PLATE 3. BASIC DATA FOR THE BARRE-MONTPELIER AREA, VERMONT

LOCATION OF DATA POINTS

TEST BORING INFORMATION

DESCRIPTION OF SELECTED WELLS

GROUND WATER RESOURCES OF THE BARRE-MONTPELIER AREA, VERMONT

BY

A. L. HODGES, JR., D. BUTTERFIELD, J. W. ASHLEY

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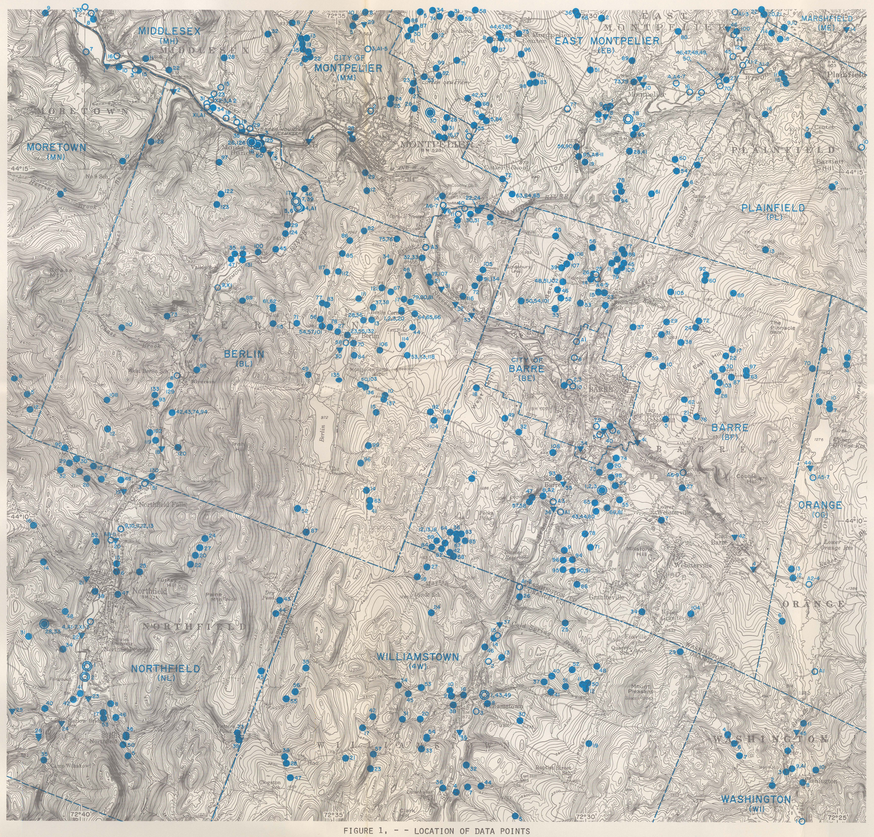

FIGURE 1. - - LOCATION OF DATA POINTS

EXPLANATION

WELL FINISHED IN BEDROCK

WELL FINISHED IN UNCONSOLIDATED DEPOSITS

PUBLIC WATER SUPPLY WELL

BORING: A - AUGER, X - MISCELLANEOUS

OBSERVATION WELL

SURFACE WATER QUALITY SAMPLING STATION

NUMBER INDICATES NUMBER OF WELL, BORING

(PLATE 1, TABLES 1 AND 2) OR WATER QUALITY

SAMPLING STATION (PLATE 1; TABLES 1 AND 2)

0 1 2 3 MILES

0 1000 2000 3000 4000 5000 FEET

0 0.5 1.0 1.5 2.0 2.5 KILOMETERS

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

BASE FROM U.S. GEOLOGICAL SURVEY TOPOGRAPHIC QUADRANGLES
MONTPELIER 1955, PLAINFIELD 1953, BARRE, EAST BARRE 1957

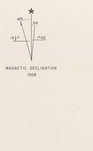

TABLE 1. - - DESCRIPTION OF SELECTED WELLS, TEST WELLS, AND BORINGS

WELL OR BORING NUMBER: LETTER PREFIX INDICATES--A, U.S. GEOLOGICAL SURVEY AUGER BORING; B, DRIGGS BORING; R, ROADWAY BORING; W, WELL OR TEST WELL; X, MISCELLANEOUS TEST BORING.

TYPE OF WELL: D, DRIVEN; B, BORED; DR, DRILLED; JW, JETTED; DG, DUG.

T.D. - TOTAL DEPTH REACHED

DEPTHS IN FEET BELOW LAND SURFACE

CITY OF BARRE (BR)

SANITARY LANDFILL

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 1	1 - 24				FILL. T.D. ON BEDROCK OR BOULDERS

SMITH, WHITCOMB & COXE COMPANY

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
W - 1	1 - 3				FINE SAND, BROWN, DRY
	3 - 11				FINE SAND, GRAYISH BROWN, DRY
	11 - 51				FINE SAND, SILTY SAND, CLAY & MINOR GRAVEL, WET
	51 - 57				FINE & MEDIUM SAND, CLAY & MINOR GRAVEL, MOIST
	57 - 112				SILTY FINE SAND, CLAY & MINOR GRAVEL, WET
	112 - 117				FINE & MEDIUM SAND, MINOR GRAVEL, DRY, WET
	117 - 121				CLAY, WET
	121 - 124				FILL. T.D. ON BEDROCK OR BOULDERS

BARRE TOWN (BT)

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 1	1 - 7	SOIL			
	7 - 11	SAND, BROWN			
	11 - 14	FILL, CLAY, DRY			
	14 - 16	SAND, DRY. T.D. ON BEDROCK OR BOULDER			

EMMONSBURG ROAD RIGHT-OF-WAY

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 2	1 - 12	SOIL			
	12 - 17	FINE TO VERY FINE SAND, GRAY-BROWN			
	17 - 30	FINE TO VERY FINE SAND, GRAY-BROWN, SOME MEDIUM TO COARSE SAND			
	30 - 41	FILL, GRAY			
A - 3	1 - 7	TOP SOIL AND FILL			
	7 - 17	FINE SAND, GRAYISH BROWN			
	17 - 41	VERY FINE TO FINE SAND, SOME MEDIUM SAND, MINOR SILT & STONES, YELLOW-BROWN			
	41 - 46	FINE TO MEDIUM SAND, GRAY, SOME COARSE SAND, SLIGHTLY GRAVEL			
	46 - 48	SANDY GRAVEL, GRAY (WARREN TILL)			
	48 - 51	FINE SAND, GRAY			
	51 - 60	FINE SAND, GRAY, WET			
	60 - 63	FILL, GRAY. T.D. ON BEDROCK OR BOULDER			

ALEX LAFLEUCHER PROPERTY

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 4	1 - 10				
	10 - 21	FINE AND VERY FINE SAND, YELLOW, BROWN, SOME MEDIUM SAND, MOIST TO WET			
	21 - 27	VERY FINE SAND, YELLOW-BROWN, SILT AND CLAY, MOIST TO WET			
	27 - 29	FINE SAND, GRAYISH TO SILTY, YELLOW-BROWN WITH CONCRETIONS, WET			
	29 - 79	SILT AND VERY FINE TO COARSE SHARP SAND, MINOR GRAVEL, WET			
	79 - 81	FILL, BROWN TO BLUE-GRAY			
A - 5	1 - 17	SILT AND VERY FINE SAND, YELLOW-BROWN, MOIST TO WET			
	17 - 21	SILT AND VERY FINE SAND, GRAY-BROWN			
	21 - 27	FINE SAND, GRAYISH BROWN, SOME COARSE GRAVEL AT 24 FEET			
	27 - 42	FILL AND VERY FINE SAND, BROWN, WITH CONCRETIONS, WET			
	42 - 82	SILT TO FINE SAND, GRAY-BROWN, SOME MEDIUM TO COARSE SAND, WET			
	82 - 87	SILTY GRAVEL, GRAY-BROWN			
	87 - 102	FINE SAND, GRAYISH BROWN, WITH COARSE SAND FRAGMENTS			
	102 - 105	SILTY SAND, BROWN, TILL			
	105 - 108	SANDY, SILTY CLAYEY TILL, BROWN			
A - 6	1 - 24				
	24 - 27	BOULDERS AND SAND AND GRAVEL			
A - 7	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 8	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 9	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 10	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 11	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 12	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			
A - 13	1 - 9				
	9 - 14	BOULDERS AND SAND AND GRAVEL			

BERLIN (BL)

JOHNSON-WILTON COMPANY

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 1	1 - 7	FINE SAND, BROWN AND GRAY			
	7 - 11	GRAVEL WITH BROWN SAND & SILT			
	11 - 41	VERY FINE SAND, SILT, SHIFT			
	41 - 51	BEDROCK IN BORING			

STATE HIGHWAY DEPARTMENT MAGAZIN

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 2	1 - 7	TOP SOIL			
	7 - 11	FINE TO VERY FINE SAND, GRAY			
	11 - 17	SAND, FINE TO MEDIUM, GRAY-BROWN, WET			
	17 - 21	SAND, FINE TO MEDIUM, GRAY, WET			
	21 - 24	FINE SAND, GRAY, MOIST TO WET			
	24 - 31	FILL, GRAY, SILTY CLAY			
	31 - 41	FINE SAND, GRAY, SILTY CLAY			

CENTRAL VERMONT RAILWAY, INC.

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
W - 8	1 - 7	SOIL			
	7 - 11	FINE TO VERY FINE SAND, GRAY			
	11 - 17	FINE SAND, SOME COARSE SAND AND GRAVEL, GRAY, WET			
	17 - 21	FINE SAND, GRAY			
	21 - 31	FINE SAND, SOME COARSE SAND & GRAVEL, GRAY, WET			
	31 - 41	FINE SAND TO FINE GRAVEL, GRAY, WET			
	41 - 51	FINE SAND TO FINE GRAVEL, SHARP, WET			
	51 - 61	FINE SAND TO FINE GRAVEL, GRAY, WET			
	61 - 71	FINE SAND, SOME COARSE SAND, GRAY, WET			
	71 - 75	FINE SAND, GRAY, WET			
	75 - 85	FILL. T.D. ON BEDROCK OR BOULDERS			
W - 49	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 17	FINE SAND, SOME COARSE SAND AND GRAVEL, GRAY, WET			
	17 - 21	FINE SAND, GRAY, WET			
	21 - 31	FINE SAND TO FINE GRAVEL, SHARP, WET			
	31 - 41	FINE SAND TO FINE GRAVEL, GRAY, WET			
	41 - 51	FINE SAND, GRAY, WET			
	51 - 61	FINE SAND TO FINE GRAVEL, GRAY, WET			
	61 - 71	FINE SAND, GRAY, WET			
	71 - 75	FINE SAND, GRAY, WET			
	75 - 85	FILL. T.D. ON BEDROCK OR BOULDERS			

CITY OF MONTPELIER (MW)

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
W - 1	1 - 7				
	7 - 11	FINE SAND, GRAY			
	11 - 17	FINE SAND, SOME COARSE SAND AND GRAVEL, GRAY, WET			
	17 - 21	FINE SAND, GRAY			
	21 - 31	FINE SAND TO FINE GRAVEL, SHARP, WET			
	31 - 41	FINE SAND TO FINE GRAVEL, GRAY, WET			
	41 - 51	FINE SAND, GRAY, WET			
	51 - 61	FINE SAND TO FINE GRAVEL, GRAY, WET			
	61 - 71	FINE SAND, GRAY, WET			
	71 - 75	FINE SAND, GRAY, WET			
	75 - 85	FILL. T.D. ON BEDROCK OR BOULDERS			
W - 48	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 17	FINE SAND, SOME COARSE SAND AND GRAVEL, GRAY, WET			
	17 - 21	FINE SAND, GRAY, WET			
	21 - 31	FINE SAND TO FINE GRAVEL, SHARP, WET			
	31 - 41	FINE SAND TO FINE GRAVEL, GRAY, WET			
	41 - 51	FINE SAND, GRAY, WET			
	51 - 61	FINE SAND TO FINE GRAVEL, GRAY, WET			
	61 - 71	FINE SAND, GRAY, WET			
	71 - 75	FINE SAND, GRAY, WET			
	75 - 85	FILL. T.D. ON BEDROCK OR BOULDERS			

ROBERT MORSE FARM

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 1	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAYISH BROWN, WET			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 2	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 3	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 4	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 5	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 6	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			

MORRIS C. WYMAN FARM

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 4	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 5	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 6	1 - 7	SOIL			
	7 - 11	FINE SAND, GRAY			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			

MORSE'S POND

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 1	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 2	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 3	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 4	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 5	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			
A - 6	1 - 7	SOIL			
	7 - 11	FINE SAND, BROWN			
	11 - 14	FILL. T.D. ON BEDROCK OR BOULDERS			

DUTTON CONCRETE COMPANY

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
A - 6	1 - 7				
	7 - 11	FILL, BROWN			
	11 - 14	FILL, SILTY, GRAY-BROWN, MOIST TO WET			
A - 7	1 - 7				
	7 - 11	FILL			
	11 - 14	FINE TO VERY FINE SAND & SILT, BROWN, MOIST			
A - 8	1 - 7	FILL			
	7 - 11	FILL, GRAY			
	11 - 14	FILL, GRAY, DRY. T.D. ON BEDROCK OR BOULDER			

East Montpelier (EM)--Continued

Local well number	Altitude of land surface (ft)	Type of well	Depth to bedrock (ft)	Depth to water (ft)	Remarks
W - 10	0 - 4				
	4 - 7	CLAY AND SILT (FILL AND SLUMP)			
	7 - 10	SAND, FINE TO MEDIUM, BROWN			
	10 - 16	SILTY FINE SAND, GRAYISH-BROWN, WITH NON-ANGULAR STONES			
	16 - 31	FINE SAND, GRAY-BROWN			
	31 - 35	SILTY FINE SAND, GRAY, WET			
	35 - 39	FINE SAND, GRAY			
	39 - 45	FINE SAND AND SILT WITH SOME CLAY AND VERY FINE SAND			
	45 - 49	FINE SAND, GRAY, WET			
	49 - 55	FINE SAND AND SILT, GRAY			
	55 - 65	FINE SAND AND SILT, GRAY, WET			
	65 - 70	FINE SAND AND SILT, GRAY, WITH A FEW SHARP STONES, WET			
	70 - 75	MEDIUM AND COARSE SAND. T.D. WITH RAINBOW			
	75 - 79	SAND, MEDIUM TO COARSE SAND AND FINE GRAVEL WITH CONCRETIONS OF LIMESTONE AS ATTACHED FRAGMENTS. T.D. WITH RAINBOW			
	79 - 85				
	85 - 90				
	90 - 95				
	95 - 100				
	100 -