

# Interim Remedial Action

## Dual Phase Extraction (DPE) (~ Fall 2011)



An example DPE system showing a vapor/water separation tank, vacuum pump, vapor treatment unit, and groundwater storage tank.

- First step in the interim remediation process prior to beginning excavation.
- Involves removal of soil gas, and organic compounds in liquid form (called **NAPL**, or non-aqueous phase liquid) in the shallow soils and groundwater beneath the concrete pad.
- Intended to control exposure of construction workers and residents to NAPL and soil gas in the shallow sub-grade.

## Temporary and Permanent Relocation (~Fall 2011)

- Offered before excavation begins.
- Permanent relocation will be offered to 3 residences on 3<sup>rd</sup> Street.
- Temporary relocation during the excavation portions of the Interim Remedial Action will be offered to residents on both sides of Center Street.

## Shallow Excavation (~Fall-Spring 2011-12)



Example excavation being performed at another site.

- Removal of concrete pads and excavation of soils to a depth up to **5 ft** in the Large Vacant Lot and Small Vacant Lot.
- Based on most recent soil data, these surface soils are impacted with lead, pesticides and other contaminants of concern.
- Air monitoring for particulate matter (dust) will be performed during excavation activities. Background air monitoring will be initiated before excavation begins.

## Source Area Excavation (~Winter-Spring 2011-12)



Example deep excavation being performed at another site.

Soils will be wet therefore minimal dust will be kicked up.

- To be performed in the contaminant source areas to a depth of **10 to 15 ft**. Intended to remove the majority of the of NAPL mass.
- Removal of NAPL would eliminate primary onsite source of contaminants.
- Subsurface liquids will be pumped out of the excavation in order to achieve the target excavation depth of **10 to 15 ft**.
- Excavation will be covered to prevent residential exposure to contaminants. Air monitoring for volatile organic compounds (VOCs) and particulate matter will be performed during excavation activities.

Additional soil and groundwater data will be collected after the excavation is complete. Data will be used to develop the final remedy for the remaining contamination that is below 15 feet.