

PROPOSED REMEDIAL ACTION PLAN

Bayer OXY Hooker RUCO Polymers Site (RUCO Polymer Corp. (Hooker Chem))

NYSDEC Site No. 130004



Department of
Environmental
Conservation

RUCO Polymer Corp. (Hooker Chem) Proposed Remedial Action Plan (PRAP) Presentation Meeting Goals

- BRIEF REVIEW OF THE SITE HISTORY (DEC)
- SOIL VAPOR REMEDIAL INVESTIGATION (DEC)
- DISCUSSION OF THE SELECTED REMEDY FOR THE SITE (DEC)
- HUMAN EXPOSURE PATHWAYS (NYSDOH)
- CONCLUSION

Site Location

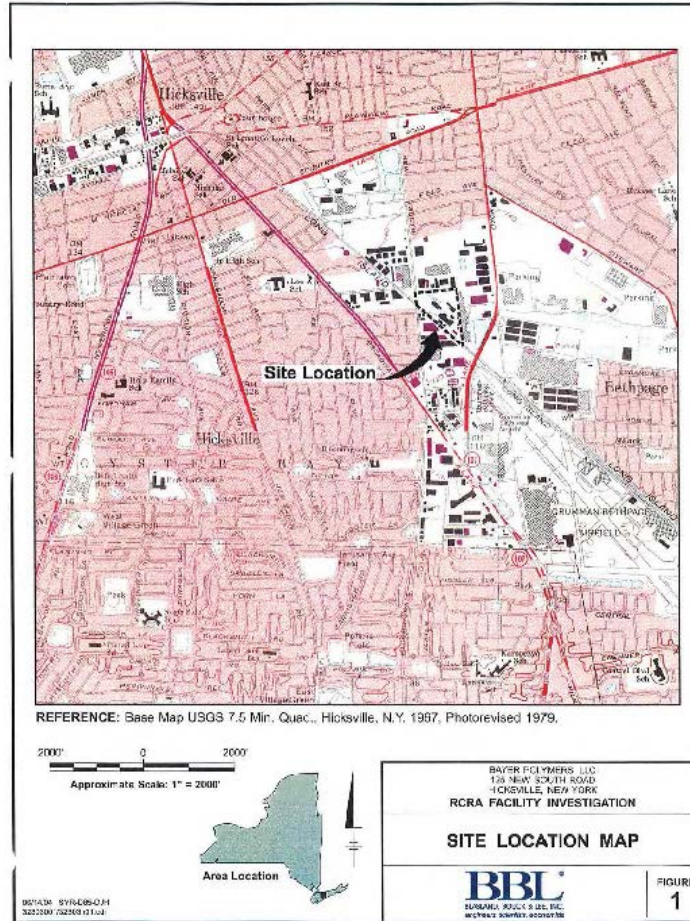
- The Site is:

a 14-acre triangular-shaped parcel;

located east of New South Road & South of Commerce Place;

in Nassau County, Town of Oyster Bay, Hicksville



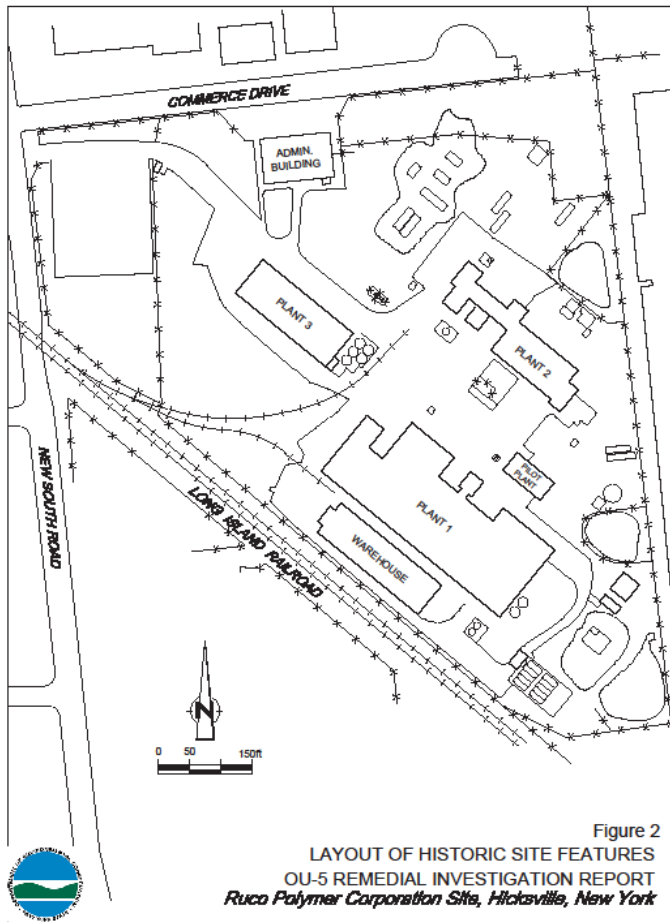


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Background & Site History

- *Manufacturing facility was constructed in 1945.
- *It was acquired by Hooker Chemical and Plastic Corp in 1966, acquired by Occidental Chemical Corp (OXY) and sold in 1982.
- *In 1982, employees of the RUCO Division bought facility and it became known as the RUCO Polymer Corp.
- *In 1998, Sybron Chemicals, acquired RUCO Polymer Corp.
- *The facility was acquired by Bayer Material Science, LLC (Bayer) in 2000, which operated the site until closure in 2002.





From OXY OUS RI Report

Figure 2
LAYOUT OF HISTORIC SITE FEATURES
OU-5 REMEDIAL INVESTIGATION REPORT
Ruco Polymer Corporation Site, Hicksville, New York



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Site Environmental History

- Designated a Superfund site and placed on the USEPA National Priorities List (NPL) in 1984.
- NYS Registry of Hazardous Waste Sites Shortly thereafter
- To date, 4 Records of Decision (RODs) have been written and
- Active Facility Corrective Actions under the Resource Conservation and Recovery Act (RCRA) have been implemented.

Resulted in 3 Unilateral Administrative orders (UAOs) with EPA and 3 DEC Orders on Consent (CERCLA)



The CERCLA Projects, over time, have been divided into the following five operable units (OU):

OU1-USEPA: Waste Water Sumps:

OU2-USEPA- PCB Soil Removal

OU3-USEPA- Off-site Groundwater:

OU4- NYSDEC: Onsite Soil & Onsite Soil Vapor:

Current Proposed Plan:

OU5-NYSDEC: Offsite Soil Vapor Intrusion:



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3/15/2003



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OU5: Soil Vapor Investigation (SVI)

2007-2011: Several Rounds of SVI during Corrective Action and leads to

2012: OU4 ROD that contains Onsite Vapor Intrusion w/Restrictions

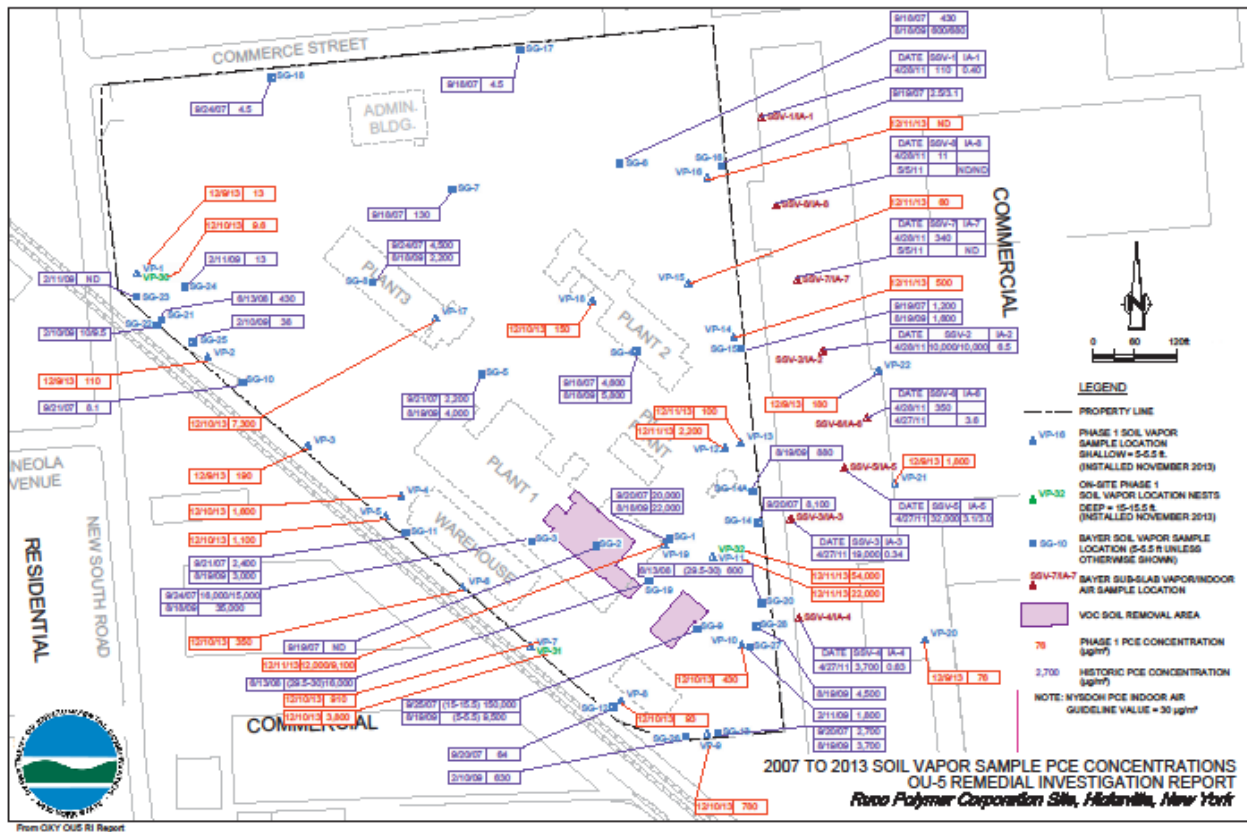
2012: DEC Creates OU5 for Offsite Soil Vapor

2013: Responsible Parties, OXY and Bayer, sign OU5 Order

2014-2015: OXY Conducts the OU5 Remedial Investigation (RI)

2016: OXY OU5 RI Report Approved

2017: DEC issues OU5 PRAP that Screens Alternatives



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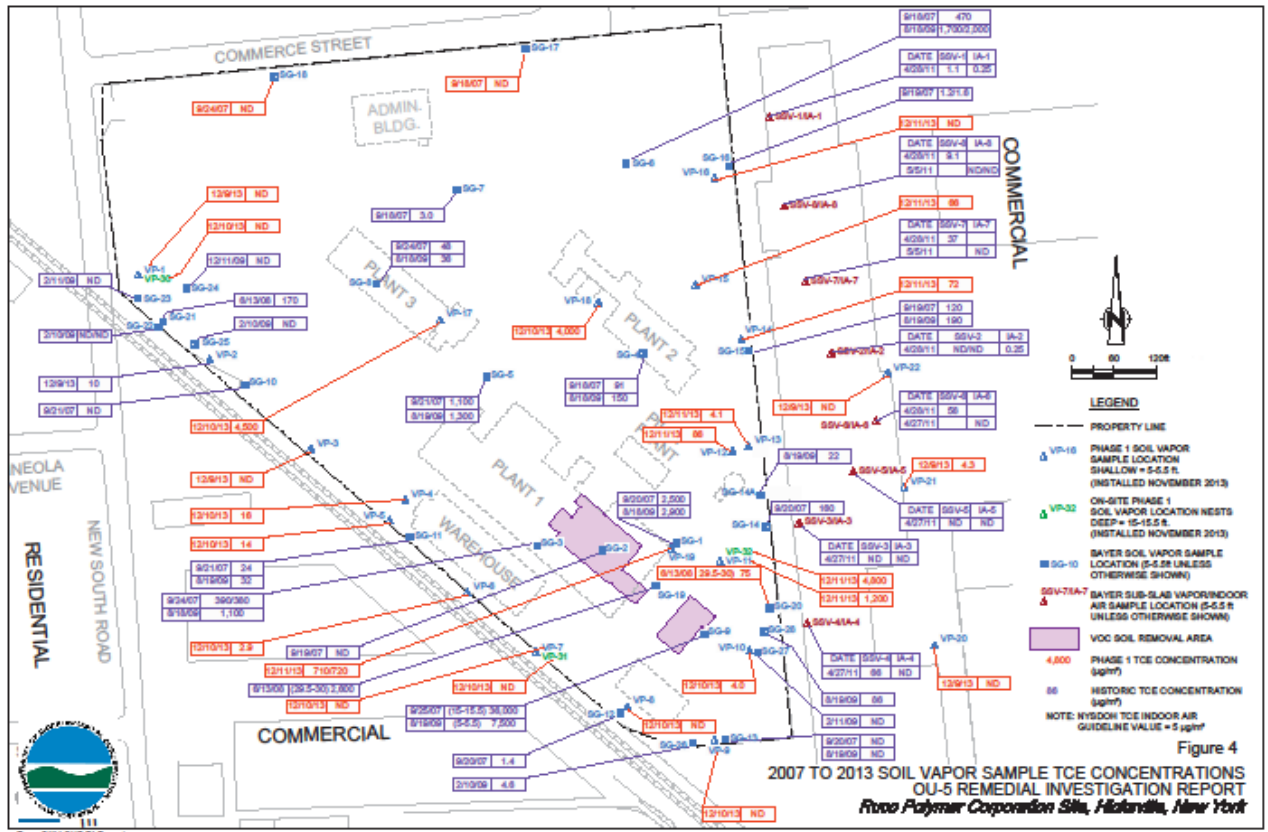


Figure 4

From ORY OUG RI Report

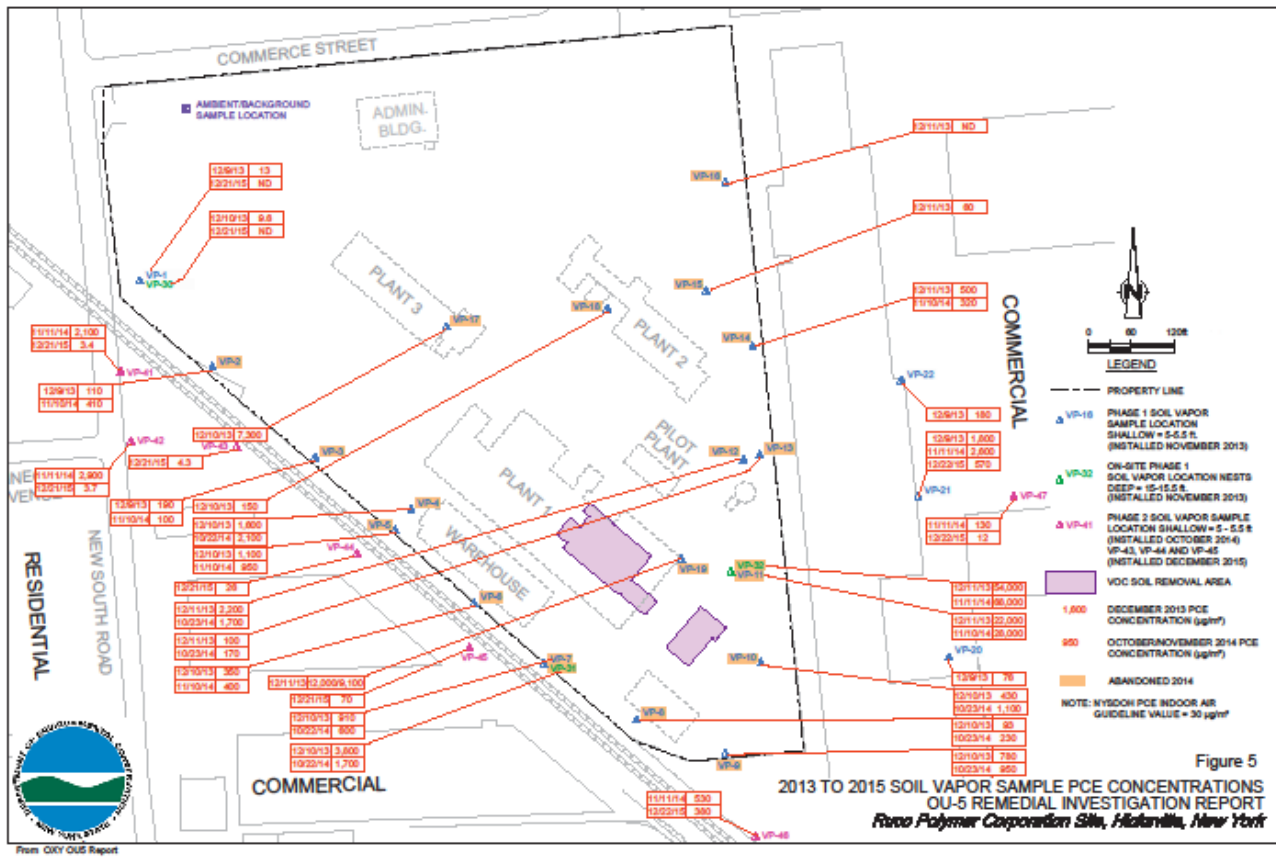


Figure 5

2013 TO 2015 SOIL VAPOR SAMPLE PCE CONCENTRATIONS
OU-5 REMEDIATION INVESTIGATION REPORT
Roco Polymer Corporation Site, Hicksville, New York



From OUY OUS Report



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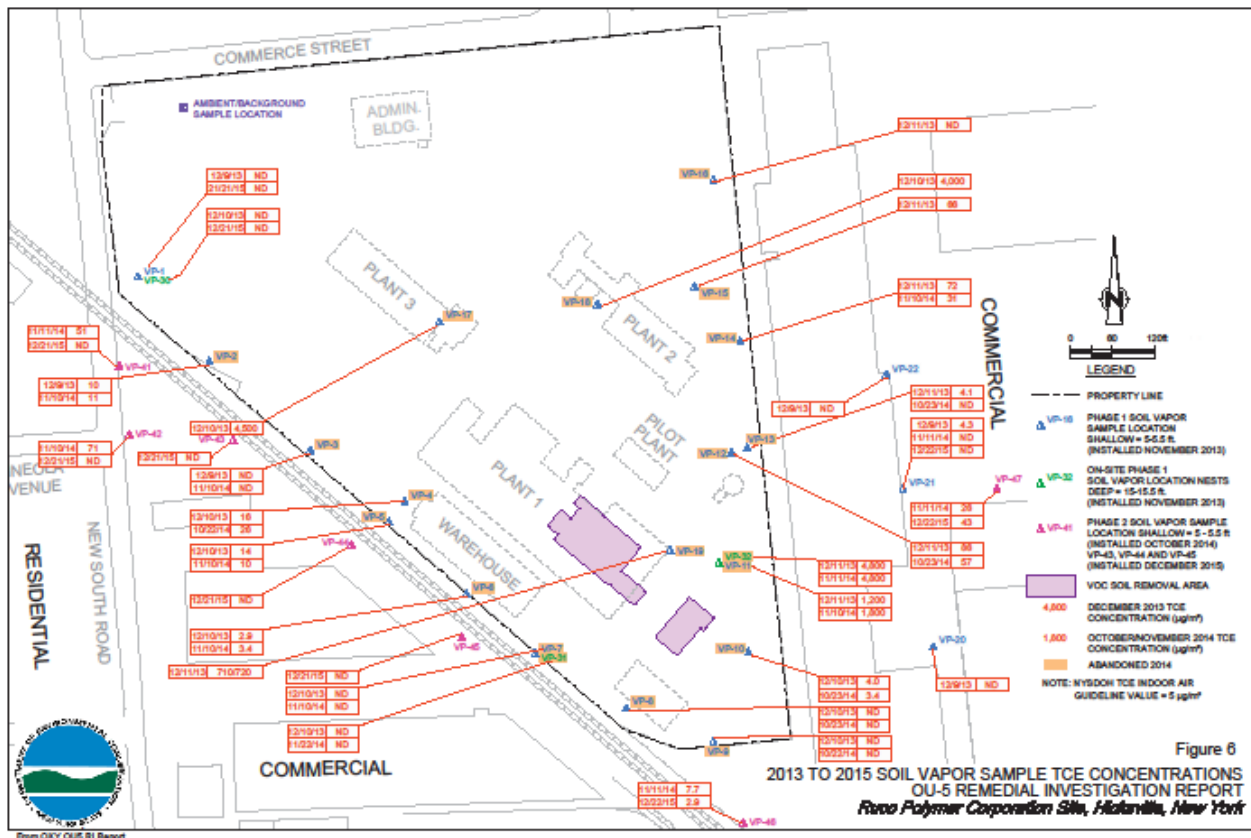


Figure 6

Summary of the Remediation Objectives For OU5

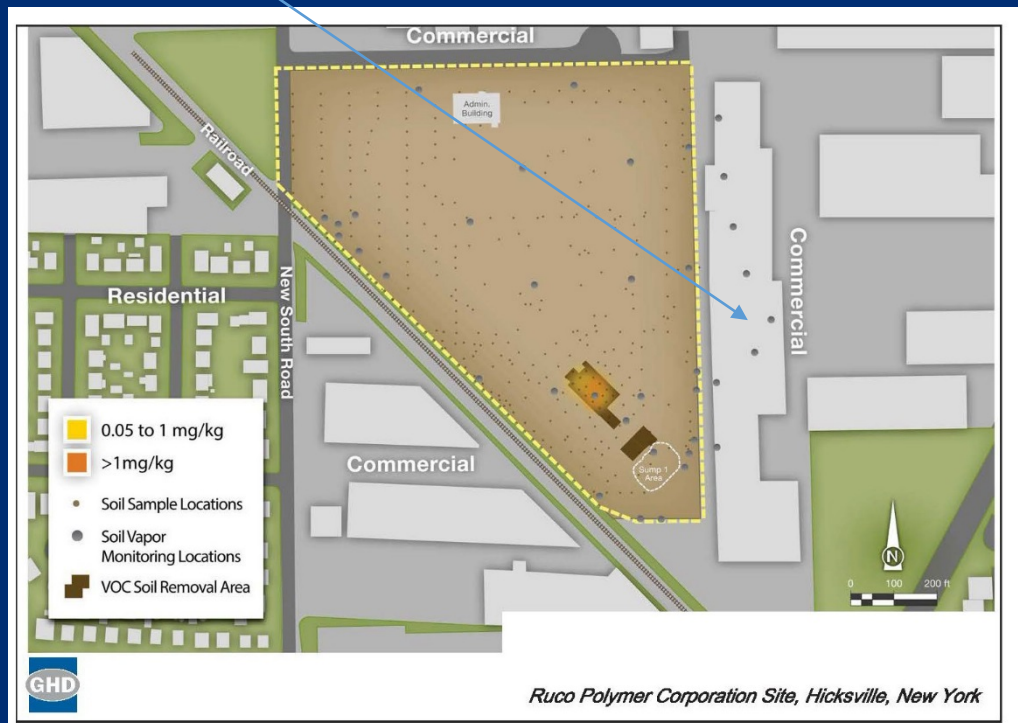
The objectives for the remedial program at a minimum, shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

Soil Vapor

RAOs for public health protection are to mitigate impacts to public health resulting from existing, or the potential for soil vapor intrusion into buildings at a site.



Former Grumman Plant 37



Remedial Alternatives

Alternative 1: No Action

Alternative 2: Site Controls and Monitoring

Alternative 3: Sub-Slab Depressurization Systems (SSDS)



OU5 Proposed Remedial Action Plan

Alternative 3: Sub-Slab Depressurization Systems (SSDS)

Remedial Alternative	Capital Cost (\$)	Annual Costs(\$)	Total Present Worth (\$)
Alternative 1: No Further Action	\$0	\$0	\$0
Alternative 2: Site Controls and Monitoring	\$0	\$25,000	\$400,000
Alternative 3: SSD Systems	\$200,000	\$10,000	\$350,000

Proposed Remedial Action Plan

The Remedy for the site Includes:

- *Installation of the OU5 SSD System with Periodic Monitoring;
- *Soil Vapor Sampling to Confirm SVI Decreasing Trends.
- *Appropriate Deed restrictions in an Environmental Easement;
- *Restrictions include proper site management;
- *Requirements of all the Operable Units.



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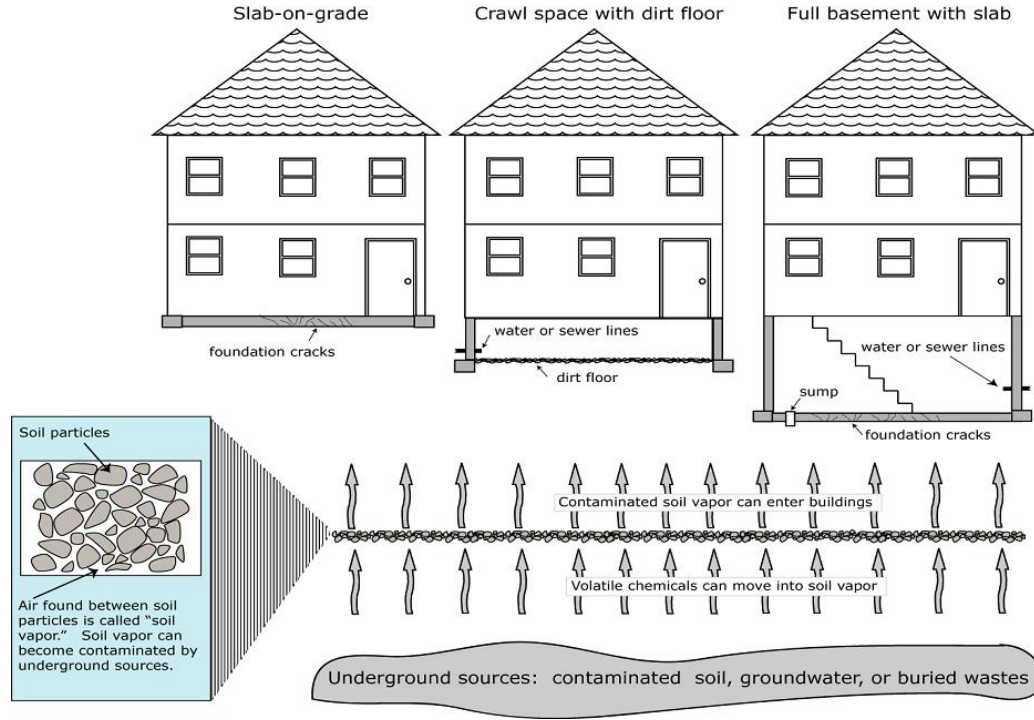
Exposure

- The physical contact with a chemical or substance
 - **ingestion**(eating/drinking)
 - **inhalation**(breathing)
 - **direct contact** (touching)
- One or more of these physical contacts **must** occur before a chemical has the potential to cause an adverse health effect.
- Exposure does not necessarily mean an adverse health effect will occur.

Potential Exposure Pathway Evaluated:

- Inhalation: breathing indoor air impacted via soil vapor intrusion.

How can Indoor Air be Impacted?



Inhalation Pathway

- Soil vapor samples were collected at numerous (ten) off-site locations during several sampling events.
- One off-site commercial structure was evaluated for soil vapor intrusion (SVI).
- The potential for indoor air impacts via SVI in the off-site commercial building will be addressed by the operation of active sub-slab depressurization systems.

Proposed Remedy

No Ingestion = No Exposure

No Inhalation = No Exposure

No Contact = No Exposure

Protective of Human Health

Thank You

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