

**REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK**

INTRODUCTION

The Town of Woodbury's municipal water system consists of the Consolidated Water District and the Amdur Park Water District (District 6), which was previously a small private community water system acquired by the Town in 1978.

EXISTING WATER SUPPLY SYSTEMS

Consolidated Water District

The Town consolidated previous Water Districts 1, 2, 3, 4 and 5 to form the Consolidated Water District.

Well Supply in Service

Mr. Scott McClelland, Water Superintendent, reported that the Town Consolidated Water District currently operates three production wells completed in the sand and gravel aquifers. The locations of these wells are shown on the Groundwater Inventory Map ("GIM"). The present well-yield capacities and available well data are presented on Tables 1 and 2A.

Well Supply Not in Service

Well 4 (GIM, Well WB-4) is a sand and gravel well completed in 1978, but which was abandoned shortly after being placed into service due to poor water quality. The well is reported to discharge dark, cloudy water into the system, likely a result of high iron and/or manganese in the ground water. Detailed well data are presented on Tables 1 and 2A.

Proposed Well Supply Not in Service

In 1992, the Town of Woodbury developed a surplus water supply from three bedrock wells: Hunter Road Well (GIM, Well WB-9), Niemand Well (GIM, Well WB-10) and Pine Hill Road Well (GIM, Well WB-11) (LBG, 1992). The locations of these wells are shown on the GIM, and detailed well data are presented on Table 1.

Mr. McClelland indicated that the Town plans to place the Pine Hill Road Well in service in 1994. The

Hunter Road Well and Niemand Well will be developed as needed at sometime in the future.

Amdur Park Water District

Amdur Park Water District originally was a small private community water supply system; however, since 1978, the Town has owned and operated the system. The Amdur Park Water District was formerly Water District 6.

Well Supply in Service

The Town presently operates two wells (Wells 1 and 4) for the Amdur Park Water District (McClelland, 1993). Well 1 (GIM, Well WB-5) is in service, but is utilized on a standby basis only. Well 4 (GIM, Well WB-8) is the best well in service, has the highest yield capacity, and is utilized on a daily basis as the main source of supply. Wells 1 and 4 are completed in the bedrock aquifer. The well locations are shown on the GIM, and well data are presented on Tables 1 and 2B. Wells 1 and 4 cannot be pumped simultaneously due to water treatment facility restrictions. The water treatment plant can only process about 26 gpm (gallons per minute).

Well Supply Not in Service

Wells 2 and 3 (GIM, Wells WB-7 and WB-8, respectively), also completed in the bedrock aquifer, have been abandoned due to bacterial contamination. The bacterial contamination is likely due to adjacent domestic underground septic systems (McClelland, 1993). The well locations are shown on the GIM and well data are presented on Table 1.

PROPOSED COMMUNITY WATER-SUPPLY SYSTEMS

The following are proposed community water-supply systems in the Town of Woodbury.

Rushmore Subdivision

The Rushmore Subdivision would consist of 240 single-family homes. With an estimated three bedrooms per house, the project would have an average water demand of about 72,000 gpd (gallons per day), or 50 gpm (LBG, 1987).

Well locations for the Rushmore Subdivision are located on the GIM (Wells WB-13, WB-14 and WB-15), and the well data are presented on Table 1. Considering the water demands of the project and New York State Department of Health (NYSDOH) guidelines regarding development of two independent sources of supply, each capable of delivering the estimated demand of the system, the subdivision would require development of at least 100 gpm of capacity. Further, the wells are completed in the bedrock and at least one well yields less than 50 gpm; therefore, the NYSDOH guidelines require development of double the daily demand with the best well out of service (LBG, 1987). The maximum developed capacity from the three wells is about 150 gpm. Considering the supply required to meet the NYSDOH guidelines for the project, surplus water available from the three wells would be about 50 gpm.

Highland Lake Estates

The estimated water demand for the Highland Lake Estates development is 80,000 gpd, with the NYSDOH requiring a total well capacity of 112 gpm, with the best well out of service. A combination of sand and gravel and bedrock wells will be utilized to develop and sustain the required supply from a total of seven wells (LBG, 1989).

The locations of the wells for the Highland Lake Estates are shown on the GIM (Wells WB-16 through WB-22), and well data are presented on Table 1. Considering the supply required to meet the NYSDOH guideline for the project, there would be about 35 to 40 gpm of surplus water.

Woodbury Heights Estates

Woodbury Heights Estates plans to construct 67 clustered lots for residential development. The estimated water demand for the project is about 20,100 gpd, or about 14 gpm. The NYSDOH requires a total well capacity of about 28 gpm. Two bedrock wells will be utilized to develop the required supply.

The locations of the Woodbury Heights Estates wells are shown on the GIM (Wells WB-23 and WB-24), and well data are presented on Table 1. The Town of Woodbury has proposed that the water system to be developed for Woodbury Heights Estates should also serve new homes projected for development in the area. Including Woodbury Heights Estates, this represents approximately 150± residential units. Assuming a peak demand of 150 percent of the average daily requirement, the proposed water district would require a water supply of 50 gpm (Malcolm Pirnie, Inc., 1988). However, to meet the NYSDOH guideline, additional well(s) will likely be required to meet the required demands of the additional development projected above.

The Greens of Woodbury

The Greens of Woodbury has a maximum expected average daily water demand of 25,500 gpd, or about 17.7 gpm. The water-supply development for the proposed subdivision involved the drilling of three wells (LBG, 1991). Two wells are proposed to be developed to meet the required water demands and to meet the NYSDOH's guidelines requiring a total well capacity of about 35.5 gpm.

The locations of the wells for the Greens of Woodbury are shown on the GIM (Wells WB-25 and WB-26), and well data are presented on Table 1. Considering the supply required to meet the NYSDOH guidelines for the project, the surplus water available is estimated to be about 65 gpm.

WATER SUPPLY DEMAND

Consolidated Water District

The present supply meets the estimated average daily water demand of 0.96 mgd (million gallons per day) and estimated maximum daily water demand of 1.1 mgd (peak summer water demand) with the three existing sand and gravel wells in service. The average maximum yield capacities of the three existing wells in service are estimated to be about 1.0 and 1.3 mgd, respectively. However, to meet the peak summer demands, the three existing wells are pumped continuously on a daily basis, not allowing the wells to recover in off-peak hours. With Well 1, the best well, out of service, the system is not capable of meeting peak summer demands. Data are summarized on Table 3.

Three bedrock wells recently drilled and tested will be developed in the future on an as-needed basis. The Pine Hill Well is scheduled to be placed in service in the next year. The Hunter Road Well and Niemand Well will be placed in service over the next several years. The estimated combined yield of the three bedrock wells is approximately 1.0 mgd.

Amdur Park Water District

The present supply meets the estimated average daily water demand of 13,000 gpd and marginally meets the estimated maximum daily water demand of 29,000 gpd with the two existing bedrock wells in service. The average and maximum yield capacities of the two existing wells in service are about 13,000 gpd and about 18,250 gpd, respectively. However, the existing water treatment facility is not able to treat both wells pumping simultaneously. Well 4 is utilized as the main supply well and is capable of meeting the average daily water demand and marginally able to meet maximum daily water demands. Well 1 is capable of marginally meeting average daily water demands; however, it is not able to meet maximum daily water demands. With Well 4, the best well, out of service, the system is not capable of meeting peak summer water demands. Data are summarized on Table 3.

The Town presently is scheduling the drilling of additional well(s) for the Amdur Park Water District to develop a reliable backup supply capable of meeting both average and maximum daily water demands. In addition, the Town is considering upgrading the water treatment facility.

Projected Water Demands

Table 4 indicates that the existing and proposed Consolidated and Amdur Park Water Districts wells will have an estimated maximum yield capacity of about 2.3 mgd. The projected water demand for the Town to the year 2020 is estimated to be about 1.6 mgd, and the Town's existing and proposed supply will likely have a combined yield capacity up to 2.3 mgd. Therefore, at the year 2020, the Town will likely have a substantial water-supply surplus, estimated to be about 0.7 mgd. If you consider the water supplies developed for the proposed community water-supply systems, the surplus water available is substantially greater.

INVENTORY OF GROUND-WATER CONTAMINATION PROBLEMS

Existing Ground-Water Contamination Problems

LBG reviewed existing known ground-water contamination sites, including New York State Department of Environmental Conservation (NYSDEC) inactive hazardous waste sites, remediation projects (NYSDEC Spill Response), solid waste sites, and RCRA sites for the Town of Woodbury. The information was provided by Lawler, Matusky and Skelly Engineers (LMS) and gathered from a Freedom of Information Law (FOIL) request from the NYSDEC. The FOIL request from the NYSDEC did not inventory any sites for the above categories, which are known to have contaminated ground water in the Town of Woodbury.

Potential Ground-Water Contamination Problems

Information about potential ground-water contamination sites was obtained from:

- ! FOIL request to NYSDEC (LMS, 1993); and
- ! Land use data from the Orange County, New York Real Property Tax Assessment data base (Space Track, 1993).

The following summarizes the potential ground-water contamination sites, including the NYSDEC's potential inactive hazardous waste sites and solid waste facility from the FOIL request from the NYSDEC. In addition, a list of possible ground-water contamination sites has been developed by LBG in conjunction with Town personnel (McClennan, 1993). The following sites were inventoried and are shown on the GIM.

Town of Woodbury C&D Disposal Site

No specific information available. Site is located northeast of Highland Mills between Route 32 and CONRAIL tracks (LMS, 1993).

Youmans Flats Sanitary Landfill

No specific information available. Site is located in Harriman State Park in the southern portion of the Town, west of Seven Lakes Road (LMS, 1993).

Town Landfill-Septic Disposal Site

Inactive Town landfill for sanitary waste and septic waste disposal. The site is north of Ridge Road and east of Earl Reservoir (McClennan, 1993).

Town Landfill Site

Inactive Town landfill for sanitary waste. The site is located at the end of Hunter Road, adjacent to the Hunter Road well field (McLennan, 1993).

Private Landfill

Inactive private landfill for sanitary waste. The site is north of Pine Hill Road (McClennan, 1993).

Private Septic Disposal Lagoons

Inactive private septic disposal site. Waste was reported to be disposed of in holding lagoons. The site is located west of the New York State Thruway (I-87), between Route 32 and the Thruway in the southern portion of the Town (McClennan, 1993).

Town Salt Storage

Town Highway Department salt storage location. The salt storage area is uncovered and will be covered by the end of 1993. The salt storage is located between Route 105 and Rutledge Road (McClennan, 1993).

Town Sewage Treatment Facility

Town sewage treatment facility located on Washington Drive, adjacent to Mineral Spring Brook. Treated effluent is discharged into Mineral Spring Brook (McClennan, 1993).

General Bearing Cleaning Company

The former facility reportedly used cleaning solvents. The site is located on Park Avenue (McClennan, 1993).

Each property in Orange County has a land use code number. Properties with land use code numbers associated with potential contamination of ground water were identified through analysis of the Real Property Tax Assessment data base by Space Track, Inc. The types of land uses in the potential contamination category include:

- ! industrial facilities;
- ! gas stations;
- ! dry cleaners, and
- ! auto repair facilities.

Where possible, approximate locations of these sites are shown as triangles on the GIM.

Petroleum-Bulk Storage Facilities

The FOIL's request from the NYSDEC intensioned the following Petroleum Bulk Storage Facilities presented on Table 5.

The above sites are listed as potential ground-water contamination sites. Further investigations would be required to determine if contamination exists at the respective locations.

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MAP

Groundwater Inventory Map ("GIM")

**REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK**

Prepared For

Orange County Water Authority

June 1994

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TABLE 1
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality Section -- Block -- Lot	Map Location ----- I.D. #	Well Status	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
Well 1 ----- Consolidated District	Woodbury 20 -- 6 -- 2	Woodbury ----- 1	In service ----- active	820 ----- 450	115	12	71	44 ---- 71-115	Sand and gravel	1960	Best well in service
Well 2 ----- Consolidated District	Woodbury 20 -- 6 -- 2	Woodbury ----- 2	In service ----- active	200 ----- 200	130	12	NA	NA ---- NA	Sand and gravel	1960	
Well 3 ----- Consolidated District	Woodbury 20 -- 6 -- 2	Woodbury ----- 3	In service ----- active	350 ----- 300	76	12	56	20 ----- 56-76	Sand and gravel	1970	
Well 4 ----- Consolidated District	Woodbury 18 -- 2 -- 15.1	Woodbury ----- 4	Inactive ----- equipped	95 ----- --	95	12	80	15 ----- 80-95	Sand and gravel	1978	Abandoned

**TABLE 1
(continued)**

**REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK**

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality Section -- Block -- Lot	Map Location ----- I.D. #	Well Status -----	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
Well 1 ----- Amdur Park	Woodbury 13 -- 1 -- 6	Woodbury ----- 5	In service ----- standby	75 ----- less than 20	300	8	NA		Bedrock	1949	Back-up supply
Well 2 ----- Amdur Park	Woodbury 13 -- 1 -- 3.2	Woodbury ----- 6	Abandoned	NA ----- NA	NA	6	NA		Bedrock	NA	Abandoned due to bacteria contamination
Well 3 ----- Amdur Park	Woodbury 3 -- 1 -- 3.2	Woodbury ----- 7	Abandoned	NA ----- NA	190	6	NA		Bedrock	NA	Abandoned due to bacterial contamination
Well 4 ----- Amdur Park	Woodbury 13 -- 1 -- 3.2	Woodbury ----- 8	In service ----- active	90 ----- 26	400	6	NA		Bedrock	1978	Best well in service

TABLE 1
(continued)

REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality -- Block -- Lot	Map Location ----- I.D. #	Well Status	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
Hunter Road ----- Consolidated District	Woodbury 20 -- 6 -- 2	Woodbury ----- 9	Inactive ----- not equipped	200 ----- --	500	8	120		Bedrock	1992	Proposed community water supply
Niemand Well ----- Consolidated District	Woodbury 18 -- 1 -- 18.22	Woodbury ----- 10	Inactive ----- not equipped	300 ----- --	600	8	135		Bedrock	1992	Proposed community water supply
Pine Hill Road ----- Consolidated District	Woodbury 20 -- 6 -- 8.2	Woodbury ----- 11	Inactive ----- not equipped	200 ----- --	500	8	101		Bedrock	1992	In service 1994
Hollet Avenue ----- Consolidated District	Woodbury 18 -- 2 -- 15.1	Woodbury ----- 12	Inactive ----- not equipped	100 ----- --	465	8	160		Bedrock	1992	Yield estimated during drilling well collapsed.

TABLE 1
(continued)

REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality -- Block -- Lot	Map Location ----- I.D. #	Well Status	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
PW-1 ----- Rushmore Subdivision	Woodbury 2 -- 1 -- 63	Woodbury ----- 13	Inactive ----- not equipped	147 ----- --	307	6	35		Bedrock	1987	Proposed community water supply
PW-2 ----- Rushmore Subdivision	Woodbury 2 -- 1 -- 63	Woodbury ----- 14	Inactive ----- not equipped	70 ----- --	405	6	30		Bedrock	1987	Proposed community water supply
PW-3 ----- Rushmore Subdivision	Woodbury 2 -- 1 -- 2.21	Woodbury ----- 15	Inactive ----- not equipped	34 ----- --	505	6	60		bedrock	1987	Proposed community water supply
TW-1 ----- Highland Lake Estates	Woodbury 13 -- 1 -- 20.22	Woodbury ----- 16	Inactive ----- not equipped	25 ----- --	56	8	40	20 ----- 40-56	Sand and gravel	1987	Proposed community water supply

**TABLE 1
(continued)**

**REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK**

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality -- Block -- Lot	Map Location ----- I.D. #	Well Status -----	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
BRW-1 ----- Highland Lake Estates	Woodbury 13 -- 1 -- 20.21	Woodbury ----- 17	Inactive ----- not equipped	20 ----- --	450	6	285		Bedrock	1949	Proposed community water supply
BRW-2 ----- Highland Lake Estates	Woodbury 13 -- 1 -- 20.21	Woodbury ----- 18	Inactive ----- not equipped	15 ----- --	260	8	2		Bedrock	1937	Proposed community water supply
BRW-3 ----- Highland Lake Estates	Woodbury 13 -- 1 -- 20.21	Woodbury ----- 19	Inactive ----- not equipped	30 ----- --	600	8	2		Bedrock	1960	Proposed community water supply
BRW-4 ----- Highland Lake Estates	Woodbury 16 -- 5 -- 27.1	Woodbury ----- 20	Inactive ----- not equipped	120 ----- --	400	6	40		Bedrock	1987	Proposed community water supply

TABLE 1
(continued)

REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality Section -- Block -- Lot	Map Location ----- I.D. #	Well Status ----- Well Status	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
BRW-5 ----- Highland Lake Estates	Woodbury 16 -- 5 -- 27.1	Woodbury ----- 21	Inactive ----- not equipped	9 ----- --	500	6	40		Bedrock	1987	Proposed community water supply
BRW-6 ----- Highland Lake Estates	Woodbury 16 -- 5 -- 27.1	Woodbury ----- 22	Inactive ----- not equipped	60 ----- --	500	6	40	--	Bedrock	1987	Proposed community water supply
Test Well 4 ----- Woodbury Heights Es- tates	Woodbury 4 -- 1 -- 4	Woodbury ----- 23	Inactive ----- not equipped	50 ----- --	465	6	20	--	Bedrock	1987	Proposed community water supply
Test Well 5 ----- Woodbury Heights Es- tates	Woodbury 4 -- 1 -- 4	Woodbury ----- 24	Inactive ----- not equipped	50 ----- --	575	6	37	--	Bedrock	1987	Proposed community water supply

**TABLE 1
(continued)**

**REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK**

Summary of Available Well Data

Well ----- Water District	Tax Map Municipality Section ----- Block ----- Lot	Map Location ----- I.D. #	Well Status -----	Reported Yield (gpm) Original ----- Present	Depth of Well (feet)	Well Diameter (inches)	Length of Casing (feet)	Well Screen Length (feet) ----- Setting Interval (feet)	Aquifer	Date Drilled	Comments
Well 1 ----- Greens of Woodbury	Woodbury 18 ----- 2 ----- 85.22	Woodbury ----- 25	Inactive ----- not equipped	60 ----- --	425	6	63	--	Bedrock	1988	Proposed community water supply
Well 3 ----- Greens of Woodbury	Woodbury 18 ----- 2 ----- 85.22	Woodbury ----- 26	Inactive ----- not equipped	100 ----- --	354	6	110	--	Bedrock	1988	Proposed community water supply

gpm - Gallons per minute. Well Status:
 NA - Not available. In service - active
 In service - stand by
 Inactive - equipped
 Inactive - not equipped
 Abandoned

TABLE 2A
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Well Yield Capacities
Consolidated Water District

Well ----- Water District	WSA No. ----- Permitted Yield (gpm)	Average Yield Capacity (gpm) ----- (gpd)	Maximum Yield Capacity (gpm) ----- (gpd)	Comments
Well 1 ----- Consolidated Water District	4030 ----- 450	450 ----- 464,500	450 ----- 566,000	Best well in service
Well 2 ----- Consolidated Water District	4030 ----- 200	200 ----- 258,600	200 ----- 453,700	
Well 3 ----- Consolidated Water District	5996 ----- 400	300 ----- 292,100	300 ----- 317,750	
Well 4 ----- Consolidated Water District	7142 ----- 190	-- ----- --	-- ----- --	Abandoned.
TOTALS	(Total Permitted Yield) 1,240 gpm	(Total Yield Capacity) 950 ----- 1,000,000	(Total Maximum Yield Capacity) 950 ----- 1,300,000	

gpm - Gallons per minute.
gpd - Gallons per day.

WSA No. - Water Supply Application Number.

OCWA.TBL/OCWA

TABLE 2B
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Well Yield Capacities
Amdur Park Water District

Well ----- Water District	WSA No. ----- Permitted Yield (gpm)	Average Yield Capacity (gpm) ----- (gpd)	Maximum Yield Capacity (gpm) ----- (gpd)	Comments
Well 1 ----- Amdur Park	6873 ----- 75	18 ----- 8,000	18 ----- 10,500	Back-up supply.
Well 2 ----- Amdur Park	6873 ----- 60	-- ----- --	-- ----- --	Abandoned.
Well 3 ----- Amdur Park	3254 ----- NA	-- ----- --	-- ----- --	Abandoned.
Well 4 ----- Amdur Park	7034 ----- 60	26 ----- 13,000	26 ----- 18,250	Main supply well. Wells 1 and 2 cannot be pumped si- multaneously.
TOTALS	(Total Permitted Yield) 60* gpm	(Total Yield Capacity) 44 ----- 21,000	(Total Maximum Yield Capacity) 44 ----- 28,750	

gpm - Gallons per minute.
gpd - Gallons per day.
NA - Not available.

WSA No. - Water Supply Application Number.
* Maximum withdrawal permitted.

OCWA.TBL/OCWA

TABLE 4
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Project Water Demand
1993 - 2020
(mgd)

Water District	Current Maximum Yield Capacity (mgd)	Current and Proposed* Maximum Yield Capacity (mgd)	1993 Projected Water Demand ----- Water-Supply Adequacy**	2000 Projected Water Demand ----- Water-Supply Adequacy** or ***	2010 Projected Water Demand ----- Water-Supply Adequacy** or ***	2020 Projected Water Demand ----- Water-Supply Adequacy** or ***
Woodbury ^{1/}	1.3	2.3	.97 ----- + 0.33**	1.15 ----- + 1.15***	1.35 ----- + 0.95***	1.6 ----- + 0.70***
TOTAL	1.3	2.3	.97 ----- + 0.33**	1.15 ----- + 1.15***	1.35 ----- + 0.95***	1.6 ----- + 0.70***

^{1/} Both Consolidated and Amdur Park Water Districts.

mgd - Million gallons per day.

* Combined yield capacity of both current and proposed water supply(s).

** Calculated by current maximum yield capacity minus projected water demands.

*** Calculated by current and proposed maximum yield capacity minus projected water demands.

+ Surplus water supply, mgd.

- Water supply deficiency (mgd).

COMMENTS:

! Data indicates that with current and proposed maximum yield capacity, the Town will likely meet projected water demand up to the year 2020.

OCWA.TBL/OCWA

TABLE 3
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Summary of Water-Supply Source

The Town of Woodbury utilizes three existing high yielding sand and gravel wells to meet the demands of Consolidated Water District. In addition, the Town operates and owns Amdur Park Water District, a small community water system which utilizes two existing bedrock wells.

Existing Source

	Water District	Ground Water (mgd)
Current Average Daily Water Demand	Consolidated Water District Amdur Park	0.96 <u>0.013</u> Total 0.97
Current Maximum Daily Water Demand	Consolidated Water District Amdur Park	1.10 <u>0.029</u> Total 1.1
Maximum Yield Capacity	Consolidated Water District Amdur Park	1.3 <u>0.018</u> Total 1.3
Average Yield Capacity	Consolidated Water District Amdur Park	0.96 <u>0.013</u> Total 0.97
Proposed Sources (Average Day)		1.0
TOTAL MAXIMUM YIELD CAPACITY (MGD) = -----		1.3 -----
CURRENT MAXIMUM DAILY WATER DEMAND (MGD) =		1.1

mgd - Million gallons per day.

COMMENTS

- ! Amdur Park Water District cannot presently meet maximum daily water demands, additional well supply(s) are presently being considered for development.
- ! Proposed sources: Three bedrock wells for the Consolidated Water District having a total maximum yield capacity of about 1 mgd. One or two of the bedrock wells is scheduled to be placed in service by 1994.
- ! The Consolidation Water District can meet present average and maximum daily water demands from the maximum yield capacity of existing wells. However, during low precipitation in summer months, the existing wells marginally meet peak summer water demands.

TABLE 5
REGIONAL GROUND-WATER STUDY
TOWN OF WOODBURY
ORANGE COUNTY, NEW YORK

Petroleum Bulk Storage Facilities

Facility name	Location	Municipality
Atlantic Refining #0364-0745	Rt. 32 & Dunderberg Rd.	Central Valley-Woodbury
Central Valley Elementary School.	Smithclove Rd.	Central Valley-Woodbury
Central Valley Sunoco	141 Rt. 32	Central Valley-Woodbury
H. Reynolds & Son, Inc.	Laura Rd.	Central Valley-Woodbury
Harriman Exxon #8778	Rt. 's 17, 6 & 32	Central Valley-Woodbury
Highland Telephone Co.	Rt. 32	Central Valley-Woodbury
Mobil S/S 06GNT Woodbury Service	Rt. 31	Central Valley-Woodbury
Monroe-Woodbury High School	Dunderberg Rd.	Central Valley-Woodbury
Monroe-Woodbury Middle School	Rt. 32	Central Valley-Woodbury
Monroe-Woodbury-Education Center	Rt. 32	Central Valley-Woodbury
Olsen-Todd Olds Cadillac, Inc.	Rt. 32	Central Valley-Woodbury
Waldenbooks Distribution Cen.	Rt. 32 Bond St.	Central Valley-Woodbury
Freemans Exxon #2936	Rt. 32	Highland Mills-Woodbury
Highland Mills Exxon	454 Rt. 32	Highland Mills-Woodbury
Highland Sand & Gravel, Inc.	Box G Rt. 32	Highland Mills-Woodbury
Town of Woodbury	Rt. 32	Highland Mills-Woodbury