# State of Vermont

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June 15, 2000

DICK FRASER
NEWPORT SAND & GRAVEL COMPANY
PO BOX 1000
NEWPORT, NEW HAMPSHIRE 03773

RE: Site Management Activity Completed, Carroll Concrete, SMS Site #99-2673
Vernon, Vermont

Dear Mr. Fraser:

The Sites Management Section (SMS) has reviewed the June 14, 2000 report titled, *"Additional Assessment Report, Carroll Concrete, Vernon"* prepared by Environmental Compliance Services (ECS) for work conducted at the above referenced site. The SMS has also reviewed information contained in the site file. With this information, the SMS can now make the following conclusions:

- During the August 1999 removal of one 4,000 gallon and one 15,000 gallon fuel oil and one 10,000 gallon diesel 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 4,000 gallon UST and old pump island ranged up to 360 parts per million (ppm). No evidence of contamination at the diesel or 15,000 gallon fuel oil tanks was observed. Additional investigation was required by the SMS.

- On January 12, 2000, 4 groundwater monitor wells were installed in order to evaluate potential contamination related to the 4,000 gallon UST and pump island. Sand and silt were observed from grade to 15' below ground surface (bgs). No above background PID readings were noted during monitor well installation. On January 24, ECS-1 to -4 and the site water supply well were sampled for VOCs via EPA 8021B and total petroleum hydrocarbons (TPH) via EPA 8100M. No target VOCs were detected in ECS-1, -3, and -4. In ECS-2, down gradient of the former pump island, MTBE (1.1 µg/L), was detected below the Vermont Groundwater Enforcement Standards (VGES). TPH was detected in all 4 monitor wells at 0.5 to 0.6 mg/L. No VOCs or TPH were detected in the water supply well; this well reportedly is used for process and sanitary water only. Site personnel use bottled drinking water. Confirmatory sampling of the monitor wells and supply well was requested by the SMS.

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- On May 3 all monitor wells and the supply well were resampled. No target VOCs were detected in ECS-1, -3, and -4. In ECS-2, xylene (6.7 µg/L), naphthalene (2 µg/L), 1,2,4-trimethylbenzene (4.1 µg/L), and 1,3,5- trimethylbenzene (1.6 µg/L) were detected at levels below the VGES. TPH was detected in MW-1, -2, and -4 at 0.85 to 4.3 mg/L. Although these values are somewhat higher than those originally measured in January, they confirm that the contamination level in the groundwater at the site is below the VGES. TPH was not detected in ECS-3. No VOCs or TPH were detected in the water supply well.

- The site building was screened for VOCs via PID and no above background VOC levels were detected. The property is in an industrial area and the nearest residential building is 1000' down gradient.

- The Broad Brook and the Connecticut River are the nearest surface waters. No sheens or other evidence of petroleum impact were noted. No other at-risk sensitive receptors were identified. Residual contamination in the soil and groundwater associated with the UST removals was shown to be confined to the subject property.

Based on the above, the SMS is assigning this site a Site Management Activity Completed (SMAC) designation. This SMAC designation does not release Carroll Concrete 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 August 1999 UST removal.

If the monitoring wells are no longer used or maintained, then they must be properly closed to eliminate possible conduits for contaminant migration into the subsurface. This closure typically involves filling the wells with a grout material to prevent fluid migration in the borehole. Specific requirements for well closure are outlined in Section 12.3.5 in Appendix A of the Vermont Water Supply Rule-Chapter 21.

Please feel free to call with any questions.

Sincerely,

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

CC: Vernon Selectboard
Vernon Health Officer
DEC Regional Office
David Balk, ECS