

From: Chris Rogers <Chris.Rogers@omni.com>
Sent: Wednesday, April 22, 2020 3:39 PM
To: Trzinski, Ryan
Cc: Scott Van Calster; Beggs, Tauren R - DNR
Subject: RE: City of Algoma, WI - Monitoring wells on Navarino St

Hi Ryan and Scott,

Thanks for taking the time today to walk me through what happened with the wells being damaged. As discussed, those wells are specifically there to monitor volatile organic compounds (VOCs) in the groundwater. The biggest concern is that using the PVC cement to attach a new section of pipe could have inadvertently caused contamination within the well itself. Unfortunately the compounds in the PVC cement are essentially a lot of the same compounds we are looking for in those wells.

With that being stated, we have come up with a rough idea of costs for two different scenarios. Please keep in mind though, if the first scenario doesn't pan out, we will need to go with the second scenario.

1. We can initially go up there and develop the two wells and take a sample. If the wells are contaminated from the PVC cement we should be able to pick that up pretty easily. If they are contaminated, those wells will need to be abandoned and new wells drilled.
 - a. Two mobilizations plus time on site for the activities
 - b. Two VOC samples
 - c. Survey new elevations for wells
 - d. New flush mount
 - e. 4 drums GW disposal
 - f. Documentation to the DNR

This option would be roughly \$3,500.

2. Scenerio 2 goes over proper abandonment of the two wells in place, drilling two new wells, well development, sampling, and reporting results to the DNR.
 - a. Three mobilizations plus time on site for the activities
 - b. Installation of 2 new wells (2" PVC 25' deep each)
 - c. Two VOC samples
 - d. Survey new wells
 - e. New flush mounts
 - f. 4 drums GW disposal
 - g. 4 Drums soil disposal
 - h. Abandonment of old wells
 - i. Documentation to the DNR

This option would be roughly \$11,200. We could also install the wells after the road is repaved (the old wells would need to be abandoned prior to repaving though).

Again, it is important to note, if we go with the first scenario and the lab results indicate that the PVC cement caused abnormal results when sampling, then we will automatically have to move to the second scenario (which then the cost would be the sum of Scenario 1 & 2).

Please feel free to give me a call if you have any questions. For your reference I have included Tauren Beggs with the DNR in this email chain as he is the DNR Project Manager for the laundromat groundwater investigation.

Let us know how you would like us to proceed after you have had a chance to discuss this.

Very Respectfully,
Chris

Christopher J. Rogers, P.G

Project Manager / Hydrogeologist

Licensed in WI

Direct: 920-830-6331

Cell: 920-203-8374

OMNNI Associates

a **Westwood** company

One Systems Drive, Appleton, WI 54914

OMNNI.com | westwoodps.com

From: Scott Van Calster <svancalster@releeinc.com>

Sent: Wednesday, April 22, 2020 12:59 PM

To: Chris Rogers <Chris.Rogers@omnni.com>

Subject: RE: City of Algoma, WI - Monitoring wells on Navarino St

Hi Chris,

I was given you name as a contact regarding two monitoring wells on/in Navarino Street in Algoma, WI. I have been told that the laundromat in Algoma owns the wells. Peters Concrete replaced underground utilities on Navarino St over the past two weeks. Peters is currently placing base aggregate with asphalt paving potentially starting May 6. Both wells were disturbed but not destroyed during excavation for watermain and storm sewer installations. Disturbed meaning that the top 1-2 feet of the PVC pipe was broken off. Peters' utility crew made repairs to the PVC pipe to extend above grade during road work. One casting/box was lost and the 1/4" tube pulled out of the same pipe (1/4" tube was saved) during initial excavation. We are looking for guidance as to how these wells need to be repaired to be operational once construction is complete. Feel free to call me if you have any questions. 920-883-9094 The wells are on Navarino St between First and Seconds Streets.

Thanks,
Scott Van Calster | Engineering Technician

 **REL Robert E. Lee**
& Associates, Inc.
Engineering | Surveying | Environmental | Ecological
1250 Centennial Centre Boulevard, Hobart WI 54155
O: 920-662-9641 | D: 920-544-4482 | M: 920-883-9094
svancalster@releeinc.com | www.releeinc.com

This email is subject to OMNNI Associates, Inc. Electronic File Disclaimer. For full disclaimer see http://www.omnni.org/legal/OMNNI_Email_Disclaimer.pdf