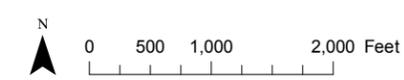


Preliminary Information, for Discussions Purposes Only, Subject to Change





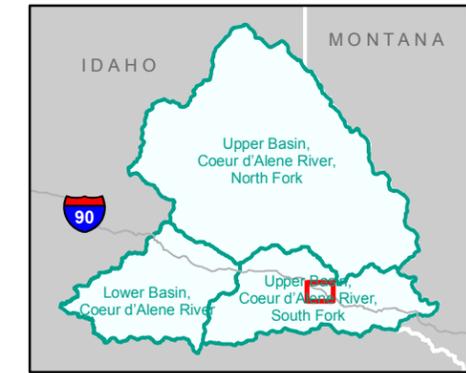
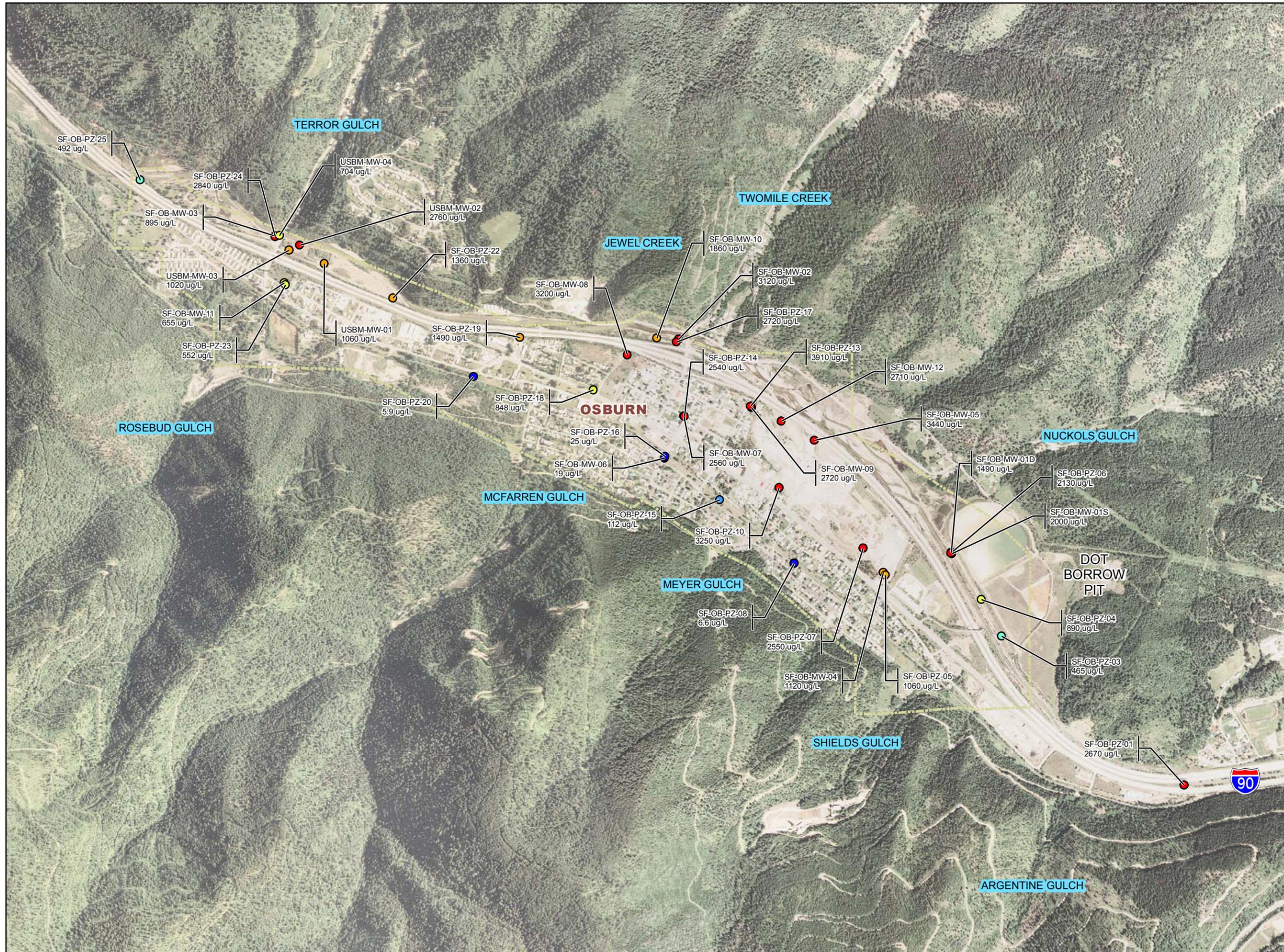
- Source Areas
- Tailings Dam (1903~1945)
- City Limit



Source: NHDPlus (Rivers, Waterbodies); Idaho Geospatial Data Clearinghouse (NAIP 2006).

DOT = U.S. Department of Transportation
SFCDR = South Fork Coeur d'Alene River

FIGURE 1-1
SITE MAP, OSBURN FLATS
Conceptual Site Model
Osburn Flats in Operable Unit 3
BUNKER HILL SUPERFUND SITE
CH2MHILL



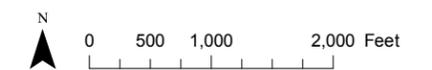
Groundwater Sampling

Zinc

- 0 to 100 ug/L
- 100 to 200 ug/L
- 200 to 500 ug/L
- 500 to 1000 ug/L
- 1000 to 2000 ug/L
- 2000 to 4000 ug/L

Data from October 2008
 ug/L = micrograms per liter

City Limit



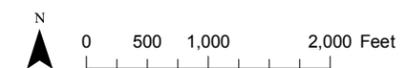
Source: NHDPlus (Rivers, Waterbodies); Idaho Geospatial Data Clearinghouse (NAIP 2006).

DOT = U.S. Department of Transportation

FIGURE 5-4
ZINC CONCENTRATIONS
IN GROUNDWATER
 Conceptual Site Model
 Osburn Flats in Operable Unit 3
 BUNKER HILL SUPERFUND SITE



- Sampling Locations**
- River/Stream
 - ▲ Tailings Pile Seep
 - Discharge Pipe
 - ◆ Original 1999 Station, Moved in 2008 (as Alt)
 - ⬜ City Limit
 - Estimated Gaining/Losing Transition Zone
 - Gaining Section of the SFCDR
 - Losing Section of the SFCDR

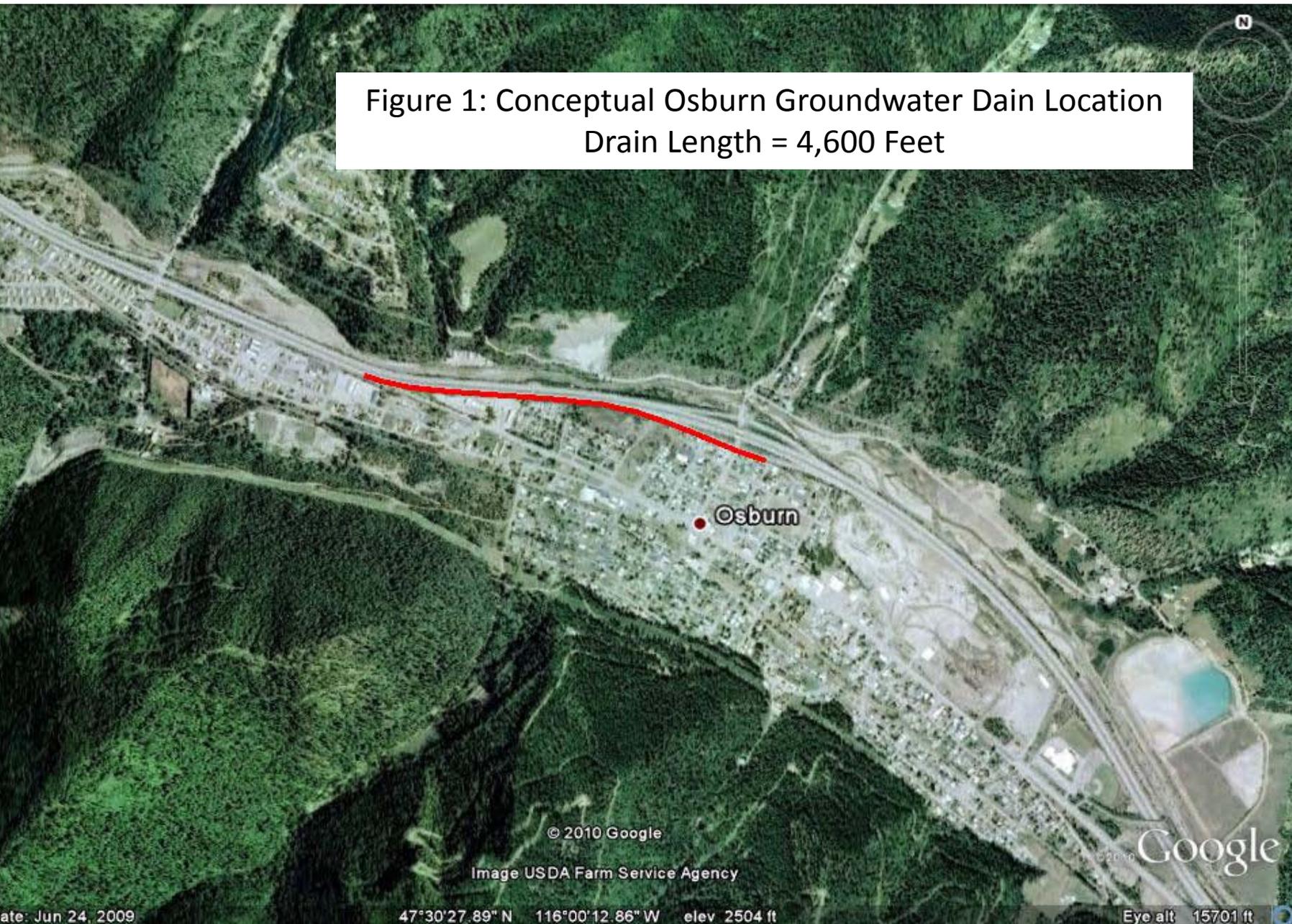


Source: NHDPlus (Rivers, Waterbodies); Idaho Geospatial Data Clearinghouse (NAIP 2006).

DOT = U.S. Department of Transportation
SFCDR = South Fork Coeur d'Alene River

FIGURE 3-7
GAINING AND LOSING REACHES OF THE SFCDR IN OSBURN FLATS
Conceptual Site Model
Osburn Flats in Operable Unit 3
BUNKER HILL SUPERFUND SITE

Figure 1: Conceptual Osburn Groundwater Dain Location
Drain Length = 4,600 Feet



Cost and Effectiveness Comparison				
	Capital Cost	30-Year O&M NPV	Total 30-Year NPV	Zinc Removal
	(\$)	(\$)	(\$)	(lb/day)
Osburn Flats Drain with Treatment (3,700 gpm)	\$17,200,000	\$4,200,000	\$21,400,000	50 - 75
SFCDR Liner/Drain with Treatment (3,600 gpm)	\$338,100,000	\$9,100,000	\$347,200,000	75 - 100

Preliminary Information, for Discussions Purposes Only, Subject to Change

	Quantity	Capital Cost	30-Year O&M NPV	Total 30-Year NPV
	(CY)	(\$)	(\$)	(\$)
Floodplain Removals (Wallace to Elizabeth Park)	1 million	\$63,200,000	\$2,500,000	\$65,700,000