



STATE OF NEW YORK DEPARTMENT OF HEALTH

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Richard F. Daines, M.D.
Commissioner

Modock Road Springs — DLS Sand and Gravel, Inc. Site Victor (T), Ontario County

Update: Private Well and Soil Vapor Intrusion Sampling
June 4, 2007

Private Well Sampling

- ◆ Results were received and reviewed for eighteen (18) private well water samples that were collected since the last private well sampling update, issued on May 11, 2007.
 - è A low level (1.1 micrograms per liter) of trichloroethene (TCE) was detected in one (1) well water sample. This well is not used for drinking water purposes. The well was re-sampled to confirm the results, and results are pending. The NYS drinking water standard for TCE is 5 micrograms per liter.
 - è **No other volatile organic compounds associated with the site (specifically 1,1,1-trichloroethane, 1,1-dichloroethene, and trichloroethene) — were detected in any of the other water samples.**
- ◆ We have notified the eighteen (18) homeowners of their results through telephone calls and mailed letters containing their results.
- ◆ We have received private well water results for fifty-eight (58) wells sampled in 2007 (including those discussed above) and notified the homeowners.
- ◆ Since 1990, 187 water samples have been collected from 93 private wells in the area.

Pending

- ◆ Results from re-sampling of 1 private well.

Soil Vapor Intrusion Sampling

Since the last soil vapor intrusion sampling update, issued on April 13, 2007, we have received air results for an additional 30 homes and have notified residents of their results via telephone and mail. To date, we have received data for 54 of the 64 homes sampled. The figure on page 3 provides a summary of the results for the three site-related compounds in the different types of samples collected from the homes tested: first floor air, basement air, crawlspace air and sub-slab vapor.

Based on our review of the data collected for the Modock Road Springs site thus far, the State is recommending **no further action** for **34** homes and **further testing** (either resampling or monitoring) for **15** homes in the future. **5** homes have been affected by soil vapor intrusion at levels that require mitigation to reduce existing or potential exposures. No additional soil vapor intrusion sampling is currently scheduled.

Modock Road Springs — DLS Sand and Gravel, Inc. Site

Victor (T), Ontario County

Interim Report: Soil Vapor Intrusion Sampling

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New York State
Department of Health

First Floor Air

Air samples were collected from the first floor, where people typically spend most of their time and could actually be exposed.

- Site-related compounds were not detected in the first floor of most of the homes tested.
- With few exceptions, the levels detected in the first floor are generally consistent with homes not known to be near sources of environmental contamination.
- Health effects from exposure to the concentrations detected are unlikely (i.e., the risks are minimal to low).

1,1,1-Trichloroethane

Conc. (mcg/m ³)	# Homes [Total = 54]
ND	34
ND to < 15	18
15 to < 30	1
30 to 80	1

Trichloroethene

Conc. (mcg/m ³)	# Homes [Total = 54]
ND	40
ND to < 1	9
1 to < 5	3
5 to 15	2*

*One due to indoor sources.

1,1-Dichloroethene

Conc. (mcg/m ³)	# Homes [Total = 54]
ND	50
ND to < 2	3
2 to < 8	0
8 to 16	1

1,1,1-Trichloroethane

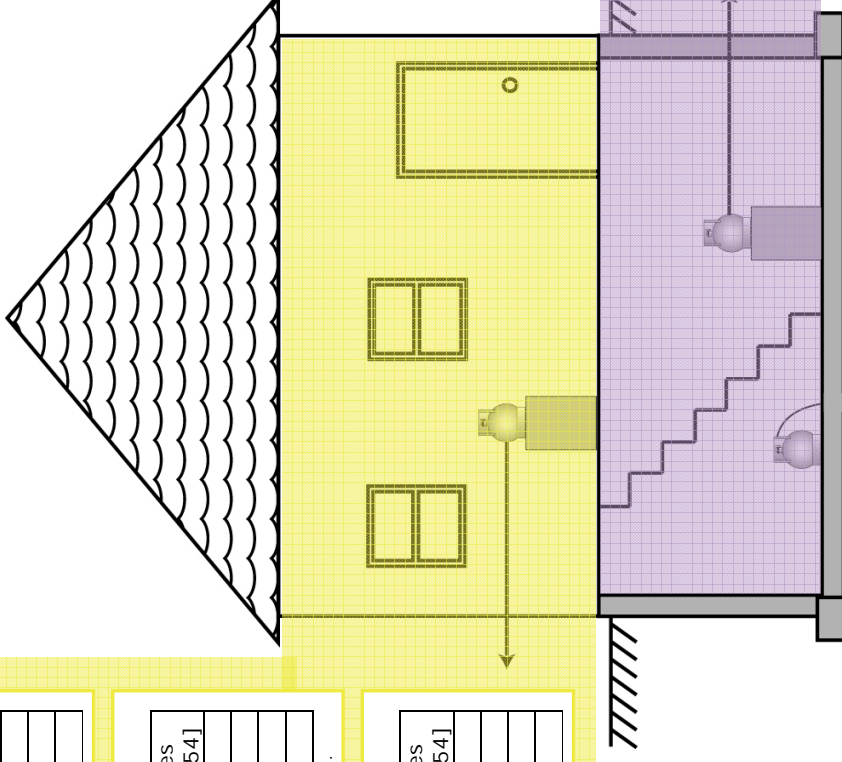
Conc. (mcg/m ³)	# Homes [Total = 53]
ND	31
ND to < 15	21
15 to < 30	0
30 to 80	1

Trichloroethene

Conc. (mcg/m ³)	# Homes [Total = 53]
ND	39
ND to < 1	11
1 to < 5	2
5 to 15	1

1,1-Dichloroethene

Conc. (mcg/m ³)	# Homes [Total = 53]
ND	49
ND to < 2	3
2 to < 8	0
8 to 16	1



Basement Air

Air samples were collected from the basement, where we would expect to see the highest indoor air concentrations if soil vapor intrusion were occurring.

- Site-related compounds were not detected in the basement of most of the homes tested.
- With few exceptions, the levels detected in the basement are generally consistent with homes not known to be near sources of environmental contamination.
- Health effects from exposure to the concentrations detected are unlikely (i.e., the risks are minimal to low).

Sub-slab Vapor and Crawlspace Air

Air samples collected from beneath the slab of the building or from the crawlspace to determine whether site-related contaminants are present beneath the building or living space.

- Beneath many of the homes, site-related contaminants were either not detected or were detected at levels that are not expected to significantly affect indoor air quality.
- At a handful of homes, site-related contaminants (primarily 1,1,1-trichloroethane) are present at levels where monitoring or mitigation actions are recommended.

Trichloroethene

Conc. (mcg/m ³)	# Homes [Total = 53]
ND	25
ND to < 5	22
5 to < 50	3
50 to < 250	0
250 and above	3

1,1,1-Trichloroethane

Conc. (mcg/m ³)	# Homes [Total = 53]
ND	18
ND to < 100	21
100 to < 1,000	13
1,000 and above	1

1,1-Dichloroethene

Conc. (mcg/m ³)	# Homes [Total = 53]
ND	38
ND to < 100	12
100 to < 1,000	2
1,000 and above	1

NOTES:

- § Conc. = concentration; mcg/m³ = micrograms per cubic meter
- § ND = not detected
- § The total "number of homes" differs between the type of sample collected due to differences in the types of housing foundation (such as basement with slab, slab-on-grade, crawlspace, or a mixture of these).
- § For this summary, the highest concentration detected in multiple samples collected from the same location within a home (duplicate samples) or multiple samples from an individual home (resamples) is presented.