

From: Honea, William <HoneaW@AyresAssociates.com>
Sent: Thursday, April 21, 2022 4:18 PM
To: Saliars, Gwen N - DNR
Cc: Patrick Martin
Subject: FW: Request Additional Vapor Sampling for 1024 E 5th St, Martins One Hour Drycleaner Results Notification BRRTS 02-59-231063
Attachments: ROI calculations.xlsx; photographs.pdf

Follow Up Flag: Follow up
Flag Status: Completed

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Gwen,

I understand that WDNR guidance recommends three rounds of sampling for screening multi-family residential buildings. However, we ask that you reconsider your request for an additional sampling point and indoor air sampling in light of the following:

- Although venting may occur around the slab's edges, sample VP-6 is located in the nearest accessible building space to the CVOC plume. If significant concentrations of vapors were present beneath the building, we would expect some elevated readings at VP-6. However, after two rounds, there have been no significant detections of CVOCs. Additionally, we have collected two rounds of vapor samples from the building's sanitary sewer cleanout, with no detections of PCE or TCE.
- Table 5b in RR-800 recommends indoor air sampling as a follow-up to sub-slab sampling only if results from sub-slab sampling attain or exceed VRSLs. No VRSLs have been attained or exceeded at this building.
- Sample points VP-5 and VP-6 are located near the north-south centerline of the building. Table 5c in RR-800 recommends 1 sample/2,000 ft² or 1 sample/residence on the lowest level. The building footprint is approximately 4,000 ft². The two existing sampling devices are within the recommended guidelines.
- The radius of influence for sub-slab sample points depends on several factors, including soil types present beneath the building, volume sampled, and the configuration of the sampling device. The attached spreadsheet shows several calculations based on reasonable site assumptions (sand and gravel soils). Under these conditions, the estimated radius of influence was between ½ and 1 foot. These estimates are consistent with those identified in section 5.4.1 of RR-800, which provides an estimated sampling radius of ½ to 2 feet. Both points are located about 4 ½ feet from the nearest exterior wall. We believe samples collected from these points represent conditions beneath the building slab, and the radius of influence did not extend to the edge or beyond the slab.
- The building's slab-on-grade construction has no crawl spaces or basement, and its foundation is not in contact with groundwater and contaminated soil.

We collected a round of groundwater samples and water levels on April 19th. The results should provide more information regarding the concentrations of CVOCs in groundwater adjacent to the building at MW-24 and PZ-23.

Thanks,
Bill

Bill Honea, PG

Geologist

Ayres Associates Inc

Office: 920.498.1200 | Direct: 920.327.7815

HoneaW@AyresAssociates.com

www.AyresAssociates.com

From: Saliars, Gwen N - DNR <gwen.saliars@wisconsin.gov>

Sent: Monday, April 18, 2022 2:07 PM

To: Honea, William <HoneaW@AyresAssociates.com>

Cc: Patrick Martin <amandpm@frontiernet.net>

Subject: Request Additional Vapor Sampling for 1024 E 5th St, Martins One Hour Drycleaner Results Notification BRRTS 02-59-231063

Good afternoon,

I discussed it with the vapor expert and DNR is requesting additional sub-slab vapor sampling, along with indoor air sampling, at 1024 E 5th St. If possible, new sub-slab vapor pin(s) should be placed in the center of the building because vapors tend to accumulate in the center of the building farther away from the edge of slabs where venting is more common. Indoor air samples should be collected concurrently with sub-slab samples, ideally long duration (such as 24 hr) passive samples. After this round of vapor sampling it can be re-evaluated if any further sampling is needed. Reach out with any questions. Thank you,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Gwen Saliars

Phone: (920) 510-4343

gwen.saliars@wisconsin.gov



From: Saliars, Gwen N - DNR

Sent: Friday, April 15, 2022 10:38 AM

To: Honea, William <HoneaW@AyresAssociates.com>

Cc: Patrick Martin <amandpm@frontiernet.net>

Subject: RE: Martins One Hour Drycleaner Results Notification BRRTS 02-59-231063

Sheet 1



VP-6 is approximately 4 ½ from the exterior wall to the right.



VP-5 is approximately 4 ½ feet from the exterior wall to the left.



Sampling train leak test



Installed vapor pin.

| | Min | Max | ROI min | ROI max | units |
|----------------------------------|------|------|---------|---------|-------|
| Soil porosity (SP) | 0.23 | 0.43 | 23.3 | 17.1 | cm |
| Soil porosity (GW) | 0.21 | 0.32 | 24.4 | 19.8 | cm |
| Soil porosity (GM) | 0.15 | 0.22 | 28.9 | 23.9 | cm |
| Soil porosity (SP- fine sand) | 0.29 | 0.46 | 20.8 | 16.5 | cm |
| Soil porosity (SP - coarse sand) | 0.26 | 0.43 | 21.9 | 17.1 | cm |
| Soil porosity (SM) | 0.25 | 0.49 | 22.4 | 16.0 | cm |
| Soil porosity (CL) | 0.29 | 0.41 | 20.8 | 17.5 | cm |

| | Units |
|--------------------------|----------|
| Sample volume | 6000 mL |
| Soil gas well radius | 0.318 cm |
| Soil gas well height | 25.4 cm |
| Screened interval height | 15.24 cm |
| Soil gas well volume | 8.04 mL |

| | cm | in | feet |
|---------|------|-------|---------|
| Min ROI | 16.0 | 6.29 | 0.52454 |
| Max ROI | 28.9 | 11.38 | 0.94805 |