



November 16, 2011

Mr. Bob Turner  
72 Windsor Road  
Asheville, North Carolina 28804

**Reference:** Report of UST Closure  
72 Windsor Road  
Asheville, North Carolina 28804  
S&ME Project No. 1411-11-062

Dear Mr. Turner:

S&ME, Inc. provided services related to the removal of two (2) underground storage tanks (USTs) at the above-referenced property. The services were completed in general accordance with S&ME Proposal ENV-117-11 dated October 17, 2011. This letter has been prepared to document the completion of our services.

### **BACKGROUND INFORMATION**

The subject property is located at the northeast quadrant of the intersection of Kingwood Place and Windsor Road in Asheville, North Carolina and is addressed as 72 Windsor Road. The location of the subject property is depicted on the Site Location Map presented as Figure 1.

Two (2) 1,000-gallon USTs formerly used to store heating oil were present on the property. The subject USTs were not considered regulated USTs by the North Carolina Department of Environment and Natural Resources (NCDENR). The USTs were located at the entrance of the home addition on the north side of the property. The approximate location of the USTs is depicted on a 2010 aerial photograph presented as Figure 2. According to the current property owner, Mr. Bob Turner, the USTs were at least 45 years old and were not in use as the house currently uses natural gas as a source of heat.

The UST original to the home was located beneath the sidewalk leading to the back entrance to the house and, for purposes of this report, is designated as UST #2. According to Mr. Turner, UST #2 was taken out of service when he noticed water collecting in the fuel filter at the boiler. The second UST, designated as UST #1, was installed approximately 10 feet north of the original UST. The approximate locations of the USTs are depicted on Figure 2.

### **FIELD ACTIVITIES**

Zebra Environmental & Industrial Services (Zebra) was contracted by Mr. Turner to remove the USTs. On October 27, 2011, Mr. David Loftis, P.E. with S&ME was present on-site to observe and document the removal of the tanks. Mr. Turner was also present. Selected photos taken by S&ME during removal of the USTs on October 27, 2011 are attached.

The northern most UST (UST #1), located near the northeast corner of the house, is the newer of the two tanks, and was removed first. UST #1 was 48 inches in diameter and 127 inches long, which corresponds to a volume of approximately 1,000 gallons. UST #1 appeared to be in good condition and no obvious holes from corrosion were observed. During removal of UST #1 some damage was caused on the end of the tank by the backhoe and is visible in the attached Photograph #1. No liquids were observed in UST #1. Three soil samples from the bottom of the excavation (i.e. beneath the former tank) were retrieved with the backhoe for closer examination by Mr. Loftis. No stained soil or petroleum odors were observed in the soil samples.

Following the removal of UST #1, the sidewalk was removed and the soil covering UST #2 was excavated. UST #2 was 45 inches in diameter and 12 feet long, which corresponds to a volume of approximately 1,000 gallons. UST #2 was crushed during removal by the backhoe and the north end of the UST subsequently collapsed (see Photograph #5). Excluding the damage caused by the backhoe, the steel associated with UST #2 appeared to be in good condition and no obvious holes from corrosion were observed. No liquids were observed in UST #2. Three samples were collected from the bottom of the excavation using the backhoe. No stained soil or petroleum odors were observed in the soil samples.

Once the tanks were transported to Zebra's facility, approximately one (1) 55-gallon drum of residual semi-solid, petroleum material (termed as sludge) was recovered from the USTs. The manifests associated with the disposal of the USTs and drum of sludge is attached.

## **CONCLUSIONS**

S&ME was present during removal of two (2) heating oil USTs at the subject property. The absence of stained soils, soil exhibiting a petroleum odor, and other visual evidence, suggests that a release of heating oil did not occur from the removed USTs.

## **SOLE USE STATEMENT**


All materials and information used for this project were obtained by S&ME. This report is provided for the sole use of Mr. Bob Turner. Use of this report by any parties other than Mr. Bob Turner will be at such party's sole risk. S&ME disclaims liability for any use of or reliance on this report by third parties.

## CLOSURE

S&ME appreciates the opportunity to assist you with this project. If you have any questions regarding this data, please call at your convenience.

Sincerely,

S&ME, Inc.

  
David R. Loftis, P.E.  
Project Engineer





Scott A. Spinner, P.G.  
Project Geologist

DRL/SAS/drl

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Attachment: Figure 1 – Site Location Map  
Figure 2 – UST Location Map  
Site Photographs  
Disposal Manifests