

MAY 27 1994 (633)



Precision Park ♦ North Springfield, Vermont 05150-0029 ♦ Tel.: 802 / 886 / 2261 ♦ Fax: 802 / 886 / 2260

May 20, 1994

Mr. Richard F. Spiese, Site Manager
Hazardous Materials Management Division
Sites Management Section
103 South Main Street/West Building
Waterbury, Vermont 05671-0404

Re: M & N Mini Mart
Royalton, VT
DH 462068

Dear Richard:

The groundwater monitoring wells at the subject site were sampled on April 19, 1994. Enclosed please find:

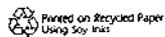
- A site sketch of the M & N Mini Mart showing groundwater contours,
- The lab report of the latest sampling results,
- A summary table of all of the sampling results on the site to date.

The most recent sampling indicated a significant increase of dissolved gasoline contamination present in MW-2 and MW-6; roughly four times that observed in June 1993. There was also a marked increase of MTBE in MW-3 and MW-5, an indicator that a gasoline plume may be headed east. This is consistent with the groundwater gradient. Unfortunately, MW #4 was frozen at the time of sampling, so we were unable to obtain a sample or water elevation.

These results indicated that an "event" had occurred since the last round of sampling. Our concern was heightened by the observation during sampling that tank vent lines were bent to a nearly vertical position. This was reportedly caused by a vehicle accident this past winter. If the vent connection to one or more tanks were damaged, below grade, this could be the source of the contamination increase in the groundwater.

We informed Neil Martin of Johnson & Dix of the findings and our concern the day following our receipt of the sampling results. We understand that Mr. Martin discussed the situation with you shortly thereafter, and it was agreed that the leak detection systems and piping should be checked. This was accomplished, and there was no evidence of problems with operation of the tanks or piping, or their leak detection systems.

Corporate Headquarters:
North Springfield, Vermont



Area Offices:
Greenfield, Massachusetts
Westford, Massachusetts

Manchester, New Hampshire
Montpelier, Vermont
South Portland, Maine

Mr. Richard Spiese
May 20, 1994
Page 2

In the absence of problems with the tanks, it is possible that the disturbance of the soil at the site during the removal of a of tank allowed percolation of rainwater through contaminated soil which is responsible for the conditions observed in this last round of samples. It is our understanding that Mr. Martin has communicated these results to you, and that you have recommended that quarterly sampling of the monitoring wells would be an appropriate course of action. We concur with this recommendation. Additional rounds of samples will be obtained in June, September and December. We will provide you with the results of each round of sampling and an updated summary.

If you have any questions regarding this site, please do not hesitate to contact us.

Very truly yours,

DUFRESNE-HENRY, INC.



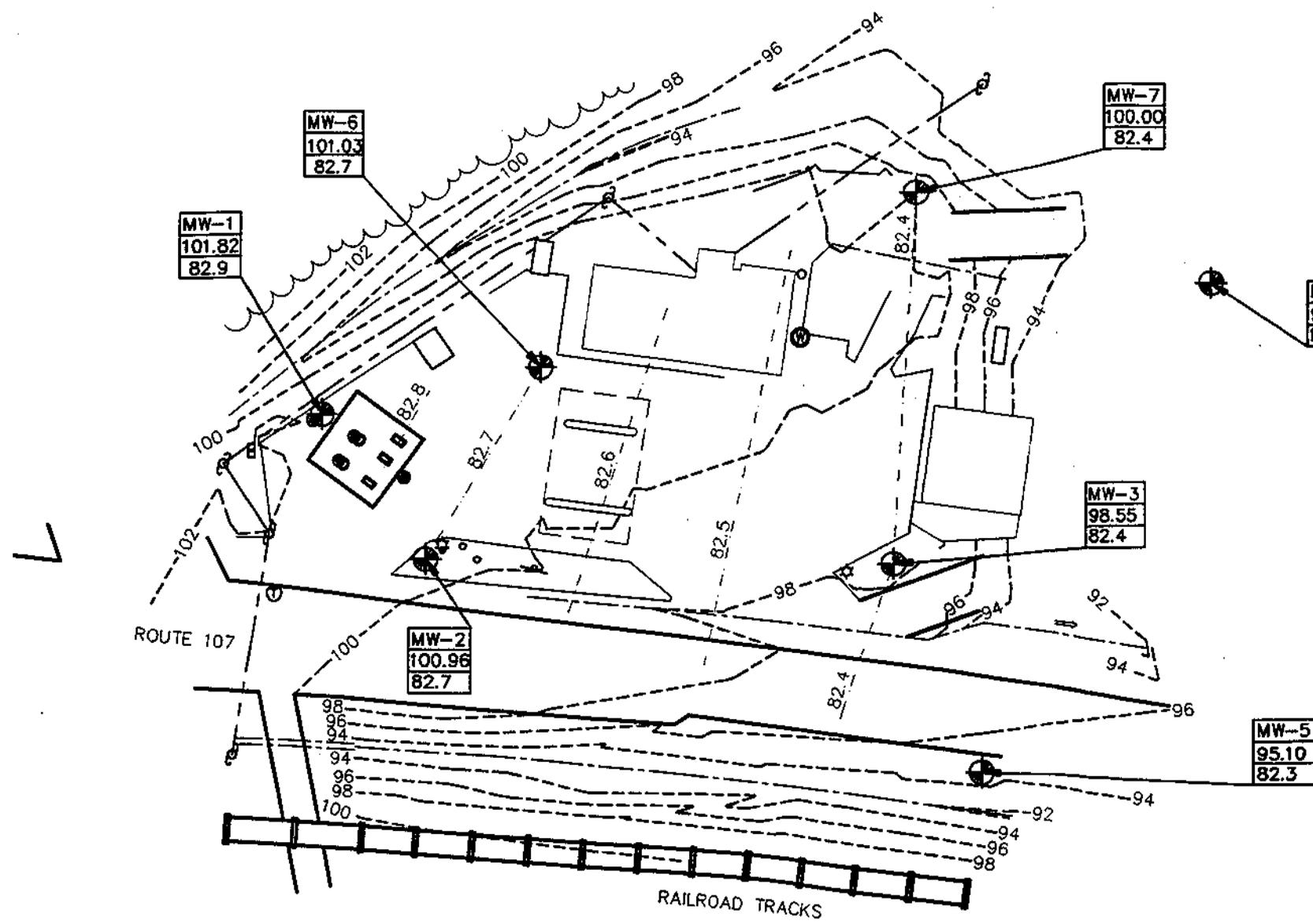
F. David Deane, P.E.
Environmental Services Division

cc Neil Martin

FDD/dim

Enclosures

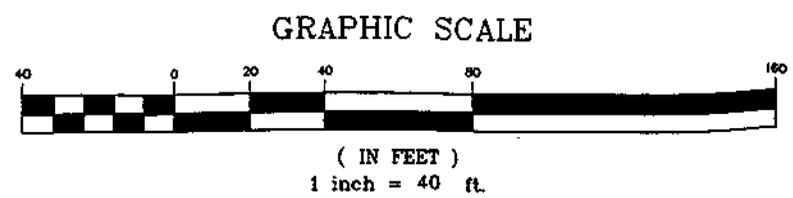
M&N0520.WP



LEGEND

- EDGE OF ROAD
 - CURBING
 - SWALE LINE
 - UTILITY LINE
 - 10 FT CONTOUR
 - 2 FT CONTOUR
 - WOOD RETAINING WALL
 - MONITORING WELL
 - ABANDONED MONITORING WELL
 - CONCRETE WELL
 - FUEL FILL HOLE
 - VENT PIPE
 - LIGHT POLE
 - TELEPHONE MANHOLE
 - DRAINAGE FLOW
-
- | | |
|-------------|-----------------------|
| MW-1 | MONITORING WELL # |
| 101.82 | RIM ELEVATION |
| 80.9 | GROUNDWATER ELEVATION |
-
- GROUND CONTOUR
 - GROUNDWATER CONTOUR

NOTE:
The information on this drawing is based on a survey by Coleman Surveys and Dufresne-Henry dated January 7, 1993.



JOHNSON & DIX FUEL CORP.
M & N MINI MART
GROUNDWATER PLAN
AS OF APRIL 19, 1994

ROYALTON, VERMONT

Client No. 462068	Proj.Mgr. F.D.D.	Date 5/94	B
-------------------	------------------	-----------	---



LABORATORY REPORT

Eastern Analytical, Inc. ID#: 8418 DUF

Client: Dufresne-Henry
Client Designation: 462068/M & N Texaco

Sample Qty/Type: 7 aqueous
Date Received: April 21, 1994

Hazardous Substance List Volatile Organic Compounds

Sample ID:	DW-1	MW-1	MW-2	MW-3	MW-5	MW-6	MW-7	
Matrix:	Aqueous							
Date of Analysis:	4/27/94	4/27/94	4/27/94	4/27/94	4/27/94	4/27/94	4/27/94	
Units:	µg/L	EPA						
Analyst:	NZ							
Dilution Factor:	1	1	10	1	1	100	1	Method
Benzene	<1	<1	2,100	<1	<1	5,400	<1	602
Toluene	<1	<1	260	<1	<1	31,000	<1	602
Ethylbenzene	<1	<1	<10	<1	<1	2,200	<1	602
Total Xylenes	<1	<1	1,300	<1	2	17,000	<1	602
MTBE	<20	<20	600	130	310	3,000	<20	8015

Approved By: Timothy Schaper, Organics Supervisor

Timothy P. Schaper

EXIT 3 – M&N MINIMART – ROYALTON, VERMONT
GROUNDWATER QUALITY SUMMARY

	TOTAL BTEX ug/l				MTBE ug/l			
Location	NOV 15 '90	DEC 21 '92	JUN 8 '93	APR 19 '94	NOV 15 '90	DEC 21 '92	JUN 8 '93	APR 19 '94
MW-1	Not Detected	Not Detected	Not Detected	Not Detected	<5	<20	<20	<20
MW-2	521	Not Detected	32	3,660	200	<20	180	600
MW-3	Not Detected	Not Detected	Not Detected	Not Detected	10	20	40	130
MW-4	Not Detected	Not Detected	Not Sampled	Frozen	5	<20	Not Sampled	Frozen
MW-5	Not Yet Installed	Not Detected	Not Detected	2	Not Yet Installed	80	40	310
MW-6	Not Yet Installed	310	460	55,600	Not Yet Installed	300	770	3,000
MW-7	Not Yet Installed	Not Detected	Not Detected	Not Detected	Not Yet Installed	<20	<20	<20
Station Well	Not Detected	Not Detected	Not Detected	Not Detected	<5	<20	<20	<20