

Salford Quarry Superfund Site Operable Unit 1

Public Availability Session

September 16, 2024



Meeting Agenda

- What's being done
- What to expect in construction
- Why the cleanup
- EPA contacts

EPA Cleanup

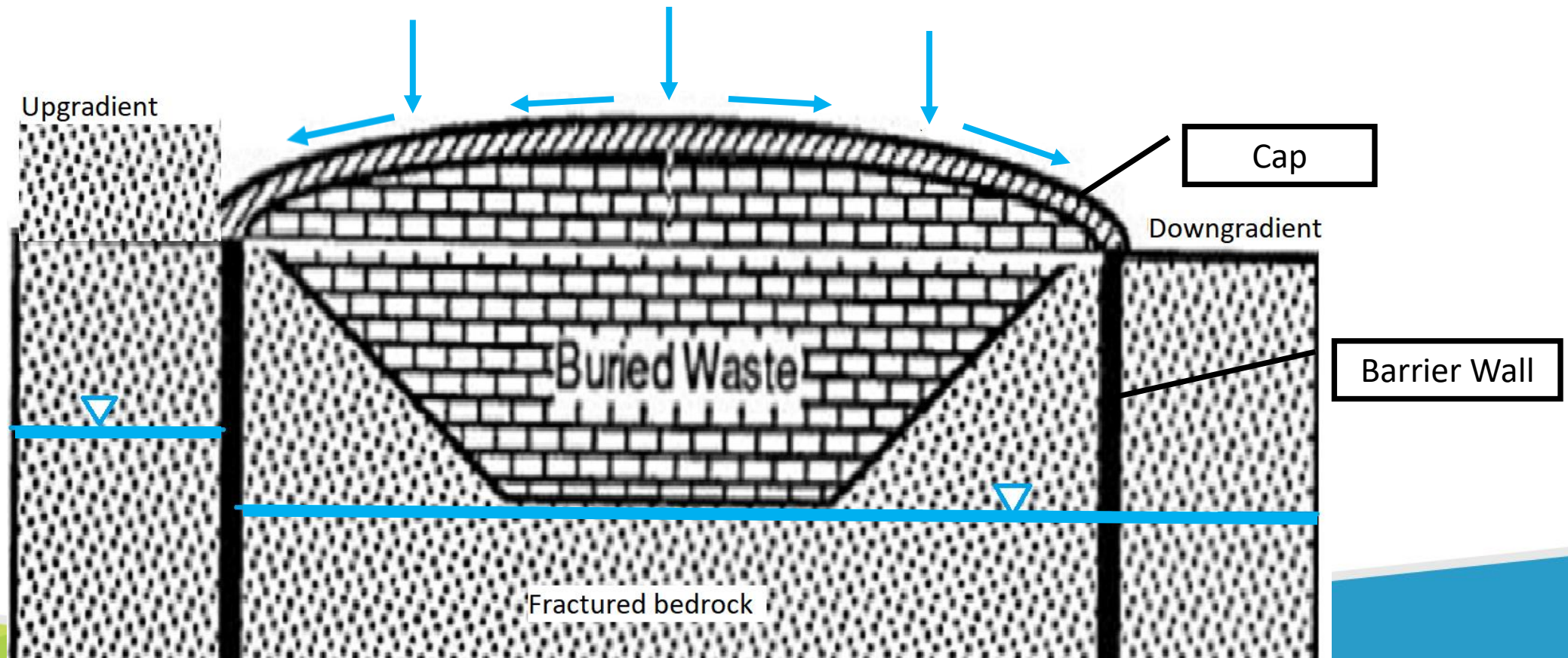
Source control (OU1)

- waste and soil surrounding the waste

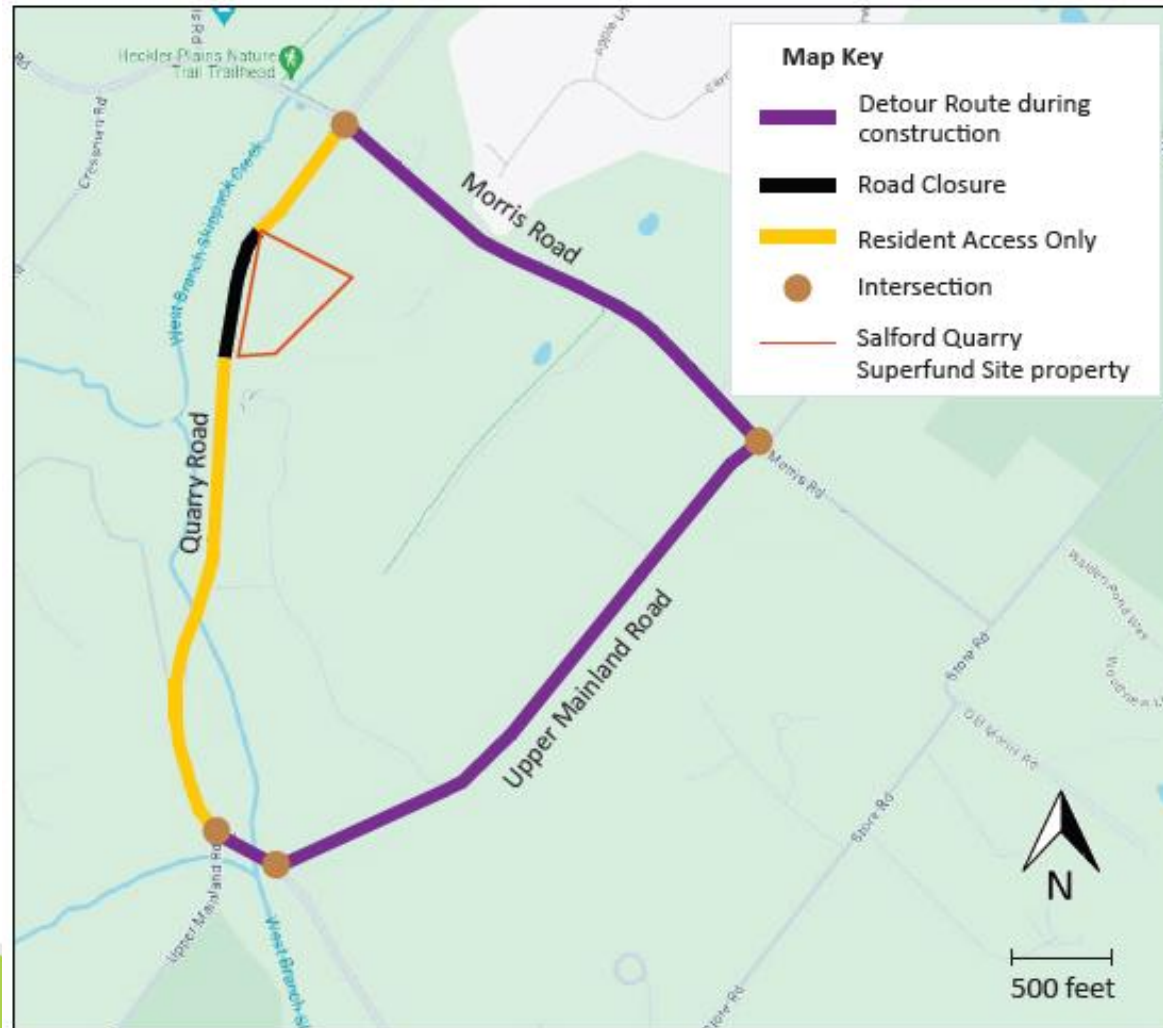
Construct a perimeter wall and impermeable cap to contain contaminated material

- Prevent direct contact
- Minimize water from carrying contamination into environment

Subsurface Perimeter Wall & Impermeable Cap



Quarry Road Detour



Closure adjacent to
610 Quarry Road
Lower Salford, PA

Detour via
Morris and Upper Mainland Rds

Passable for emergency vehicles

Signs approx. 2 weeks before work

What to expect during construction

- On-site September 18th
- Approx. 12 months
- Typical work hours 7:00am to 3:30pm, Mon - Fri
 - If Saturday work, EPA will notify immediate neighbors
- Typical personnel onsite
 - 5-10 office staff
 - 5-15 construction crew
 - one security guard, 24/7



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Typical Construction Equipment



Pre-construction documentation

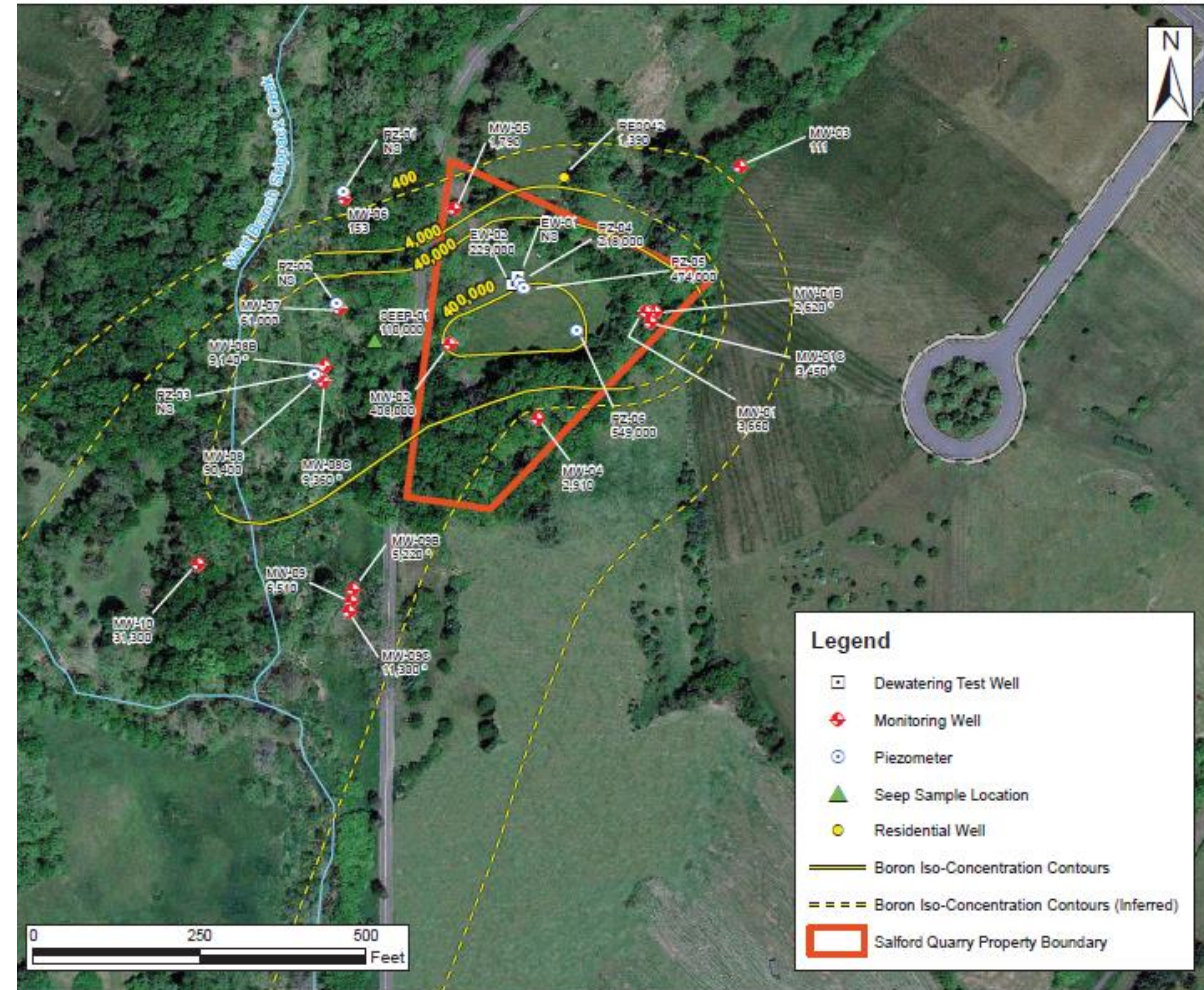
Vibration monitoring

- Bedrock well drilling
- Bedrock breaking and excavation



Foundation monitoring

- Photo documentation
- Crack gauge monitoring if required



Salford Quarry Superfund Site
Lower Salford Township
Montgomery County, Pennsylvania

Figure 13
Boron Concentrations in Groundwater and Seep
March 2019

Construction Activities

Close portion of
Quarry Road

Surface grading &
stormwater
drainage

Excavate rock/
limited waste &
dispose offsite

Subsurface
perimeter wall

Multi-layer,
impermeable cap

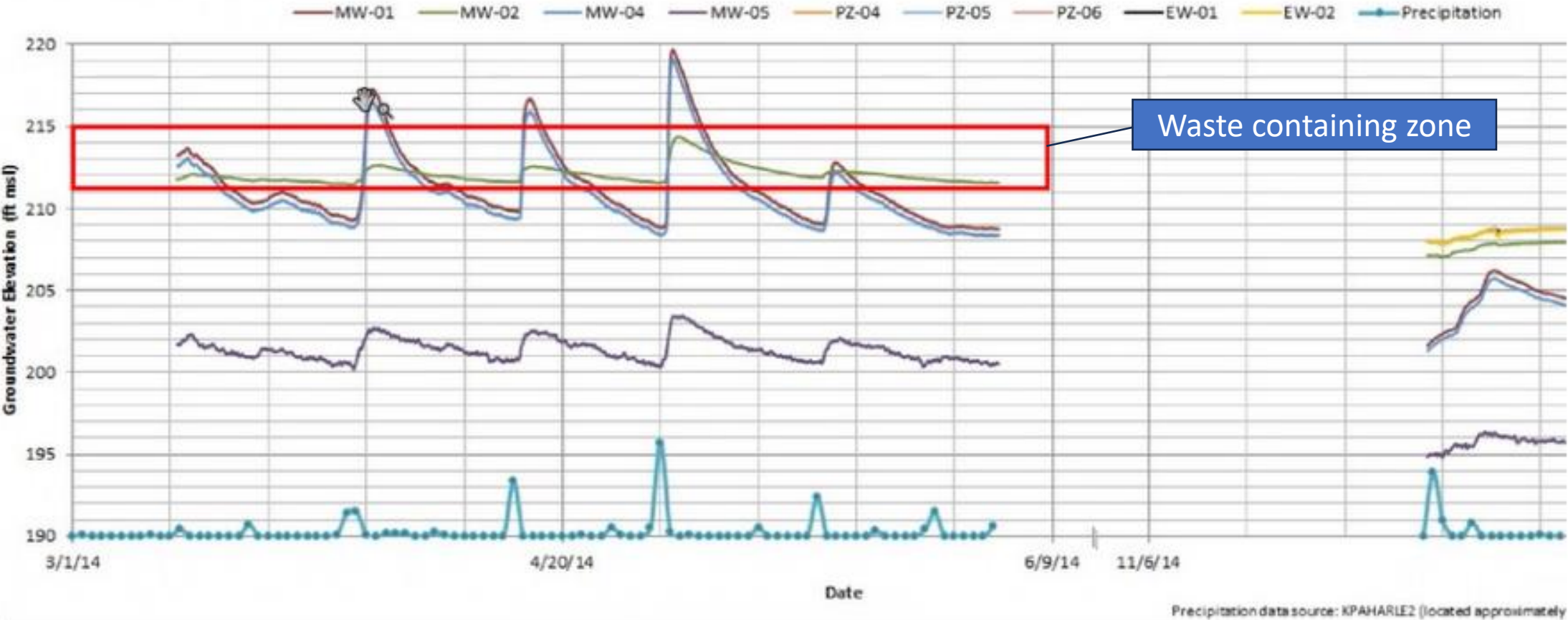
Operations &
maintenance

Groundwater,
surface water, &
sediment
monitoring

Fencing &
Institutional
Controls

Why cleanup needed?

Minimize waste to groundwater migration



Investigation Results

Landfill waste

- Waste contaminants continue to leach into groundwater
 - Boron, cadmium, zinc, lead, and arsenic
 - TCE and vinyl chloride
 - bis-2-ethylhexyl phthalate

Unacceptable risk to future residents living on the quarry or using GW

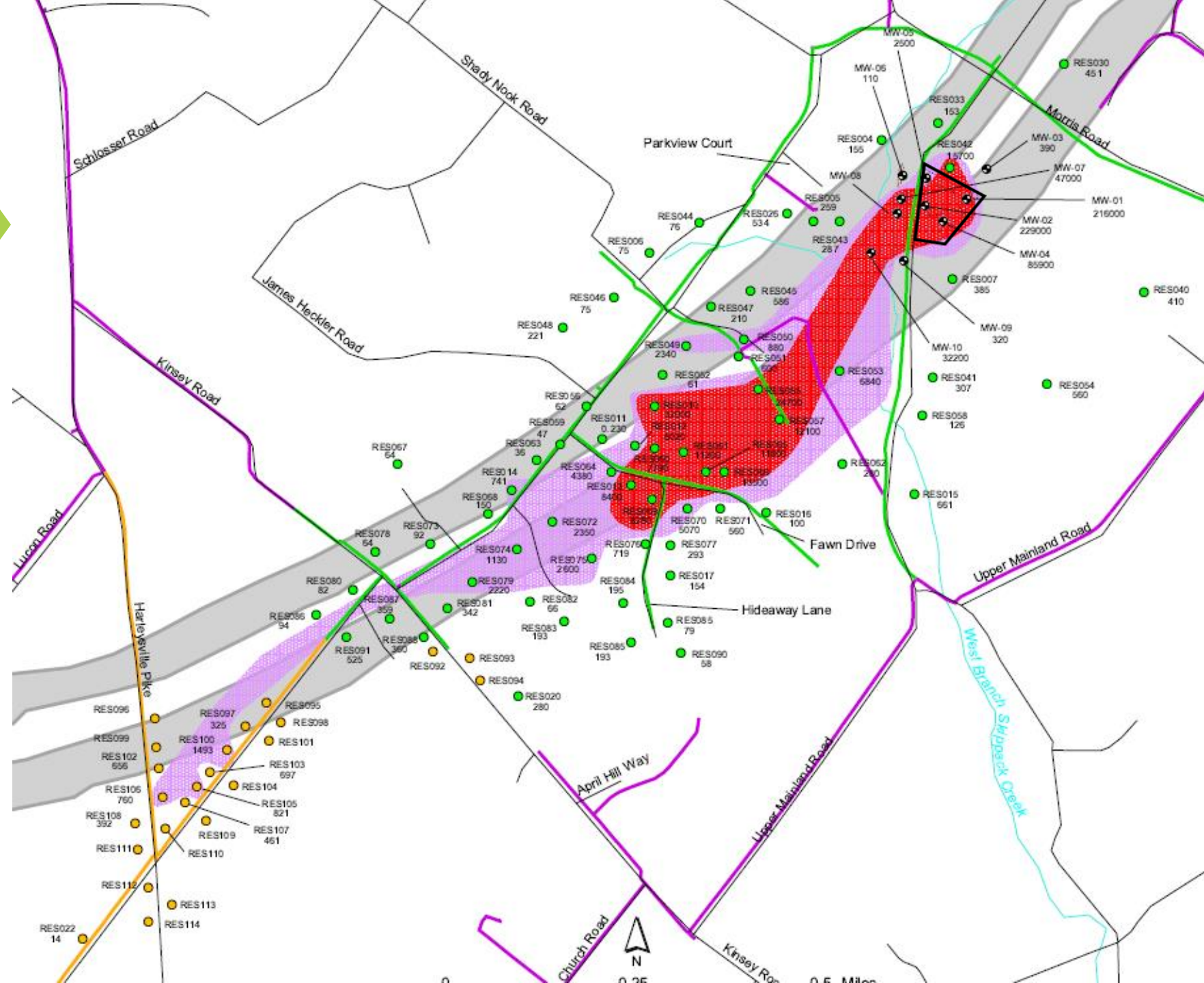
Plume Map of Boron 1991-1993

LEGEND

- Monitoring Well
- 1991 Sampling Location
- 1993 Sampling Location
- NPWA Waterline
- NPWA Waterline (EPA Phase 1)
- NPWA Waterline (EPA Phase 2)
- Road Centerline
- Dry Creek Bed
- Stream
- Boron Plume > 7300 ug/L *
- Boron Plume > 730 ug/L **

* Regional Screening Level (RSL), HI=1.0 at the time of the RI.
Current RSL is 3,100 ug/L at HI=1.0

** RSL HI=0.1 at the time of the RI; current RSL is
310 ug/L at HI=0.1

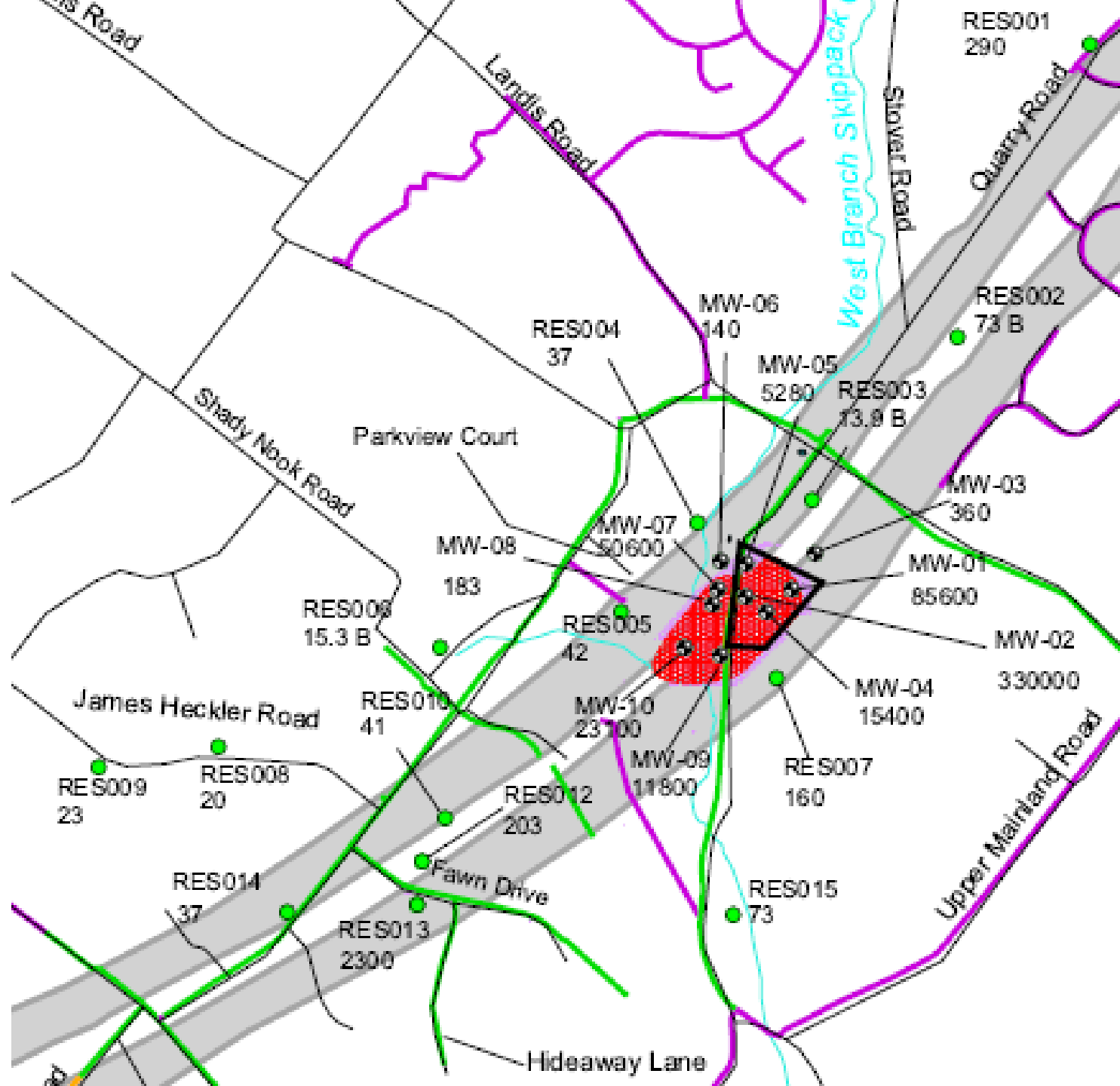


Plume Map of Boron 2004

LEGEND

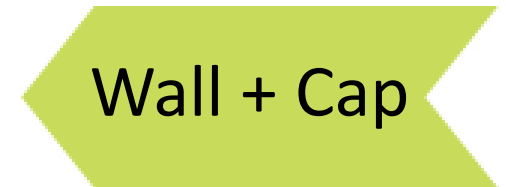
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Cleanup Objectives for waste & soil

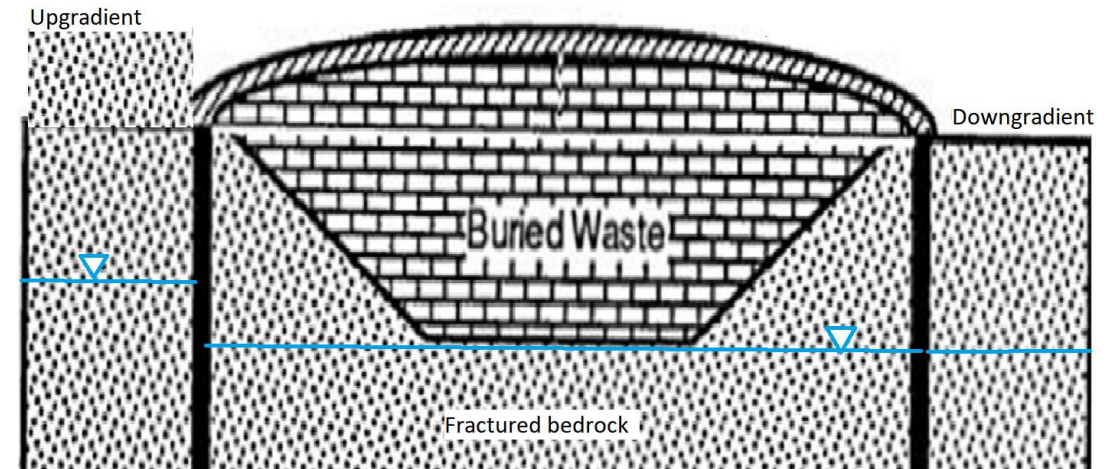
- Prevent human and environmental exposure
 - ingestion, inhalation, and dermal contact
- Prevent/minimize the migration of contaminants
 - waste and soil → groundwater
- Prevent/minimize the impacts to the creek
 - migration of contaminants from the soil



Some milestone dates



- Quarry Road closure – Sep 17, 2024
- Begin soil work – Oct 1, 2024
- Rock headwall work – Oct 8 - Dec 19, 2024
- Barrier wall bedrock drilling/excavation/liner install
 - Dec 06, 2024 – Sep 10, 2025
- Install capping system – Sep 11 – Oct 24, 2025
- Operation, Maintenance & Monitoring – Oct 25, 2025 – Oct 25, 2026



EPA Contacts

Sharon Fang

Remedial Project Manager

(215) 814-3018

fang.sharon@epa.gov

Ian Stewart

Remedial Project Manager

(215) 814-3016

stewart.ian@epa.gov

Katie Page

Community Involvement
Coordinator

(215) 814-2409

page.katherine@epa.gov

Additional Site Information

<https://www.epa.gov/superfund/salfordquarry>

