

# MJW Consulting

P.O. Box 897  
Mays Landing, NJ 08330  
609-625-8109 FAX: 609-625-9051

October 22, 2007

George R. Smith  
16 Edgewood Drive  
Somers Point, NJ 08244

Subject: **Underground Storage Tank Subsurface Investigation Report**  
275 - 550 Gallon Previously Closed-In-Place #2 Heating Oil Tank  
Site: 16 Edgewood Drive, Somers Point, NJ

Dear Mr. Smith,

On Saturday, October 20, 2007 a soil boring investigation of 16 Edgewood Drive in Somers Point was conducted by MJW Consulting in anticipation of real estate transfer. The intent of this investigation was to determine if soils beneath and surrounding a 275 to 550 gallon underground storage tank were contaminated by fuel oil that had leaked or spilled from the tank system during the tanks useful life. Our investigation demonstrates that the underground fuel oil storage tank at this site has insignificant levels of petroleum hydrocarbon in soils directly beside the tank. Following is a discussion of the method used to reach this conclusion.

The tank at 16 Edgewood Drive was previously closed-in-place by Mr. Smith. All appropriate inspections were requested as required by the municipality. Theses services remove the future potential for release. Together with this subsurface evaluation, all environmental liability has been eliminated.

Soil borings were obtained from each end of six foot long underground storage tank as shown on the attached drawing. The tank orientation was determined with the use of a White Model TM808 Series 2 metal detector. The tank was not stick measured because the top of the UST was removed when the tank was closed-in-place by the homeowner. We drove a probe into the center of the UST and determined that the base of the tank was between 4.5 and five feet below grade. From these measurements we determined that the tank is between 275 and 550 gallons in capacity. An oval shaped 275 gallon UST lying upright in the ground would be 44 inches deep and 26 inches wide. A cylindrical tank four feet in diameter and six feet long would be 550 gallons in capacity. The tank at 16 Edgewood Drive is therefore in this tank size range.

Groundwater was encountered at 4.5 feet below grade. Soil sampling was conducted between four and six feet below grade level where the soils were wet. Soils from this depth were then placed in zip lock plastic bags and allowed to volatize for a period of 20 minutes. A 10.0eV photo ionization detector (PID meter) was then used to analyze the head space gases developed

in the plastic bags. A reading was also obtained from each of the open bore holes. High readings in the open bore holes would indicate tank overfills had occurred. Leakage that had not yet traveled down to the bagged sample depth. This typically occurs near the fill opening of the tank. Significant levels were not found in either the bags or the open bore holes. There was no smell or staining throughout the two soil columns. The results of field screening with the PID meter are presented below.

<b>On-Site Field Screening Readings for 16 Edgewood Drive, Somers Point, NJ</b>			
Boring ID	Depth of Bagged Samples	PID Reading Bagged Sample	PID Reading Hole
B1 - Near House	4' to 4.5'	0	0
B2 - In Tank	4.5' to 5'	0	0
B3 - Away from House	5' to 6'	0	0

Background PID reading for the site was 0 units

The maximum PID reading of zero units was obtained at all sampling points and all sampling depths. A maximum site concentration of zero units could not produce a significant petroleum hydrocarbon content, if the soils at this point were analyzed in a laboratory. We therefore did not submit a soil sample for laboratory analysis to determine the precise petroleum hydrocarbon concentration more accurately. The PID readings in conjunction with no smell and no soil staining allow us to conclude a clean site. This soil analysis includes one soil sample (B2) from the fill material within the base of the UST. This material was also proven clean, which substantiates the proper closing of the UST, performed previously.

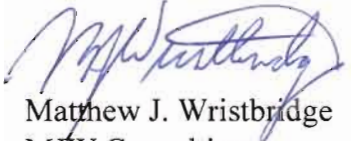
MJW normally concludes a clean site, without laboratory analysis for a specific total petroleum hydrocarbon level, if PID readings do not exceed 5.0 units. If field readings reach 5.0 units or above, MJW recommends that the soils be analyzed in a laboratory to verify that total petroleum hydrocarbon is (or is not) in excess of 1,000 ppm (the NJDEP definition of pollution). These results demonstrate that volatiles are not present in a quantity significant enough to warrant laboratory analysis.

A soil sample was obtained for laboratory analysis in the event other parties to the real estate transaction require this information. The soil sample has been stored at MJW Consulting and will expire if not analyzed within 14 days of the sample date (10-20-07).

In summary, our investigation demonstrates that the use of underground heating oil storage at this property has resulted in insignificant petroleum hydrocarbon levels surrounding the UST.

Should you have further questions please do not hesitate to call.

Sincerely,



Matthew J. Wristbridge  
MJW Consulting

w/attachments

cc: Rosemary Taylor; Southern Realty; VIA EMAIL: [realtorrosemary@comcast.net](mailto:realtorrosemary@comcast.net)



STATE OF NEW JERSEY  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



***Certifies That***

MJW CONSULTING  
PO BOX 897  
Mays Landing, NJ 08330

*Having duly met the requirements of the*

**Underground Storage Tank Certification Program  
N.J.S.A. 58:10A-24.1-8**

*Is hereby approved to perform the following services:*

CLOSURE
SUBSURFACE EVALUATION



**07/31/2010  
EXPIRATION DATE**

**US01282  
CERTIFICATION NUMBER**

**TO BE CONSPICUOUSLY DISPLAYED AT THE FACILITY**