The view is to the west (Roll Hailey 4 (9300), frame #9; photograph by Virginia S. Gillerman, September 13, 1997).

Figure 12-4. Adit #3 (open) at the Westlake South Mine (Site A). The view is to the east (Roll Hailey 4 (9300), frame #10; photograph by Virginia S. Gillerman, September 13, 1997).
Figure 12-5. Dump #3 at the Westlake South Mine (Site A). The view is to the north (Roll Hailey 4 (9300), frame #11; photograph by Virginia S. Gillerman, September 13, 1997).

Figure 12-6. Adit #4 at the Westlake South Mine (Site A). This adit is caved and has a 25-foot highwall. The view is to the east (Roll Hailey 4 (9300), frame #12; photograph by Virginia S. Gillerman, September 13, 1997).
APPENDIX A:

GPS FILES FOR THE MINES IN THE BUNKER HILL AREA
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