



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

13901 Crown Court, Woodbridge, Virginia 22193

(703) 583-3800 Fax (703) 583-3821

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

June 18, 2015

Mr. Eric and Ms. Ae Y Norby
7704 Leeds Manor Court
Fairfax Station, Virginia 22039

Griffith Energy Services, Inc.
Attn: Mr. Joh Hall, Claims Mgr
2510 Schuster Drive
Cheverly, Maryland 20781

**RE: PC#2014-3135; CASE CLOSED; Norby, Eric and Ae Y Property
7816 Wolf Run Shoals Road, Fairfax Station, Fairfax County 22039**

Dear Mr. and Ms. Norby and Mr. Hall:

Following a review of the referenced file and based upon the information you have submitted regarding current site conditions, the Department of Environmental Quality (DEQ) has determined that petroleum contamination levels at this site do not represent an identified risk to human health and the environment. Therefore, this petroleum contamination case is closed and further corrective action related to this release is not required.

Please be advised, however, that should further environmental problems occur, which the DEQ determines are related to this release, the DEQ reserves the right pursuant to Virginia Law and Regulations to require additional investigation and/or corrective action.

Although no further corrective action is required related to this release, the following items may need to be addressed:

- Any groundwater monitoring wells installed as a result of this release must be properly closed in accordance with Section 5.8 and Appendix C of the DEQ Storage Tank Program Technical Manual.
- Any removed, closed-in-place, existing or new regulated underground storage tank (UST) must be registered with the DEQ. A UST Notification form (Form 7530-2) must be completed and sent to the DEQ at the above address. Completion of this form is not required if your tank(s) is currently registered and the registration is up-to-date. Certain types of tanks, such as tanks which contain heating oil that is used to heat the premises

PC#2014-3135

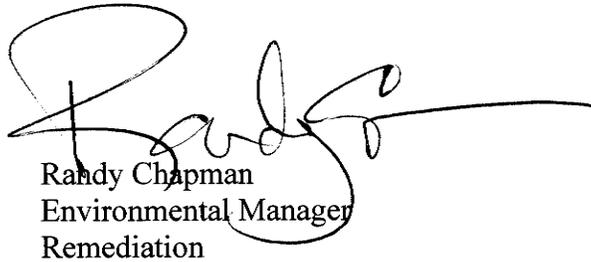
where the tank is located and tanks with a capacity of 1100 gallons or less which contain motor fuel for noncommercial purposes, are not required to be registered.

- Any aboveground storage tank (AST) with a capacity greater than 660 gallons that contains petroleum may need to be registered with the DEQ. For more information, please contact the Petroleum Storage Tank Inspection Program at 703-583-3820 or by accessing the Virginia DEQ Web site @ www.deq.virginia.gov.

If you are eligible for and plan to seek reimbursement from the Virginia Petroleum Storage Tank Fund, you have **two years** from the date of this letter to apply for reimbursement. This includes reimbursement for costs to properly abandon monitoring wells.

If you have any questions or need additional information, please feel free to contact me at (703) 583-3816.

Sincerely,



Randy Chapman
Environmental Manager
Remediation

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cc: File

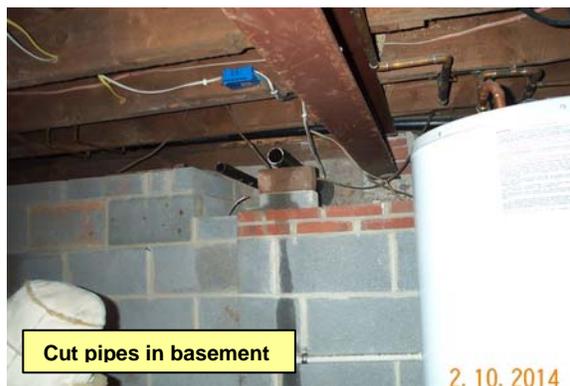
DEPARTMENT OF ENVIRONMENTAL QUALITY
Northern Virginia Regional Office
Memorandum

To: **PC#14-3135**; Norby Property, 7816 Wolf Run Shoals, Fairfax Station, VA
From: Randy Chapman, Environmental Manager
Remediation Division
Date: June 12, 2015
Re: Closure recommendation

On February 7, 2014, a release of petroleum was reported to this office by the Virginia Emergency Operations Center (EOC). The report indicated that on February 6, 2014, Griffith Energy Services delivered approximately 150 gallons of heating oil to a basement AST at the referenced property. Although the outside remote fill was still in place, the tank had reportedly been removed in the summer of 2013. The report indicated that most of the heating oil had apparently seeped into the cracks along the wall and in the basement slab. An environmental contractor was sent to the house upon discovery. The initial work included installation of a blower, drilling four cores through the basement slab, and limited fuel recovery. On February 10, 2014, personnel from this office, the Fairfax County Fire Marshalls office, and Griffith Energy Services, met the property owners on-site. The house, a rental property, is located on a large parcel of land in Fairfax Station (near Clifton) and is provided water from an on-site well. Based on the information provided by all parties, both Griffith Energy Services and the property owner (Eric Norby) were identified as the Responsible Persons for the cleanup. Additionally, the release was found to be ineligible for cost recovery from the Fund due to negligence. On March 31, 2014, this office requested the submission of a Category 3 Site Characterization Report (SCR).



Due to discussions and negotiations between the owner and Griffith Energy Services, site cleanup did not start until late 2014. The SCR (titled Site Characterization, Abatement, and Restoration Report) was received by this office on May 14, 2015. The report indicated that in June, 2014, PID readings were obtained from the existing boreholes. The presence of petroleum vapors beneath the slab was documented. In August 2014, four soil borings were installed along the perimeter of the house. The results were below detection limit for petroleum. A water sample was obtained from the on-site water supply well in August 2014. BTEX was non-detect. However, 199 ppb TPH-DRO was present. In December 2014, most of the concrete slab was removed and approximately 28.72 tons of



impacted soil was excavated. After the excavation was completed, fourteen soil samples were obtained (most between 1.5 and 2.5 feet below grade). Low level BTEX was detected in some samples. However, TPH-DRO was detected in 10 of the 14 samples. The highest result was 36,050 ppm. In January 2015, additional soil was removed in the areas exhibiting the highest levels of contamination (approximately 20.13 tons). Nine additional soil samples were obtained after the second excavation. The highest remaining TPH was 241 ppm. After completion of the sampling, a solution of AgroRemed (a bioremediation product) was sprayed onto the exposed soil. A sub-slab passive vent system (PVC piping) was installed over the gravel backfill in the excavation. Additional backfill was added and then the basement slab repoured. The report indicated that on April 15, 2015, the report indicated that an indoor air sample was obtained via a summa canister. Apart from some low level xylenes, petroleum hydrocarbons were not detected. The report suggests that the xylenes were from the concrete sealer applied to the new basement floor (a common solvent found in sealers).



In April 2015, the on-site well was re-sampled. The results were below detection limits for BTEX and TPH.

The property is located in a sparsely developed wooded area of Fairfax Station. The properties are served by private well and septic.

The property owner has not reported additional petroleum odors in the residence. Additionally, the property owner has notified this office that the “Condemnation Order” placed on the house by the Fairfax County Fire Marshalls Office in February 2014 has been removed.



As noted, the supply well appears to be free from impact. There also appears to no reports of petroleum on adjacent properties. The closest surface water is over 1,000 feet south of the property. No impacts of petroleum have been observed.

No new impacts to receptors have been reported and after completion of the cleanup work, the risk to human health and the environment appears to be low. Accordingly, additional assessment would not appear to be warranted and closure is recommended.