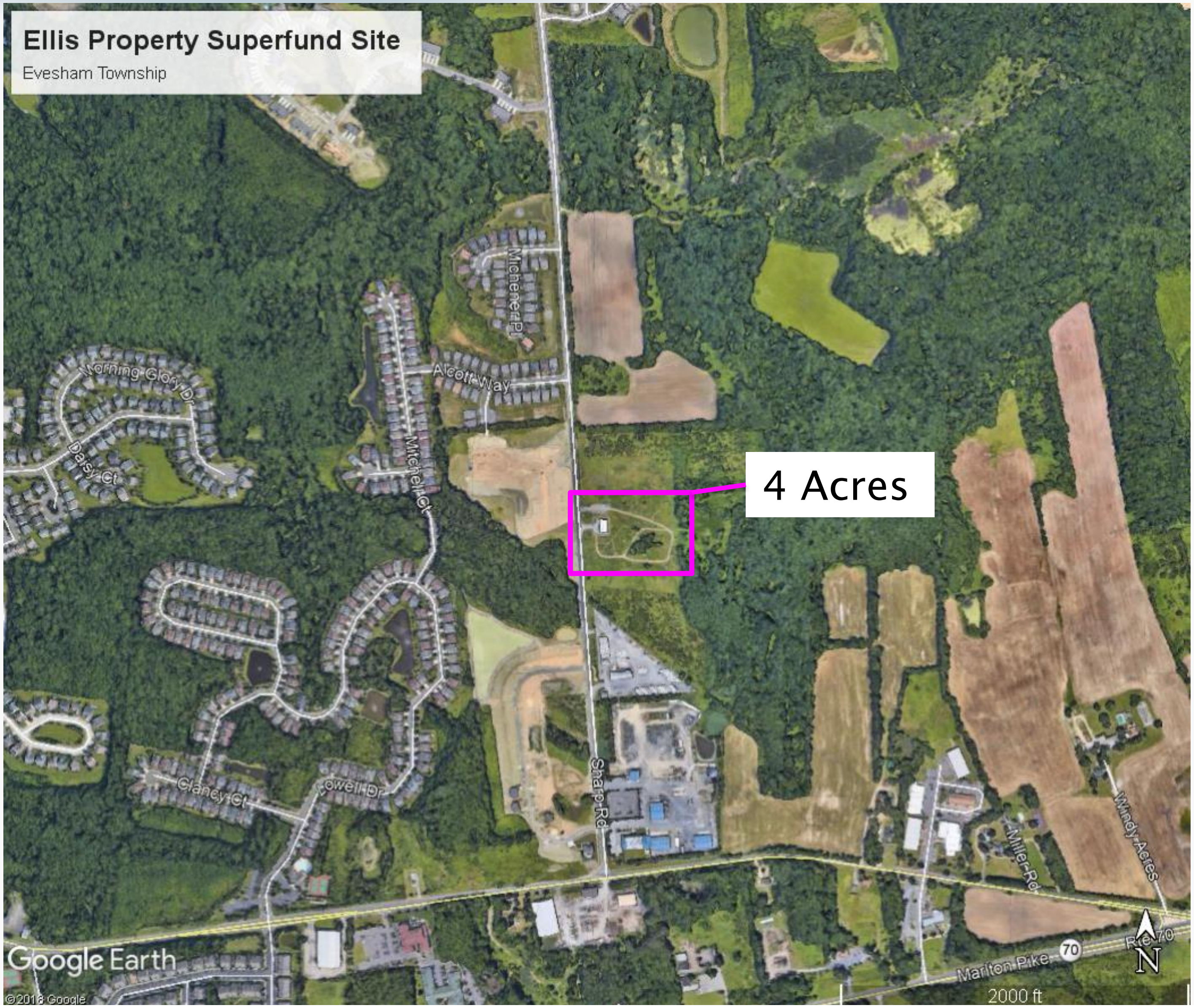
Ellis Property Superfund Site

Community Information Meeting
December 4, 2019

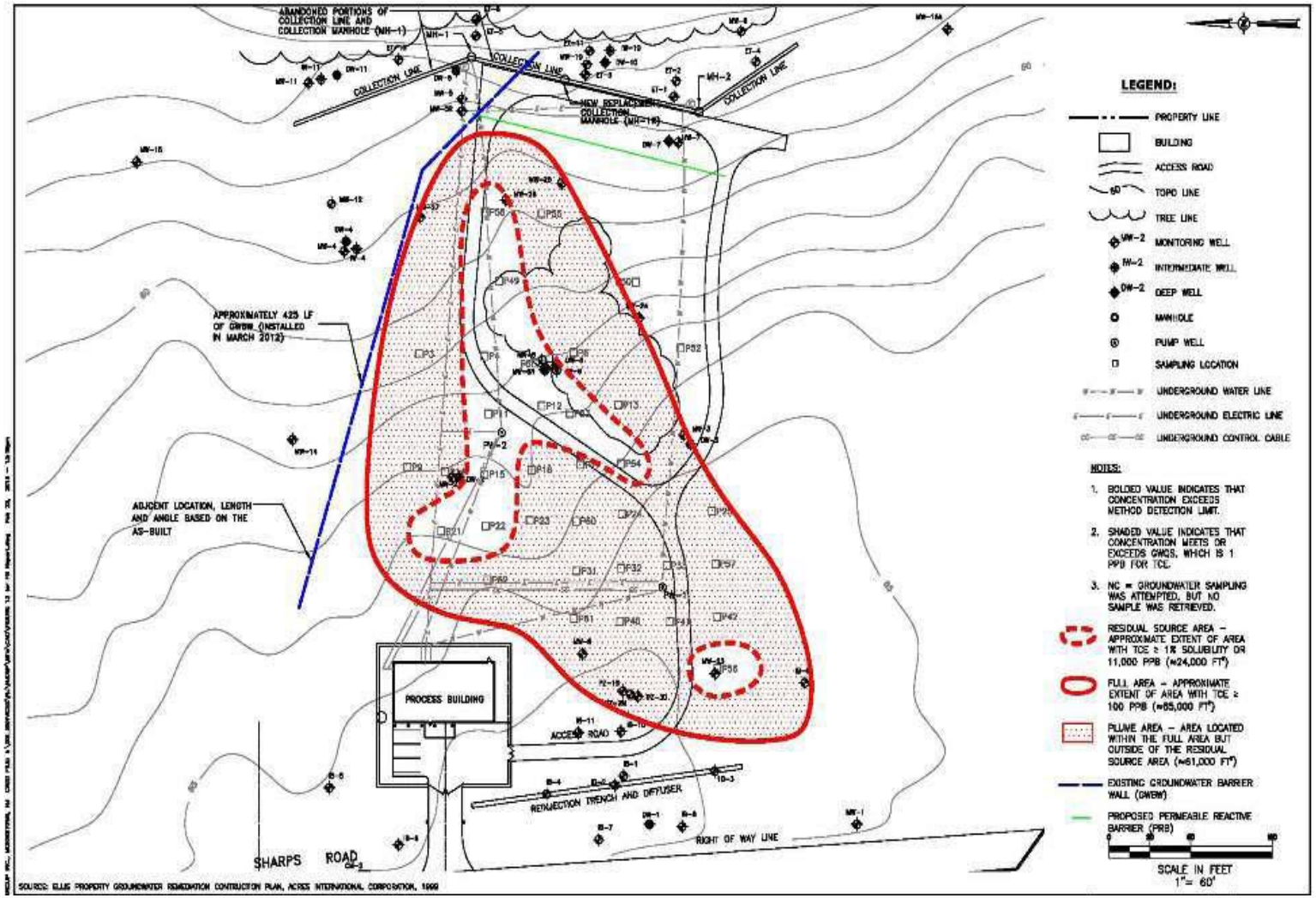
Background

Year	Event
1968	Dairy farm operations cease
1970	Steel drum reconditioning and recycling business operates
1980	New Jersey performs removal of drums, emergency clean-up
2000	New Jersey completes contaminated soil removal and installation of Water Treatment Plant
2007	Investigation identifies pockets of contamination in clay layers not easily treated
2013	EPA Record of Decision Amendment
2018	EPA Superfund funding becomes available, planning starts
2019	Soil excavation and source removal begins



Ellis Property Superfund Site
Evesham Township
4 Acres
Michener Pl
Alcott Way
Morning Glory Dr
Daisy Ct
Mitchell Ct
Clancy Ct
Lowell Dr
Sharp Rd
Miller Rd
Windy Acres
Marlton Pike
70
Rte 70
N
2000 ft
Google Earth
©2018 Google

Source of Contamination

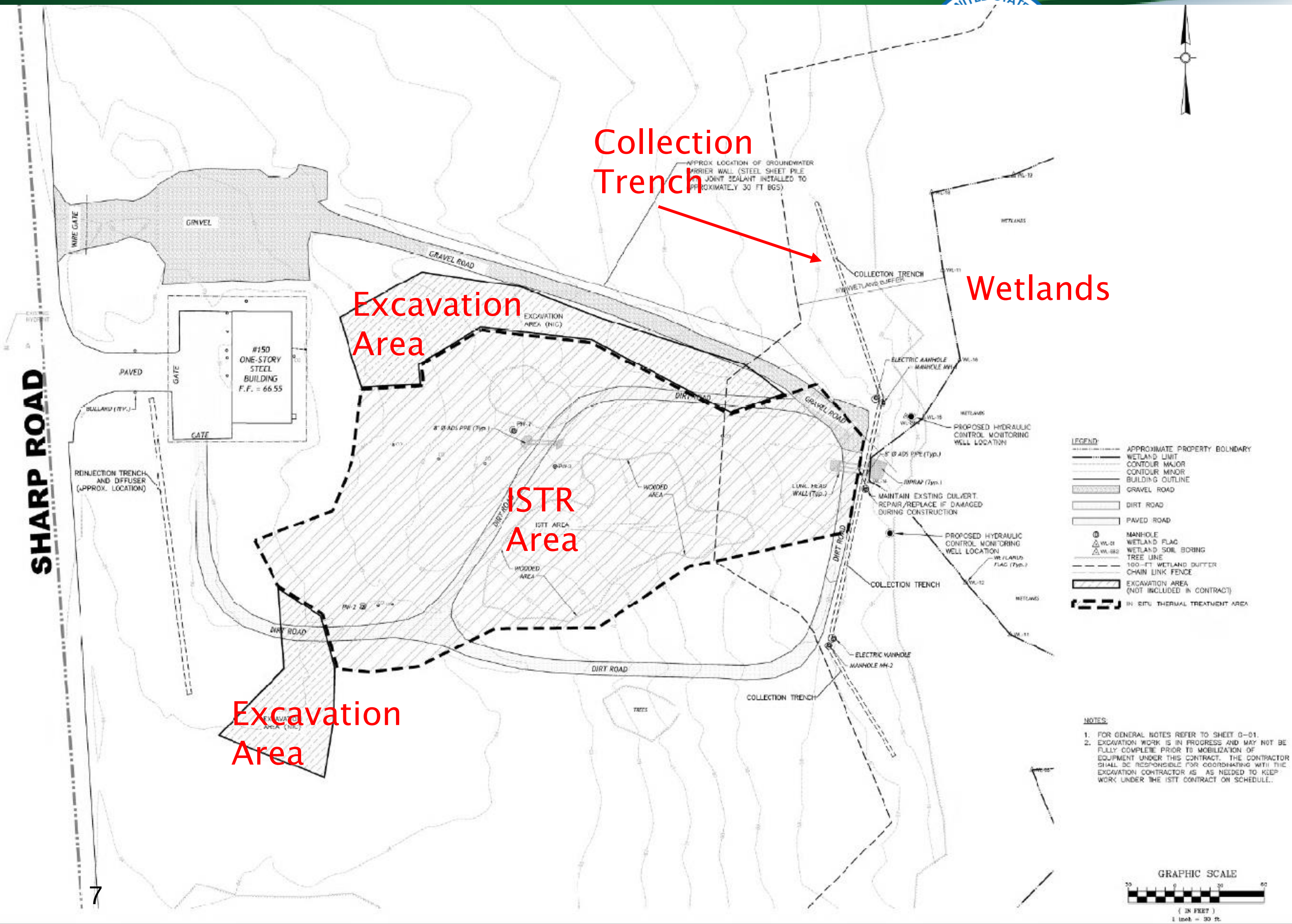


Trichloroethylene (TCE)

- Degreaser and solvent
- Found in soil and groundwater
- Depths between 10 to 24 feet

Background

Year	Event
1968	Dairy farm operations cease
1970	Steel drum reconditioning and recycling business operates
1980	New Jersey performs removal of drums, emergency clean-up
1992	Original EPA Record of Decision (New Jersey performed the clean-up)
2000	New Jersey completes contaminated soil removal and installation of Water Treatment Plant (1400 CY, 43 mil gallons of water)
2007	Investigation identifies pockets of contamination in clay layers not easily treated
2013	EPA Record of Decision Amendment
2018	EPA Superfund funding becomes available, planning starts
2020	Soil excavation and source removal begins (6,600 CY removal)



SHARP ROAD
Collection Trench
Wetlands
Excavation Area
ISTR Area
Excavation Area
COLLECTION TRENCH
GRAVEL ROAD
DIRT ROAD
GRAVEL
PAVED
#150 ONE-STORY STEEL BUILDING F.F. = 66.55
GATE
WIRE GATE
INJECTION TRENCH AND DIFFUSER (APPROX. LOCATION)
EXCAVATION AREA (NIC)
ISTT AREA
WOODED AREA
PROPOSED HYDRAULIC CONTROL MONITORING WELL LOCATION
MAINTAIN EXISTING CULVERT. REPAIR/REPLACE IF DAMAGED DURING CONSTRUCTION
ELECTRIC MANHOLE
MANHOLE MH-2
WETLANDS
LEGEND:
APPROXIMATE PROPERTY BOUNDARY
WETLAND LIMIT
CONTOUR MAJOR
CONTOUR MINOR
BUILDING OUTLINE
GRAVEL ROAD
DIRT ROAD
PAVED ROAD
MANHOLE
WETLAND FLAG
WETLAND SOIL BORING
TREE LINE
100-FT WETLAND BUFFER
CHAIN LINK FENCE
EXCAVATION AREA (NOT INCLUDED IN CONTRACT)
IN SITU THERMAL TREATMENT AREA
NOTES:
1. FOR GENERAL NOTES REFER TO SHEET G-01.
2. EXCAVATION WORK IS IN PROGRESS AND MAY NOT BE FULLY COMPLETE PRIOR TO MOBILIZATION OF EQUIPMENT UNDER THIS CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE EXCAVATION CONTRACTOR AS AS NEEDED TO KEEP WORK UNDER THE ISTT CONTRACT ON SCHEDULE.
GRAPHIC SCALE
(IN FEET)
1 inch = 30 ft.

Cleanup Actions

1. Soil Excavation

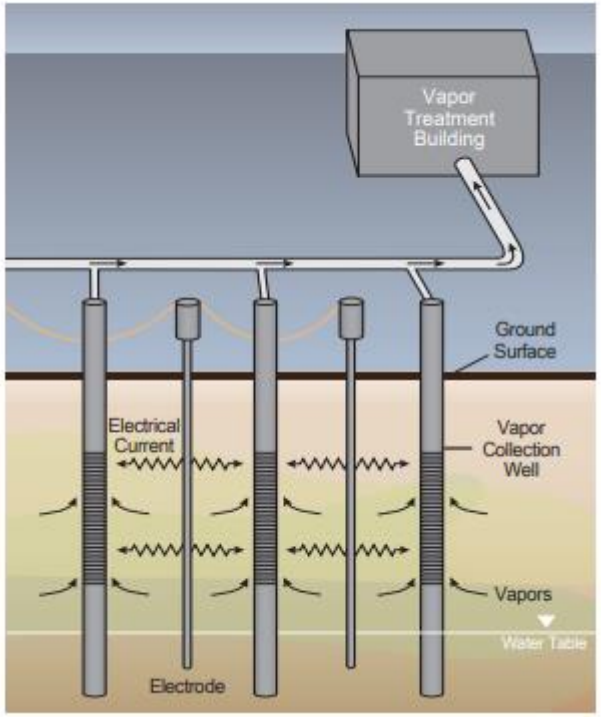
- Begins in January 2020
- 6-month duration
- Targets contamination in smaller source area
- 6,600 CY soil removed

2. Thermal Treatment

- Begins in July 2020 (construction of thermal remediation)
- Heating begins in late fall/early winter (6-months)
- Contamination reduction monitored during heating to evaluate effectiveness and duration
- 61,000 CY Treated

January 2020 → December 2021

In-Situ Thermal Remediation



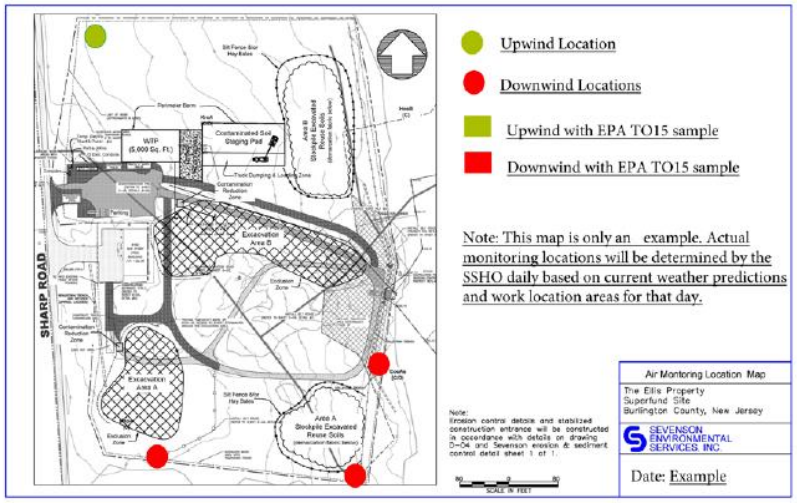
ERH system cleans up contaminated soil and groundwater.

- Heating moves chemicals in soil (changes them to vapors)
- Chemicals are collected and piped to the surface
- Surviving chemicals treated at surface
- Technique is useful for chemicals that are a source of groundwater contamination
- SAFETY (electrical grounding, impermeable surface, air monitoring)

Overall Safety During Cleanup

- ***Comprehensive Health and Safety Plan*** includes an air monitoring plan for dust and contaminants.

Example Air Monitoring Location Map



- ***Traffic Control Plan and Security***

Ellis Property Superfund Site
Figure 2 – Traffic Control Signs

Important Facts

- Contaminated groundwater does not affect the public drinking water supply
- Targeting pockets of contaminants in clay that release slowly to groundwater
- Soil heating and excavation to remove contamination

Contact Information

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