



# Marin Environmental, Inc.

Hydrogeology, Engineering & GIS Services

1700 Hegeman Avenue  
Colchester, VT 05448  
Phone: (802) 655-0011  
Fax: (802) 655-0076

Main Office:  
7 Island Dock Road  
Haddam, CT 06438  
Phone: (860) 345-4578  
Fax: (860) 345-3854

600 Charlton Street  
Southbridge, MA 01550  
Phone: (508) 764-8755  
Fax: (508) 764-4054

63 School Street  
P.O. Box 1414  
Concord, NH 03302  
Phone: (603) 224-8871  
Fax: (603) 224-8688

116 Consumer Square  
Suite 174  
Plattsburgh, NY 12901  
Phone: (518) 566-8297

Internet:  
[www.marinenv.com](http://www.marinenv.com)

6 May, 1998

Bradford and Judith Howarth  
PO Box 574  
N. Troy, Vermont 05859

Re: *Annual Soil Stockpile Monitoring*  
*Cote residence, Jay, VT (VT DEC # 97-2201)*

Dear Mr. and Mrs. Howarth:

On 27 April 1998, the Ground Water of Vermont Division of Marin Environmental, Inc. (Marin) completed annual monitoring of the petroleum-contaminated soil stockpile related to this site. The soil stockpile is located off the Cemetery Road in Jay on property previously owned by Charlotte Cote. The soil pile is from the underground petroleum storage tank excavation completed at the residence in March 1997 and has a volume of approximately 30 cubic yards.

The monitoring results indicate that contaminant levels in the stockpile have declined since soils were excavated in March 1997 and are at levels suitable for thin-spreading at this time. The VT DEC requires that monitoring continue until contaminant levels, based on photoionization detector (PID) readings, have decreased to below 1.0 ppm. Because the most recent monitoring results were below this threshold (all PID readings were 0.00 ppm), Marin recommends thin-spreading the soil pile and discontinuing stockpile monitoring. PID readings are summarized on Table 1.

**TABLE 1.**  
**PID Soil Screening Results**

Sample Location	Depth (ft)	PID Reading (ppm)
S-1	1.5	0.0
S-2	1.5	0.0
S-3	1.5	0.0
S-4	1.5	0.0
S-5	1.5	0.0
S-6	1.5	0.0
S-7	1.5	0.0
S-8	1.5	0.0
S-9	1.5	0.0
S-10	1.5	0.0
Average		0.0

Bradley and Judith Howarth  
Cote Residence (VT DEC #97-2201)

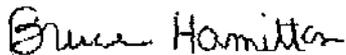
6 May, 1998  
Page 2

Contaminant concentrations were measured on a total of ten discrete samples collected from the aggregated soil stockpile. Soils were collected from a depth of approximately 1.5 feet below the surface. Each sample was placed into a polyethylene bag, which was sealed, agitated, and allowed to equilibrate prior to headspace screening. Soil concentrations were measured using a PE PhotoVac model 2020 portable photoionization detector (PID). The PID was calibrated at the site on the day the measurements were obtained with isobutylene to a benzene reference. The stockpile encapsulation was found to be in good condition at the time of the site visit and did not require maintenance.

Marin has appreciated the opportunity to assist you on this project. Please call me if you have any questions or comments.

Sincerely,

Marin Environmental, Inc.



Bruce Hamilton  
Environmental Engineer

BWH/Ref: 97023R01.doc

cc: Mr. Chuck Schwer, VT DEC

# Marin Environmental

7 Island Dock Road  
Haddam, CT 06438

PREPARED BY BH	DATE 3/31/97	CHECKED BY	DATE	PROJECT NO. V97-022
-------------------	-----------------	------------	------	------------------------

SUBJECT: Cote Residence Jay, UT

