

KDAI

ENVIRONMENTAL ENGINEERING
& LABORATORY SERVICES

DEC 24 1992

22 December, 1992

Ms. Lynda Wedderspoon
Site Management Section
Dept. of Environmental Conservation
103 South Main Street / West Bldg.
Waterbury, Vermont 05671-0404

RE: Remedial Work Plan Update
So. Burlington-Chrysler-Plymouth (Site #92-1207)

Dear Ms. Wedderspoon:

On behalf of South Burlington Chrysler-Plymouth, K-D Associates, Inc. submits the following information relative to the groundwater investigation and sampling at the above mentioned site. Enclosed please find a summary of the analytical results from groundwater sampling and an updated site map which includes new construction on the property and monitoring well locations.

Three additional monitoring wells were installed at the perimeter of the property. After development, they were sampled and analyzed by EPA Methods 418.1 and 8240. In addition, samples were collected from the storm drain which bisects the property, the drainage ditch along the south side of the property and two of the three existing wells were re-sampled. (well #3 was destroyed during the re-paving of the parking lot.) Sample results indicate that contamination has not migrated to the limits of the property by groundwater movement or carried by the storm sewer. Results of re-sampling of the wells directly at the former tank site (mw #1 and #2) indicate that contamination is still present. The compounds detected at these sample points is similar to the results of the previous round, however, the levels have changed somewhat unexpectedly. (see results summary).

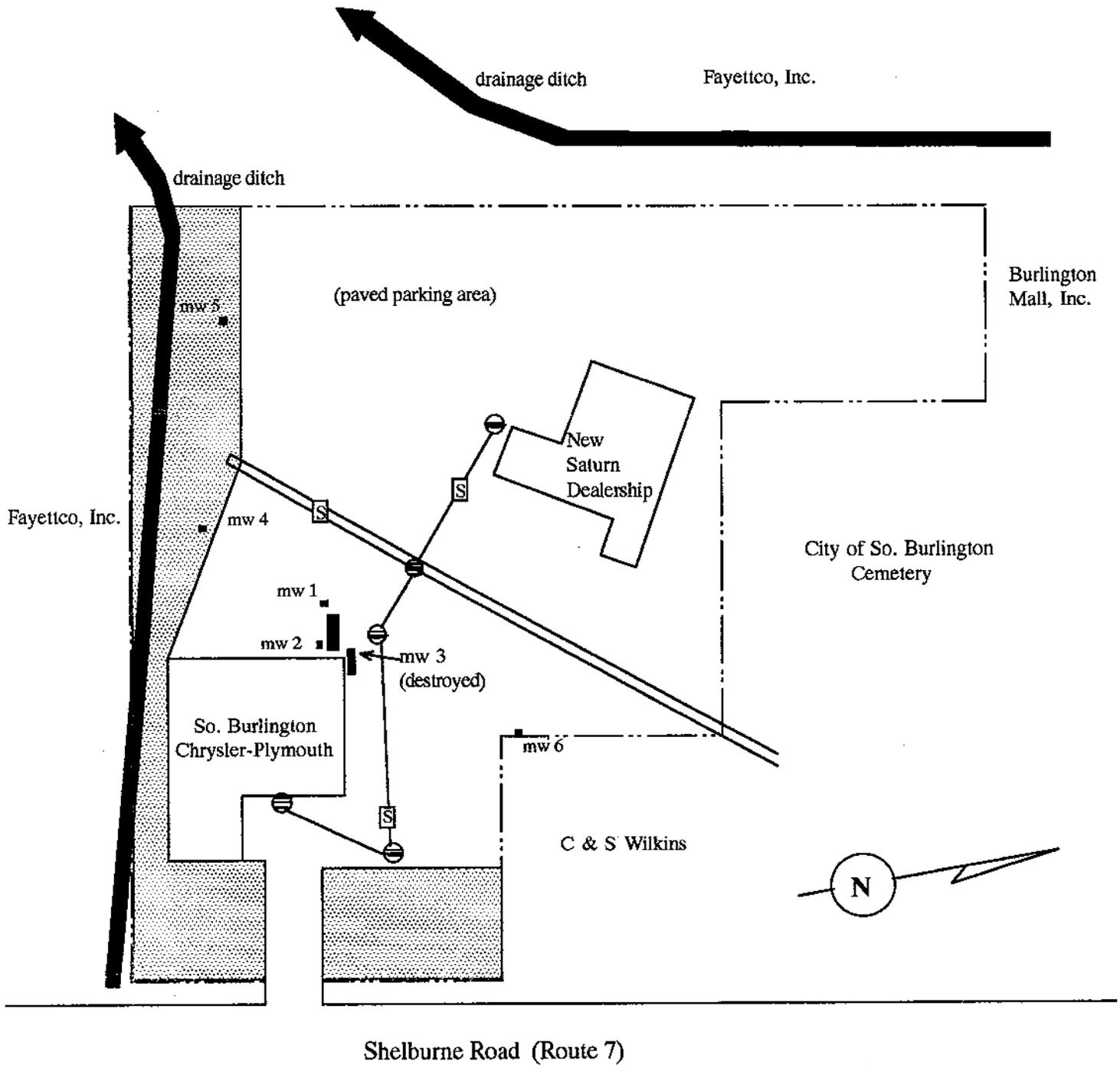
From information recorded at the initial tank replacement, the soil encountered during excavation was a heavy clay which may be limiting the size and movement of the contamination. While contamination exists at levels above those defined by the state Groundwater Enforcement standards, it appears that pursuing an active recovery/reduction method may not be practical. No drinking water wells are in the vicinity and analysis indicates that any sensitive areas "downstream" of the drainage ditches are also not likely to be affected as the migration of contamination appears to be nil.

K-D Associates, Inc. suggests no immediate action in response to the findings of this latest investigation. Please contact our office to discuss any options for additional actions/investigations or additional monitoring should you feel that they are necessary. Thank you again for your assistance with this site.

Sincerely,

Bryan Schultz

cc: Jeffrey Savoie
file 9145-003



Site: So. Burlington Chrysler - Plymouth
 Location: 1095 Shelburne Road
 So. Burlington, Vermont

Designed By:

KDAI
 P.O. Box 4326
 Burlington, Vermont 05406
 (802) 862-7490

LEGEND

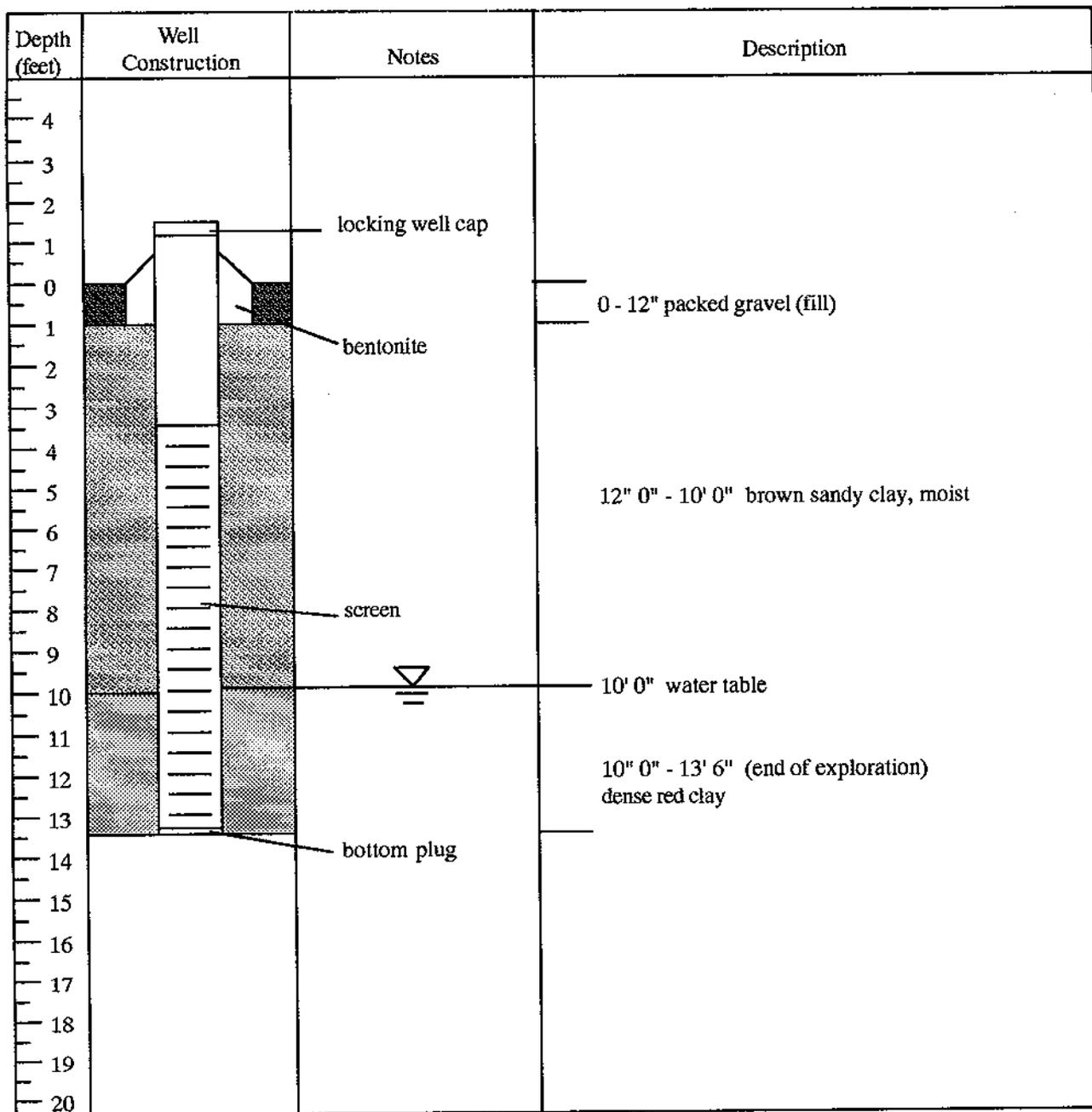
scale = 1" = 100'

 = existing 4,000 gallon gasoline tank
 = former waste oil tank site
 mw 1, 2 & 3 = 'micro wells'
 mw 4, 5 & 6 = 2" dia. wells
 = storm drain

Project Name South Burlington Chrysler-Plymouth Casing type PCV
 Location 1095 Shelburne Road Casing Diameter 2"
So. Burlington, Vermont Casing length 4' 10"
 KDAI Proj. No. 9145-003 Screen type 0.01"
 Drilling Log No. well #4 Screen length 10' 0"
 Date 11/19/92 Total length below ground 12' 6"

Depth (feet)	Well Construction	Notes	Description	
4	<p>The diagram shows a well casing starting at 0 feet and ending at 12 feet 6 inches. A locking well cap is at the top. Bentonite is used for sealing at the top and bottom. A screen is located between 6 feet 9 inches and 12 feet 6 inches. A bottom plug is at the very bottom. A water table symbol is shown at 6 feet 9 inches.</p>	locking well cap	0 - 6" packed gravel (fill)	
3		bentonite	6" - 6'9" brown sandy clay, moist	
2			6'9" water table	
1			screen	6'9" - 12'6" dense grey clay
0				12'6" - 12'8" (end of exploration) dense grey clay/gravel mix, moist
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12		bottom plug		
13				
14				
15				
16				
17				
18				
19				
20				

Project Name South Burlington Chrysler-Plymouth Casing type PCV
 Location 1095 Shelburne Road Casing Diameter 2"
So. Burlington, Vermont Casing length 4' 10"
 KDAI Proj. No. 9145-003 Screen type 0.01"
 Drilling Log No. well #5 Screen length 10' 0"
 Date 11/20/92 Total length below ground 13' 4"



Project Name South Burlington Chrysler-Plymouth Casing type PCV
 Location 1095 Shelburne Road Casing Diameter 2"
So. Burlington, Vermont Casing length 4' 10"
 KDAI Proj. No. 9145-003 Screen type 0.01"
 Drilling Log No. well #6 Screen length 5' 0"
 Date 11/20/92 Total length below ground 9' 0"

