



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Active and Abandoned Mine Operations

# Jeanesville Mine Fire Briefing

Tresckow Fire Hall  
November 5, 2015

John Stefanko  
Colleen Connolly  
Michael Menghini  
Michael Korb

# Status

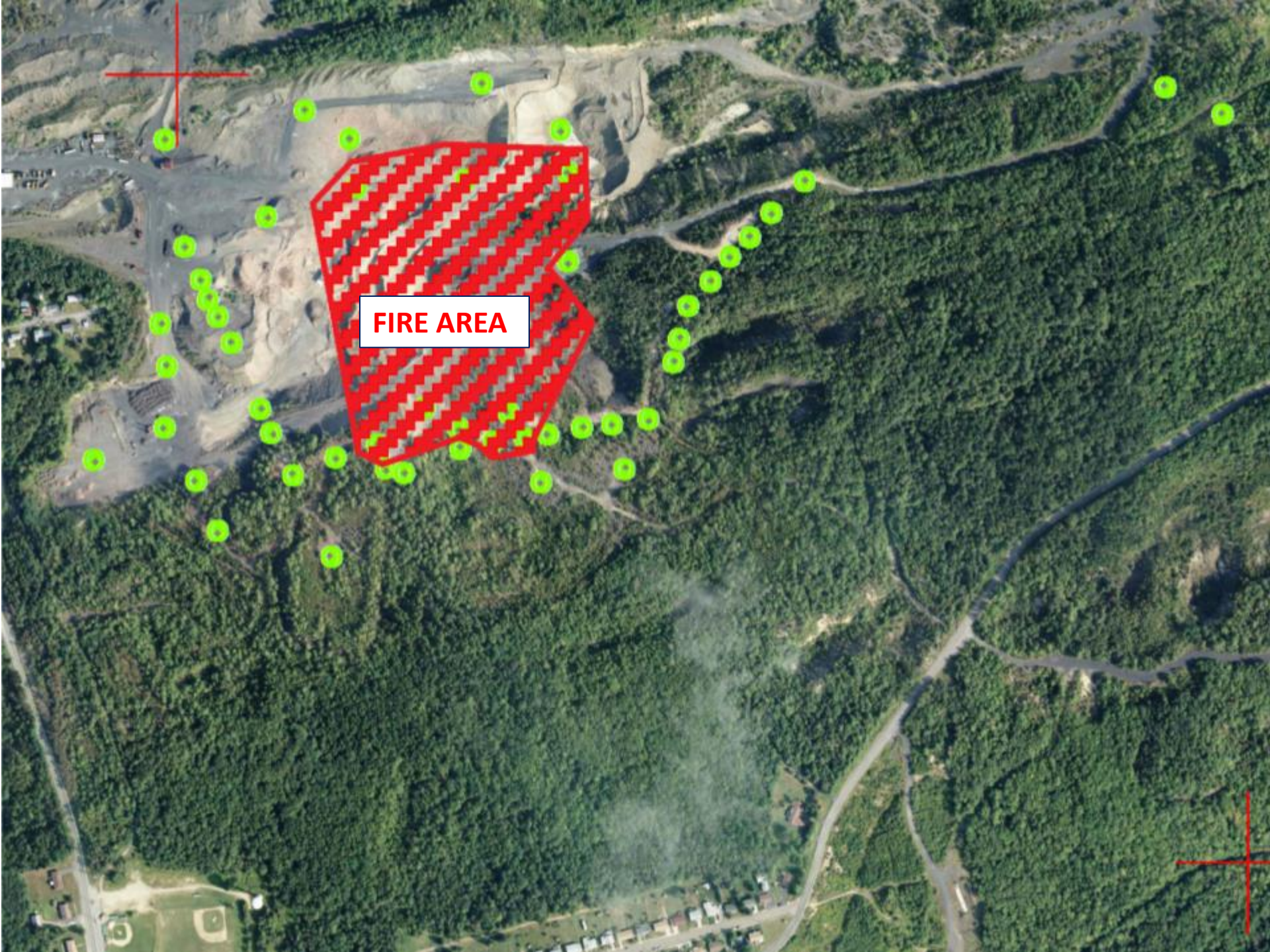
- Hazleton Shaft Corporation Continues to Excavate Underground Mine Fire
- Drilling Project Completed 10/9/15
- Isolation Trench Contract Pre-bid Meeting Held 11/4/15
- Trench Bids Due 11/17/15
- Anticipated Work Start 11/23/15

**HAZLETON SHAFT JEANESVILLE MINE**

**JEANESVILLE**

**TRECKOW**

**DRILLING PROJECT  
HOLES DRILLED  
5/2015-10/2015**



**FIRE AREA**

An aerial photograph showing a landscape with a large area of grey ash or sand in the upper left, a dense green forest covering most of the area, and a residential neighborhood with a baseball field in the lower left. A red hatched polygon highlights a specific area within the ash/sand region. A white text box with a black border is overlaid on the hatched area, containing the text "FIRE AREA = 29 Acres". Two red crosses are visible on the image: one in the top left corner and one in the bottom right corner.

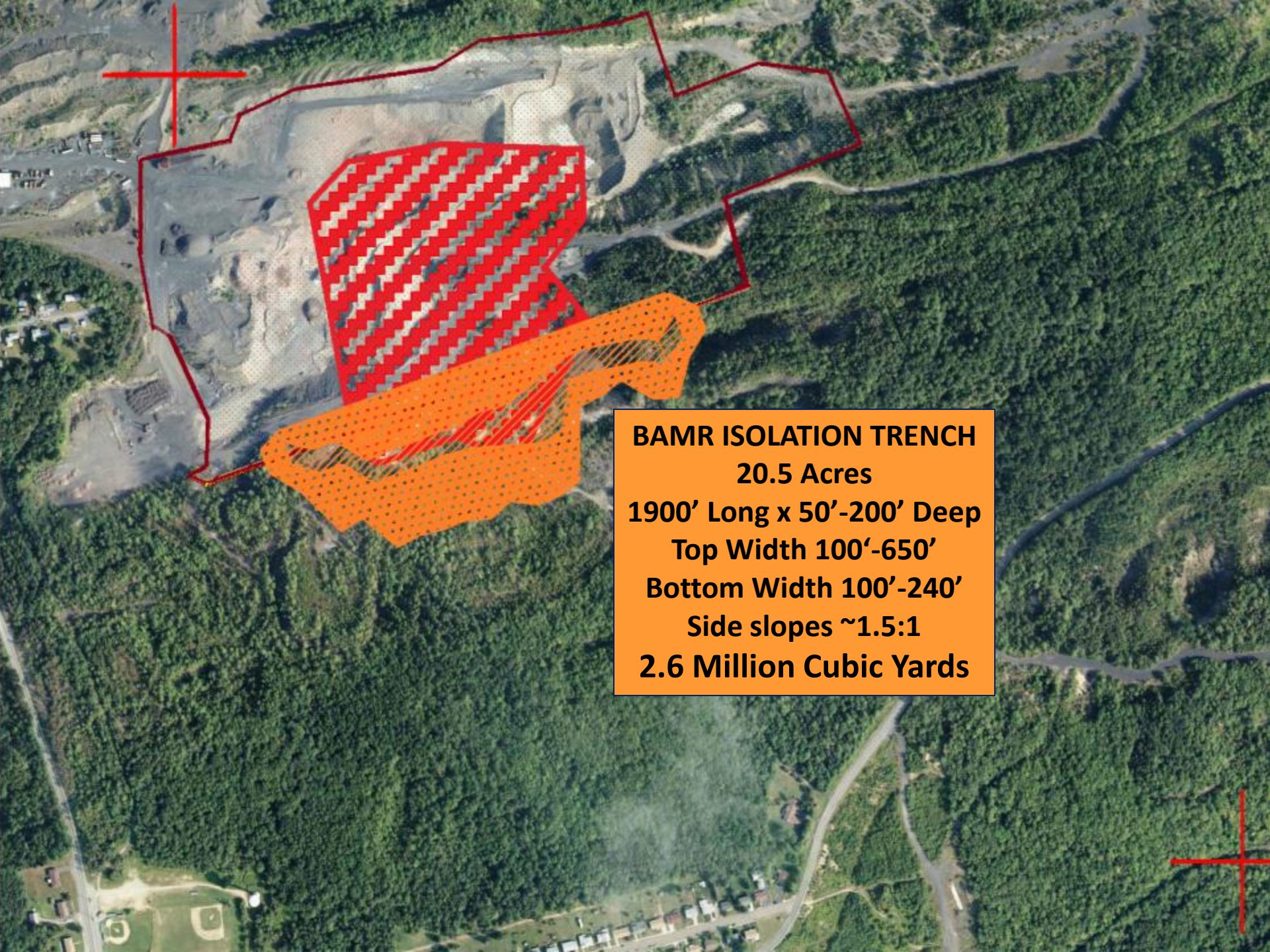
**FIRE AREA = 29 Acres**



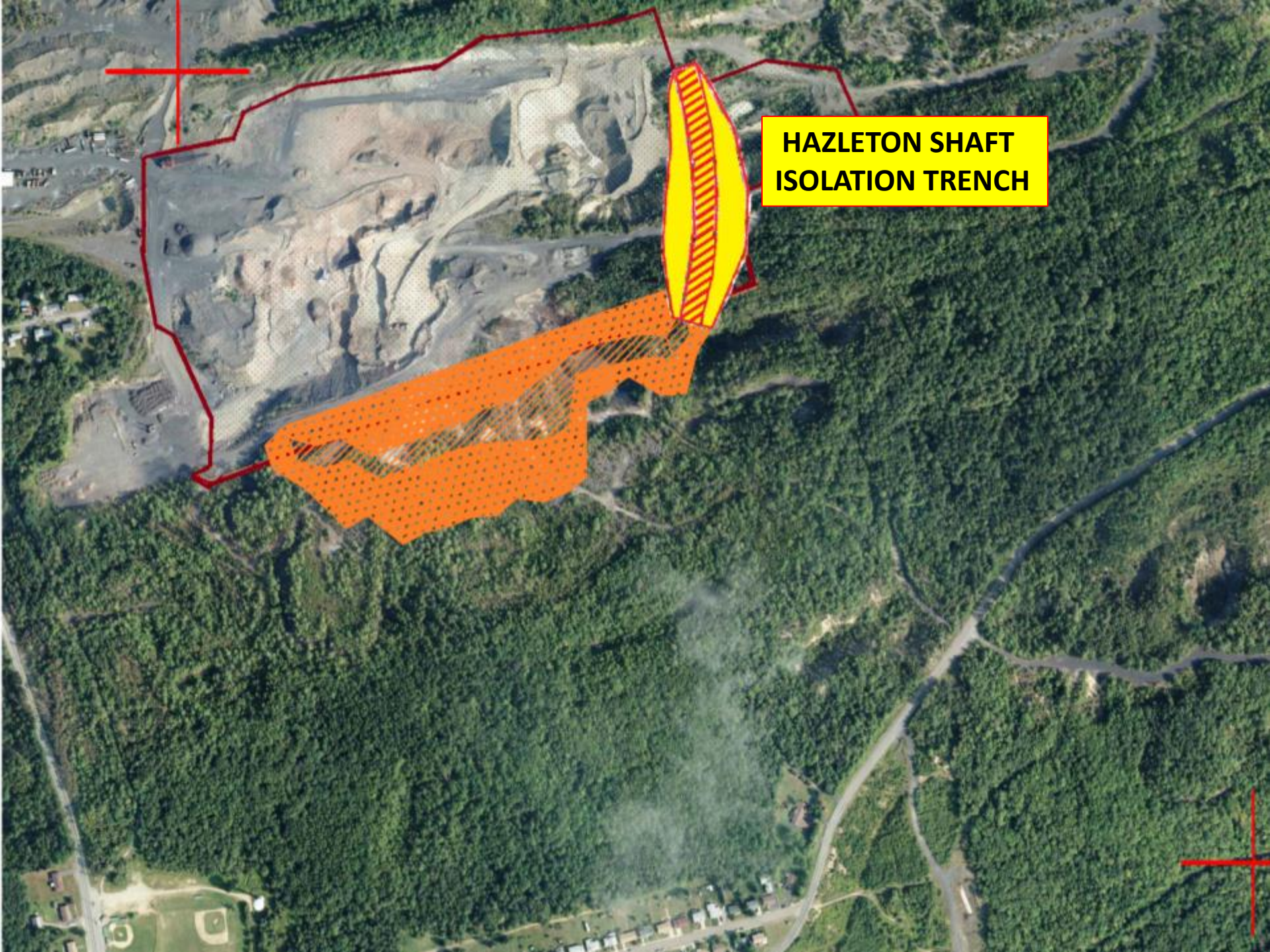


**PROJECT CLEAR & GRUB AREA = 200 Acres**

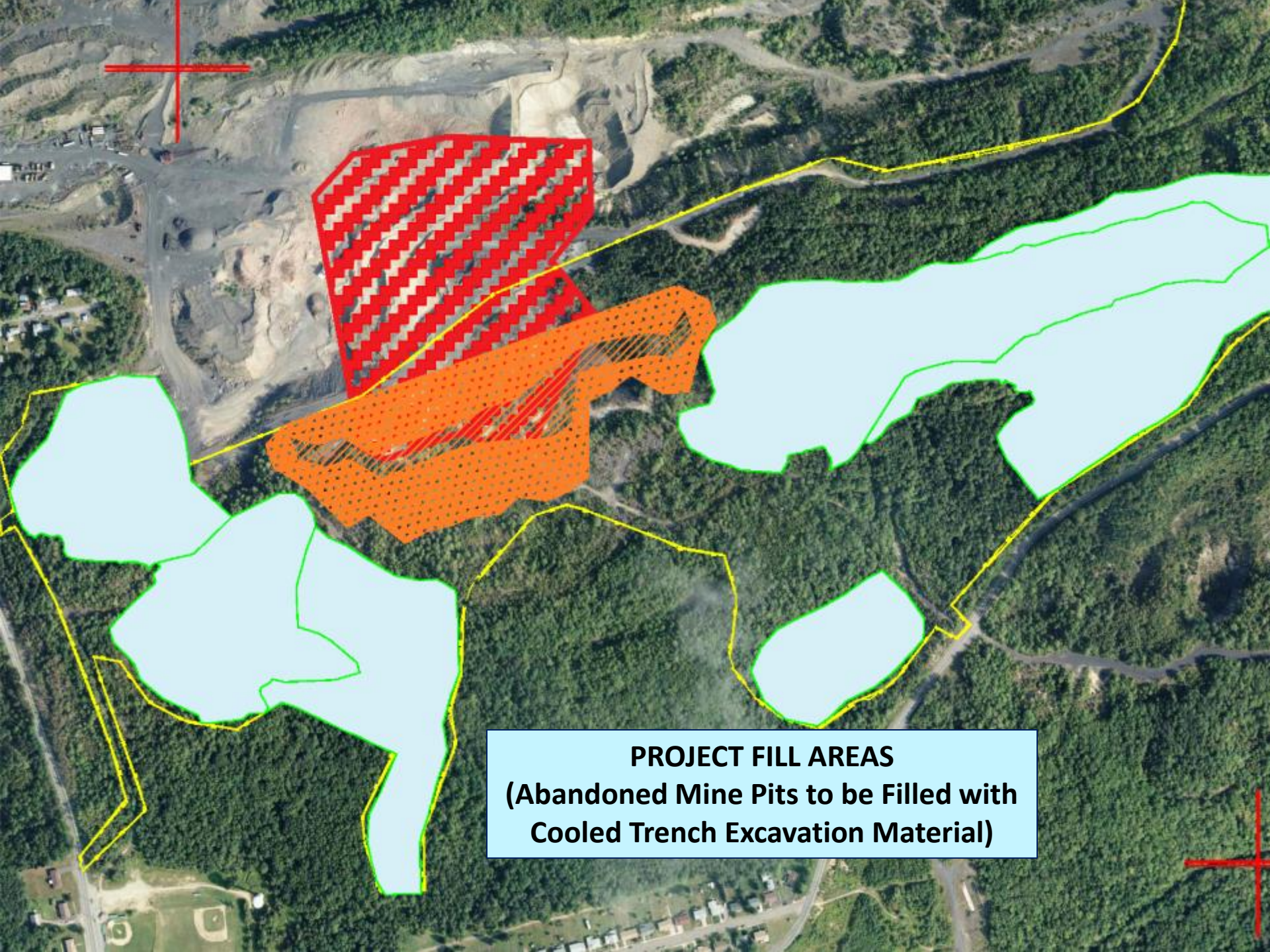




**BAMR ISOLATION TRENCH**  
**20.5 Acres**  
**1900' Long x 50'-200' Deep**  
**Top Width 100'-650'**  
**Bottom Width 100'-240'**  
**Side slopes ~1.5:1**  
**2.6 Million Cubic Yards**



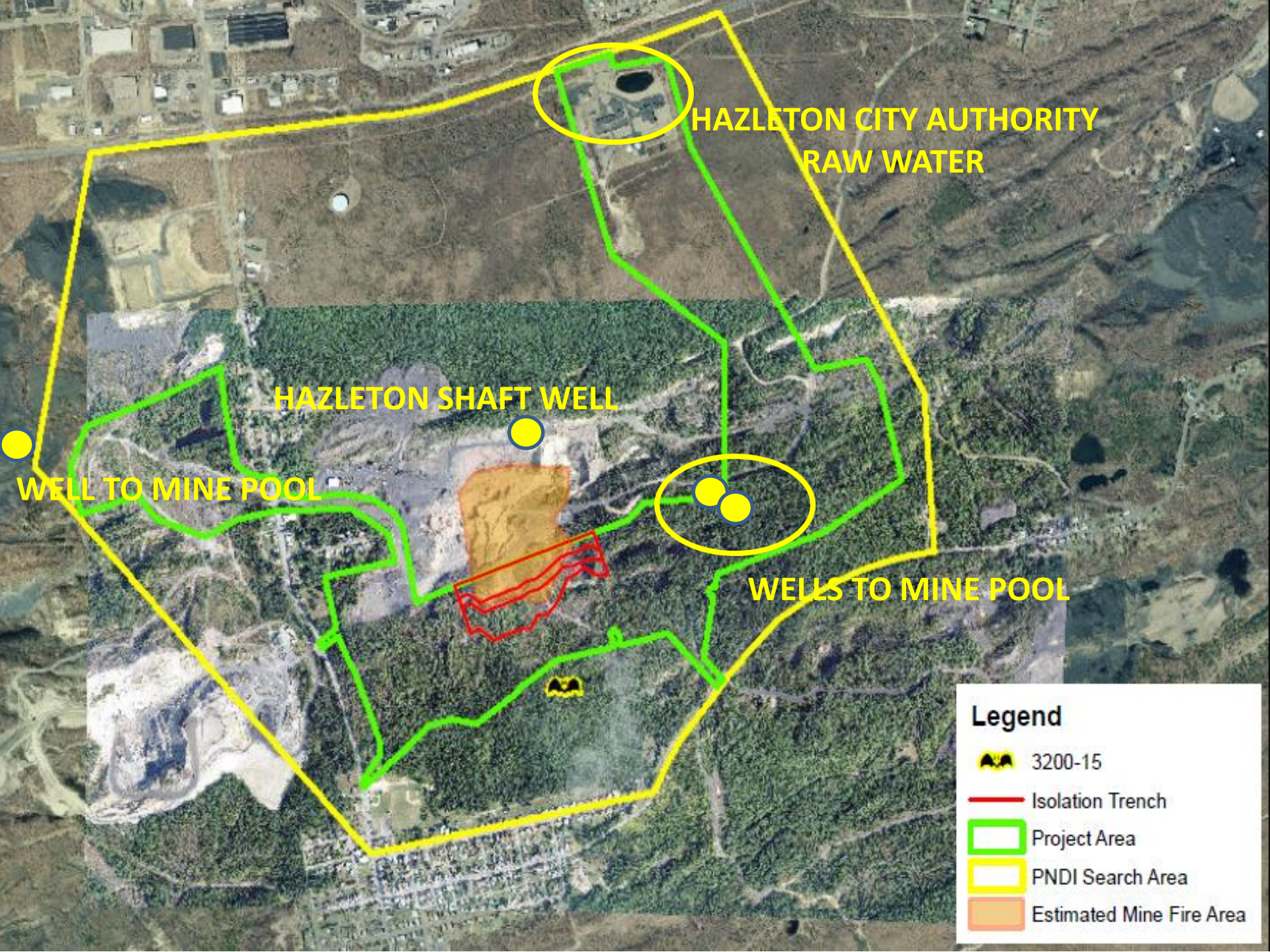
**HAZLETON SHAFT  
ISOLATION TRENCH**



**PROJECT FILL AREAS**  
**(Abandoned Mine Pits to be Filled with**  
**Cooled Trench Excavation Material)**

## JEANESVILLE MINE WORK SEQUENCE

- Hazleton Shaft will excavate and extinguish the mine fire within the limits of their mining area, as mining progresses east.
- BAMR will award contract to clear and grub 200 acres and excavate isolation trench south of the mine area, excavating and cooling all hot surface burning material.
- Hazleton Shaft plans to excavate N/S cut-off trench east of the existing mineworks



HAZLETON CITY AUTHORITY  
RAW WATER

HAZLETON SHAFT WELL

WELL TO MINE POOL

WELLS TO MINE POOL

**Legend**

-  3200-15
-  Isolation Trench
-  Project Area
-  PNDI Search Area
-  Estimated Mine Fire Area

# JEANESVILLE AIR QUALITY MONITORING

From April 29 until September 11, 2015, the DEP Air Quality Program conducted 40 site visits to eight areas to monitor and record air quality data utilizing various pieces of equipment including: MSA-Altair 5X meter measuring CO, H<sub>2</sub>S, %O<sub>2</sub>, and Lower Explosion Level (LEL) , Draeger pump measuring SO<sub>2</sub> to 1 ppm, and a Jerome meter to measure H<sub>2</sub>S down to 1ppb. A hand held field instrument was used for wind speed and direction and air temperature.

Inspectors logged 114 sample hours over the 40 site visits. Each area was sampled individually for approximately 10 minutes before moving to the next location. These sample hours encompassed daytime monitoring as well as morning (3am-7am) and evening (7pm-12am).

# JEANESVILLE AIR QUALITY MONITORING

1 ppm CO was detected at 3 sites in Tresckow on June 24, 2015, and each of the 8 sites had some H<sub>2</sub>S detected with values ranging from 1.08ppb to 4.57 ppb. 1 ppm of H<sub>2</sub>S was detected at Site #3 on June 24, 2015 and at Sites #4, #5 on June 22, 2015 with the MSA meter prior to obtaining the more sensitive Jerome. There were no deviations from normal O<sub>2</sub>, SO<sub>2</sub> and LEL at any site. “Faint, slight, and mild” sulfur odors were documented during several site visits but no readings approached any action level nor warranted any additional actions.

# JEANESVILLE AIR QUALITY MONITORING

- Hazleton Shaft will continue to monitor gas/oxygen levels in the active area per MSHA requirements to ensure no dangerous levels are present for employees.
- BAMR and excavation contractor will be monitoring gas/oxygen levels in the contractor's work area.
- DEP Northeast Regional Office Air Quality will be monitoring gas/oxygen levels in the surrounding communities on an as-needed basis.



**STAY OUT**  
**STAY OUT**  
**ALIVE**





**DANGER**

**STAY OUT!**

**STAY ALIVE!**



## CONTACT

Mike Menghini, District Mining Manager

DEP Pottsville District Mining Office

5 West Laurel Boulevard | Pottsville, PA 17901-2522

Phone: 570-621-3118 | Fax: 570-621-3110

[mmenghini@pa.gov](mailto:mmenghini@pa.gov)

Mike Korb, Environmental Program Manager

DEP Wilkes-Barre BAMR Office

2 Public Square | Wilkes-Barre, PA 18701-1915

Phone: 570-826-2371 | Fax: 570-826-2441

[mkorb@pa.gov](mailto:mkorb@pa.gov)

Jean Grabowski, Air Quality Environmental Group Manager

DEP North East Regional Office

2 Public Square | Wilkes-Barre, PA 18701-1915

Phone: 570-826-2511 (24 hours/day)

[jegrabowsk@pa.gov](mailto:jegrabowsk@pa.gov)