



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Metropolitan Boston – Northeast Regional Office


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MEMORANDUM FOR THE RECORD

To: WAYLAND: Baldwin Pond Wells Site Discovery Project

Thru: Stephen Johnson, Section Chief 

From: Larry Immerman, Environmental Analyst 

Subject: WAYLAND-Baldwin Pond Wellfield
December 2001 through April 2002 DEP Field Work

Date: July 18, 2002

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Introduction

In 1997, the volatile organic compound (VOC), (1,1,1)-trichloroethane (TCA) was detected for the first time at the Town of Natick's Baldwin Pond facility, in groundwater sampled from Well #2. Since 1997, low levels of contaminants as TCA, chlorinated-substituted VOCs similar to TCA, and VOCs associated with a light-end petroleum (e.g. gasoline) continued to be detected in groundwater sampled at the Baldwin Pond facility. Please refer to "Table 1" of this Memorandum for more historic information on the contaminants detected and their respective concentrations. In November 2001, the Department of Environmental Protection's Site Discovery group (DEP/SD) conducted a reconnaissance within the Baldwin Pond wellfield in response to the continued detection of VOCs at the Baldwin Pond facility. Results of DEP/SD's reconnaissance identified properties within the Zone II of the wellfield where the historic use and storage of oils and/or hazardous materials containing VOCs has taken place (e.g. automotive service station, dry cleaner). For more details on the outcome of the reconnaissance, please see DEP/SD's "Memorandum For The Record", dated May 20, 2002. Based on the limited groundwater quality information within the Baldwin Pond wellfield, DEP/SD later determined that the installation of wellpoints to collect groundwater samples at Town-owned properties within the wellfield's Zone II area would be necessary. The remainder of this Memorandum memorializes DEP's December 2001 through April 2002 Field Work.

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December 2001 to April 2002 DEP Field Work

From December 2001 to April 2002, DEP/SD conducted a groundwater quality investigation within the Zone II of the Baldwin Pond supply wells. The work included the following:

- Installation of 28, small diameter wellpoints to varying depths below grade, using a total of 1528 feet of pipe (please refer to “Table 2” of this Memorandum for further information);
- sampling of groundwater from these wellpoints for in-house VOC screening;
- sampling of groundwater from four existing monitoring wells at the Former Raytheon facility - 430 Boston Post Road (RTNs: 3-1783, 3-14042, and others) for in-house VOC screening and laboratory metals analysis; and,
- sampling of groundwater at Baldwin Pond Supply Well’s #2 and #3 for in-house VOC screening.

Installation of DEP Wellpoints: All DEP wellpoints were manually installed by the writer using a Bosch® rotary hammer drill. When achievable, groundwater samples were collected from the wellpoints at successive depths during the time of wellpoint advancement in order to obtain a vertical profile of the groundwater quality. Groundwater samples were surged from DEP wellpoints and existing monitoring wells using a mini-foot valve connected to a length of high-density polyethylene (HDPE) tubing, and collected into 40 milliliter VOC-type sampling vials. In some cases, a groundwater sample could not be obtained from a wellpoint at a targeted depth in the aquifer due to either a non-sustainable water recharge condition, and/or foot-valve failure caused by intruding fines from the surrounding geologic formation (e.g. silt/clay) at that depth. From December 2001 to April 2002, a total of 70 groundwater samples were collected by the writer for VOC screening at DEP’s Northeast Regional Office (DEP/NERO). Results of the VOC screening are presented in “Table 3”, and in the following section.

Additional Sampling: On November 27, 2001, the writer met with Superintendent Donald Hollander at the Baldwin Pond facility as part of DEP’s wellfield reconnaissance work. At that time, the writer collected raw water samples from Baldwin Pond Well #2 and #3 for in-house VOC screening. Results of the screening tentatively identified the gasoline additive M(t)BE at both wells at less than quantifiable levels. Please refer to DEP/SD’s May 20, 2002 “Memorandum” for more information on the Baldwin Pond wells and DEP/SD’s November 2001 wellfield reconnaissance work.

On March 1, 2002, the writer met with Raytheon and their contractors at the former Raytheon Facility site in Wayland for the purpose of split-sampling groundwater from selected on-property monitoring wells. At that time, groundwater samples were collected by the writer and Raytheon’s contractor for VOC analysis from four on-site monitoring wells “MW-TP-3”, “MW-32”, “MW-43D”, and “MW-44S”. The writer also collected additional groundwater samples which were brought to the State’s Wall Experiment Station (Wall) for metals analysis. Raytheon did not participate in the metals sampling. Chlorinated VOCs as TCE, PCE, TCA, and DCE were identified in groundwater at trace to low parts per billion levels. Metals were not detected by Wall’s analysis in any of the groundwater samples. Please refer to DEP/SD’s May 22, 2002 “Memorandum” for more information.

DEP VOC Screening Results

Groundwater samples collected during the December 2001 through April 2002 DEP field work were screened at DEP/NERO by the writer for VOCs using a gas chromatograph (GC) equipped with photo-ionization and dry-electrolytic conductivity detectors, in series (PID/ELCD). The PID is sensitive to aromatic-type compounds (e.g. benzene, toluene) and some chlorine-substituted compounds (e.g. DCE, TCE, PCE). The ELCD is sensitive to all chlorine-substituted VOCs, only. Groundwater samples were stored in a refrigerator and screened within 14 days of their collection. At the time of screening, each groundwater sample was prepared using a "jar headspace" type sampling procedure by decanting approximately 20 milliliters of sample to produce a 1:1 ratio of headspace to aqueous phase in the 40 ml VOC vial. Upon development of the headspace, a gas-tight syringe was used to pierce the vial's septum and evacuate one milliliter of headspace from within the vial. The syringe contents were then directly injected into the GC. Peak signal output from the GC detectors was normalized using PeakSimple® software. Final groundwater results were reported as an estimated microgram per liter concentration. See "Table 3" and attached "NERO Lab Reports" for a list of the GC results.

Chlorinated VOCs as TCE, DCE, PCE, and TCA were identified from the GC screening as follows:

TCE: Groundwater sampled at wellpoint DEP-21 had the highest concentration of TCE detected from the GC screening at 146 ug/l. TCE was also detected in groundwater sampled at DEP-20, DEP-19M, DEP-19D, and DEP-10S, with estimated concentrations as high as 12 ug/l, 7.1 ug/l, 9.2 ug/l, and 3.4 ug/l, respectively. Lastly, trace levels of TCE were identified at DEP-10D, and DEP-12D.

DCE: Groundwater sampled at wellpoint DEP-21 had the highest concentration of DCE detected from the GC screening at 52 ug/l. DCE was also identified in groundwater sampled at wellpoints DEP-20, DEP-19M, DEP-19D, and DEP-10S, with estimated concentrations as high as 6.2 ug/l, 36 ug/l, 38 ug/l, and 4.8 ug/l, respectively. Lastly, trace levels of DCE were identified at wellpoints DEP-10D and DEP-12D.

PCE: The highest concentrations of PCE detected from the GC screening was from groundwater sampled at wellpoints DEP-21 and DEP-20, with estimated concentrations at 2.3 ug/l and 1.1 ug/l, respectively. Trace levels of PCE were also identified in groundwater sampled at wellpoints DEP-19S, DEP-19M, DEP-19D, DEP-10S, DEP-10D, and DEP-8.

TCA: TCA was detected in groundwater at wellpoint DEP-8, at an estimated groundwater concentration of 1.2 ug/l. TCA was also detected in groundwater sampled at wellpoints DEP-6 and DEP-7, all at trace concentrations.

VOCs associated with a light-end fuel oil were also identified by the GC screening as the gasoline additive MTBE, and as the aromatic components benzene, toluene, ethylbenzene, and xylenes (BTEX). Total BTEX levels were not identified in groundwater sampled at any DEP wellpoint location above trace levels. Trace levels of BTEX were identified in groundwater sampled at wellpoints DEP-2, DEP-10S, DEP-12S, DEP-16, DEP-17, and DEP-20. MTBE was identified at DEP-8 and DEP-5 at estimated concentrations of 112 ug/l and 25 ug/l, respectively. In groundwater sampled from DEP-21 at the 40 foot interval, a peak which responded on both PID and ELCD channels was tentatively identified as MTBE by the PID and an unknown peak on the ELCD. However, based on the similar retention times and comparative peak responses between the detectors it was the opinion of the writer

that a false MTBE positive was generated, and the peak was reported as an “Unknown Chlorinated VOC as TCE” (See Table 3- DEP-21 at 40 foot for more information.)

Writer's Interpretation Of DEP Field Data

Trace to moderate microgram per liter concentrations of chlorinated VOCs were identified by the GC screening in groundwater sampled at wellpoints: DEP-6, DEP-7, DEP-8, DEP-12D, DEP-20, and DEP-21; at the DEP-10S & D wellpoint couplet; and at the DEP-19 S/M/D wellpoint triplet. Based on the limited groundwater data, it appears that two distinct chlorinated VOC contaminant signatures exist, one containing PCE, TCE, DCE, and DCA, at depths in the aquifer ranging from approximately 15 feet to 60 feet below grade; and one containing TCA, only, at greater depths in the aquifer (60 feet to 75 feet below grade). Specifically:

- Along Old Sudbury Road: TCA was detected at DEP-6 and DEP-7 at trace levels between 60 feet and 75 feet below grade, and at 1.2 ug/l at DEP-8 at 75 feet below grade. Wellpoints DEP-6, DEP-7, and DEP-8 are located along the Old Sudbury Road right of way, near public gardens land and between 500 feet to 1500 feet south and southeast of the supply wells (101 Old Sudbury Road). Please refer to “Table 2” for approximate distances of each wellpoint to the Baldwin Pond supply wells. TCA levels detected in groundwater sampled at these wellpoints were well below the MCP groundwater standard for TCA (200 ug/l).
- Town Conservation and Community Garden Land: PCE, TCE, and DCE were identified at Town Conservation land in groundwater sampled from the DEP-19 wellpoint triplet, and wellpoints DEP-20 and DEP-21. The highest levels of TCE, DCE, and PCE were detected at DEP-21, at estimated concentrations of 146 ug/l, 52 ug/l, and 2.3 ug/l, respectively. In addition, TCE levels at DEP-19, DEP-20, and DEP-21 were all detected above the MCP groundwater standard for TCE (5.0 ug/l), at 9.2 ug/l, 12 ug/l, and 146 ug/l, respectively. Wellpoints DEP-19, DEP-20, and DEP-21 are situated approximately 2400 to 2900 feet south by southeast of the Baldwin Pond supply wells, near the northern property boundary of the former Raytheon Facility at 430 Boston Post Road. Please refer to “Table 2” for approximate distances of each wellpoint from the Baldwin Pond supply wells. Concentrations ranging from trace to 4.8 ug/l of PCE, TCE, and DCA were also detected in groundwater approximately 1000 feet to the northwest of the former Raytheon Facility site's northern boundary, under the Town's community gardening area at the DEP-10 and DEP-12 wellpoint couplets. Wellpoint couplets DEP-10 and DEP-12 are situated approximately 2100 feet to the south of the Baldwin Pond supply wells. Contaminants detected at the community garden land are likely a continuation of the contaminants identified at the Town Conservation land.

The chlorinated VOC contaminants PCE, TCE, DCE, and TCA have also been identified in groundwater at the former Raytheon Facility, and it is the opinion of the writer that the contamination at the Town's conservation land and community gardening area is an extension of the former Raytheon Facility groundwater contamination. [Please refer to DEP/SD's “Memorandum” dated May 22, 2002, for more information on groundwater quality at the former Raytheon Facility.] The contamination appears to extend from the former Raytheon Facility's northern boundary for at least 1000 feet in a north/northwest direction, traveling under Town-owned conservation and public garden land, towards the Baldwin supply wells, and paralleling the Sudbury River. Although a continuous plume connecting the VOC contamination at the Baldwin Pond supply wells to a specific source was not identified by the field work, it is the opinion of the writer that the former Raytheon Facility site at 430 Boston Post Road

should be considered as a potential source of the chlorinated VOC contamination detected at the DEP wellpoints and the supply wells. Further assessment by Raytheon should be conducted to determine the extent of the chlorinated VOC contamination from their facility, and whether or not the contamination from their facility has impacted the Baldwin Pond supply wells.

Lastly, in addition to the chlorinated VOC contamination, VOCs associated with gasoline were also identified by the GC screening as MTBE and BTEX. Total BTEX levels were not identified in groundwater sampled at any DEP wellpoint location above trace levels and/or above their appropriate MCP reportable concentration standards. Trace levels of BTEX were identified in groundwater sampled at wellpoints DEP-2, DEP-10S, DEP-12S, DEP-16, DEP-17, and DEP-20. MTBE was identified at DEP-8 and DEP-5 at estimated concentrations of 112 ug/l and 25 ug/l, respectively. The safe drinking water guideline for MTBE is 70 ug/l. The MTBE concentration at DEP-8 would be the only location that this contaminant was tentatively detected in excess of its safe drinking water guideline.

Writer's Final Comments and Recommendations

Based on the results of DEP/SD's investigation thus far, it is the opinion of the writer that the former Raytheon Facility site at 430 Boston Post Road is a source of the chlorinated VOC contamination detected in groundwater within the Baldwin Pond Zone II, specifically, at the facility itself, and at the Town's conservation and community garden land. However, there is not enough information at this time to determine whether or not the site has contributed to the past chlorinated VOC contamination which has been infrequently detected at the Baldwin Pond supply wells since 1997. Additional assessment work within the Zone II is necessary in order to clearly define the horizontal and vertical extent of the chlorinated VOC plume(s) between the former Raytheon Facility site and the municipal supply wells. Furthermore, DEP does not routinely conduct groundwater elevation or survey activities as part of their assessment work, so any future assessment work should also include potentiometric information. Lastly, Wayland Cleaners and Launderers, Inc. facility at 298 Boston Post Road, was also identified during the 2001 DEP/SD reconnaissance as a potential past and/or present user of chlorinated VOCs and is located within the Zone II. On June 12, 2002, a Request For Information letter was sent to the current owner/operator of the facility to acquire information on past and present chemical use and disposal practices at this location. A response to the RFI letter from the owner was due to DEP on July 3, 2002 and is still pending at this time.

Regarding follow-up to the light-end petroleum contamination, two additional businesses were identified within close proximity to the supply wells during DEP/SD's reconnaissance; Lynch Landscape and Tree Service at 110 Old Sudbury Road, located approximately 800 feet to the southwest of the supply wells, and the Wayland Country Club at 121 Old Sudbury Road, located approximately 600 feet to the west of the supply wells. The writer has verbally contacted the Town Of Wayland's Fire Prevention Department to obtain any information they may have on record regarding fuel storage history at these two properties, as well as the Baldwin Pond supply well facility. Information from the Fire Prevention Department is also pending.

In light of the aforementioned information, the writer will conduct the following:

- 1) Request For Information letters will be sent to Lynch Landscape and Tree Service and the Wayland Country Club regarding the fuel oil issue.

- 2) Additional wellpoints will be installed within the Zone I of the Baldwin Pond wells at shallow depths in the groundwater (20 to 30 feet below grade) to assess for localized petroleum related contamination, and at deeper depths (60 feet below grade) to assess the chlorinated VOC contamination. The additional wellpoints and groundwater samples will be installed by the writer during the month of July 2002.

cc: James Persky/DEP NERO/BRP WS
Superintendent Donald Hollander, Baldwin Pond Facility, 101 Old Sudbury Road, Wayland,
MA 01778
Brian Monahan, Conservation Administrator, Town Hall, 41 Cochituate Road, Wayland, MA
01778
Andrew Irwin, Irwin Engineers, Inc., 5 Washington Street, Natick, MA 01760
Town Of Wayland – Public Repository, Wayland Public Library, Ms. Louise Brown, 5 Concord
Road, Wayland, MA 01778
Town Of Wayland – Public Repository, Board Of Health, Town Hall, 41 Cochituate Road,
Wayland, MA 01778
Mr. Edwin Madera, Environmental Restoration Program, Raytheon Company, 1001 Boston
Post Road, Mail Stop-1-2-1567, Marlborough, MA 01752-3789

Table 1: A History Of VOCs Detected At The Baldwin Pond Supply Wells

Compound	Concentration (ug/l)	Baldwin Pond Supply Well	RCGW-1 (ug/l)	
			Current	Proposed
1997				
(1,1,1)-trichloroethane	0.70 (trace)	#2	200	200
1998				
(1,1,1)-trichloroethane	0.70(trace)	#2	200	200
total xylenes	7.5	#1	6000	200
1999				
(1,2)-dichloroethane	1.3	#1	5.0	5.0
(1,1,1)-trichloroethane	0.40 (trace)	#2	200	200
(1,4)- dichloropropene	4.1	#1	5.0	no info
benzene	1.0	#1	5.0	5.0
toluene	4.2	#1	1000	1000
total xylenes	5.6	#1	6000	200
2000				
(1,1,1)-trichloroethane	1.1	#2	200	200
trichloroethene	1.1	#2	5.0	5.0
benzene	0.60 (trace)	#1	5.0	5.0
toluene	9.6	#1	1000	1000
ethylbenzene	0.50 (trace)	#1	700	700
total xylenes	9.0	#1	6000	200
naphthalene	2.0	#1	20	140
2001				
(1,1,1)-trichloroethane	0.60 (trace)	#1 & #2	200	200
methyl(t)butylether	2.2	#3	70	70
benzene	1.0	#1	5.0	5.0
toluene	12	#2	1000	1000
total xylenes	8.6	#2	6000	200
naphthalene	2.0	#2	20	140

TABLE 2: DEP Driven Wellpoint Installation Log (December 2001 through April 2002)

Wellpoint	Date of Installation	Final Depth (below grade)	Wellpoint Location and Approx. Distance From The Baldwin Pond Wells	VOC Sample Collection Depths (feet below grade)			
				25	45	55	-
DEP-1	12/04/01	55 feet (R)	Off of driveway to supply wells. 500 ft. west	25	45	55	-
DEP-2	12/10/01	21 feet (R)	Off of Old Sudbury Road 2500 feet south	21	-	-	-
DEP-3S DEP-3D	12/10/01 12/10/01	15 feet 65 feet	Off of Old Sudbury Road, near telepole # 52z 2000 feet south	- 50	- 65	- -	- -
DEP-4	12/12/01	54 feet (R)	Off of Old Sudbury Road 1000 feet south	20	40	54	-
DEP-5	12/12/01	65 feet	Off of Old Sudbury Road 500 feet southwest	30	50	65	-
DEP-6	12/19/01	75 feet	Off of Old Sudbury Road 500 feet south	40	60	75	-
DEP-7	12/19/01	75 feet	Off of Old Sudbury Road 900 feet southeast	40	60	75	-
DEP-8	12/26/01	75 feet	Off of Old Sudbury Road 1500 feet southeast	40	60	75	-
DEP-9	01/04/02	80 feet	Off of Public Garden access road 2100 feet southeast	40	60	80	-
DEP-10S DEP-10D	03/27/02 02/12/02	50 feet 70 feet	Off of Public Garden access road 2100 feet southeast	40 40	50 50	- 60	- 70
DEP-11	02/05/02	80 feet	Off of Public Garden access road 2200 feet south	20	60	80	-
DEP-12S DEP-12D	02/05/02 02/05/02	15 feet 80 feet	Off of Public Garden access road 2100 feet south	15 60	- 80	- -	- -
DEP-13	02/13/02	60 feet	Behind East Pond 500 feet north	60	-	-	-
DEP-14	02/13/02	44 feet (R)	Behind East Pond 500 feet north	40	-	-	-
DEP-15	02/13/02	60 feet	Behind East Pond 500 feet north	60	-	-	-
DEP-16	02/25/02	60 feet	Off of Bow Road 2500 feet southeast	30	40	50	60
DEP-17	02/25/02	59 feet (R)	Off of Bow Road 2700 feet southeast	30	40	50	59
DEP-18	03/06/02	50 feet (R)	Off of Old Sudbury Road 3000 feet southeast	30	40	50	-
DEP-19S DEP-19M DEP-19D	03/22/02 03/29/02 03/22/02	15 feet 40 feet 50 feet	Town conservation land off of Old Sudbury Road and behind 430 Boston Post Road 2900 feet south	15 30 20	- 40 30	- - 40	- - 50
DEP-20	03/22/02	50 feet	Town conservation land 2400 feet south	30	40	50	-
DEP-21	03/29/02	50 feet	Town conservation land 2800 feet south	30	40	50	-
DEP-22	04/19/02	60 feet	Near Baldwin Pond Well #3 36 feet south of Well #3	40	50	60	-
DEP-23	04/19/02	60 feet	Near Baldwin Pond Well #2 75 feet south of Well #1/2	40	50	60	-

(R) = Refusal of wellpoint advancement at that depth due to adverse geological formation and/or rock

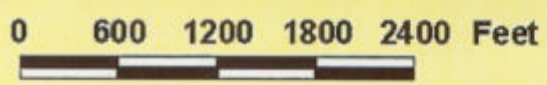
TABLE 3: 2001/2002 DEP Screening Results

Wellpoint I.D.	Depth (below grade)	DCA	DCE	TCA	TCE	PCE	M(t)BE	BTEX
DEP-1	25 feet	ND	ND	ND	ND	ND	ND	ND
	45 feet	ND	ND	ND	ND	ND	ND	ND
	55 feet	ND	ND	ND	ND	ND	ND	ND
DEP-2	21 feet	ND	ND	ND	ND	ND	ND	TR
DEP-3S	15 feet (NS)	ND	ND	ND	ND	ND	ND	ND
DEP-3D	50 feet	ND	ND	ND	ND	ND	ND	ND
	60 feet	ND	ND	ND	ND	ND	ND	ND
DEP-4	20 feet	ND	ND	ND	ND	ND	ND	ND
	54 feet	ND	ND	ND	ND	ND	ND	ND
DEP-5	30 feet	ND	ND	ND	ND	ND	ND	ND
	50 feet	ND	ND	ND	ND	ND	ND	ND
	65 feet	ND	ND	ND	ND	ND	25	ND
DEP-6	40 feet	ND	ND	ND	ND	ND	TR	ND
	60 feet	ND	ND	TR	ND	ND	ND	ND
	75 feet	ND	ND	ND	ND	ND	ND	ND
DEP-7	40 feet	ND	ND	ND	ND	ND	ND	ND
	60 feet	ND	ND	TR	ND	ND	TR	ND
	75 feet	ND	ND	TR	ND	ND	ND	ND
DEP-8	40 feet	ND	ND	ND	ND	TR	112	ND
	60 feet	ND	ND	TR	ND	ND	ND	ND
	75 feet	ND	ND	1.2	ND	ND	ND	ND
DEP-9	40 feet	ND	ND	ND	ND	ND	ND	ND
	60 feet	ND	ND	ND	ND	ND	ND	ND
	80 feet	ND	ND	ND	ND	ND	ND	ND
DEP-10S	40 feet	ND	ND	ND	ND	TR	ND	TR
	50 feet	1.4	4.8	ND	3.4	TR	ND	TR
DEP-10D	40 feet	ND	ND	ND	ND	TR	ND	ND
	50 feet	ND	TR	ND	TR	ND	ND	ND
	60 feet	ND	TR	ND	TR	TR	ND	ND
	70 feet	ND	ND	ND	ND	ND	ND	ND
DEP-11	20 feet	ND	ND	ND	ND	ND	ND	ND
	60 feet	ND	ND	ND	ND	ND	ND	ND
	80 feet	ND	ND	ND	ND	ND	ND	ND
DEP-12S	15 feet	ND	ND	ND	ND	ND	ND	TR
DEP-12D	60 feet	TR	TR	ND	TR	ND	ND	ND
	80 feet	ND	ND	ND	ND	ND	ND	ND
DEP-13	60 feet	ND	ND	ND	ND	ND	ND	ND
DEP-14	40 feet	ND	ND	ND	ND	ND	ND	ND
DEP-15	60 feet	ND	ND	ND	ND	ND	ND	ND
DEP-16	30 feet	ND	ND	ND	ND	ND	ND	TR
	40 feet	ND	ND	ND	ND	ND	ND	ND
	50 feet	ND	ND	ND	ND	ND	ND	ND
	60 feet	ND	ND	ND	ND	ND	ND	ND
DEP-17	30 feet	ND	ND	ND	ND	ND	ND	ND

Wellpoint I.D.	40 feet Depth (below grade)	ND DCA	ND DCE	ND TCA	ND TCE	ND PCE	ND M(t)BE	ND BTEX
DEP-17 (cont.)	50 feet 59 feet	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND TR
DEP-18	30 feet 40 feet 50 feet	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
DEP-19S	15 feet	ND	ND	ND	ND	TR	ND	ND
DEP-19M	30 feet 40 feet	ND TR	6.4 36	ND ND	2.9 7.1	TR TR	ND ND	ND ND
DEP-19D	30 feet 40 feet 50 feet	ND ND TR	10 38 4.3	ND ND ND	2.8 9.2 3.5	TR TR TR	ND ND ND	ND ND ND
DEP-20	30 feet 40 feet 50 feet	TR TR ND	6.2 TR TR	ND ND ND	12 TR TR	1.1 TR TR	ND ND ND	ND ND TR
DEP-21	30 feet 40 feet 50 feet	ND ND ND	ND 44 52	ND ND ND	TR 146 18	ND ND 2.3	ND 332(*) ND	ND ND ND
DEP-22	40 feet 50 feet 60 feet	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND
DEP-23	40 feet 50 feet 60 feet	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND	ND ND ND

(*) = M(t)BE may be a false positive, and response on the PID may be from a co-eluting unknown chlorinated VOC also detected on the ELCD at the same retention time @ 2.32 minutes.

TOWN OF WAYLAND-BALDWIN POND DEP-SD WELLFIELD PROJECT DECEMBER 2001 THRU APRIL 2002



VSA NO. V18N PROJ. ECTS/18/00 WYLA R 01.APR

**WAYLAND-BALDWIN POND WELLS
 SITE DISCOVERY RECON MAP
 NOVEMBER 2001**

0 500 1000 1500 2000 2500 Feet



STATE OF MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL AFFAIRS



- | | | |
|-----------------------------------|--------------------------------------|-------------------------------|
| 1. SHEPARD'S MOBIL | 5. DAVE STARMER GAS AND GARAGE | 9. WAYLAND COUNTRY CLUB |
| 2. WAYLAND DRY CLEANERS | 6. COOK'S AUTOMOTIVE SERVICE (CITGO) | 10. BALDWIN POND WWD FACILITY |
| 3. STATE ROAD AUTOBODY AND GARAGE | 7. FORMER RAYTHEON FACILITY | |
| 4. WAYLAND POWER AND EQUIPMENT | 8. LYNCH LANDSCAPE AND TREE SERVICE | |