

HOFFER & ASSOCIATES

CONSULTING HYDROGEOLOGISTS

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September 22, 1998

Chuck Schwer
Waste Management Division
Vermont Department of Environmental Conservation
103 South Main Street - West Office
Waterbury, VT 05671

Re: Soil Pile Evaluation at Sailer Construction, Inc., Plymouth, VT
SMS Site #95-1916

Dear Mr. Schwer:

On Monday, September 21, 1988 I completed an evaluation of a relatively small soil stockpile situated behind the Sailer Construction building located on Rt. 100A in Plymouth, Vermont. This evaluation consisted of measuring the dimensions of the pile in order to determine the approximate volume of the stockpiled materials, and the collection of five soil samples for screening with a photoionization detector (PID). This evaluation was motivated by Sailer Construction's desire to dispose of the soil materials off-site in a certified landfill in preparation for selling the property.

The soils were placed in this pile during the removal and closure of two underground storage tanks (USTs) on August 21, 1995. A Tank Closure Report dated October 18, 1995 was filed with the Vermont Hazardous Materials Management Division. This report, completed by Professional Services Industries, Inc. of Woodstock, Vermont, indicates the volume of soils stockpiled and polyencapsulated on-site totaled approximately seven (7) cubic yards, the bulk of which originated from beneath a 10,000 gallon diesel UST. The second UST closed was a 2,000 gallon gasoline tank. PID field screening results (obtained with an HNU) of soils placed in this pile during the tank closure indicated concentrations as high as 280 parts per million (ppm) were present. Due to the limited degree and extent of petroleum contamination at the site, no site investigation was performed.

When I arrived on-site the soil pile had been recently moved approximately 15 feet to the center of a turn around area just north of and behind the office/garage building (see Figure 1). The pile was conical in shape and measured approximately 11 feet in diameter and 5 feet in height. As such, the volume of soil contained in the pile is calculated to be approximately six cubic yards, reasonably consistent with the original estimate.

I collected five soil samples with a shovel from approximately one foot beneath the surface of the pile, one third of the way up the sloping face, at evenly spaced locations around the perimeter. These samples were sealed in plastic ziplock baggies, allowed to equilibrate for a few minutes, agitated and then screened with a PID. The instrument used was a Photovac MicroTip HL-2000 equipped with a 10.6 eV lamp which was calibrated on-site with an isobutylene gas standard. Headspace measurements inside the baggies were collected, with the maximum reading recorded. Sample

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results are presented below:

<u>Soil Sample</u>	<u>PID Response (ppm)</u>
S-1	13.4
S-2	11.6
S-3	9.7
S-4	4.9
S-5	13.5

A slight petroleum odor was detectable in the area around the soil pile on two or three occasions during collection of the samples. This odor was not persistent; a light breeze was blowing during these activities. Visually the soil materials looked mostly like clean fill, however, occasional small petroleum-stained "clumps" of soil were apparent. These materials were likely scraped off the bottom of the diesel tank (see Tank Closure Report). No effort was made to either include or exclude these stained materials from the samples. S-5 included some of these petroleum stained materials, which were broken apart manually inside of the plastic bag prior to PID screening.

Based on the results of this field screening effort, these soil materials meet the requirements outlined in the Agency Guidelines for Petroleum Contaminated Soils and Debris (August, 1996) for disposal in a certified lined landfill. As such we respectfully request that the Sites Management Section approve Sailer Construction's request to transport and dispose of this material in a certified lined landfill.

If you should have any questions regarding this evaluation, please give me a call. Thank you for your consideration of this matter.

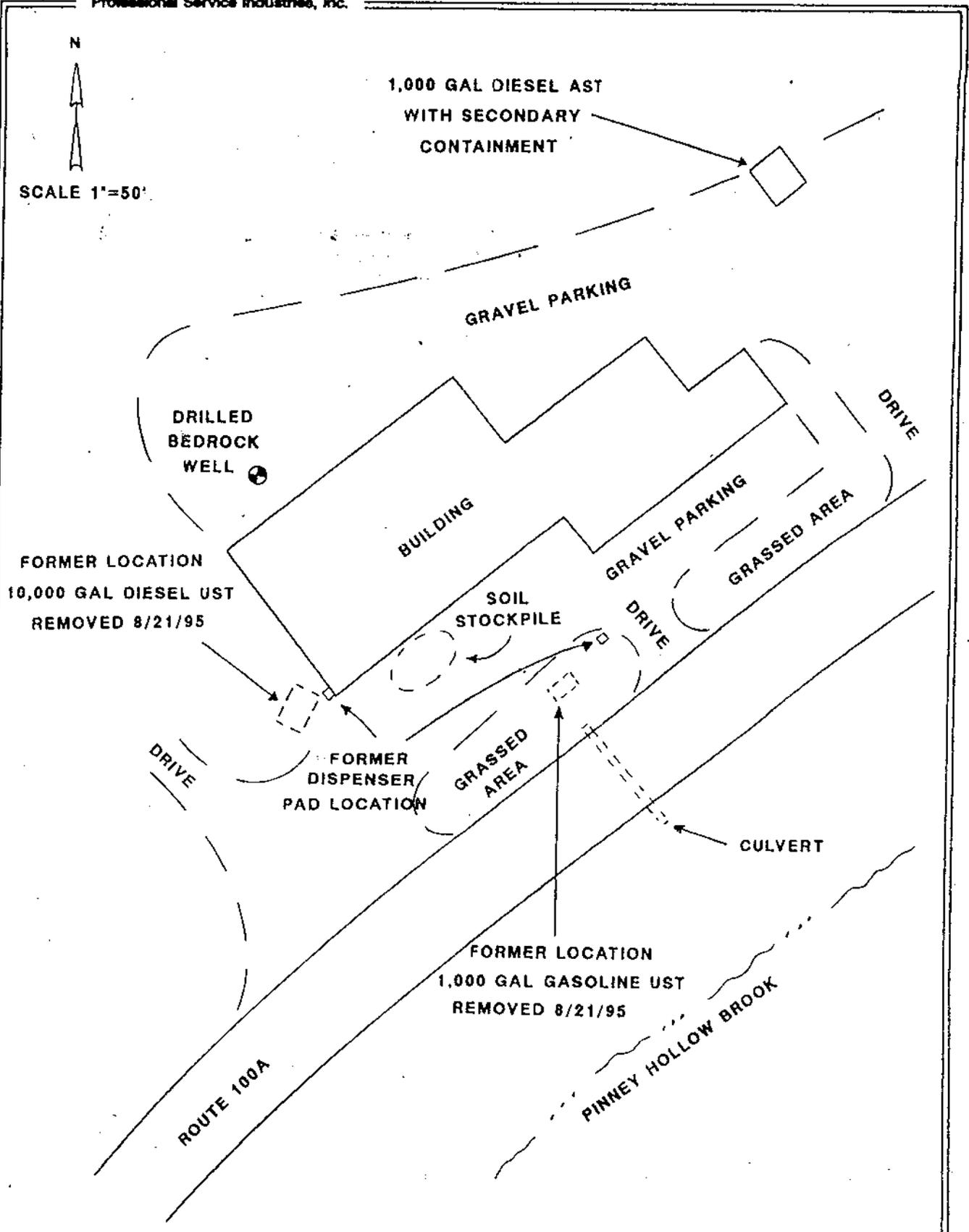
Sincerely,
HOFFER & ASSOCIATES



Stratton C. French, CGWP
Senior Hydrologist

enc.

cc: Jeffrey Sailer, Sailer Construction, Inc.



PROJECT NAME
UST CLOSURE REPORT
SAILER CONSTRUCTION FACILITY
ROUTE 100A
PLYMOUTH, VERMONT.

SITE SKETCH

PROJECT NO.
821-5H137

DRW. NO.
2

DATE
AUGUST, 1995