PRESENTATION Plan for Vapor Intrusion Investigation

Motors Liquidation Co. (MLC)

Moraine Facilities Site

September 30, 2010

Overview

- History and site status
- Vapor intrusion and investigation process
- Evaluation and schedule

Site History

Manufacturing by Frigidaire until 1979

- General Motors (GM) ended operations
 - Engine Plant → 2000
 - Delphi Thermal → 2003
 - Assembly Plant → 2008

Site History

 EPA Administrative Orders require environmental corrective action – 1991 and 1997

 Ohio EPA oversees closure and post-closure of hazardous waste management units

Site View



Environmental Status

 Former releases of volatile organic compounds (VOCs) and other contaminants into soil and groundwater

City of Dayton supplies drinking water source locally

What has happened at the Site?

1995

- Facility investigation underway- Harrison/Delphi Thermal
- Groundwater Interim Measures initiated Capture zone design

1997

• Facility investigation expands to cover adjacent GM Facilities (Engine and Assembly Plants)

1999

• Scope of Interim Measures for groundwater expanded – combination of in-situ technologies

2006

- 2000: Results from multi-phase site investigation and risk assessment
- 2001: Site-wide groundwater monitoring initiated
- 2004: Additional soil investigations and excavation completed
- 2006: Identified data gaps in extent of contamination in off-site groundwater

What has happened at the Site?

2008

- Off-site migration of groundwater contamination toward the southwest was delineated
- Risk assessment indicates no adverse exposure via vapor intrusion to homes at Southwest residential area
- Corrective Measures Proposal (August 2008)
- Corrective Measures Proposal Addendum (November 2008)

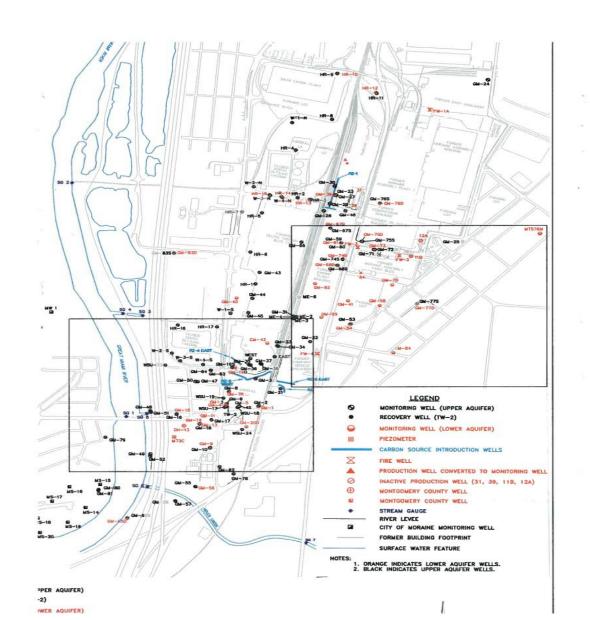
2009

- GM Corporation and certain subsidiaries filled voluntary petitions for relief under Chapter 11 of the U.S. Bankruptcy Code
- Motors Liquidation Company (MLC) currently owns these three Facilities

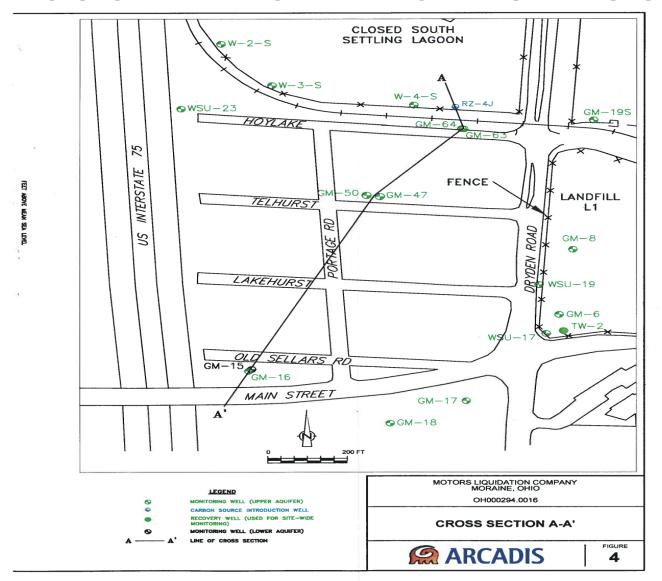
2010

- EPA guidance recommends the use of multiple lines of evidence in evaluating vapor intrusion
- MLC's Vapor Intrusion Verification Workplan

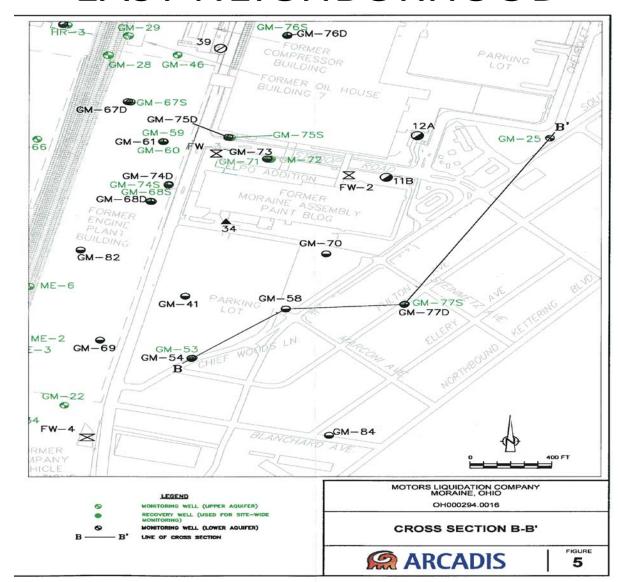
Site-Wide Groundwater Well Network



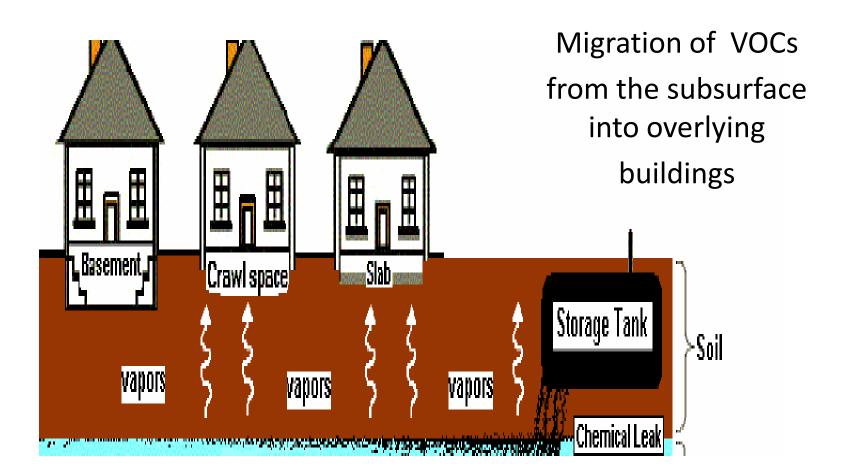
Existing Groundwater Wells SOUTHWEST NEIGHBORHOOD



Existing Groundwater Wells EAST NEIGHBORHOOD



What is Vapor Intrusion?



Vapor Intrusion Potentials MLC Moraine

- Main VOCs in groundwater off-site are PCE,
 TCE, cis-1,2-DCE and Toluene
- Existing VOC data for groundwater in Southwest and East neighborhoods, but below water table
- Groundwater levels
- Other possible sources of VOCs

Vapor Intrusion Potentials MLC Moraine

- VOCs in groundwater below water table
 - East neighborhood: irregularly collected results between 2006 to 2008 are below detection limits, except at one well where PCE was detected below drinking water standard (5 micrograms per liter)
 - Southwest neighborhood: results from 2009 above drinking water standard

Vapor Intrusion Investigation PHASE 1 – Fall 2010 and Spring 2011

- Sampling in right-of-way areas
 - 8 sample locations in Southwest neighborhood
 - One sample location near City Municipal Building
 - Water table groundwater samples
 - Soil gas sample collection at 3 depths per location

Sampling Point Locations SOUTHWEST NEIGHBORHOOD

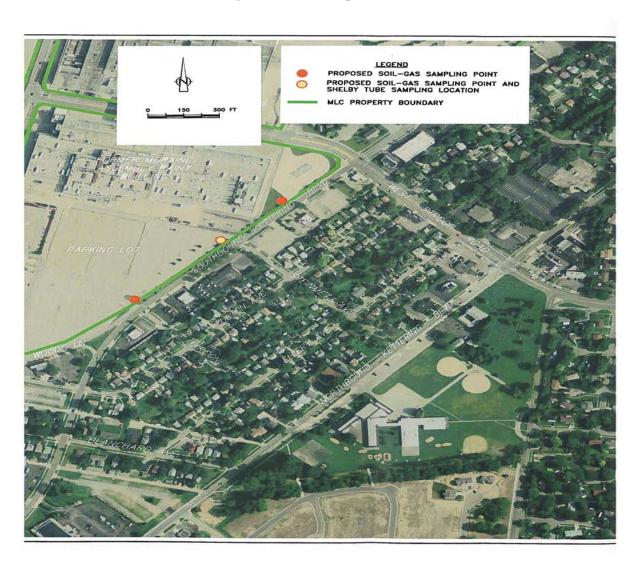




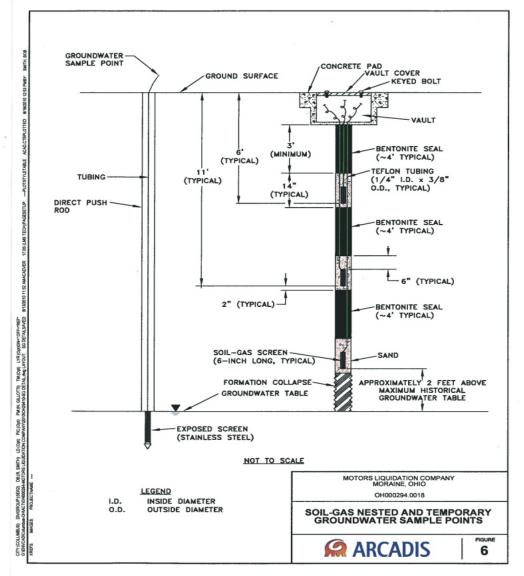
Vapor Intrusion Investigation PHASE 1 – Fall 2010 and Spring 2011

- Sampling in MLC property
 - 3 sample locations on east site boundary
 - Water table groundwater samples
 - Soil gas sample collection at 3 depths per location
 - Collection of groundwater samples from permanent wells GM-25 and GM-77S

Sampling Point Locations MLC PROPERTY



How will groundwater and soil gas samples be collected?



Vapor Intrusion Investigation

Regardless of outcome of the results, MLC will conduct soil gas and air sampling in homes for confirmation purposes in the Southwest neighborhood

Vapor Intrusion Investigation PHASE 2

- Sampling in homes
 - Need for access agreements
 - Collect soil gas (sub-slab) and air samples
 - Confirm evaluation from Phase 1
 - Timetable to be determined based on results

MLC PROPOSED SCHEDULE

- Field work preparation/contact Ohio Utility
 Protection Service (October 4 15)
- Drilling, groundwater sampling and soil gas sampling point installations (October 18 – November 5)
- Soil gas sampling (November 8 − 12)
- Data reporting for EPA evaluation (Winter 2011)
- Preparation for Spring sampling

Contact Information

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