

## SCS ENGINEERS

### **Additional Oakton Street and Dodge Avenue Pipe Investigation Work**

#### **Background**

Previous investigations by the City's consultants in 2015 and 2016 have shown the occurrence of waste oils in soils and bedrock formations around James Park. The waste oils have degraded into methane gas that has been found at depths of 50 to 60 feet below ground surface at the perimeter of James Park in the general vicinity where previous investigations show the occurrence of infrastructure associated with the Manufactured Gas Plant distribution system. These investigations also show these waste oils have coated the outside and inside of water lines resulting in the occurrence of certain chemicals in drinking water samples recently tested. Details of the previous investigations are contained in Reports prepared by the City's consultant. The reports are posted on the City's web site at:

<https://www.cityofevanston.org/government/departments/parks-recreation-community-services/lakefront-and-beaches/environmental-lawsuit>.

#### **Additional Investigation Work**

The objective of the additional investigation work is to provide necessary data to form an opinion regarding the association between the presence of the waste oils and the occurrence of methane gas at depth in the geology and the presence of chemicals associated with the waste oils in the City drinking water. A detailed work plan outlining the additional investigation work is provided on the City's website at

<https://www.cityofevanston.org/government/departments/parks-recreation-community-services/lakefront-and-beaches/environmental-lawsuit>.

Below is a brief summary of the Tasks for the planned work.

- Expose the gas piping along Oakton Street and Dodge Avenue (see figure on the back page of this handout for the approximate locations of the first two locations).
- Monitor the pipe for the presence of pressure, gases at levels of concern, and liquids. If these conditions are not present, the piping will be cut open to allow the interior of the piping to be inspected using a video camera.
- Collect soil, gas and liquid samples in and around the pipe.
- From the video inspection, choose two additional pipe locations that may be sources of leakage. Expose the pipes at these locations (locations to be determined).
- Collect soil and liquid samples in and around the pipe. Perform physical and chemical testing of the samples collected.
- Install monitoring wells for gas and liquid monitoring.
- SCS Engineers will prepare a summary report with the findings of the additional investigation.


Traffic patterns along Dodge Avenue and Oakton Street will be interrupted during the additional investigation work. In addition to SCS Engineers and contractor staff, City safety crews will be present during the additional work.



## Schedule

The present schedule of the work is shown in the figure below. Work is scheduled to begin on April 27, 2017. The additional investigation work is expected to take 12 weeks. Field work is expected to take approximately 8 weeks. The schedule is subject to change depending on weather conditions and with the intermediate finding of the work.

Task	Prior to Mobilization	Week											
		1	2	3	4	5	6	7	8	9	10	11	12
1. Develop Health and Safety Plan													
2. Excavate at Locations 1 and 2													
3. Log Soils and Collect Samples													
4. Tap into Pipes													
5. Collect Field Measurements of Pipe Contents													
6. Collect Air and Liquid Samples													
7. Cut Opening in Pipe													
8. Collect Solids and Liquid Samples													
9. Videotape Inside of Pipe													
10. Seal Pipes and Backfill Excavations													
10a. Laboratory Analysis													
11. Excavate Locations 3 and 4													
12. Log Soils and Collect Samples													
13. Cut Opening in Pipe													
14. Collect Solids and Liquid Samples													
15. Seal Pipes and Backfill Excavations													
15a. Laboratory Analysis													
16. Soil Borings													
17. Log Borings and Obtain Soil Samples													
17a. Laboratory Analysis													
18. Install and Develop Wells													
19. Data Analysis and Report													

 Denotes field work tasks requiring interrupted traffic patterns along Dodge Avenue and Oakton Street.

## Who to Contact With Questions

If you have questions, please contact Betsy Powers with SCS Engineers at 608-216-7347. Information on the lawsuit can be found on the City's website at <https://www.cityofevanston.org/government/departments/parks-recreation-community-services/lakefront-and-beaches/environmental-lawsuit>.

