

Government Gulch Updates

Basin Commission Meeting

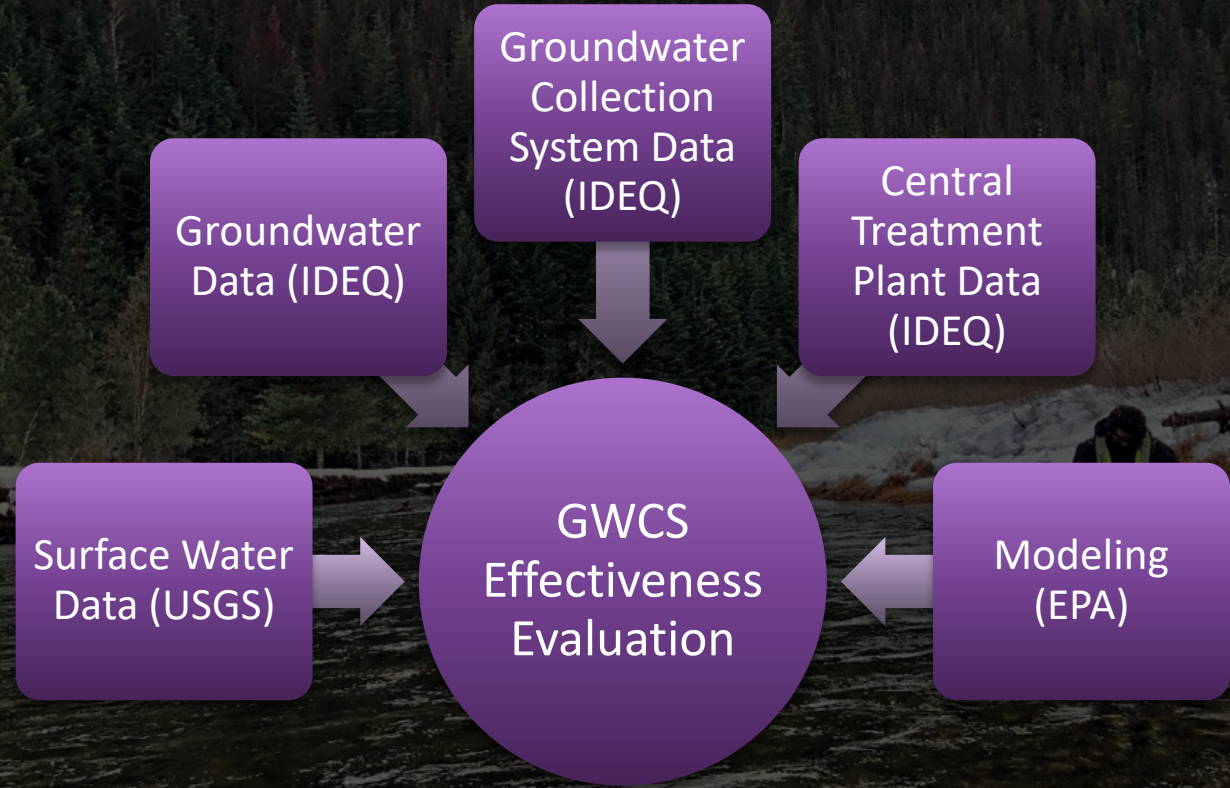
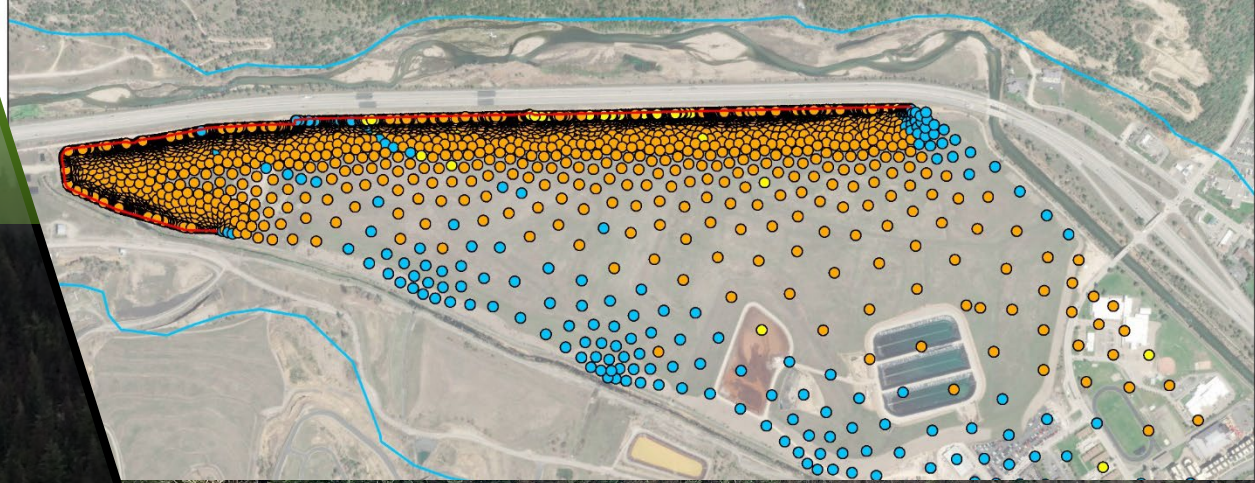
May 15, 2024



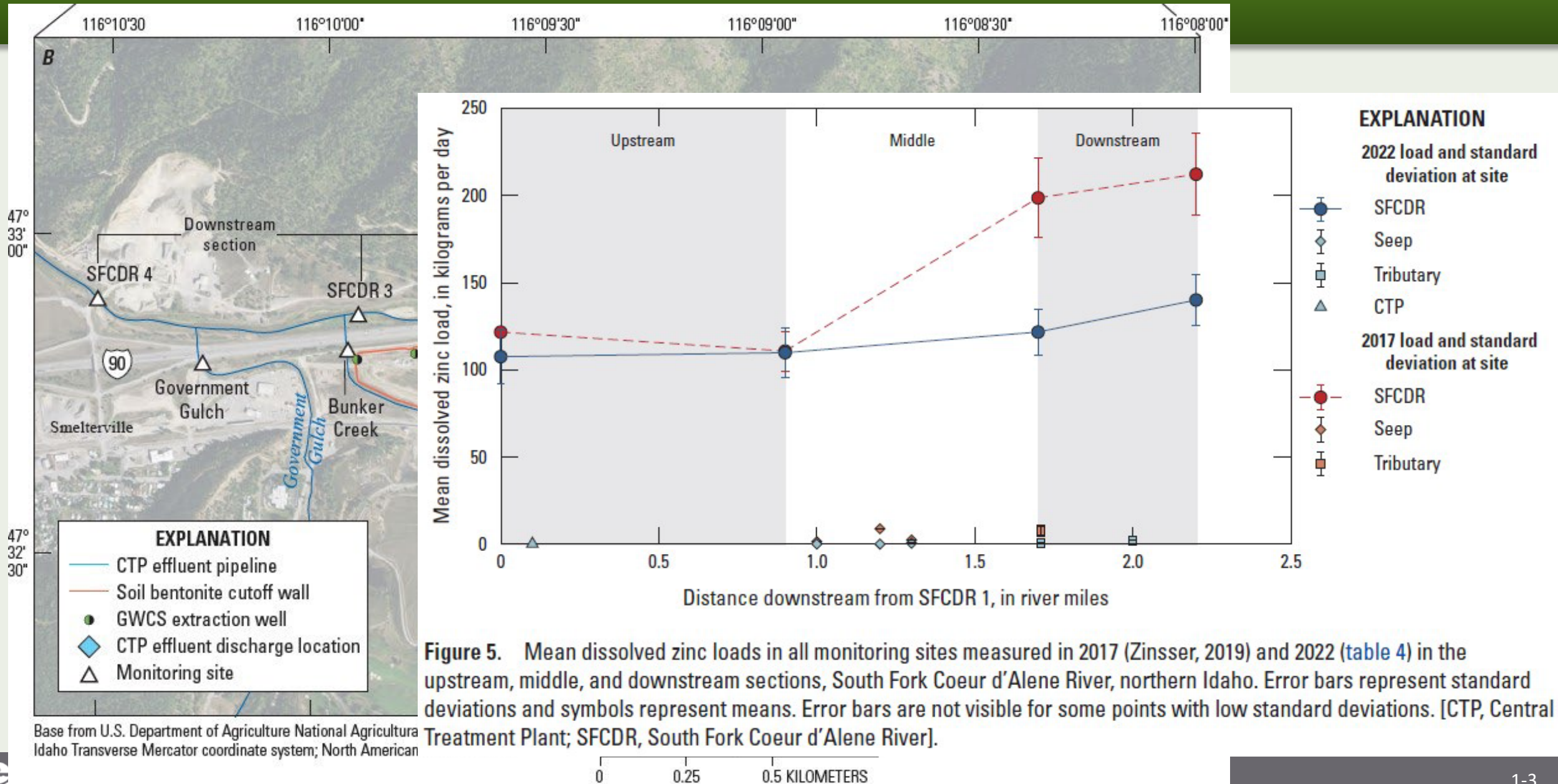
Presented by:

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Groundwater Collection System Effectiveness Monitoring



Government Gulch



OU-2 Phased Remedy Implementation

◆ OU2 Phased Remedy Implementation Approach

- » Phase I – Human Health focus
- » Phase II – Surface water and groundwater focus

◆ Phase 1 Government Gulch Key Remedial Actions

- » Soil Removals (~400,000 CY)
- » 6-inch ICP Barrier Clean Soil Cap
- » Government Creek reconstruction
- » Demolition of industrial facilities
- » Substantially completed in 2001

◆ 2007 Phase I RA Assessment

- » Significant reduction in the mass of contaminated materials in GG
- » Improvements in surface water and groundwater
- » Increasing zinc and cadmium concentrations near the mouth of the gulch
- » SW/GW poorly understood

**Phase I Remedial Action
Assessment Report
Operable Unit 2
Bunker Hill Mining and Metallurgical Complex
Superfund Site**



Prepared for
*U.S. Environmental Protection Agency
Region 10*

October 2007

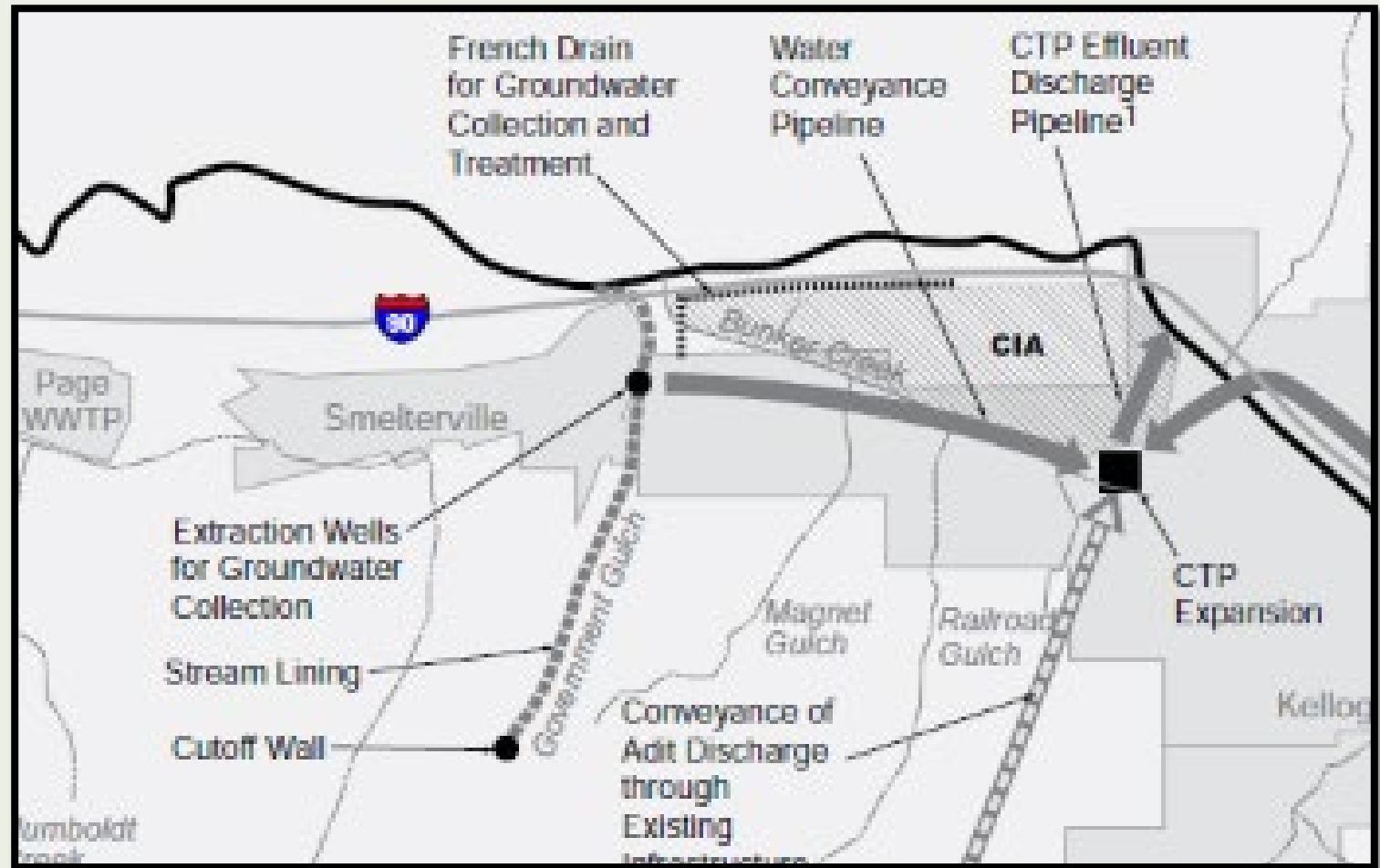
AES10
Architect and Engineering Services Contract
Contract No. 68-S7-04-01

Prepared by
CH2MHILL
Ecology and Environment, Inc.

2012 Interim Record of Decision

➤ Government Gulch Selected Remedy

- Line Government Creek from Galena Ridge Pond to I-90 Culvert
- Install a groundwater cutoff wall and extraction wells across the upper gulch
- Divert clean groundwater into the newly lined Government Gulch channel
- Extraction wells across the mouth of Government Gulch and convey to the CTP for treatment



Government Gulch Remedial Action – Pre-Design Investigation

◆ Initial Investigation

- » Re-baseline the CSM of water and metals movement within GG
- » Define the nature of surface water/groundwater interaction

◆ Data analysis will focus on whether a GG RA is a cost-effective approach to further reduce metals loading to SFCDR

◆ If a RA is deemed cost-effective, future data collection would focus on data to support RA design to meet EPA objectives

