



BEIPC ANNUAL FIELD TOUR

2019 TOUR HIGHLIGHTS

CDA BASIN TEAM
EPA REGION 10
AUGUST 21, 2019

TODAY'S TOUR HIGHLIGHTS

✓ **CENTRAL IMPOUNDMENT
AREA/GROUNDWATER
COLLECTION SYSTEM**

✓ **CENTRAL TREATMENT
PLANT UPGRADES**

✓ **PAVED ROADS PROGRAM**

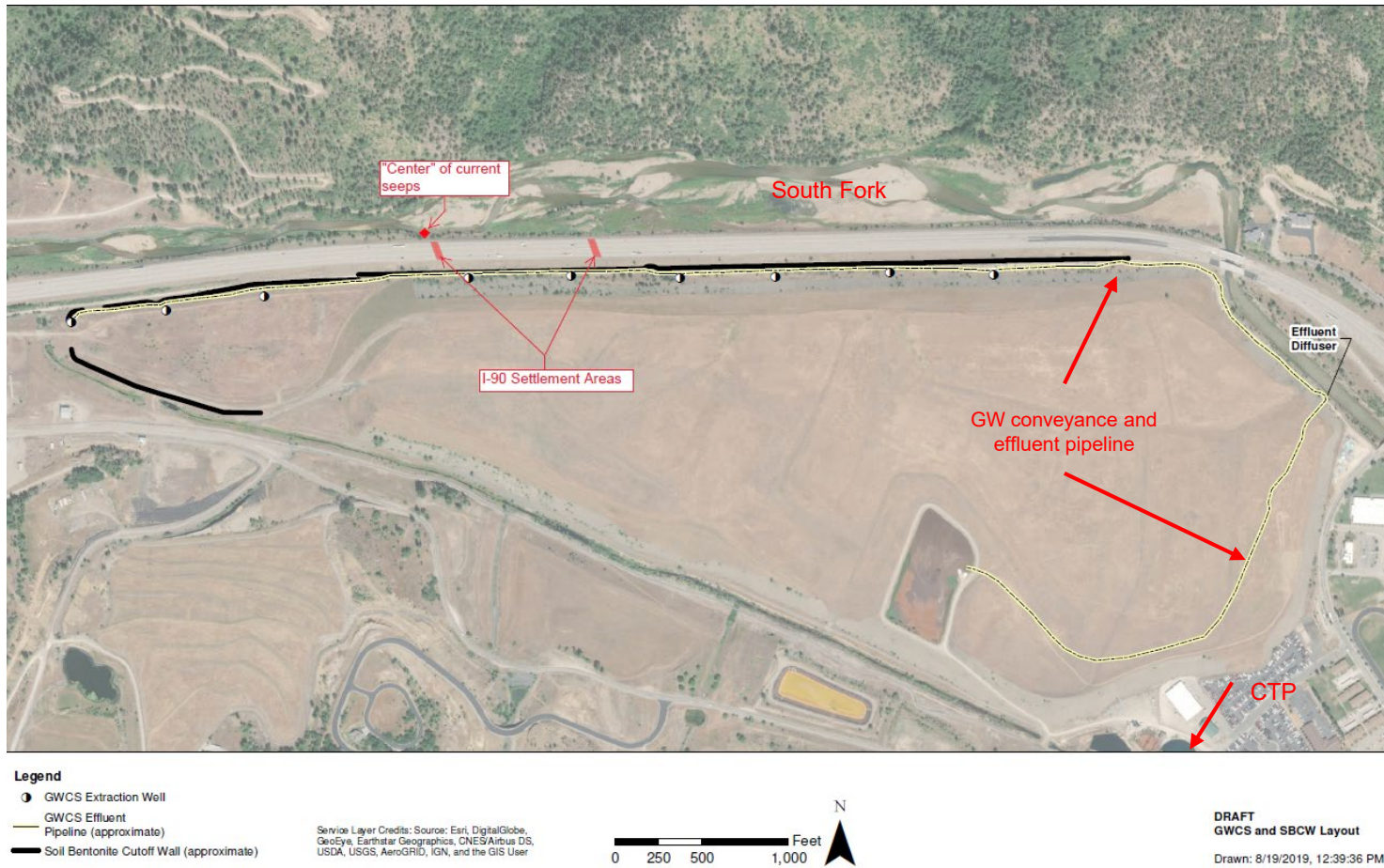
✓ **NINEMILE CLEANUPS**

- **BLACK CLOUD REMEDY
PROTECTION PROJECT**
- **NINEMILE FISHING POND
CLEANUP**
- **MINE & MILL SITES**
- **WASTE CONSOLIDATION
AREA**

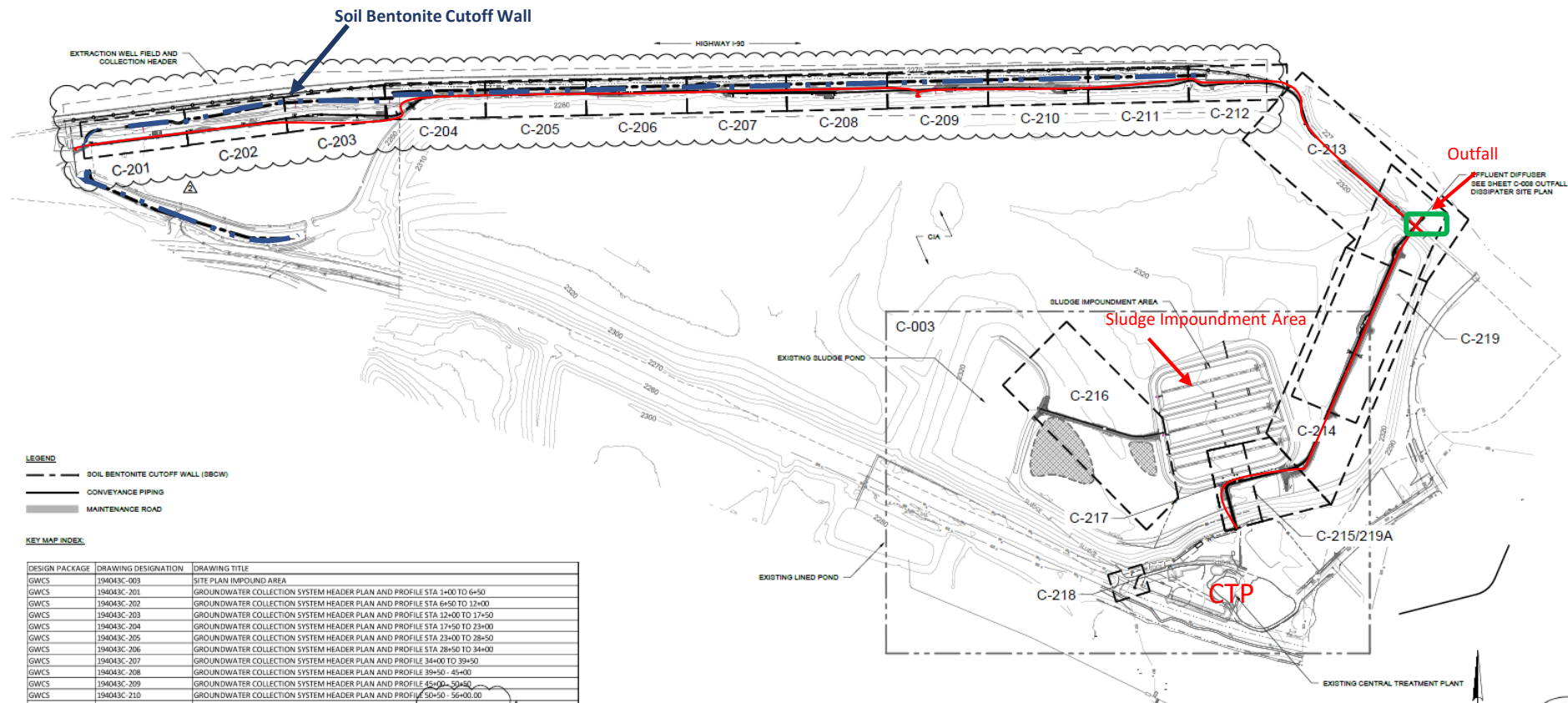
CENTRAL IMPOUNDMENT AREA

GROUNDWATER COLLECTION SYSTEM

Ground Water Collection System (GWCS) Overview



- Line of extraction wells collecting the most contaminated groundwater (that flows under the CIA within the upper aquifer)
- 7000' soil bentonite cutoff wall to minimize fouling potential in wells and reduce long-term pumping volume (i.e., keeps the system from pulling in cleaner and highly oxygenated river water)



Construction Status

- Extraction wells in place
- Conveyance pipelines under construction
- Well heads and control construction this summer
- Effluent diffuser/outfall construction this summer
- Begin pumping/testing system this Nov
- Continue full system testing through winter
- Close gaps in wall – spring/summer 2020



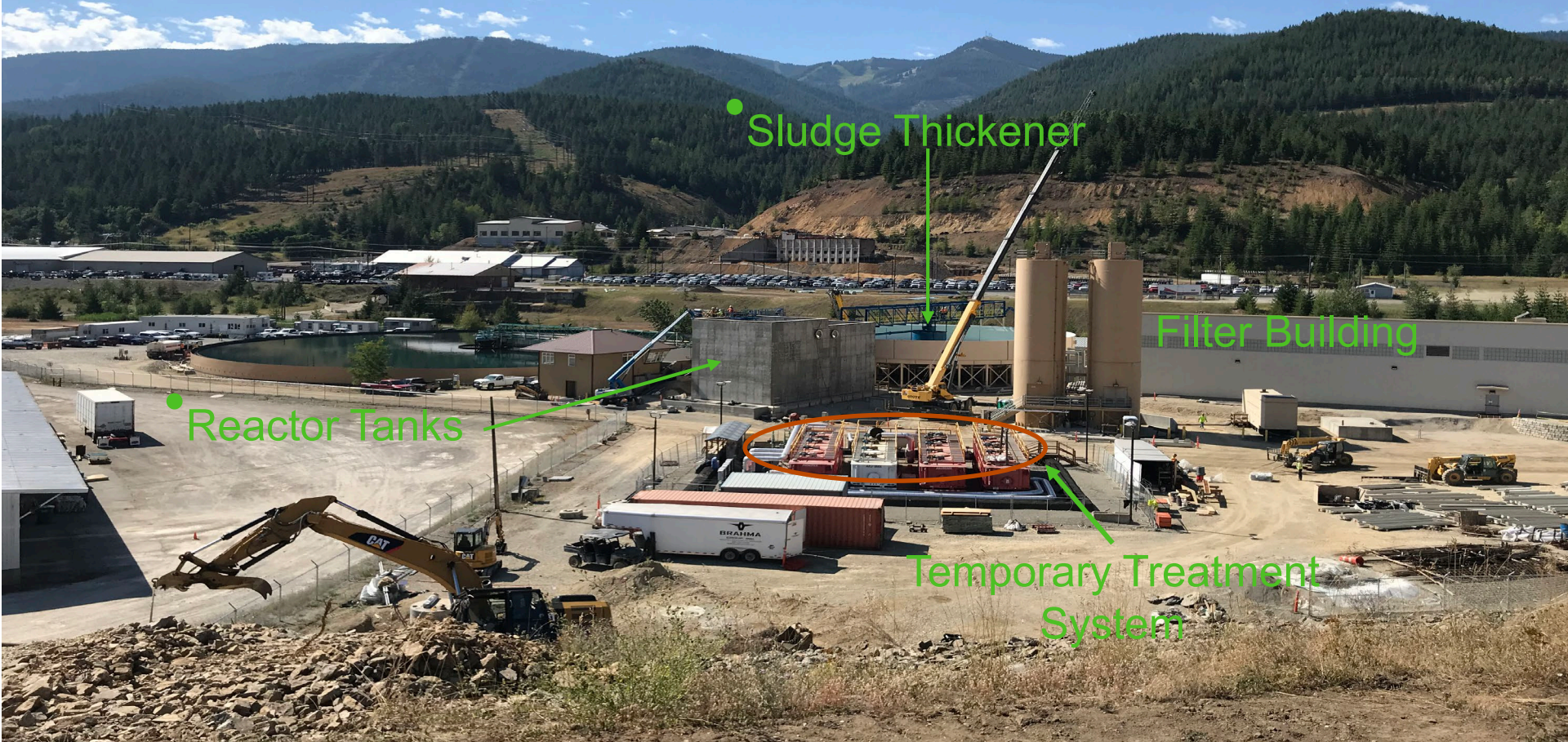
South Fork Coeur d'Alene (SFCDR) Seeps and I-90 Settlement

- Turbid seeps slowed in March, stopped in early April, reappeared around July 12, and continue to be active.
- I-90 has settled slightly since last paving on 3/31/19
- Current in-river seeps migrate weekly across and up/downstream within ~170' long zone.
- Turbid seeps observed during baseflow, when river is gaining water from surrounding aquifer. Cease during high flows when river loses water.

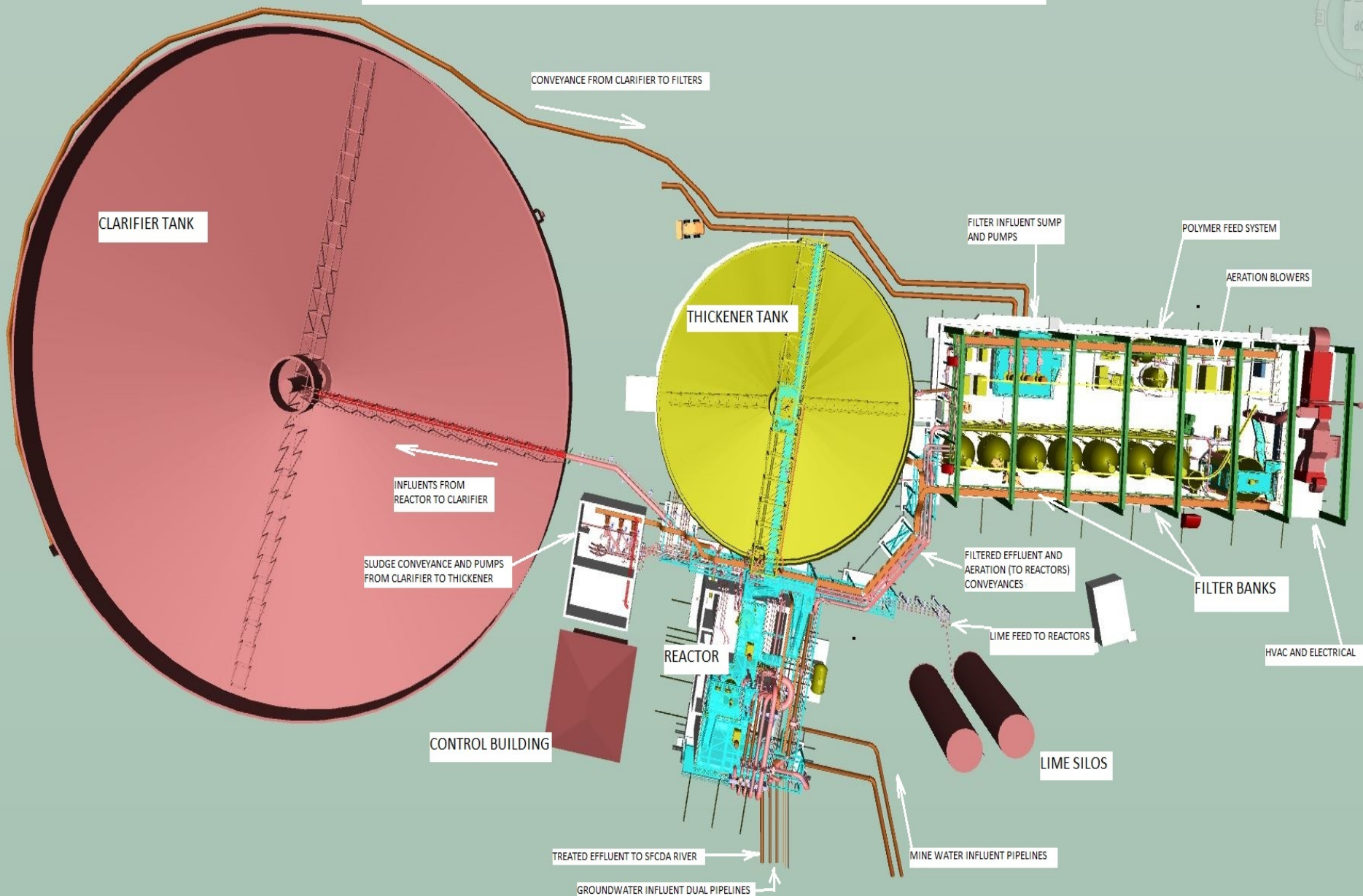


CENTRAL TREATMENT PLANT UPGRADES

CENTRAL TREATMENT PLANT UPGRADES



BUNKER HILL UPGRADED CTP GENERAL SEQUENCE OF TREATMENT OPERATIONS



PAVED ROADS PROGRAM

ROADS PROGRAM

- ✓ **PROGRAMS COMPLETE**
Smelterville, Wardner, Eastside Hwy Dist.,
Pinehurst, Osburn, Wallace and Mullan

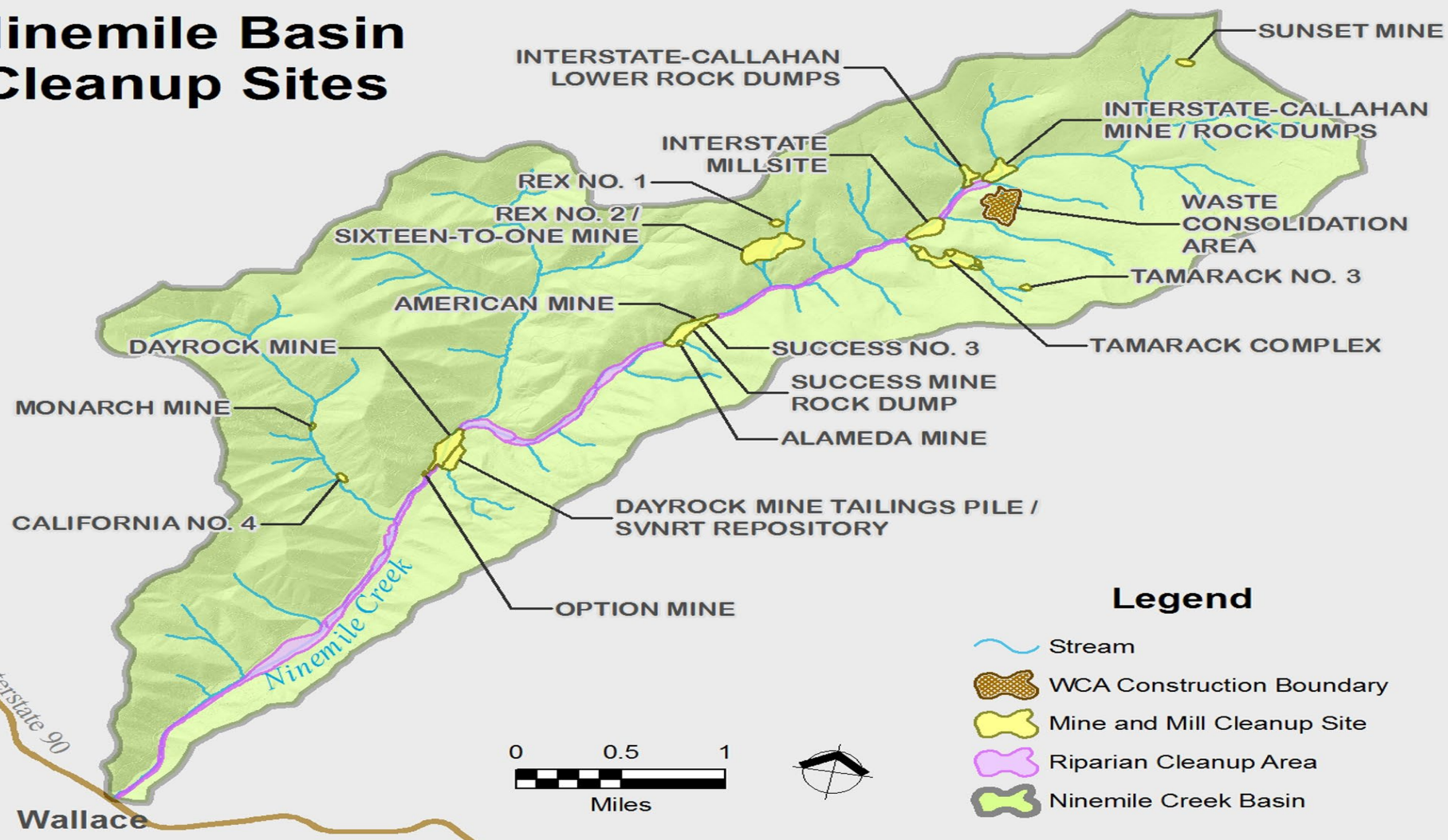
- ✓ **2019 BOX**
Construction in Kellogg (McKinley Avenue) &
Shoshone County (Pine Creek Road from bridge
to Box/Basin line) Kellogg in concert with city-
wide utility work

- ✓ **2019 BASIN**
Shoshone County (11 road segments spread
over Kingston, Big Creek, Woodland Park, &
Nine Mile)



NINEMILE BASIN

Ninemile Basin Cleanup Sites



NINEMILE BLACKCLOUD CREEK REMEDY PROTECTION PROJECT





NINEMILE FISHING POND RECREATION AREA



SUCCESS COMPLEX

INTERSTATE MILLSITE



EAST FORK NINEMILE WASTE CONSOLIDATION AREA

QUESTIONS?

