

State of Vermont
Department of Environmental Conservation
Waste Management Division
103 South Main Street/West Building
Waterbury, VT 05671-0404
(802) 241-3888
FAX (802) 241-3296

September 11, 2008

REMI BOURDEAU
BOURDEAU BROTHERS INC
25 SEVERANCE ROAD
SHELDON, VERMONT 05483

RE: Sites Management Activity Complete, Bourdeau Brothers, Inc., SMS Site # 98-2336
Sheldon, Vermont

Dear Mr. Bourdeau:

The Sites Management Section (SMS) has reviewed the December 19, 2007 biennial groundwater monitoring report for data collected on September 25 at the above referenced site by Lincoln Applied Geology (LAG). The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- On August 27, 1998 one 7,000 gallon diesel fuel and one 1,000 gallon gasoline underground storage tank (UST) were removed from the Bourdeau Brothers property at 25 Severance Road in Sheldon.
- On May 7, 1999, 10 soil borings were advanced in order to evaluate potential contamination related to the USTs; 3 of these soil borings were completed as groundwater monitor wells. Soil and groundwater samples confirmed petroleum product contamination, but did not define its limits. On July 28, 1999 4 more groundwater monitor wells were installed on the property and all existing wells were sampled via EPA Method 8021B for volatile organic compounds (VOCs). A water sample from the on-site water supply well was also collected.
- No VOCs were found in the water supply well or MW-1. A trace of benzene below quantitation limits was found in MW-4. One or more VOCs were noted above Vermont Groundwater Enforcement Standards (VGES) in MW-2, -3, -5, -6, and -7. Long term groundwater monitoring was requested by the SMS to manage contamination at the site.
- Follow up sampling occurred on 11/11/99, 8/29/00, 10/25/01, 10/30/02, 10/14/03, 10/14/05, and 9/25/07. Contaminant levels decreased over the years of monitoring until all except one sampled well were below the VGES or at undetectable levels. MW-7 is in the core of the groundwater plume and in a parking lot. This monitor well had 13 µg/L of benzene on 9/25/07, which is above the VGES.
- Approximately 24 yd³ of diesel and gasoline contaminated soils were excavated during UST removal and stockpiled on undeveloped Bourdeau property approximately 1 mile to the

Over



west. In August 2000 two soil stockpile samples (27 and 63.5 mg/kg total petroleum hydrocarbons) confirmed that contamination had degraded below Vermont DEC guidelines and the stockpile was disposed of by thin spreading.

- The indoor air of the two site buildings and the basement of a down-gradient convenience store was screened for VOCs via photoionization detector. No above background readings were noted. The on site water supply well was shown to be up gradient of the contaminant plume coming from the former USTs. A down gradient drainage ditch was inspected for sheens, odors, and stressed vegetation and no impact was found. The Missisquoi River, ~1,000 feet southwest of the site, is the nearest surface water. No other at-risk sensitive receptors were identified. 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 six surviving 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, filling the wells with a grout material to prevent fluid migration in the borehole, and finishing to the surrounding grade.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release Bourdeau Brothers, Inc. of any past or future liability associated with the petroleum contamination onsite. It does, however, mean that the SMS is not requesting any additional work in response to the 1998 UST removals.

Please feel free to call with any questions.

Sincerely,



George Desch, P.E.

Chief, Sites Management Section

CC: Sheldon Selectboard ✓
Sheldon Health Officer ✓
DEC Regional Office (via electronic mail) ✓
Jeremy Revell, Lincoln Applied Geology (via electronic mail) ✓

Y:\WM_Sites\Sites.Files\1997.2301.to.1998.2400\1998.2336.Bourdeau.Brothers\2008\0911.bourdeau.SMAC.doc