

MODOCK ROAD SPRINGS SITE

Town of Victor, Ontario County, NY



Public Meeting on Proposed Remedial Action Plan

Jason Pelton - Project Manager

NYS Department of Environmental Conservation



Citizen Participation & Contributions

Honorable Michael Nozzolio

Honorable Eric Massa

Supervisor Jack Marren

Ms. Leslie Bamann

Town of Victor Citizen's Advisory Committee

- Mr. Michael Annechino, Chairman
- Ms. Karen Duffy, Vice Chairman
- Mr. Charles Nelson
- Mr. Donald Reynolds
- Ms. Joan Weicht
- Mr. William Sonnefeld
- Mr. Mark Syracuse

Mr. John Accorso

Mr. Paul Lytle

53 Petitions from Victor Residents

Mr. Michael Barry

Mr. Louis Shaffer

Mr. David Turner

New York State Senate

United States Congress

Town of Victor Supervisor

Former Town of Victor Supervisor

Town of Victor Councilman and CAC
Liaison

Town of Victor Environmental Advisor
and CAC

Town of Victor Residents

Town of Victor Resident

Town of Victor Resident

Town of Victor Resident



Investigation Activities: Exhaustive Effort to Define Nature & Extent of Contamination

Included

- 180 Passive Soil Gas Points;
- 48 Direct Push Borings;
- 89 Subsurface Soil Samples Collected for Laboratory Analysis;
- 11 Test Pits/Trenches Excavated;
- 73 Homes Sampled for Vapor Intrusion;
- 46 Monitoring Wells Installed;
- 91 Groundwater Samples Collected from Monitoring Wells;
- 19 Surface Water Samples Collected from Springs;
- 97 Private Water Supply Wells Sampled.



CONCLUSIONS

Investigation in Area of Highest Concentrations

- A source area does not exist in shallow soil (above the water table).
- Contaminants migrated downward to the saturated zone (below the water table).
- Contaminants in soil below the water table represent a continuing source.



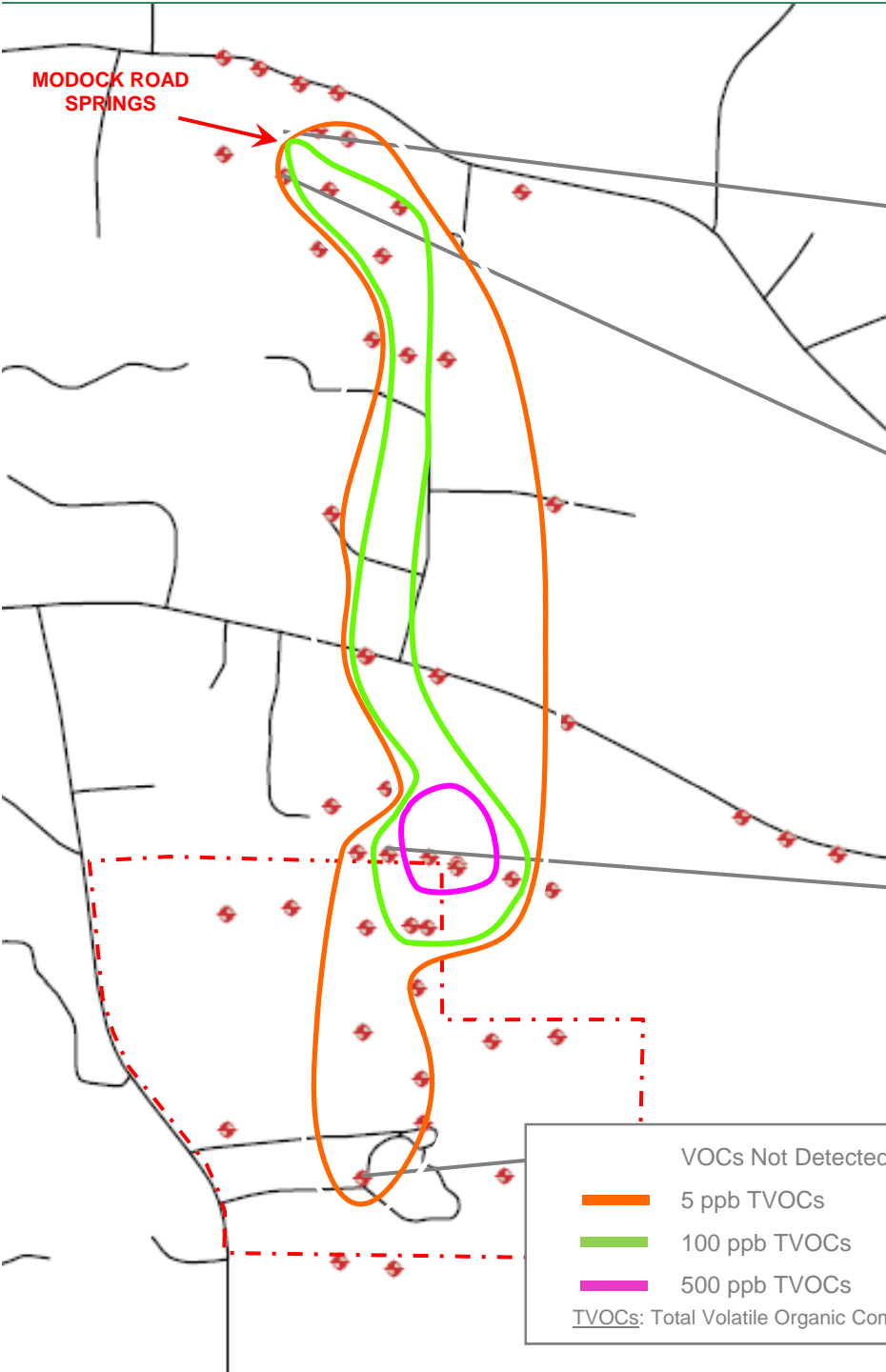
CONCLUSIONS

Groundwater Contamination

- Extends from the Syracuse property to Modock Road Springs;
- Highest concentrations in groundwater along northern margin of Syracuse property;
- Is confined to a narrow path in shallow groundwater;
- The dimensions are stable and concentrations are decreasing;
- Does not extend to the north of Modock Road; and
- Bedrock groundwater quality has not been impacted



GROUNDWATER & TRENDS



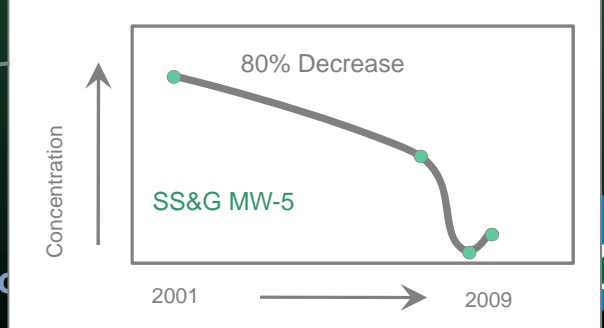
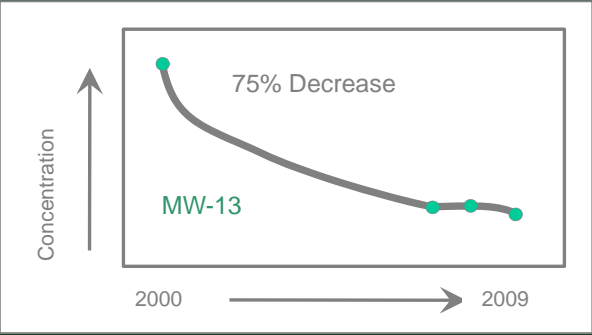
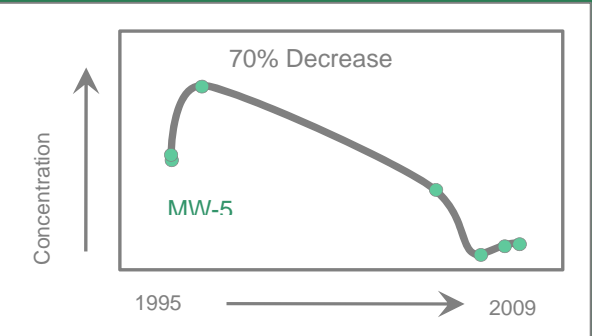
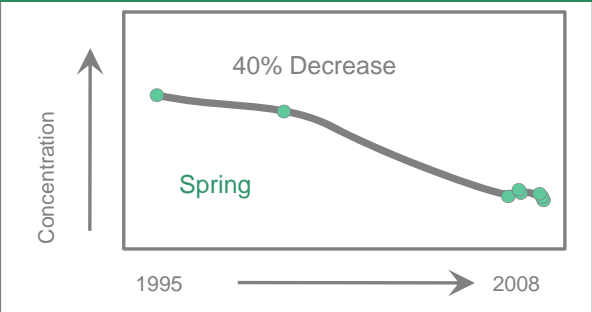
VOCs Not Detected

5 ppb TVOCs

100 ppb TVOCs

500 ppb TVOCs

TVOCs: Total Volatile Organic Compounds



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CONCLUSIONS

Surface Water at Modock Road Springs

- Contaminated groundwater discharges at eastern springs and does not extend north beyond Modock Road;
- Declining concentrations of contaminants in Modock Springs (40% over 15 years);
- NYS Standards only exceeded in surface water located on private property;
- Concentrations in the stream decrease to less than standards within 525 feet (Modock Road); and
- No contaminants in western springs.



CONCLUSIONS

Vapor Intrusion

- Vapor intrusion sampling completed at **73** homes
- No further action at **59** homes
- Follow-up monitoring at **8** homes
- Sub-slab depressurization systems were installed by NYSDEC at **6** homes
- Boundaries of vapor intrusion study area defined



PROPOSED ALTERNATIVE

Alternative 2: Plume Management Monitoring with contingency for implementing a Zero Valent Iron Injection (Alternative 3)

- Groundwater, surface water, & soil vapor sampling for VOCs
- ZVI injection contingency
- Continued maintenance of 6 mitigation systems
- Maintenance of 6 mitigation systems at monitor locations
- Continued sampling at 2 monitor locations
- Annual notification at 4 locations with pre-existing systems
- Connection of 11 homes to public water

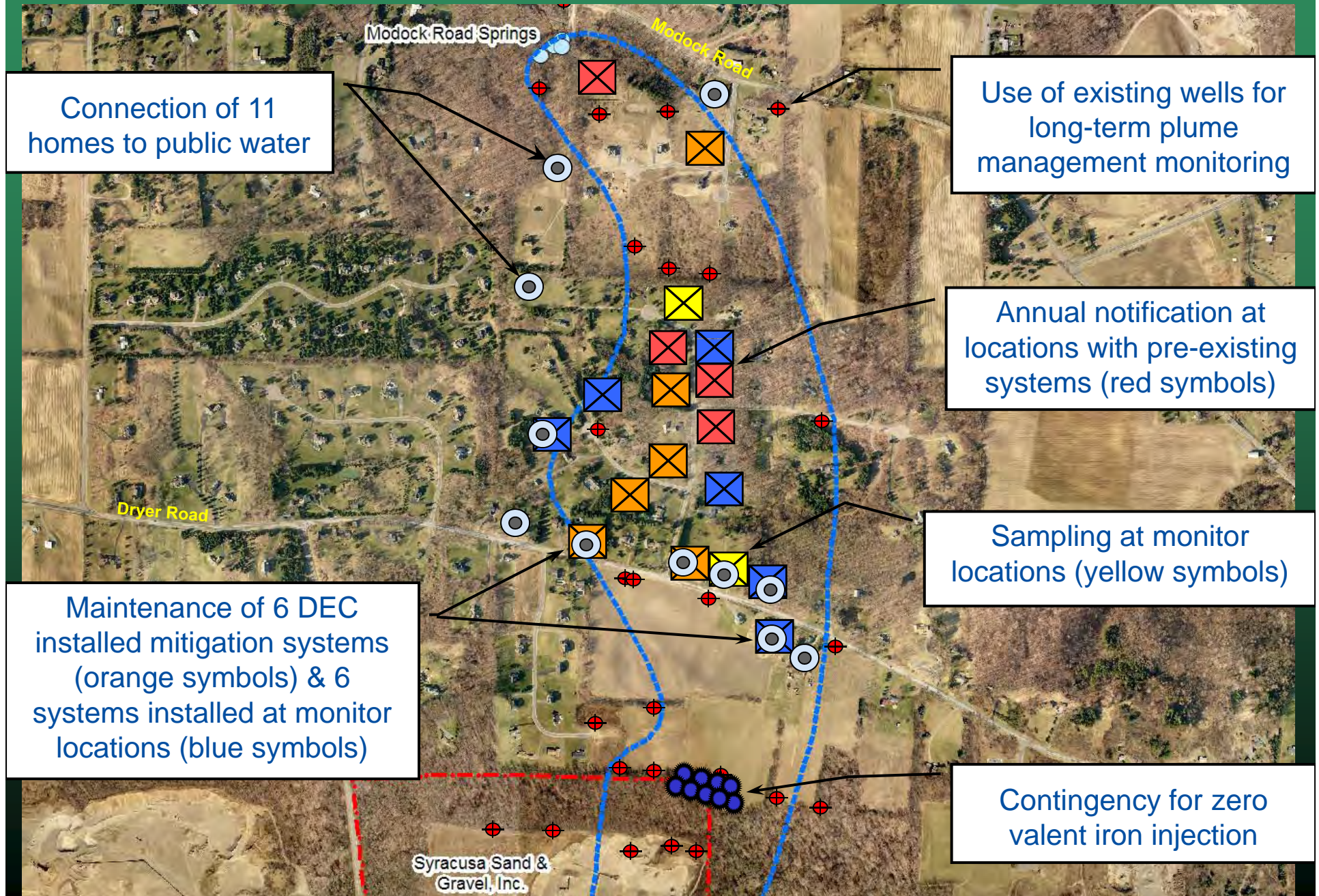
Estimated Cost:

Capital Cost: \$130,000

Present Worth: \$360,000 (estimate to cover all costs during extended operation and monitoring)



ELEMENTS OF THE PROPOSED REMEDY



Comments/Questions

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www.dec.ny.gov/chemical/37556.html

Availability Session: Tomorrow 10:00 AM – 2:00 PM
at Town Hall

