



State of Vermont

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June 5, 2003

ROSCOE FISHER, MAINTENANCE SUPERVISOR
BARRE CITY SUPERVISORY UNION
120 AYERS ST.
BARRE, VERMONT 05641

RE: Site Management Activity Completed, Spaulding High School, SMS Site #2002-3009
Barre, Vermont

Dear Mr. Fisher:

The Sites Management Section (SMS) has reviewed the May 6, 2003 report titled, "*Site Investigation Report for the Spaulding High School, 155 Ayers Street, Barre, Vermont*" prepared by KD Associates, Inc. (KDAI) for work conducted at the school. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- During the June 18, 2002 removal of one 12,000 gallon fuel oil underground storage tank (UST) contaminated soil was observed. Volatile organic compounds (VOCs) were measured by a photoionization detector (PID). PID readings of the soils at the UST ranged up to 86 parts per million (ppm). All soils were backfilled. A fuel oil sheen was observed on the groundwater surface in the tank pit, petroleum odors were noted, and the 31 year old UST was moderately corroded, although no actual holes were found. 330 gallons of contaminated groundwater were removed using a vacuum truck. Groundwater did not recharge. Additional site investigation was required by the SMS.
- ⌘ On November 5, 2002, three groundwater monitor wells were installed by hand auger in order to evaluate potential contamination related to the UST. Coarse sand with occasional gravel to a depth of 11.5' was found beneath a 2.5' gravel fill layer. Bedrock was not encountered. No above background PID readings or petroleum odors were noted during monitor well installation. On November 5, monitor wells MW-1, -2, and -3 were sampled for VOCs via EPA 8021B and total petroleum hydrocarbons (TPH) by EPA 8015DR0. No VOCs or TPH were detected.
- The SMS had concerns about the initial site investigation and required an additional monitor well, confirmatory groundwater samples, and the completion of a sensitive receptor survey.
- ⌘ On March 27, 2003 a fourth groundwater monitor well was installed down gradient to the west of

Over

the former UST location on the other side of the school driveway. On April 16 all four monitor wells were sampled for VOCs. MTBE, a gasoline additive, was detected at 2.9 µg/L in the sample from MW-4. This is below the Vermont Groundwater Enforcement Standard of 40 µg/L; no other VOCs were detected in this or the other three monitor wells.

- ⊗ The indoor air in the adjacent receiving area, boiler room, and maintenance rooms of the Spaulding High School was screened using a PID. The school building is of slab on grade construction. No VOCs were detected.
- The nearest surface water, is the Jail Branch River, approximately 600 feet down gradient to the south. The nearest water supply well is unused and is approximately 300 feet to the east in front of the school building. No other sensitive environmental receptors were identified.
- ⊗ The school building and area are served by a municipal water supply, which is not at risk of contamination from this site. No unacceptable risk to human health and the environment is present due to any residual contamination remaining in the ground from the removed UST.
- The four groundwater monitoring wells were properly closed to eliminate possible conduits for contaminant migration into the subsurface. This closure involved removal of the protective well cover and filling the wells with a grout material to prevent fluid migration in the borehole.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release Barre Supervisory Union School District of any past or future liability associated with the petroleum contamination on the Spaulding High School site. It does, however, mean that the SMS is not requesting any additional work in response to the June 2002 UST removal. Please feel free to call with any questions.

Sincerely,



George Desch, P.E.
Chief, Sites Management Section

CC: Barre Selectboard
Barre Health Officer
DEC Regional Office (via electronic mail)
Bryan Schultz, KD Associates, Inc. (via electronic mail)