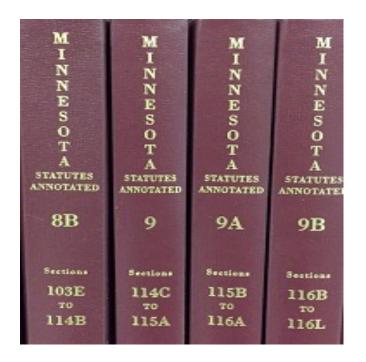


"Environmental Due Diligence for the Real Estate Attorney – Focus on the Soil Vapor Intrusion Problem" 2019 Real Estate Institute October 31, 2019 Joseph G. Maternowski Hessian & McKasy, PA



Sources of Environmental Law

- Federal Statutes and Regulations
 - State Statutes and Regulations
 - Local Ordinances





Federal and State Superfund Liability CERCLA/MERLA

- Past and Current Owners and Operators
- Liable for Investigation and Clean-up Cost
 - Retroactive, Joint and Several Liability





Environmental Business Risk



- Investment Loss
 - Tort Liability
- Reputational Risk



Protections/Defenses to CERCLA/MERLA Liability



- Innocent Landowner
- Contiguous Property Owner
- Bona Fide Prospective Purchaser



Type of Project – Dictates Approach and Response

- Sale
- Acquisition
 - Refinance
 - Lease
- Redevelopment



Phase I Environmental Site Assessment

All Appropriate Inquiry

ASTM Standard Practice E1527-13

 Purpose: Identify Recognized Environmental Conditions (RECs) and Business Environmental Risks (BERs)



Phase I Findings Recognized Environmental Condition (REC)

"The presence or likely presence of any hazardous substances or petroleum products on the property under conditions that indicate an existing release, past release, or material threat of release."



Additional Phase I Findings

Vapor Encroachment Condition (VEC)

 Controlled Recognized Environmental Condition (CREC)

 Historical Recognized Environmental Condition (HREC)



Additional Phase I Findings

Business Environmental Risks (BERs)





Hiring an Environmental Consultant

- Experience and Background
- Contract, Scope of Work and Terms and Conditions
 - Geographic Reach





Phase I ESA Components

- Regulatory Review
- User Questionnaire
 - Interviews
- Current and Past Property Use
 - Title Review
- Site Visit: Looking at Subject Property and Neighboring Properties
 - Recommendations Situational



Recognized Environmental Conditions

- Gas Stations
- Auto Repair Shops/ Salvage Yards
- Refineries
- Railroad Yards
- Recycling Centers
- Brownfields Developments

- Landfills
- Junk Yards
- Petroleum Tank Farms
- Chemical Plans
- Public Works
- Military Installations





Recognized Environmental Condition

Aboveground Storage Tanks





Recognized Environmental Condition

Electrical Equipment





Recognized Environmental Condition

Dry Well



Phase II May Be Required

Assess RECs

Determine Relative Extent and

Magnitude of Releases

Identify Possible Receptors



Phase II Findings

- Soil
- Groundwater and/or
- Soil Vapor Impacts





Are Reporting Requirements Triggered?

- Requires Technical and Legal Analysis –
 Minn. Stat. §115.061
 - Underground Storage Tank Reporting
 - CERCLA Reportable Quantity –
 National Contingency Plan
 - Implications of Reporting



Superfund Liability

Responsible Parties May be Asked to

Complete Investigations as to

Extent and Magnitude of Release On-Site and Off-Site

Who Pays?
Federal or State or Private Parties

Protential for Cost Recovery



Contaminant of Concern - TCE

- Trichloroethylene (TCE)
- Solvent Used in Variety of Industrial Operations
- Removes Grease and Oil from Machinery and Parts





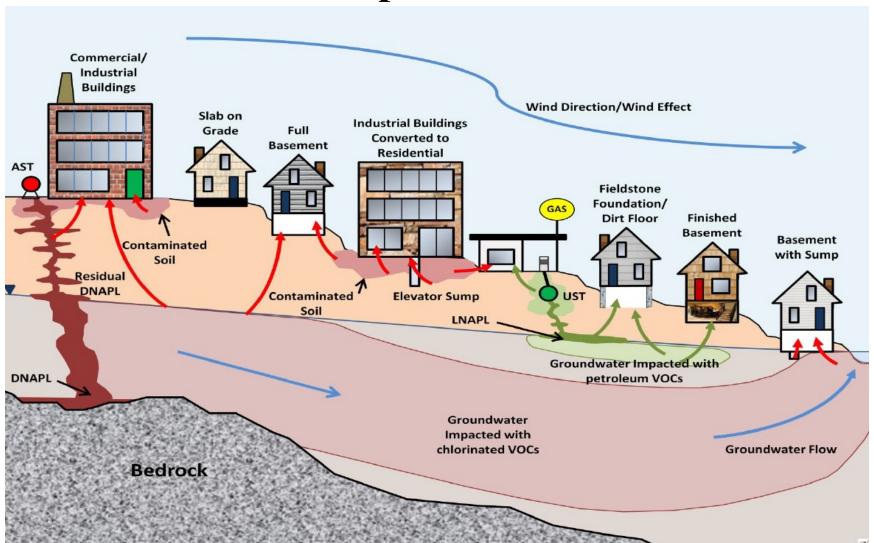
Contaminant of Concern - PCE

- Tetrachloroethylene or Percholoroethylene, (PERC or PCE)
- Used at Tens of Thousands of Dry Cleaning Locations as a Degreaser
- Releases Cause Soil, Groundwater and Soil Vapor Impacts





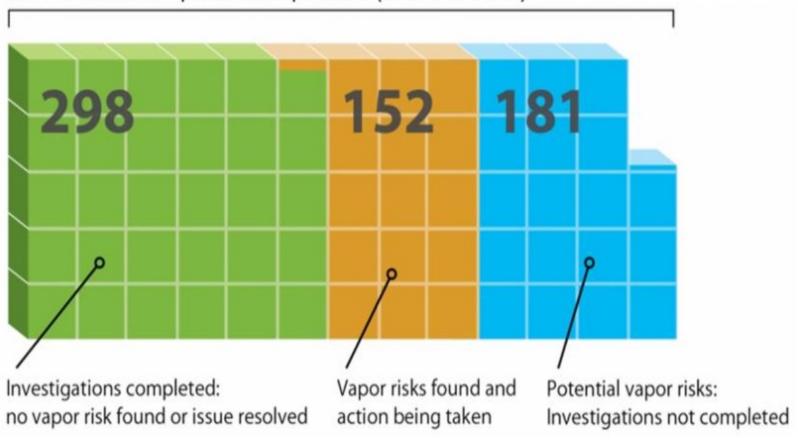
Soil Vapor Intrusion





MPCA Assessment of Existing Sites for Soil Vapor Impacts

Sites identified as potential vapor risks (as of Jan. 2017)





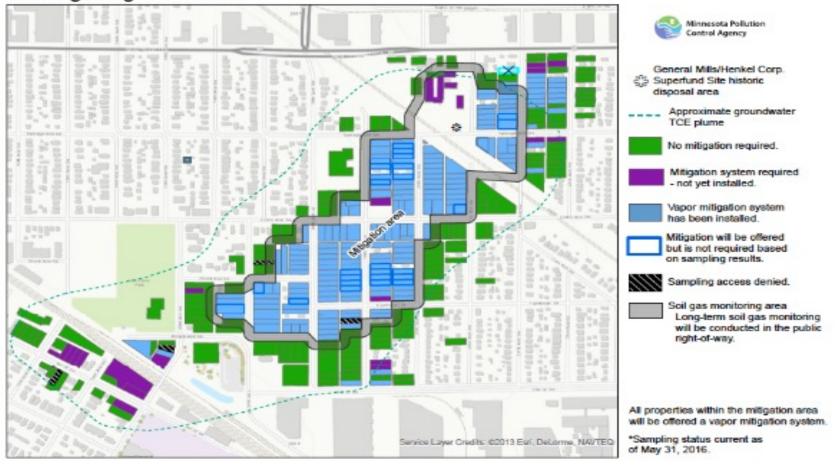
Vapor Intrusion Testing

- Sub-Slab
- Indoor Air
- MPCA Guidance
- Intrusion Screening Values (ISVs) and Expedited ISVs
 - >33X ISVs Require Mitigation
 - Testing Seasonal Paired Sampling
- >33X Expedited ISVs Requires Actions Within 30 Days



General Mills – Henkel Superfund Site Soil Vapor Intrusion

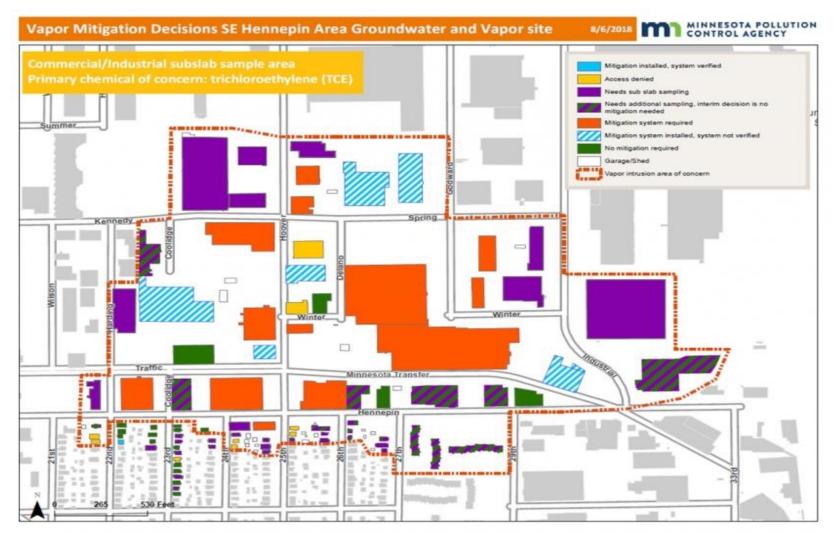
Soil Vapor: Como Neighborhood – Minneapolis Building Mitigation Status





Soil Vapor Intrusion

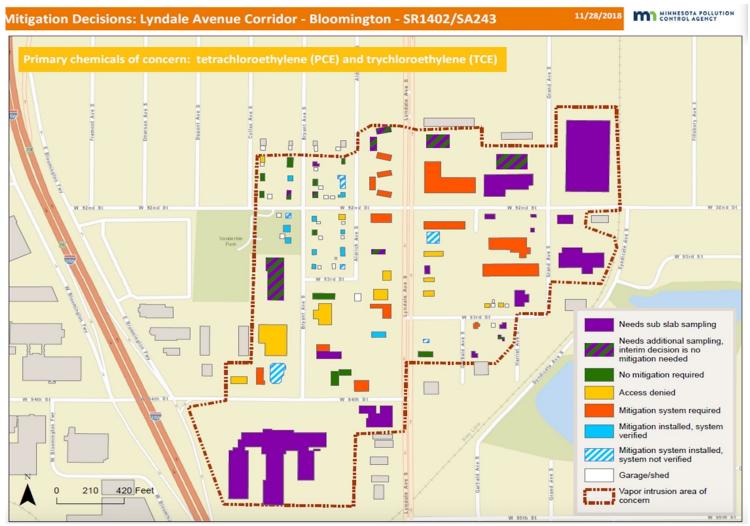
SE Hennepin Area Groundwater and Vapor Site





Soil Vapor Intrusion

Lyndale Avenue Corridor - Bloomington





- When soil vapor levels exceed industrial/residential standards, mitigation is required
 - Designed Mitigation Sub-Slab Depressurization
 - Sumps
 - Risers
 - Blowers
 - Verification Testing
 - Operation and Maintenance









- Designed Mitigation New Construction Vapor Mitigation System
 - Bedded Horizontal Runs
 - Spray Applied or Sheet Membrane
 - Risers
 - Blower
 - Verification Testing
 - Operations and Maintenance
 - Environmental Covenant









Environmental Covenants

- Uniform Environmental Covenants Act (UECA)
- MPCA Environmental Covenant Template
 - Notice to State and Local Government
 - System Remains Operational
 - Operation and Maintenance Plan



Emerging Contaminant of Concern - PFCs

- PFAS Short for Perfluoroalkyl Substances and Related Substances,
 PFAO, PFOS, also Collectively Known as PFCs
 - Used in Array of Industrial and Metal Finishing Operations



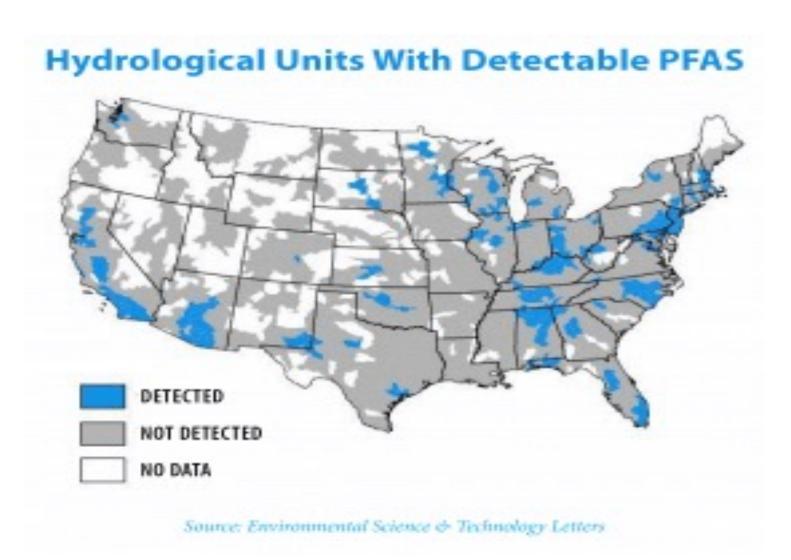


Emerging Contaminant of Concern - PFCs

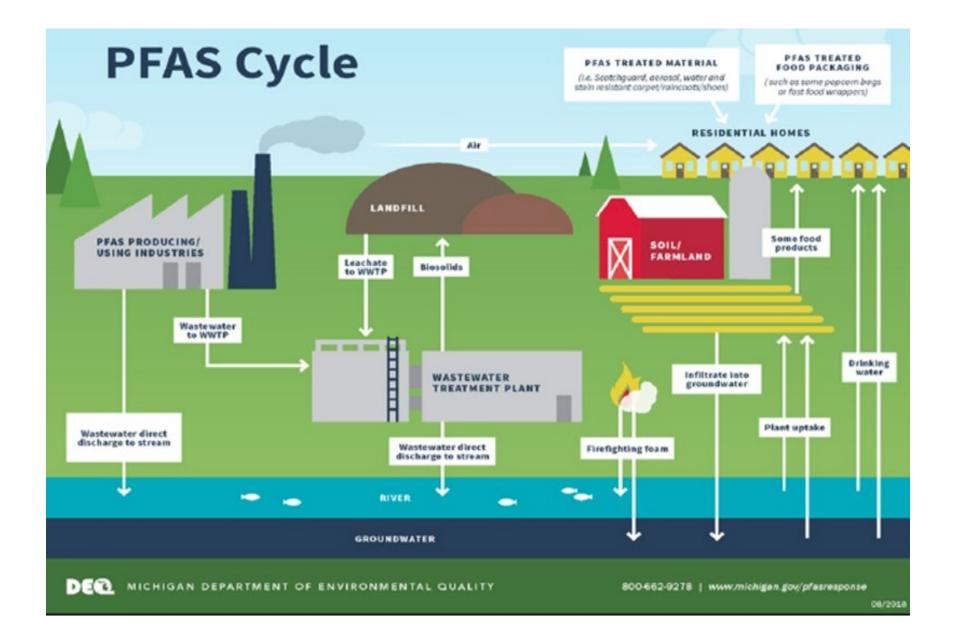
- Component of consumer goods and products, including non-stick cookware, stain repellants, firefighting foam, and food-packaging materials
 - Extremely persistent, known as the "forever chemicals"
- Major concern is with disposal, release through products and impacts to public drinking water supplies and groundwater



Contaminant of Concern - PFCs









Role of Minnesota Voluntary Programs Voluntary Investigation and Cleanup/ Brownfields Program - Non-Petroleum

- No Association Determination
 - No Further Action Letter
 - Certificate of Completion
- Off-site Source Determination
- Approval of Vapor Response Actions
 - Approval of Vapor Assessment
- Approval of Response Action Plans and Implementation



Role of Minnesota Voluntary Programs Petroleum Brownfields Program

- Tank and Non-Tank Closure
 - General Liability Letter
- Tank Removal Verification
- Approval of Development Response Action Plans and Implementation



Role of Minnesota Voluntary Cleanup Programs

Should Your Client Seek Assurances or Not?



Handling Environmental Concerns That Arise During Due Diligence

- Budget Opinion Cost to Cure
 - Post-Closing Obligations
 - Purchase Agreement
 - Lender Undertaking
- Escrow Funds to Address Ongoing Issues
 - Indemnification Trigger



Handling Environmental Concerns That Arise During Due Diligence

Warranties and Representations

- Establishes Baseline of Knowledge to Compare Against Future Findings
 - Exceptions Listed in Exhibit



Handling Environmental Concerns That Arise During Due Diligence

Insurance

- Representation and Warranty
 - Pollution Liability
- Provide Due Diligence for Review



Questions?

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