

Section 6

Observations and Conclusions

Based on the monitoring information and discussions presented in the previous sections, several data trends are evident and a number of conclusions may be drawn about the general behavior and current condition of the County's groundwater system. It is important to note that these observations and conclusions are based solely upon an overall countywide assessment of Nassau's groundwater resource, and are not representative of any specific site(s) and/or isolated aquifer segment(s) that may be associated with such site(s). The findings are divided into categories (Weather, Groundwater Quantity, Raw Groundwater Quality, and Public Water Supply Withdrawal) to correspond with the order in which each category was introduced in the preceding sections of this document.

Weather

Weather patterns in Nassau County vary greatly from year to year, and month to month within any given year. Fluctuations in precipitation patterns are generally more pronounced than fluctuations observed in temperature patterns.

High temperatures and dry conditions during the summer months influence how water is used by the public and dictates the amount of groundwater withdrawn by each public water supplier to satisfy their respective public water demand.

Although precipitation averages approximately 44 inches per year in Nassau County, the seasons during which precipitation events occur each year determine the amount of recharge to the groundwater system – which ultimately governs the magnitude of fluctuations observed in the water table and potentiometric surfaces of the deeper aquifers.

A number of major one-day rainfall events that have occurred in Nassau County are associated with hurricanes or tropical storm systems.

Groundwater Quantity

Fluctuations in elevations of the water table and potentiometric surfaces of the deeper aquifers are to be expected, and are a normal occurrence within any groundwater system. The fluctuations can be significant from season to season and are the result of varying amounts of recharge to, and groundwater withdrawn from, the groundwater system.

There were no unusual observations in water levels at the "Drought Indicator Wells," nor at the "Southwest Indicator Wells" during the 2000 – 2003 period. Although some water elevations in these wells approached or set new minimums during the fall of 2002 in response to hot/dry weather conditions and high pumping rates during the preceding months, water levels quickly recovered during 2003 in response to increased recharge and reduced groundwater withdrawal.

Since average recharge to the groundwater system (approximately 341 mgd) exceeds the amount of groundwater withdrawn from the system (currently in the 200 mgd range), available groundwater resources are more than sufficient to meet present and anticipated future water demand.

Average annual water demand has crept upwards due to increased groundwater withdrawal during the peak pumping months. Demand has increased from an average of approximately 185 mgd during the 1990's, to an average of approximately of 193 mgd over the last five years, primarily due to lawn watering during the warmer months. Additionally, annual demand over three of the last five

years equaled or exceeded 200 mgd. Lawn watering is therefore an issue that warrants further investigation by the governmental agencies and public water suppliers if water demand is to be prevented from increasing in the future.

Raw Groundwater Quality

The percent of raw groundwater samples from monitoring wells with TVOC > 5ppb has steadily declined in Nassau County since the mid 1980's. Concentrations of VOCs in these monitoring wells have also declined since that time, indicating continued improvement in Nassau's raw groundwater quality. With the presence of sanitary sewers that serve over 90% of Nassau's population, and the broad range of regulations governing the use, storage, and disposal of VOCs, declining trends in raw groundwater contamination are expected to continue into the future until some minimum background VOC level is reached. VOC concentrations cannot be expected to reach a zero level in the future due to human activities that occur above the water supply.

The presence of MTBE has been detected in Nassau County's raw groundwater, generally at low concentrations. These detections, at some monitoring wells of the monitoring network, were sporadic and not indicative of widespread MTBE contamination. Several site specific aquifer segments have been identified by others, where elevated MTBE levels do exist. However, these levels are not characteristic of Nassau's overall raw groundwater quality. Since MTBE has been banned and is no longer added to gasoline, the loading of new sources of MTBE to the groundwater system has essentially been eliminated.

Pesticides have not been found at any significant concentrations in Nassau County's raw groundwater. Although trace or low levels of varying pesticide compounds have been detected, pesticides are not presently a concern and are not expected to become a cause for concern in the future, given the disappearance of agriculture and the proper pesticide application methods employed by major users. However, pesticide monitoring will continue and DPW will keep informed as new products may become available that could impact raw groundwater quality.

Initial sampling for pharmaceutical compounds/consumer products revealed that these compounds appear to be virtually absent from Nassau County's raw groundwater. The absence of these parameters in the raw groundwater can be attributed to sanitary sewers that serve over 90% of the County's population. Although butylated hydroxytoluene (BHT) was detected at numerous monitoring wells in low concentrations, BHT is present in a wide range of commonly used consumer products, which is most probably the cause of its appearance in the raw groundwater. Since BHT is a newly analyzed parameter, and these findings are based on a small data set, the reliability of the testing results needs to be determined. If the data is found to be accurate, further investigation is necessary to determine the sources and potential impacts on the raw groundwater.

The presence of perchlorate was detected in a small percentage of monitoring wells that were sampled. Its presence appears to be sporadically distributed, and when detected, was found in very low concentrations.

Chloride monitoring, conducted along the north and south shores during the 2000 – 2003 period has indicated that saltwater wedges may be advancing at localized areas within the Manhasset Neck peninsula and in Bayville. Other than these areas, the monitoring data has not revealed any new and significant landward movement of the saltwater fronts. In order to detect any future movement, continued chloride monitoring must continue.

Public Water Supply Withdrawal

Nassau County's population remained essentially stable throughout the decade of the 1990s, exhibiting only a small increase of about 3.5%.

The small increase in population had a negligible effect on water demand in Nassau County. The sizable fluctuations in annual public water demand are a result of hot and dry weather patterns during the summer months that can push demand to over 300 mgd during the warmer weather. Such periods of high demand are hidden if public water demand is evaluated solely on the basis of annual amounts, thus yielding an inaccurate assessment of how water is actually being used throughout the year.

In order to accurately evaluate water usage from year to year, weather patterns must be considered along with groundwater withdrawals recorded during the base pumping months (January, February, March, November, and December) and peak pumping months (April, May, June, July, August, September, and October) of each year.

Public water supply withdrawal during the base pumping months remained rather consistent during the 2000 – 2003 period at approximately 142 mgd. During peak pumping months, pumping increased considerably and was quite variable in response to weather conditions.

Annual per capita water demand in Nassau County is currently in the 145 to 150 gpcd range. Per capita demand during the base months has consistently been about 107 gpcd since 1990; per capita demand during the peak months is currently running in the 180 gpcd range, topping out at 190 gpcd in 1999.

Section 7

Going Forward

This section outlines the County's groundwater monitoring plans for the future and discusses emerging issues that are to be evaluated with respect to the Nassau County program. Although the County's groundwater monitoring program as described herein is comprehensive, new concerns and issues arise from time to time which may necessitate that the program be adjusted and/or refined.

As the monitoring program proceeds, DPW will continue to monitor the groundwater system components in the manner heretofore described and will undertake additional efforts that will augment the program. These new efforts include the installation of new monitoring wells at locations in the various aquifers where coverage is presently limited – thereby expanding the monitoring well network, evaluation of the necessity to monitor Nassau's raw groundwater quality for additional contaminants that have become a concern in groundwater, and more detailed assessment of raw groundwater quality in areas where groundwater has been impacted.

All groundwater system components previously described are interrelated, and as such, must be understood and considered cumulatively when studying the behavior of the system. Accordingly, the monitoring of weather patterns, groundwater elevations, and public supply withdrawal will continue in the current manner, as will monitoring of raw groundwater quality for the presence of volatile organic chemicals, pesticides, and pesticide degradation products. The presence of Methyl Tertiary Butyl Ether (MTBE) in the raw groundwater will continue to be monitored, and Tertiary Butyl Alcohol (TBA), another gasoline oxygenation additive (and potential breakdown product of MTBE) will be added to the list of analytes. Saltwater intrusion monitoring along both shorelines is another component of the overall monitoring effort that will continue.

Plans for upcoming years with respect to groundwater quality monitoring include the resumption of testing for inorganic chemicals in the raw groundwater, to include nitrates and metals. Testing for these inorganic chemicals was only conducted on a very limited basis during the last several years since previous groundwater studies did not identify these constituents to be a significant concern in Nassau's raw groundwater. Therefore, in the interest of efficiency, and to focus efforts on issues previously identified as a concern (such as volatile organic chemicals), the frequency of inorganic chemical testing was reduced. Even though the most recent limited testing revealed a similar trend, resumption of inorganic testing on a larger scale at selected monitoring wells is to be resumed to confirm prior trends. Monitoring wells will be selected regionally in order to give a countywide representation of inorganic chemical concentrations in the raw groundwater.

There are a few emerging issues pertaining to specific contaminants that have recently become a concern with respect to groundwater quality. Perchlorate, as previously mentioned in Section 3, has been discovered in the nation's soil and groundwater. Pharmaceutical compounds/consumer products have also become issues of concern in various parts of the nation. Microbials were identified in the Long Island Source Water Assessment Program (SWAP) as a potential source of contamination that could impact public supply wells. Accordingly, these contaminants will be evaluated to determine the necessity of monitoring for these constituents in Nassau County's raw groundwater.

All DPW monitoring network wells are to be inventoried and evaluated to make certain that representative groundwater samples for quality testing, and reliable water levels can be obtained from each well. If any monitoring wells are deemed unsuitable for such purposes, or if they cannot be rehabilitated into viable wells, they will be abandoned in conformance with New York State

Department of Environmental Conservation (NYSDEC) specifications, thereby eliminating any unnecessary conduits to the groundwater system. Replacement wells will be installed as deemed necessary. Additionally, the DPW database is to be refined to include updating aquifer designations of network monitoring wells, especially in the Magothy aquifer where wells can be screened in the upper, middle, or basal zones of the aquifer. The inventory and database refinement is anticipated to be an ongoing endeavor for the next several years.

As illustrated on the various monitoring well network maps presented in Section 3, the Upper Glacial network affords extensive coverage throughout the County, while the deeper networks (Magothy and Lloyd aquifers) are limited in coverage in certain areas. Under DPW's "Deep Monitoring Well Drilling" capital project, deep monitoring wells will be installed in these aquifers to fill gaps in the network and allow potentiometric surface elevations and raw groundwater quality to be determined at additional locations and positions within these aquifers. This capital project will also provide for additional deep monitoring wells to be installed along both shorelines at strategic locations deemed necessary to augment the saltwater intrusion monitoring networks. Monitoring wells installed near the shorelines will be installed with PVC (plastic) casing to allow electromagnetic-induction logging to be performed that will profile chloride concentrations along the entire length of the monitoring well. Logging in this manner will provide the mechanism to determine if saltwater has intruded at any position above the screen zone of a monitoring well. Under the Deep Well Drilling capital project, \$1.5 million will be expended on new monitoring well installation over several years.

Another intention of DPW is to obtain quality samples from specific monitoring wells that have shown a history of impacted groundwater quality, are located near impacted aquifer segments, or are located in proximity to public supply wells that are receiving treatment for VOCs, on a more frequent basis. The goal is to detect any migration of contaminated groundwater that could potentially affect a larger segment of the aquifer or adversely impact public supply wells. In this way, impacted aquifer segments can be more closely tracked as they relate to overall groundwater quality.

Along the same lines, raw groundwater quality information is to be assessed in concert with locations of public supply wells, known hazardous waste sites, spill sites, and any other known or suspected sources of groundwater contamination. Evaluation of this information may uncover new sources of groundwater contamination that could adversely impact the groundwater system. Findings of this endeavor will be shared with the water suppliers and the Nassau County Department of Health, and transmitted to the appropriate State agencies for further investigation and regulatory action. DPW will also work cooperatively with NYSDEC on their contaminated plume tracking/mapping project by providing data and other applicable information.

It is planned to more readily distribute DPW's raw groundwater quality findings to other agencies that include the water suppliers and Nassau County Department of Health, in order to provide those responsible for drinking water supply and protection the most up to date information on Nassau's raw groundwater resource. This document, and subsequent periodic updates, is the first step in realizing this goal.

Finally, the information that has been presented in this document is planned for incorporation into a Power Point presentation that would be appropriate for civic groups, schools, the general public, and others. Such a presentation would be useful to inform these entities of the groundwater system's intricate behavior and overall condition of the County's groundwater resource. The County recognizes the importance of educating its residents on water resource issues, and in doing so, can

increase the level of groundwater protection and awareness that may be gained from informed and knowledgeable residents.

In conclusion, the aforementioned intentions are ambitious and are a work in progress. Results and findings will be realized over succeeding years as the monitoring program proceeds forward, and will be incorporated into subsequent updates of this groundwater monitoring program report.

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Appendix

Table A-1
Regional Water Elevations

Table A-2
Drinking Water MCLs and Class GA Groundwater Standards

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (ft)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-00007	N-00007	Lynbrook	Long Island American Water	911	Lloyd	23.07	12.75	03/09/41	-6.84	08/25/70							
N-00009	N-00009	Lynbrook	Long Island American Water	138	Magothy	24.68	23.57	09/23/38	5.95	03/22/83	15.18	16.15					
N-00067	N-00067	Freeport	Freeport Village	1052	Lloyd	21.00	15.95	05/08/57	-3.76	03/23/83	11.40	7.11					
N-00124	N-00124	Laitingtown	Locust Valley WD	390	Lloyd	9.87	19.12	04/18/85	8.52	01/22/81							
N-00180	N-00180	Seaford	New York Water Service Corp.	737	Magothy	29.69	21.08	06/06/52	10.63	07/01/86	15.01	13.94					13.02
N-00511	N-00511	Mill Neck	Private	330	Lloyd	12.14	23.39	10/20/75	7.06	07/22/66							
N-01102	D-2	Manhasset	Manhasset-Lakeville WD	166	Magothy (wt)	183.68	59.01	06/15/49	29.31	09/23/69	37.88	34.93	34.62	33.44	34.37	31.85	32.95
N-01114	D-14	Hewlett	Long Island American Water	29	Up. Glacial	23.96	12.64	06/12/52	7.03	11/04/65	8.63	9.36	9.53	8.38	7.19	8.60	10.46
N-01115	D-15	Woodmere	Long Island American Water	19	Up. Glacial	21.96	13.22	06/12/52	6.54	09/29/81	8.80	9.81	9.70	8.44	7.24	9.07	10.85
N-01116	D-16	Woodsburgh	Long Island American Water	18	Up. Glacial	6.31	5.96	09/04/75	2.24	11/25/55	4.09	4.31	4.36	3.55	3.26	3.99	4.52
N-01118	E-2	Sands Point	Sands Point Village	84	Up. Glacial	146.73	92.19	06/13/52	72.17	12/20/66	77.46	79.33	78.26	79.40	76.68	75.66	78.48
N-01120	E-4	Flower Hill	Port Washington WD	100	Up. Glacial	116.15	60.24	09/13/39	42.46	09/23/68	44.16	44.18	44.53	44.71	44.20	42.65	43.64
N-01126	E-10	Garden City	Garden City Village	73	Up. Glacial	86.27	61.15	06/16/49	35.75	12/11/70	40.60	42.57	42.69	43.37	42.58	40.39	41.66
N-01129	E-13	Lakeview	Long Island American Water	44	Up. Glacial	50.54	33.79	09/28/38	21.68	10/17/86	24.63	25.88	26.61	25.44	23.09	23.02	25.69
N-01132	E-16	Lynbrook	Long Island American Water	38	Up. Glacial	20.26	9.64	09/28/38	3.28	07/13/71	5.84	5.56	6.28	4.58	5.14	4.81	6.90
N-01133	E-17	East Rockaway	Long Island American Water	24	Up. Glacial	9.57	4.66	01/06/49	1.24	09/15/81			3.19	2.33	2.52	3.11	3.72
N-01139	F-6	Garden City	Garden City Village	68	Up. Glacial	102.98	75.40	09/24/46	49.23	09/11/02	52.68	53.17	53.38	53.14	50.98	49.23	52.17
N-01147	F-14	Rockville Centre	Rockville Centre Village	24	Up. Glacial	26.91	19.68	01/07/49	11.12	10/17/86	12.57	13.00	14.33	12.49	11.21	11.52	14.90
N-01148	F-15	Baldwin	Long Island American Water	28	Up. Glacial	21.12	8.43	09/28/38	5.10	04/08/88	6.34	6.07	6.87	5.62	5.65	6.27	7.03
N-01149	G-1	Glen Cove	Glen Cove, City of	82	Up. Glacial	89.25	45.45	10/17/86	34.86	04/17/67	40.55	40.21	41.16	42.08	40.63	39.37	41.14
N-01152	G-4	Glen Cove	Glen Cove, City of	130	Up. Glacial	153.85	52.39	07/13/61	39.86	03/17/86	46.95	47.27	47.32	47.20	46.71	48.05	46.73
N-01155	G-7	Wheatley	Roslyn WD	230	Magothy (wt)	260.20	76.58	11/03/49	59.22	03/25/03	62.46	61.75	62.00	61.60	62.00	60.43	59.22
N-01169	G-21	Freeport	Freeport Village	24	Up. Glacial	4.89	4.41	10/24/84	-0.87	03/07/63	1.67	3.09	2.18	2.39	2.32	2.79	2.60
N-01176	H-7	Old Westbury	Westbury WD	191	Magothy (wt)	194.17	86.55	11/03/49	67.61	09/09/02	71.87	71.52	72.27	70.81	71.78	67.61	69.10
N-01184	H-15	North Merrick	New York Water Service Corp.	31	Up. Glacial	32.30	24.30	07/17/48	13.12	12/28/88	18.56	17.93	19.00	18.50	18.89	17.60	19.19
N-01189	O-3	Mill Neck	Locust Valley WD	33	Up. Glacial	66.20	62.97	04/06/48	54.93	10/14/86	59.21	59.70	60.20	58.50	57.53	58.20	61.11
N-01190	O-4	Matinecock	Locust Valley WD	99	Up. Glacial	127.86	63.93	06/07/79	51.71	12/15/67	56.16	56.76	56.77	57.16	56.68	54.16	55.06
N-01194	O-8	Jericho	Jericho WD	100	Up. Glacial	167.98	92.18	06/07/79	72.75	11/24/02	77.20	77.81	77.56	76.78	74.72	73.14	73.13
N-01195	O-9	Hicksville	Hicksville WD	116	Up. Glacial	148.30	88.78	05/28/80	65.74	12/05/02	74.30	75.05	74.10	74.12	70.48	69.68	70.56
N-01197	O-11	Hicksville	Hicksville WD	69	Up. Glacial	116.05	80.13	06/07/79	64.53	09/26/88							
N-01201	O-15	North Bellmore	New York Water Service Corp.	30	Up. Glacial	55.90	44.88	03/21/39	32.08	09/10/02	35.12	35.77	36.50	34.15	32.53	32.08	35.50
N-01204	O-18	Bellmore	New York Water Service Corp.	40	Up. Glacial	21.20	12.80	06/22/89	5.17	02/10/50	11.51	11.95	11.97	10.67	11.00	11.28	11.93
N-01205	O-19	South Bellmore	New York Water Service Corp.	29	Up. Glacial	8.27	3.70	04/11/83	-6.56	01/31/00	-2.20	1.40	2.40	1.97	2.52	2.22	2.77
N-01223	P-18	Massapequa	Massapequa WD	25	Up. Glacial	6.10	4.49	03/28/53	0.38	04/18/69	3.00	3.15	2.78	2.52	2.46	3.33	2.88
N-01225	T-2	Cove Neck	Oyster Bay WD	20	Up. Glacial	8.31	5.71	03/09/79	-1.33	09/11/01	3.25	3.61	5.06	-1.33	3.71	4.43	3.83
N-01227	T-2	Laurel Hollow	Jericho WD	133	Magothy (wt)	170.68	58.69	05/29/80	42.45	04/19/67							
N-01228	T-5	Syosset	Jericho WD	176	Magothy (wt)	227.12	72.19	11/16/84	52.22	07/18/67	57.07	59.27	59.82	56.01	58.03	55.85	57.91

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							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-01231	T-8	Plainview	Plainview WD	81	Magothy (wt)	138.95	11/16/84	62.90	09/28/99	73.85	73.73	73.00	72.81	71.69	70.61	69.38	72.02
N-01232	T-9	Plainview	Plainview WD	57	Magothy (wt)	111.16	03/08/79	65.66	10/27/95	69.24	70.03	69.74	69.17	66.79	65.93	67.01	68.97
N-01234	T-11	Bethpage	Bethpage WD	65	Magothy (wt)	100.40	03/28/78	49.58	09/04/02	64.21	55.05	55.81	54.92	56.26	50.92	50.97	-----
N-01236	T-13	North Massapequa	South Farmingdale WD	52	Up. Glacial	70.07	03/28/78	36.37	09/11/02	40.43	41.71	42.12	39.72	37.97	36.37	41.15	41.47
N-01243	U-2	Cold Spring Harbor	Jericho WD	28	Magothy (wt)	63.08	11/15/84	47.50	12/08/86	-----	-----	-----	-----	-----	-----	-----	53.37
N-01253	U-12	Massapequa	New York Water Service Corp.	29	Up. Glacial	28.12	03/20/78	12.00	06/08/76	15.44	15.25	16.28	14.15	14.07	14.53	16.24	15.32
N-01259	M-183	Plainedge	Bethpage WD	41	Up. Glacial	78.08	06/23/52	40.27	09/04/02	-----	-----	-----	-----	42.09	40.27	-----	-----
N-01260	N-01260	Massapequa	Massapequa WD	30	Up. Glacial	33.14	03/20/01	15.89	09/20/99	19.48	18.59	21.24	19.39	18.72	17.23	19.18	18.67
N-01422	X-10	Lawrence	Long Island American Water	29	Up. Glacial	16.32	06/21/89	4.41	03/03/66	-----	-----	-----	-----	-----	-----	-----	6.65
N-01426	X-16	Franklin Square	Franklin Square WD	30	Up. Glacial	59.07	06/20/52	25.18	09/22/71	31.45	33.35	34.52	32.53	31.32	30.76	32.96	34.60
N-01427	X-17	North Valley Stream	Water Auth of West. Nassau	33	Up. Glacial	42.13	04/09/48	12.13	03/18/82	17.91	18.87	20.03	18.89	17.01	16.07	18.12	19.57
N-01429	X-19	Lynbrook	Long Island American Water	24	Up. Glacial	16.12	04/09/48	5.75	09/15/81	8.37	8.47	9.57	7.48	7.37	7.38	9.83	9.12
N-01438	X-29	Rockville Centre	Rockville Centre Village	27	Up. Glacial	35.27	02/18/46	12.99	09/11/02	14.49	16.07	17.07	15.15	13.13	12.99	17.11	18.05
N-01614	N-01614	Herricks	Garden City Park WD	53	Up. Glacial	99.84	09/09/03	48.42	12/21/70	55.55	60.87	54.68	54.83	52.16	51.17	52.21	71.40
N-01615	N-01615	Freeport	Freeport Village	33	Up. Glacial	60.87	06/11/90	33.31	08/06/02	-----	-----	-----	-----	34.48	33.32	-----	-----
N-01616	N-01616	Old Westbury	Old Westbury Village	68	Magothy	122.08	06/20/80	64.00	08/06/02	-----	-----	-----	-----	66.44	64.18	-----	-----
N-01682	X-45	Floral Park	Water Auth of West. Nassau	68	Up. Glacial	82.81	06/20/49	15.41	12/21/71	30.62	31.92	31.71	32.32	30.81	29.63	31.07	33.49
N-02269	X-74	Port Washington	Port Washington WD	215	Up. Glacial	113.24	10/07/98	18.55	04/30/48	30.95	-----	29.85	30.94	29.88	26.16	28.84	30.07
N-03711	X-84	Valley Stream	Long Island American Water	24	Up. Glacial	7.65	07/26/57	-0.39	01/12/00	-----	-----	-----	-----	-----	-----	-----	1.62
N-03862	N-03862	Lawrence	Long Island American Water	307	Magothy	12.28	06/13/02	1.88	08/05/02	-----	-----	-----	-----	3.48	2.88	-----	-----
N-03865	N-03865	Oceanside	Long Island American Water	564	Magothy	4.55	04/19/94	2.08	08/23/01	-----	-----	-----	-----	-----	-----	-----	-----
N-03867	N-03867	Valley Stream	Long Island American Water	517	Magothy	9.24	04/18/97	3.05	07/16/01	-----	-----	-----	-----	4.39	2.06	-----	-----
N-04547	N-04547	Jones Beach	Jones Beach State Park	256	Magothy	14.48	03/19/91	0.11	08/05/02	-----	-----	-----	-----	-----	4.58	-----	7.22
N-05250	G-1A	Glen Cove	Glen Cove, City of	101	Up. Glacial	122.63	03/09/99	42.84	01/24/67	51.53	52.74	52.92	52.63	51.64	52.17	51.57	54.49
N-06294	N-06294	Upper Brookville	Jericho WD	28	Up. Glacial	93.30	03/17/04	61.82	09/09/02	63.86	64.85	63.89	65.20	62.70	61.82	62.98	65.10
N-06385	X-90	Island Park	Long Island American Water	19	Up. Glacial	8.62	03/27/96	-0.07	03/18/82	1.97	3.07	2.43	2.00	2.39	2.27	2.23	2.65
N-06386	X-91	Island Park	Long Island American Water	24	Up. Glacial	6.79	01/04/67	-4.75	05/20/58	2.14	2.12	2.14	2.47	2.71	2.72	2.41	2.22
N-06367	X-92A	Island Park	Long Island American Water	28	Up. Glacial	6.95	06/14/60	0.81	09/27/96	2.05	2.65	2.51	1.87	2.27	2.72	2.79	2.86
N-06668	N-06668	Mattinecock	Locust Valley WD	43	Up. Glacial	103.35	03/13/00	62.91	09/09/02	84.61	65.78	65.62	65.97	63.90	62.91	64.29	67.25
N-06670	N-06670	Locust Valley	Locust Valley WD	13	Up. Glacial	79.69	09/21/98	72.48	09/09/02	73.66	74.22	74.07	74.19	72.97	72.48	74.55	74.59
N-06701	N-06701	Atlantic Beach	Long Island American Water	857	Raritan Clay	12.06	04/03/98	1.94	06/24/03	-----	-----	-----	-----	-----	-----	-----	8.76
N-06702	N-06702	Atlantic Beach	Long Island American Water	684	Magothy	12.04	03/31/98	-7.86	09/17/91	-----	-----	-----	-----	-----	-----	-----	-4.05
N-06704	N-06704	Atlantic Beach	Long Island American Water	298	Magothy	12.35	03/23/93	3.11	09/17/91	-----	-----	-----	-----	-----	-----	-----	5.07
N-06849	N-06849	Point Lookout	Lido-Pt. Lookout WD	1039	Raritan Clay	9.36	03/28/94	3.58	09/15/88	-----	-----	-----	-----	-----	-----	-----	-----
N-06850	N-06850	Point Lookout	Lido-Pt. Lookout WD	914	Magothy	9.18	03/22/93	3.36	09/19/95	-----	-----	-----	-----	-----	-----	-----	-----
N-06851	N-06851	Point Lookout	Lido-Pt. Lookout WD	560	Magothy	8.31	04/01/91	0.31	09/16/03	-----	-----	-----	-----	-----	-----	-----	-----
N-06853	N-06853	Point Lookout	Lido-Pt. Lookout WD	137	Magothy	8.80	09/28/94	1.59	04/07/95	-----	-----	-----	-----	-----	-----	-----	-----

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (ft)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-06879	N-06879	Mill Neck	Private	131	Magothy	131.47	30.51	09/17/03	23.40	03/18/96	-----	-----	-----	-----	-----	-----	-----
N-07161	N-07161	Rockville Centre	Rockville Centre Village	676	Magothy	9.78	6.18	03/29/94	1.72	08/22/01	-----	-----	-----	-----	-----	-----	3.69
N-07207	N-07207	Rockville Centre	Rockville Centre Village	98	Magothy	10.39	6.62	09/19/03	2.39	09/20/93	-----	-----	-----	-----	-----	-----	6.62
N-07235	X-99	Hewlett	Long Island American Water	44	Up. Glacial	25.29	9.52	04/13/84	2.97	10/08/86	5.14	5.29	6.38	4.21	4.45	4.67	5.75
N-07397	U-6A	Old Bethpage	Plainview WD	101	Up. Glacial	153.94	77.75	06/01/79	62.48	09/08/95	66.55	68.20	67.44	67.54	65.37	63.29	76.85
N-07450	H-6A	Old Brookville	Jericho WD	134	Magothy (wt)	175.71	84.52	10/24/40	64.72	07/17/67	69.31	68.96	69.51	69.19	69.31	66.31	68.73
N-07478	X-100	Jericho	Jericho WD	165	Magothy (wt)	217.22	92.72	05/28/80	72.22	09/11/02	78.92	80.60	78.07	76.70	76.15	72.22	73.67
N-08046	N-08046	Kings Point	Water Auth. of Gt. Neck North	189	No. Shore	11.66	4.96	09/15/03	0.56	08/25/93	-----	4.16	-----	-----	-----	-----	-----
N-08052	N-08052	Kings Point	Water Auth. of Gt. Neck North	94	No. Shore	12.65	6.02	09/15/03	1.04	10/22/93	-----	5.21	-----	-----	-----	-----	-----
N-08203	CL-1A	Freeport	Freeport Village	16	Up. Glacial	6.50	6.17	06/27/68	2.51	02/04/54	-----	-----	3.02	2.70	3.28	3.22	3.30
N-08269	CH-201A	Old Westbury	Westbury WD	86	Magothy (wt)	111.55	80.52	06/20/49	59.23	10/07/02	62.53	61.73	63.06	62.93	60.96	59.49	62.95
N-08309	E-5A	Munsey Park	Manhasset-Lakeville WD	199	Magothy (wt)	143.05	69.79	07/11/61	30.99	09/12/02	36.07	35.08	36.21	34.17	34.95	30.99	33.24
N-08430	P-5A	East Norwich	Jericho WD	145	Magothy (wt)	190.04	73.96	10/16/85	56.63	09/12/03	62.24	64.04	61.39	59.29	61.22	56.74	56.63
N-08550	O-12A	Levittown	Levittown WD	66	Up. Glacial	101.00	71.84	06/07/79	54.05	07/26/02	57.71	59.38	58.54	58.32	55.56	54.07	59.16
N-08599	D-13A	Valley Stream	Long Island American Water	25	Up. Glacial	9.96	7.99	01/06/49	0.10	06/20/52	3.61	3.06	3.97	3.24	3.79	3.44	3.45
N-08629	U-15	Massapequa	New York Water Service Corp.	183	Magothy	3.40	5.77	04/03/96	1.16	03/03/93	4.24	5.24	5.66	4.33	4.78	1.85	4.93
N-08630	U-14	Massapequa	New York Water Service Corp.	19	Up. Glacial	3.36	3.31	03/15/00	-1.45	10/20/00	3.31	-1.45	1.41	1.40	1.59	1.53	1.01
N-08631	T-19	Massapequa	Massapequa WD	19	Up. Glacial	7.20	5.40	10/11/88	-4.24	09/08/75	-----	-----	1.35	1.56	1.32	2.49	1.55
N-08635	F-18	Oceanside	Long Island American Water	29	Up. Glacial	7.26	5.12	06/23/89	1.67	12/10/79	-----	-----	-----	-----	-----	-----	4.26
N-08636	X-119	Lawrence	Long Island American Water	23	Up. Glacial	6.28	6.77	06/21/89	3.81	04/28/88	-----	-----	-----	-----	5.06	5.73	5.68
N-08646	D-20	Lawrence	Long Island American Water	22	Up. Glacial	5.54	5.23	06/24/03	1.22	12/03/76	4.12	4.04	4.22	2.78	3.33	3.54	3.67
N-08648	H-18	Merrick	New York Water Service Corp.	28	Up. Glacial	8.67	4.66	12/19/72	-0.23	06/14/72	1.57	1.94	1.82	1.82	1.50	1.32	1.67
N-08649	O-20	Bellmore	New York Water Service Corp.	30	Up. Glacial	7.67	3.22	09/25/73	-8.43	09/25/00	-3.53	-8.43	-6.74	-8.30	-7.11	-6.38	-8.04
N-08651	X-107	Bellmore	New York Water Service Corp.	30	Up. Glacial	7.66	3.41	06/09/93	0.48	12/15/80	-----	-----	1.95	2.38	1.86	3.11	2.60
N-08653	X-111	Baldwin Harbor	Long Island American Water	24	Up. Glacial	8.10	3.37	04/19/84	0.93	04/11/91	1.73	2.85	1.93	1.47	1.50	2.57	2.78
N-08654	X-113	Baldwin	Long Island American Water	24	Up. Glacial	8.13	3.93	08/21/97	-0.20	06/07/76	-----	-----	-----	-----	-----	-----	-----
N-08655	X-117	Hewlett Harbor	Long Island American Water	29	Up. Glacial	9.26	4.43	10/28/96	0.31	03/24/72	2.41	1.51	0.84	1.74	1.86	3.81	2.11
N-08656	X-123	North Massapequa	South Farmingdale WD	35	Up. Glacial	41.89	35.78	03/12/79	21.67	09/20/99	27.72	28.89	29.47	26.89	25.00	25.43	29.26
N-08679	E-19	Bay Park	Long Island American Water	64	Up. Glacial	4.62	2.71	03/01/79	-2.31	12/16/88	0.41	0.47	-0.58	0.64	0.78	1.48	1.40
N-08788	X-126	Oceanside	Long Island American Water	41	Up. Glacial	7.34	4.32	09/17/81	-1.30	03/26/75	0.84	0.44	0.41	2.80	-0.23	2.49	1.56
N-08847	H-16AA	Merrick	New York Water Service Corp.	26	Up. Glacial	15.63	10.62	03/27/53	3.85	04/18/69	9.44	8.03	8.47	7.23	7.73	7.98	8.58
N-08848	T-18A	Massapequa	New York Water Service Corp.	23	Up. Glacial	7.27	6.05	04/20/84	2.27	01/21/88	5.09	5.22	4.42	4.52	4.77	5.19	5.37
N-08875	X-120	Massapequa	Massapequa WD	37	Up. Glacial	5.32	3.24	02/28/79	0.85	12/08/82	-----	-----	1.57	1.82	1.42	2.81	2.44
N-08876	X-128	Massapequa	New York Water Service Corp.	36	Up. Glacial	4.62	3.32	04/10/98	0.23	12/28/87	1.83	2.64	3.12	1.65	2.14	2.42	2.21
N-08877	X-129	Manhasset	Manhasset-Lakeville WD	76	Up. Glacial	11.66	11.26	03/11/91	8.43	09/11/95	10.47	10.73	10.41	10.26	10.64	10.10	10.66
N-08888	P-8A	Hicksville	Jericho WD	111	Up. Glacial	174.49	94.22	09/14/79	72.89	08/28/95	78.69	79.59	79.22	78.86	76.41	73.16	74.99
N-08891	X-132	Sands Point	Sands Point Village	72	Up. Glacial	60.04	13.36	07/07/98	5.54	09/11/02	8.04	8.32	9.13	8.16	7.88	5.54	10.00
N-08940	X-137	East Meadow	Town of Hempstead	64	Up. Glacial	95.56	68.86	04/12/85	51.24	09/12/02	55.09	56.26	55.96	55.50	52.83	51.24	54.77

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-08943	X-138	Uniondale	Uniondale WD	52	Up. Glacial	81.50	06/05/78	44.91	09/09/02	48.86	49.75	49.83	48.95	46.64	44.91	48.08	49.82
N-08970	X-143	Lake Success	Manhasset-Lakeville WD	193	Magothy (wt)	154.42	09/09/91	21.93	12/17/82	28.09	28.13	28.64	29.30	29.02	28.24	28.49	29.08
N-08984	H-10A	Westbury	Bowling Green WD	48	Up. Glacial	104.00	06/17/52	63.00	03/26/02	65.03	66.03	66.16	66.85	63.00	64.34	66.73	67.99
N-09054	X-95A	Baldwin	Long Island American Water	40	Up. Glacial	13.72	04/19/84	3.55	11/08/85	-----	-----	5.62	4.16	3.97	5.08	5.99	-----
N-09057	H-13A	East Meadow	East Meadow WD	47	Up. Glacial	70.24	06/17/52	38.02	09/09/02	42.95	44.24	44.34	43.29	40.69	38.02	44.06	45.15
N-09059	O-7A	Brookville	Jericho WD	176	Magothy (wt)	228.24	12/05/79	71.04	09/11/02	77.62	76.64	77.46	76.46	76.11	71.04	71.84	72.09
N-09077	O-14A	East Meadow	East Meadow WD	52	Up. Glacial	69.06	06/17/52	38.25	09/11/02	42.31	42.86	43.19	41.49	39.06	38.25	42.36	43.33
N-09078	H-12A	East Meadow	Town of Hempstead	65	Up. Glacial	83.62	09/29/38	46.24	09/05/02	49.87	51.07	51.21	50.14	47.62	46.57	50.20	52.02
N-09079	P-10A	Hicksville	Hicksville WD	70	Up. Glacial	118.85	06/07/79	62.19	09/13/02	66.04	67.00	66.31	66.36	63.92	62.19	63.66	66.22
N-09087	O-5A	Upper Brookville	Jericho WD	111	Up. Glacial	156.94	05/28/80	63.14	03/19/86	67.99	68.34	67.39	69.74	67.24	63.56	65.69	67.64
N-09088	X-93A	Bethpage	Bethpage WD	68	Up. Glacial	77.99	06/11/58	51.21	09/08/95	54.03	55.16	55.04	53.61	51.44	49.22	53.43	54.72
N-09089	T-7A	Plainview	Plainview WD	178	Magothy (wt)	172.98	05/31/79	70.89	09/10/02	77.17	76.80	77.24	75.14	75.28	70.89	72.19	74.64
N-09098	X-67A	Great Neck	Water Auth. of Gt. Neck North	72	Up. Glacial	58.76	01/05/49	16.47	12/17/82	18.72	20.58	20.53	21.19	19.50	19.86	21.69	22.55
N-09099	X-68A	Great Neck	Water Auth. of Gt. Neck North	71	Up. Glacial	59.63	06/15/49	14.87	12/19/82	18.21	20.54	22.13	23.43	22.42	21.67	23.77	25.90
N-09115	H-4A	Glen Cove	Jericho WD	110	Magothy (wt)	144.71	09/22/53	48.42	09/25/89	54.41	55.09	55.73	55.11	54.26	52.33	53.89	57.26
N-09116	E-1A	Sands Point	Sands Point Village	31	Up. Glacial	15.28	04/23/84	3.95	08/31/50	7.49	8.24	8.54	7.84	6.98	7.92	8.81	9.17
N-09117	H-5A	Old Brookville	Jericho WD	73	Magothy (wt)	112.06	06/17/49	59.33	10/08/02	63.24	63.60	63.67	63.96	62.46	60.59	62.00	64.41
N-09118	X-133A	Sands Point	Sands Point Village	97	Up. Glacial	50.54	11/01/84	1.65	10/17/86	3.95	4.26	4.57	3.91	3.62	3.94	5.36	4.93
N-09127	P-1B	Bayville	Bayville	41	Up. Glacial	9.30	04/10/85	-1.06	09/11/01	0.46	2.37	2.06	-1.06	0.50	0.90	1.70	3.06
N-09152	U-1A	Cold Spring Harbor	Jericho WD	58	Up. Glacial	39.68	09/12/39	22.91	07/19/67	24.05	24.03	24.47	24.22	24.48	23.51	23.83	24.46
N-09154	T-3A	Oyster Bay Cove	Oyster Bay WD	66	Up. Glacial	33.50	10/18/61	19.76	10/09/86	22.36	23.40	22.92	22.80	22.23	21.02	22.40	23.15
N-09168	H-8A	Old Westbury	Westbury WD	217	Magothy (wt)	153.71	11/03/49	68.24	09/09/02	72.21	72.71	72.45	72.21	70.37	68.24	68.98	71.78
N-09188	D-1A	Manhasset	Manhasset-Lakeville WD	80	Up. Glacial	44.78	03/08/91	21.78	09/09/02	27.62	25.04	24.86	23.36	24.04	21.78	24.00	22.40
N-09189	P-3A	Oyster Bay	Oyster Bay WD	42	Up. Glacial	59.14	11/13/84	39.43	10/06/67	42.79	42.84	43.03	42.44	42.16	40.40	41.39	42.09
N-09190	G-8A	Old Westbury	Westbury WD	133	Magothy (wt)	156.42	06/17/49	58.61	03/25/69	64.37	64.68	64.56	64.71	63.30	61.40	61.92	64.27
N-09191	G-9A	Old Westbury	Westbury WD	135	Magothy (wt)	170.25	06/07/38	61.28	09/09/02	64.62	65.07	65.10	65.29	63.26	61.28	62.34	64.79
N-09208	X-147	Kings Point	Water Auth. of Gt. Neck North	96	Up. Glacial	17.18	03/31/92	6.25	09/01/81	14.86	15.79	15.98	14.98	15.11	14.86	16.64	15.70
N-09271	X-148	Kings Point	Water Auth. of Gt. Neck North	89	Up. Glacial	47.64	01/18/90	16.57	09/01/82	18.90	19.78	19.67	19.76	18.90	18.95	20.16	20.62
N-09309	D-9A	Elmont	Water Auth. of West. Nassau	59	Up. Glacial	42.06	09/28/38	8.84	12/17/82	17.61	18.62	19.62	17.98	17.16	16.10	20.07	21.17
N-09313	F-1AA	Roslyn	Roslyn	60	Up. Glacial	59.58	09/20/39	41.40	03/24/88	45.61	44.00	45.14	43.18	44.40	42.29	43.31	43.37
N-09314	O-2A	Bayville	Locust Valley WD	54	Up. Glacial	31.61	04/25/58	15.52	10/14/86	20.57	21.46	21.91	20.11	19.10	19.21	22.79	21.69
N-09316	T-1A	Cove Neck	Oyster Bay WD	58	Up. Glacial	24.71	03/11/98	-2.95	03/25/87	3.36	3.66	3.65	3.20	3.03	3.46	4.09	4.16
N-09317	P-6A	Muttontown	Jericho WD	194	Magothy (wt)	217.45	07/17/61	62.67	09/12/03	66.99	67.65	67.37	66.55	66.35	62.75	63.05	62.67
N-09333	X-150	East Meadow	East Meadow WD	50	Up. Glacial	53.25	06/06/79	34.15	09/09/02	36.81	39.15	39.33	37.95	35.58	34.15	37.95	40.02
N-09353	O-6A	Brookville	Jericho WD	101	Up. Glacial	140.42	06/08/76	69.67	03/26/03	73.90	74.02	74.22	73.92	73.15	70.16	69.67	71.37
N-09354	H-9A	Westbury	Westbury WD	89	Up. Glacial	117.97	08/25/39	62.18	09/09/02	67.19	67.86	67.42	67.10	64.82	62.18	64.75	67.35
N-09356	X-151	Sands Point	Sands Point Village	104	Up. Glacial	99.70	09/11/79	15.85	09/11/02	17.29	19.20	17.93	18.57	16.98	15.85	18.47	20.98
N-09357	X-35A	Freeport	Freeport Village	27	Up. Glacial	8.35	07/22/48	2.77	03/15/66	5.40	5.25	5.48	4.81	4.92	5.33	5.66	-----
N-09358	X-8A	Woodmere	Long Island American Water	20	Up. Glacial	5.10	04/02/53	0.15	09/25/00	2.08	0.15	1.71	1.38	1.56	1.99	1.79	1.62

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Monitoring Well Network

REGIONAL WATER ELEVATIONS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations				2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
N-09359	X-7A	Valley Stream	Long Island American Water	26	Up. Glacial	6.74	3.44	12/06/02	-1.48	04/18/86	-----	1.19	1.02	1.62	2.38	1.46	1.53	
N-09372	FG-9	Rockville Centre	Rockville Centre Village	22	Up. Glacial	30.96	14.16	03/06/91	9.68	03/24/89	-----	11.93	10.82	-----	-----	12.68	12.52	
N-09396	FG-3	Freeport	Freeport Village	10	Up. Glacial	24.14	18.92	06/26/89	15.18	03/25/02	17.43	16.94	18.13	15.95	15.18	15.35	17.52	
N-09408	FG-8	Roosevelt	Long Island American Water	15	Up. Glacial	39.40	30.14	06/26/89	25.21	09/05/95	26.48	26.53	27.65	25.37	-----	27.32	27.68	
N-09409	FG-2	Roosevelt	Long Island American Water	20	Up. Glacial	32.46	17.37	06/21/89	14.21	09/09/02	-----	-----	16.79	14.41	14.56	14.21	16.38	
N-09468	X-11A	Inwood	Long Island American Water	25	Up. Glacial	6.95	6.50	12/19/58	0.63	12/21/71	4.13	4.35	4.34	-----	-----	-----	-----	
N-09469	T-16A	Massapequa	Massapequa WD	46	Up. Glacial	30.95	20.74	06/05/52	13.25	12/14/89	18.28	18.40	18.75	17.58	17.65	17.97	18.70	
N-09470	G-18A	Freeport	Freeport Village	29	Up. Glacial	27.96	19.52	07/15/48	11.41	09/09/02	13.80	13.06	14.61	12.18	11.61	11.41	15.26	
N-09471	P-15A	Seaford	New York Water Service Corp.	41	Up. Glacial	43.47	32.57	06/08/79	24.82	09/07/95	27.60	27.12	29.02	26.07	25.42	25.07	28.95	
N-09472	E-15A	Milverne	Long Island American Water	36	Up. Glacial	25.49	14.15	09/28/38	7.01	10/27/86	9.82	10.07	10.51	8.65	8.83	7.72	10.52	
N-09473	X-36A	Bellmore	New York Water Service Corp.	42	Up. Glacial	41.31	36.14	07/22/48	23.31	08/08/02	27.30	27.71	28.51	26.36	25.06	24.29	28.72	
N-09474	X-121A	Atlantic Beach	Long Island American Water	33	Up. Glacial	8.60	7.57	03/15/00	0.72	12/03/76	7.57	3.90	5.90	2.60	2.34	3.27	3.12	
N-09476	X-3B	Elmont	Water Auth. of West. Nassau	78	Up. Glacial	58.46	32.98	04/02/53	3.13	04/08/83	20.59	22.46	22.81	23.27	22.11	21.09	23.64	
N-09477	X-69A	Kings Point	Water Auth. of Gt. Neck North	137	Up. Glacial	73.08	14.66	10/30/84	7.19	09/16/66	10.79	11.73	11.55	11.93	10.71	10.61	11.84	
N-09478	O-1C	Littletown	Locust Valley WD	24	Up. Glacial	8.75	7.61	03/08/79	1.04	04/02/84	5.95	5.54	6.03	4.21	4.75	5.49	6.30	
N-09607	X-153	Port Washington	Roslyn WD	191	Up. Glacial	43.01	34.69	04/05/85	21.93	09/12/02	25.28	24.25	24.91	24.39	25.70	21.93	24.92	
N-09608	X-154	Port Washington	Port Washington WD	161	Magothy	17.61	17.44	05/20/98	11.79	04/10/86	15.14	13.83	15.84	13.63	13.90	13.25	15.99	
N-09646	P-16A	Seaford	New York Water Service Corp.	41	Up. Glacial	31.71	22.08	03/12/79	16.11	06/15/87	18.53	18.61	19.75	17.20	17.11	17.02	19.71	
N-09648	F-10A	Hempstead	Hempstead Village	51	Up. Glacial	52.32	37.61	07/15/48	26.51	09/12/02	28.64	29.61	30.12	28.76	27.22	26.51	29.43	
N-09649	F-11A	South Hempstead	Long Island American Water	50	Up. Glacial	46.09	35.31	04/20/53	20.30	09/11/02	22.28	23.46	24.51	22.86	20.97	20.30	24.26	
N-09651	G-17A	Roosevelt	Long Island American Water	47	Up. Glacial	38.91	29.02	02/14/89	15.50	09/09/02	18.80	18.19	19.36	17.16	16.03	15.50	20.01	
N-09652	G-19A	Freeport	Freeport Village	42	Up. Glacial	23.25	13.27	04/16/90	7.24	07/15/71	9.12	8.95	9.95	8.11	7.91	8.26	10.34	
N-09655	O-17A	Bellmore	New York Water Service Corp.	31	Up. Glacial	27.34	27.18	07/17/48	13.22	03/15/76	21.56	21.34	22.31	20.14	19.89	19.66	22.34	
N-09657	P-17A	Seaford	New York Water Service Corp.	32	Up. Glacial	20.67	11.49	04/29/58	1.45	11/19/41	10.08	9.87	10.32	9.14	9.49	9.67	10.32	
N-09658	P-14A	North Wantagh	New York Water Service Corp.	53	Up. Glacial	54.39	45.95	06/18/52	30.59	09/10/02	33.89	35.34	35.97	33.07	31.89	30.59	35.21	
N-09659	T-17A	Massapequa	Massapequa WD	50	Up. Glacial	22.13	13.72	04/02/84	0.89	10/25/49	12.03	11.96	12.58	11.03	11.28	11.78	12.65	
N-09660	T-14A	Massapequa	South Farmingdale WD	53	Up. Glacial	56.48	40.00	06/18/52	31.43	09/11/02	34.25	35.35	35.68	33.15	32.02	31.43	35.30	
N-09661	T-12A	South Farmingdale	South Farmingdale WD	57	Magothy (wt)	72.16	58.58	03/07/79	44.54	03/23/04	49.27	50.43	50.76	48.81	46.51	44.84	49.23	
N-09662	U-8A	Farmingdale	Farmingdale Village	57	Up. Glacial	67.78	57.58	11/15/84	45.37	07/12/02	48.67	50.57	50.43	48.70	45.48	45.88	48.83	
N-09663	F-13A	Rockville Centre	Rockville Centre Village	50	Up. Glacial	37.47	26.58	06/13/52	14.73	09/11/02	16.21	17.18	17.67	15.92	14.83	14.73	18.93	
N-09664	X-39A	North Wantagh	New York Water Service Corp.	31	Up. Glacial	38.00	32.02	07/22/48	22.80	12/27/96	28.63	28.03	28.75	26.20	25.84	25.30	28.35	
N-09666	G-15B	Uniondale	Uniondale WD	47	Up. Glacial	55.41	47.50	06/14/52	31.83	08/13/02	34.85	35.73	36.11	35.53	32.56	32.15	35.46	
N-09669	D-11A	Valley Stream	Long Island American Water	32	Up. Glacial	19.85	14.71	06/04/97	5.94	12/17/82	10.24	9.97	11.05	9.32	9.61	9.64	11.21	
N-09670	G-3A	Glen Cove	Glen Cove, City of	42	Up. Glacial	33.07	26.30	11/07/84	18.58	01/08/49	-----	23.59	23.13	23.57	23.88	23.27	23.82	
N-09711	F-2A	Roslyn	Roslyn WD	146	Up. Glacial	145.00	71.82	06/19/39	51.55	09/09/02	64.99	54.33	54.82	53.74	53.81	51.55	53.04	
N-09712	F-3A	Albertson	Albertson WD	158	Up. Glacial	134.48	76.31	03/05/45	53.82	11/16/66	58.56	58.37	58.66	56.05	57.13	54.38	59.49	
N-09776	X-161	Kings Point	Water Auth. of Gt. Neck North	284	Lloyd	30.34	13.21	03/25/04	-35.69	09/29/89	-----	-----	-----	-----	-----	-----	-----	
N-09820	X-179	Great Neck	Water Auth. of Gt. Neck North	318	Lloyd	68.51	16.56	03/23/04	7.35	09/27/88	-----	-----	-----	-----	-----	-----	-----	
N-09840	X-180	Kings Point	Water Auth. of Gt. Neck North	313	No. Shore	20.73	11.80	03/25/04	-22.97	09/29/89	-----	-----	-----	-----	-----	-----	-----	

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (ft)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-09892	201-01	Great Neck Estates	Water Auth. of Gt. Neck North	45	Up. Glacial	32.40	12/29/03	8.95	09/27/88	9.66	10.62	11.29	10.83	10.24	10.49	11.71	11.42
N-09893	201-02	Kings Point	Water Auth. of Gt. Neck North	70	Up. Glacial	58.53	06/22/89	0.25	09/27/88	-----	-----	-----	-----	-----	-----	-----	-----
N-09895	201-04	Kings Point	Water Auth. of Gt. Neck North	44	Up. Glacial	36.75	06/22/89	16.31	10/29/97	-----	-----	17.56	16.64	16.33	17.07	18.09	36.84
N-09896	201-05	Kings Point	Water Auth. of Gt. Neck North	90	Up. Glacial	106.18	09/10/03	73.23	12/06/95	74.46	76.32	76.30	75.78	73.97	74.62	77.48	77.66
N-09897	201-06	Manhasset	Manhasset-Lakeville WD	90	Up. Glacial	96.26	06/17/87	24.91	09/11/03	-----	-----	-----	-----	-----	-----	-----	24.91
N-09899	201-08	Plandome	Plandome Village	35	Up. Glacial	42.71	09/28/89	13.54	03/28/02	14.21	15.38	14.87	16.64	13.54	13.92	15.06	15.62
N-09900	201-09	Plandome	Port Washington WD	35	Up. Glacial	50.83	06/19/89	30.95	09/27/88	31.98	33.17	35.20	75.78	31.29	31.75	34.47	34.29
N-09905	201-14	Flower Hill	Port Washington WD	130	Up. Glacial	141.15	02/21/91	22.96	09/13/01	-----	-----	-----	35.22	30.02	24.40	25.40	27.13
N-09907	201-16	Roslyn Estates	Roslyn WD	145	Up. Glacial	175.84	12/09/98	112.40	03/23/89	-----	-----	-----	-----	-----	-----	-----	114.53
N-09917	O-10A	Hicksville	Hicksville WD	76	Up. Glacial	124.79	06/07/79	64.54	09/09/02	69.15	70.37	69.42	69.05	66.04	64.54	66.95	69.48
N-09918	X-97A	Hicksville	Levittown WD	77	Magothy (wt)	111.70	06/08/79	55.50	09/23/66	61.69	62.35	62.41	62.58	59.44	57.74	61.21	62.59
N-09919	X-98B	Hicksville	Hicksville WD	84	Up. Glacial	136.27	06/08/79	65.27	09/09/02	69.99	70.56	69.80	69.92	67.41	65.27	67.33	69.77
N-09920	P-9B	Hicksville	Hicksville WD	89	Magothy (wt)	145.95	06/07/79	68.59	09/11/02	73.85	74.23	72.65	73.38	71.26	68.59	70.73	72.76
N-09921	P-11C	Wantagh	Bethpage WD	62	Up. Glacial	94.23	06/07/79	55.84	09/07/95	58.23	57.81	59.16	59.07	56.30	57.64	57.26	58.66
N-09922	P-23	Hicksville	Hicksville WD	82	Up. Glacial	145.21	07/15/91	71.27	09/09/02	76.19	76.79	75.94	74.91	72.30	71.27	72.35	75.32
N-09924	OP-4	Levittown	Levittown WD	45	Up. Glacial	77.10	04/08/91	44.52	03/25/96	49.00	50.05	49.59	48.51	45.82	45.15	48.05	49.75
N-09925	O-13B	East Meadow	East Meadow WD	51	Up. Glacial	86.03	06/17/52	47.49	09/12/02	50.74	52.05	51.64	50.79	48.47	47.49	50.64	52.48
N-09926	OP-1	Jericho	Jericho WD	130	Magothy (wt)	168.18	09/26/00	71.78	09/11/02	89.28	90.08	89.62	87.78	76.93	71.78	75.62	76.72
N-09927	OP-3	Hicksville	Hicksville WD	94	Up. Glacial	161.68	01/28/85	70.11	09/11/02	-----	-----	75.85	76.22	73.38	70.11	72.01	73.87
N-09928	OP-2	Levittown	Levittown WD	38	Up. Glacial	76.87	03/06/91	47.87	09/12/02	51.19	53.05	52.46	51.75	48.93	47.87	50.53	52.30
N-09929	PT-6	Bethpage	Bethpage WD	40	Up. Glacial	85.87	12/14/89	44.97	07/06/89	49.11	50.83	50.60	48.19	46.67	46.54	49.31	50.58
N-09931	PT-5	Bethpage	Bethpage WD	73	Up. Glacial	119.05	03/06/91	60.83	09/11/02	65.01	65.95	65.28	65.09	62.32	60.83	62.75	65.12
N-09932	PT-4	Plainview	Bethpage WD	105	Up. Glacial	145.54	10/16/85	67.41	09/10/02	-----	-----	72.34	72.12	70.01	67.41	68.94	71.76
N-09935	TU-2	Old Bethpage	Plainview WD	135	Magothy (wt)	178.39	03/06/91	64.19	10/27/95	71.41	71.54	71.92	69.86	69.85	66.07	68.39	69.51
N-09936	TU-3	Old Bethpage	Bethpage WD	63	Up. Glacial	92.90	11/15/84	55.00	10/29/02	59.63	60.68	60.38	59.29	57.34	56.58	57.55	60.29
N-09939	HO-2	Bowling Green	Bowling Green WD	74	Up. Glacial	105.05	06/12/90	57.30	09/09/02	61.55	61.80	62.35	61.74	58.75	57.30	60.76	62.61
N-09941	G-22	Carle Place	Carle Place WD	50	Up. Glacial	86.49	11/06/84	54.19	09/09/02	57.52	57.19	58.39	57.59	55.95	54.19	56.48	57.96
N-09942	F-5A	Mineola	Mineola Village	69	Up. Glacial	112.82	06/19/39	54.03	09/09/02	56.54	57.59	57.34	57.61	55.38	54.03	55.99	58.08
N-09943	F-7A	Garden City	Garden City Village	69	Up. Glacial	90.91	06/19/39	43.51	09/11/02	-----	-----	47.83	47.10	45.17	43.51	46.51	48.13
N-09944	E-9B	Garden City Park	Garden City Village	80	Up. Glacial	96.01	06/16/49	40.58	08/12/71	45.79	47.24	46.90	47.58	44.78	43.45	45.92	48.18
N-09945	E-11A	Garden City South	W. Hempstead-Hemp. Gdns WD	67	Up. Glacial	75.72	09/28/38	28.84	12/14/71	37.32	37.92	38.17	38.13	35.82	34.77	37.45	39.46
N-09946	X-20A	Herricks	Garden City Park WD	60	Up. Glacial	106.19	04/03/53	52.24	12/02/70	55.16	55.69	55.46	56.04	53.94	53.20	54.28	56.78
N-09948	DE-1	New Hyde Park	Garden City Park WD	114	Magothy (wt)	124.83	09/09/91	40.53	04/22/82	45.27	46.88	46.13	46.25	43.11	43.05	44.78	45.74
N-09949	DE-2	New Hyde Park	Water Auth. of West. Nassau	100	Up. Glacial	106.90	03/08/91	38.55	05/17/82	43.12	44.62	44.18	45.33	42.64	40.83	43.17	45.60
N-09967	RF-18	Garden City	Roosevelt Field WD	54	Up. Glacial	82.97	12/01/92	55.37	11/10/95	-----	-----	-----	-----	-----	-----	-----	-----
N-09979	X-2A	Elmont	Water Auth. of West. Nassau	95	Up. Glacial	70.64	02/15/46	5.05	03/18/82	23.24	24.86	25.74	26.06	24.97	23.63	26.25	28.23
N-09980	U-7A	Farmingdale	Plainview WD	58	Up. Glacial	80.46	04/21/39	48.92	09/10/02	52.51	54.02	53.94	52.35	49.39	48.92	52.02	54.11
N-09981	PT-3	Plainview	Plainview WD	105	Magothy (wt)	165.66	10/16/85	71.25	09/11/02	76.76	76.91	76.61	76.56	74.21	71.25	72.74	75.46
N-09982	D-4A	New Hyde Park	Water Auth. of West. Nassau	112	Magothy (wt)	120.07	06/15/49	31.45	12/17/82	41.90	42.98	42.52	43.27	41.45	39.84	41.13	42.95

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-09983	D-5A	Floral Park	Water Auth. of West. Nassau	99	Magothy (wt)	107.39	06/15/49	30.64	09/21/71	40.22	41.49	41.05	42.24	40.05	38.30	40.07	42.44
N-09984	DE-3	Franklin Square	Franklin Square WD	60	Up. Glacial	78.00	06/27/89	29.30	06/28/82	-----	-----	-----	-----	-----	-----	-----	36.54
N-09999	X-30A	Rockville Centre	Rockville Centre Village	31	Up. Glacial	27.13	07/22/48	8.74	10/08/86	10.01	10.78	11.48	10.58	8.91	9.51	12.45	12.37
N-10000	CL-8A	Merrick	New York Water Service Corp.	41	Up. Glacial	5.41	04/25/40	0.67	06/13/88	4.31	3.66	3.91	3.11	3.41	4.23	4.01	3.39
N-10001	X-6A	Valley Stream	Long Island American Water	34	Up. Glacial	15.05	07/21/48	2.12	09/09/77	6.98	6.80	8.45	6.22	7.07	6.35	8.79	7.77
N-10002	X-26A	Lakeview	Long Island American Water	48	Up. Glacial	45.53	06/21/52	18.43	09/20/66	21.46	22.37	22.90	21.28	19.84	18.84	22.61	23.49
N-10004	X-82B	Valley Stream	Long Island American Water	26	Up. Glacial	7.58	03/03/98	-0.29	06/29/82	0.57	0.63	0.64	0.30	0.08	1.26	0.74	0.51
N-10005	X-18C	Lynbrook	Long Island American Water	42	Up. Glacial	27.80	01/13/49	5.50	08/20/86	10.46	9.84	12.70	9.01	9.27	7.85	13.01	12.03
N-10006	X-32A	Oceanside	Long Island American Water	26	Up. Glacial	10.43	01/14/49	1.76	04/07/88	4.31	4.08	3.51	3.33	3.39	4.51	4.61	4.01
N-10008	X-12A	Lawrence	Long Island American Water	31	Up. Glacial	17.73	12/14/67	4.11	12/28/50	7.51	8.43	8.42	7.51	6.25	7.31	9.16	8.08
N-10009	CL-10A	Wantagh	New York Water Service Corp.	46	Up. Glacial	14.22	03/25/96	3.96	01/29/69	6.93	6.47	7.07	5.84	6.27	6.17	7.37	9.57
N-10010	L-44A	East Rockaway	Long Island American Water	40	Up. Glacial	21.83	04/13/84	3.65	06/21/74	6.18	6.13	7.24	4.99	4.87	5.66	7.74	6.33
N-10035	CH-196A	Garden City	Garden City Village	56	Up. Glacial	77.22	01/14/49	42.36	08/06/02	-----	-----	47.57	46.53	44.97	42.82	46.21	47.56
N-10084	X-38B	Baltimore	New York Water Service Corp.	21	Up. Glacial	5.48	11/01/47	-0.49	09/19/69	1.85	1.48	1.26	2.08	1.08	2.58	2.18	1.69
N-10085	X-115A	Oceanside	Long Island American Water	31	Up. Glacial	4.84	06/20/01	0.84	01/22/88	4.12	3.94	3.83	3.10	3.47	4.14	3.95	3.37
N-10094	FG-1	Garden City	Garden City Village	66	Up. Glacial	102.02	03/06/91	49.63	09/11/02	52.07	53.56	53.82	53.30	51.42	49.63	52.82	53.98
N-10130	X-190	Point Lookout	Lido-Pr. Lookout WD	9	Up. Glacial	8.99	04/25/98	4.91	09/16/03	6.12	6.14	5.83	4.97	5.83	6.09	5.08	4.91
N-10192	X-192	Kings Point	Water Auth. of Gt. Neck North	352	Lloyd	23.35	03/28/02	-13.80	07/19/00	4.42	5.25	6.36	6.38	10.54	-12.97	5.89	-----
N-10199	H-2B	Laitingtown	Locust Valley WD	56	Up. Glacial	69.98	04/19/40	56.47	12/15/70	59.36	59.18	60.17	57.48	56.81	57.78	61.36	59.58
N-10200	H-3A	Locust Valley	Locust Valley WD	119	Up. Glacial	141.54	06/17/49	46.49	09/09/02	49.57	50.02	49.56	49.32	48.71	46.49	48.14	50.44
N-10245	G-5A	Glen Head	Sea Cliff/Aquarion Water Co.	100	Magothy (wt)	105.65	07/09/98	47.21	06/23/03	53.55	53.15	53.66	52.70	52.70	50.87	52.70	53.82
N-10246	G-6A	Greenvale	Roslyn WD	144	Up. Glacial	158.17	11/27/56	50.13	04/17/67	56.77	54.92	55.20	54.69	54.90	52.57	54.20	55.05
N-10252	E-8A	Garden City Park	Garden City Village	104	Up. Glacial	95.98	09/21/53	51.86	09/25/68	47.60	50.75	49.13	49.13	46.50	47.97	48.00	49.13
N-10290	D-3B	Lake Success	Manhasset-Lakeville WD	169	Magothy (wt)	153.16	06/16/49	30.23	07/11/88	39.93	40.30	39.60	40.69	39.53	37.88	37.70	38.80
N-10292	H-11A	East Meadow	Town of Hempstead	50	Up. Glacial	78.45	06/15/49	28.84	09/23/69	57.21	58.18	58.56	57.30	54.66	53.37	58.00	58.43
N-10390	X-142A	Great Neck Estates	Water Auth. of Gt. Neck North	100	Up. Glacial	81.75	03/23/04	10.40	03/14/95	12.25	13.44	15.53	15.36	14.68	14.12	15.79	17.24
N-10425	CL-30	Oceanside	Long Island American Water	707	Magothy	5.49	10/24/96	2.73	06/15/88	-----	-----	-----	-----	-----	-----	-----	-----
N-10430	CL-31	Hewlett Bay Park	Long Island American Water	615	Magothy	16.60	06/23/89	-0.97	06/14/88	-----	-----	-----	-----	-----	-----	-----	-----
N-10604	PT-1A	Syosset	Jericho WD	140	Up. Glacial	190.18	03/25/87	75.52	09/11/02	81.14	82.08	81.09	81.60	78.68	75.52	77.32	80.35
N-10605	P-7A	Locust Valley	Jericho WD	148	Up. Glacial	187.86	03/11/91	73.96	03/27/03	-----	-----	-----	-----	-----	-----	-----	75.73
N-10606	X-65A	Upper Brookville	Jericho WD	86	Magothy (wt)	129.90	05/28/80	58.70	03/26/02	63.72	64.03	59.95	60.60	58.70	60.35	61.24	63.20
N-10607	U-4A	Woodbury	Jericho WD	218	Magothy (wt)	260.06	04/08/85	66.30	07/19/67	74.58	73.66	74.46	73.76	73.16	69.12	69.34	70.99
N-10608	U-3A	Woodbury	Jericho WD	279	Magothy (wt)	248.49	05/30/80	61.85	07/19/67	68.81	68.28	70.07	68.45	68.49	64.63	64.38	66.11
N-10609	T-6A	Woodbury	Jericho WD	199	Magothy (wt)	238.68	05/29/80	62.68	05/31/00	72.50	72.08	72.90	72.88	72.38	68.33	68.93	70.28
N-10620	CL-32	Atlantic Beach	Long Island American Water	1150	Lloyd	10.31	05/14/02	1.26	06/14/88	-----	-----	-----	-----	-----	-----	-----	-----
N-10731	DW-1	Elmont	Water Auth. of West. Nassau	191	Magothy	70.56	04/07/04	15.16	12/04/87	23.27	25.06	24.81	25.67	24.71	23.24	25.99	28.39
N-10732	GM-1	Old Westbury	Old Westbury Village	275	Magothy	156.43	03/08/91	60.96	09/09/02	64.05	64.27	64.41	64.27	63.16	60.96	61.79	63.83
N-10882	UM-2	East Massapequa	New York Water Service Corp.	298	Magothy	39.21	06/22/89	19.03	07/25/89	23.00	23.06	24.41	20.43	21.01	20.17	24.16	22.88
N-10977	TM-2	Bethpage	Bethpage WD	694	Magothy	100.34	03/06/91	47.16	08/06/02	52.38	53.07	52.84	51.34	49.99	47.69	51.44	-----

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-10978	DM-2	Valley Stream	Long Island American Water	270	Magothy	13.57	6.81	04/07/04	-2.18	06/14/88	-----	-----	-----	5.07	1.91	-----	-----
N-10979	DM-3	Lawrence	Long Island American Water	340	Magothy	5.14	5.55	04/07/97	1.79	03/01/93	3.44	3.74	3.65	2.22	3.44	4.28	3.98
N-10980	GM-2	Uniondale	Town of Hempstead	495	Magothy	85.04	54.04	11/21/89	41.99	09/09/02	45.94	47.72	47.34	47.04	44.32	41.99	46.66
N-10981	GM-3	Hempstead	Hempstead Village	220	Magothy	61.45	37.12	11/27/89	29.07	09/11/02	32.55	33.64	33.86	32.43	30.20	29.07	34.43
N-10982	GM-4	Hempstead	Hempstead Village	548	Magothy	61.40	35.22	11/27/89	27.43	10/06/88	32.17	32.54	33.05	31.94	34.24	-----	52.89
N-11002	CL-33	Long Beach	Long Beach, City of	1255	Lloyd	10.00	7.10	04/08/98	-2.59	06/15/88	-----	-----	-----	-----	-----	-----	-----
N-11067	T-11A	Bethpage	Bethpage WD	99	Magothy	100.22	63.02	03/06/91	48.84	09/04/02	54.47	54.31	55.45	54.26	51.85	49.68	53.75
N-11109	CL-35	Long Beach	Long Beach, City of	815	Magothy	9.88	2.38	03/29/93	-7.07	09/25/95	-----	-----	-----	-----	-----	-----	-----
N-11165	M-2	Rockville Centre	Rockville Centre Village	309	Magothy	36.07	18.58	04/25/91	10.62	09/11/02	14.47	14.30	17.04	13.39	10.62	15.89	14.85
N-11166	M-1	Rockville Centre	Rockville Centre Village	645	Magothy	35.86	18.01	04/25/91	10.09	09/11/02	13.97	13.78	16.56	11.56	13.04	10.09	15.44
N-11167	M-4	Franklin Square	W. Hempstead-Hemp. Gdns WD	245	Magothy	49.16	31.69	05/08/91	23.24	08/05/02	27.31	28.25	28.58	26.80	25.43	24.05	28.06
N-11168	M-3	Franklin Square	W. Hempstead-Hemp. Gdns WD	520	Magothy	49.03	31.23	05/08/91	22.30	08/05/02	26.97	27.42	27.86	25.68	24.94	23.08	27.74
N-11169	M-8	Floral Park	Water Auth of West. Nassau	200	Magothy	82.55	39.21	09/21/01	31.07	07/25/89	33.43	34.75	34.28	39.21	33.30	32.20	34.15
N-11170	M-9	Floral Park	Water Auth of West. Nassau	385	Magothy	82.48	36.66	09/24/98	30.78	07/25/89	32.68	34.46	34.00	34.87	33.08	31.83	33.89
N-11171	M-6	Garden City	Garden City Village	230	Magothy	77.00	49.90	04/18/91	40.89	09/19/02	43.16	44.14	44.70	44.27	42.31	40.89	43.53
N-11172	M-5	Garden City	Garden City Village	455	Magothy	77.30	50.21	03/07/91	40.80	09/19/02	42.93	43.82	44.45	43.90	42.25	40.80	43.34
N-11279	L-1	Glen Cove	Jericho WD	500	Lloyd	130.71	27.31	12/10/93	8.21	09/05/95	24.89	19.96	25.26	15.61	24.81	15.18	24.61
N-11280	L-2	East Norwich	Jericho WD	645	Lloyd	186.95	69.20	03/08/91	53.75	09/11/02	57.95	56.60	57.80	56.63	58.13	53.75	55.37
N-11281	M-7	East Norwich	Jericho WD	518	Lloyd	186.97	64.97	03/18/99	54.40	09/11/02	58.01	56.77	57.93	56.67	57.59	54.40	56.35
N-11304	M-12	Old Brookville	Jericho WD	343	Magothy	142.84	73.59	05/02/91	63.03	09/09/02	65.60	66.03	66.23	66.59	64.95	63.03	64.24
N-11310	M-13	Brookville	Jericho WD	558	Magothy	220.79	84.95	03/11/91	72.07	03/26/03	77.37	76.22	77.01	73.53	73.55	74.69	72.07
N-11324	M-17	Old Brookville	Jericho WD	178	Magothy	142.64	73.81	05/02/91	63.28	09/09/02	65.85	66.29	66.41	66.84	65.18	63.28	64.27
N-11389	4G	Seaford	New York Water Service Corp.	10	Up. Glacial	4.78	4.33	09/12/02	-2.53	03/02/98	-----	3.37	3.47	3.13	3.26	4.33	3.38
N-11390	2G	Seaford	New York Water Service Corp.	14	Up. Glacial	22.12	19.93	03/02/98	15.39	09/12/02	-----	15.72	17.98	15.46	15.60	15.39	17.52
N-11394	L-3	Oyster Bay Cove	Jericho WD	680	Raritan Clay	211.52	63.12	03/11/91	53.72	09/16/02	56.07	55.92	56.92	56.26	56.89	53.72	54.14
N-11396	M-18	East Meadow	Town of Hempstead	580	Magothy	82.74	54.97	09/27/89	43.75	08/06/02	48.51	49.70	49.94	48.06	46.85	45.04	48.69
N-11397	M-19	East Meadow	Town of Hempstead	280	Magothy	82.63	56.59	04/18/90	46.12	09/16/02	49.60	50.58	50.93	49.48	47.59	46.12	49.81
N-11447	3G	Massapequa	Massapequa WD	12	Up. Glacial	19.60	18.32	04/01/96	7.30	03/02/98	-----	16.40	17.28	15.40	15.51	15.39	17.38
N-11453	L-4	Syosset	Jericho WD	860	Lloyd	207.40	50.40	04/23/91	38.40	09/12/02	42.00	40.46	43.07	40.10	42.62	38.40	41.09
N-11454	M-24	Syosset	Jericho WD	590	Magothy	207.49	82.80	03/11/91	69.63	09/12/02	74.59	74.46	74.92	73.71	73.84	69.63	70.84
N-11455	L-5	Plainview	Plainview WD	981	Lloyd	194.23	34.98	03/08/91	28.13	09/16/02	32.07	30.48	33.00	29.44	32.00	28.13	30.44
N-11456	M-25	Plainview	Plainview WD	835	Magothy	194.02	78.54	03/08/91	64.97	09/16/02	70.52	70.22	71.52	69.34	69.12	64.97	67.51
N-11457	L-6	Hicksville	Hicksville WD	860	Lloyd	152.90	30.40	02/19/98	20.72	09/03/92	25.88	23.54	26.77	21.65	26.37	21.24	25.50
N-11458	M-26	Hicksville	Hicksville WD	620	Magothy	153.10	82.54	03/06/91	68.10	11/07/02	75.35	75.30	75.48	72.04	69.48	69.08	71.41
N-11485	10G	Massapequa	Massapequa WD	-----	Up. Glacial	7.10	5.87	03/02/98	5.15	09/10/01	-----	5.38	5.50	5.15	5.30	5.40	5.49
N-11486	9G	Seaford	New York Water Service Corp.	-----	Up. Glacial	13.28	5.93	03/20/01	4.39	09/25/00	-----	4.39	5.93	5.18	5.40	5.54	5.86
N-11489	8G	Massapequa	Massapequa WD	18	Up. Glacial	27.71	23.41	03/02/98	18.86	09/12/02	-----	20.90	21.90	-11.45	18.98	18.86	21.98
N-11490	6G	Massapequa	Massapequa WD	17	Up. Glacial	30.60	25.47	03/06/97	19.13	03/02/98	-----	24.45	25.31	19.25	21.93	21.62	25.39
N-11570	L-8	East Meadow	Town of Hempstead	870	Lloyd	83.03	19.43	03/02/93	11.31	09/20/01	16.87	14.01	17.98	22.40	17.81	12.37	16.63

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations				2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
N-11572	L-10	Herricks	Garden City Village	660	Lloyd	98.17	01/07/03	-1.44	09/11/01	12.08	5.87	11.41	11.31	14.15	5.22	12.40	-----	
N-11573	L-11	Inwood	Long Island American Water	797	Lloyd	9.72	03/06/98	1.68	09/12/01	6.94	4.32	7.14	1.68	7.46	3.47	7.36	-----	
N-11574	L-12	East Hills	Roslyn WD	780	Lloyd	222.55	11/06/92	4.09	06/13/94	17.56	14.87	18.29	9.40	16.65	10.69	18.01	-----	
N-11576	L-14	Baltimore	New York Water Service Corp.	950	Lloyd	14.67	03/22/91	10.72	09/10/02	13.72	12.50	14.37	10.98	12.22	10.72	13.82	-----	
N-11577	L-15	Elmont	Water Auth of West. Nassau	720	Lloyd	44.40	03/11/98	0.45	09/12/01	4.83	4.70	7.89	0.45	8.70	3.45	8.38	-----	
N-11579	M-30	Baltimore	New York Water Service Corp.	690	Magothy	15.20	04/10/01	10.48	09/05/95	15.43	12.57	15.70	11.31	15.22	11.30	14.40	12.34	
N-11580	M-31	Elmont	Water Auth of West. Nassau	450	Magothy	45.42	04/07/04	14.62	09/12/91	16.97	17.75	17.64	17.09	17.84	15.33	19.61	20.02	
N-11633	L-7	Bethpage	Bethpage WD	1070	Lloyd	100.43	03/18/99	18.43	07/26/95	23.82	21.62	24.18	20.87	24.15	20.46	23.21	-----	
N-11634	M-32	Inwood	Long Island American Water	558	Magothy	11.03	01/06/03	-5.04	04/07/04	-2.59	-2.27	-1.52	-3.49	-0.32	-0.95	0.27	-2.51	
N-11643	M-35	Seaford	New York Water Service Corp.	700	Magothy	41.25	10/01/98	16.70	09/07/95	22.45	21.95	22.65	18.82	21.03	16.98	22.35	19.82	
N-11644	M-36	Seaford	New York Water Service Corp.	175	Magothy	41.24	03/07/91	19.29	09/07/95	23.45	23.41	24.09	21.08	21.79	19.58	24.49	23.04	
N-11659	M-37	Herricks	Garden City Park WD	419	Magothy	103.61	08/21/92	41.89	02/16/00	-----	-----	-----	-----	-----	-----	-----	43.95	
N-11671	SC-2	Glen Head	Sea Cliff/Aquarion Water Co.	24	Up. Glacial	76.53	06/19/90	54.65	09/09/02	-----	-----	59.11	57.23	56.41	54.65	56.71	58.20	
N-11672	SC-3	Roslyn Harbor	Roslyn WD	35	Up. Glacial	48.38	03/08/91	36.54	09/12/02	38.21	37.50	38.46	37.50	37.69	36.54	37.38	37.58	
N-11673	SC-4	Glenwood Landing	Jericho WD	92	Up. Glacial	113.18	06/18/90	45.48	10/25/00	-----	45.48	-----	-----	-----	-----	-----	45.91	
N-11676	SC-6	Roslyn Harbor	Roslyn WD	80	Up. Glacial	123.69	03/08/91	46.52	03/25/03	49.01	49.49	49.14	48.11	48.64	47.49	46.52	49.54	
N-11720	M-23	East Meadow	East Meadow WD	250	Magothy	62.88	11/09/90	36.90	09/09/02	40.52	41.23	41.88	40.85	38.43	36.90	41.46	41.88	
N-11721	M-22	East Meadow	East Meadow WD	621	Magothy	62.96	11/09/90	36.66	09/05/95	40.28	38.66	41.26	40.72	38.39	36.87	41.04	41.17	
N-11722	M-34	Levittown	Levittown WD	265	Magothy	59.24	07/17/98	36.13	09/19/95	39.08	-----	40.59	-----	-----	-----	-----	-----	
N-11723	M-33	Levittown	Levittown WD	653	Magothy	58.96	06/07/91	33.76	09/19/95	37.48	-----	39.21	-----	-----	-----	-----	-----	
N-11724	M-15	Plainview	Bethpage WD	176	Magothy	128.50	06/10/91	65.49	09/10/02	70.46	70.98	71.25	68.76	68.28	65.49	67.34	-----	
N-11725	M-45	Woodbury	Jericho WD	145	Magothy (wt)	197.30	06/06/91	72.19	09/12/02	76.05	76.44	77.13	79.50	74.80	72.19	72.85	73.78	
N-11726	M-44	Woodbury	Jericho WD	198	Magothy	197.52	06/06/91	71.81	09/12/02	75.92	76.51	76.79	75.32	74.39	71.81	72.64	73.59	
N-11730	L-17	Great Neck	Water Auth. of Gt. Neck North	310	Lloyd	6.97	09/16/03	-25.23	09/09/91	-4.03	5.87	10.74	5.49	10.60	-0.53	10.70	-----	
N-11731	M-14	Plainview	Bethpage WD	645	Magothy	128.23	06/10/91	63.77	09/10/02	69.38	69.68	70.33	68.48	67.71	63.77	66.18	-----	
N-11732	M-43	East Hills	Roslyn WD	443	Magothy	223.36	03/20/91	45.36	08/11/95	53.77	53.20	53.71	53.15	52.88	50.68	51.82	53.01	
N-11737	GCP-10S	Mineola	Mineola Village	53	Up. Glacial	98.55	01/09/92	48.38	08/28/02	51.25	53.25	52.46	52.79	49.81	50.65	51.87	53.47	
N-11777	SC-7	Sea Cliff	Sea Cliff/Aquarion Water Co.	78	Up. Glacial	71.43	03/04/93	10.53	09/10/01	12.90	13.26	13.34	10.53	11.97	12.07	12.87	13.22	
N-11778	SC-8	Glenwood Landing	Glenwood WD	72	Up. Glacial	96.93	11/06/91	40.11	09/09/02	-----	-----	41.79	42.46	41.16	40.11	41.46	42.31	
N-11779	E-14A	Lakeview/Malverne Pk	Long Island American Water	37	Up. Glacial	39.87	09/28/38	13.68	09/14/70	-----	-----	18.62	16.77	15.47	14.72	18.25	18.67	
N-11780	UG-1	Old Brookville	Jericho WD	89	Up. Glacial	142.74	09/09/91	63.86	10/08/02	66.59	67.30	67.25	67.96	65.94	64.29	65.58	68.11	
N-11781	E-12A	Franklin Square	W. Hempstead-Hemp. Cdns WD	48	Up. Glacial	59.32	09/28/38	27.12	09/22/71	29.94	31.14	31.05	31.12	28.15	27.87	30.32	32.60	
N-11782	GH-1A	Westbury	Westbury WD	52	Up. Glacial	111.39	03/30/82	57.93	09/09/02	62.26	62.89	62.82	62.26	60.22	57.93	60.62	62.69	
N-11783	U-13A	East Massapequa	New York Water Service Corp.	28	Up. Glacial	16.37	03/03/93	2.20	07/21/50	5.77	4.62	4.97	3.99	4.14	4.64	4.72	4.50	
N-11784	D-17A	Lawrence	Long Island American Water	24	Up. Glacial	19.01	04/11/84	4.26	09/07/93	6.85	6.16	6.44	5.62	4.98	5.26	7.23	5.33	
N-11785	D-10A	North Valley Stream	Long Island American Water	34	Up. Glacial	30.44	09/28/38	5.97	09/01/81	-----	-----	15.58	12.24	12.82	11.93	15.83	15.12	
N-11795	SC-9	Sea Cliff	Sea Cliff/Aquarion Water Co.	113	Up. Glacial	147.01	09/07/93	34.18	09/09/02	40.31	40.93	40.53	40.56	39.46	34.18	39.92	41.78	
N-11798	L-16	Old Brookville	Jericho WD	640	Lloyd	142.47	03/27/92	19.25	09/09/95	30.42	30.42	30.94	23.87	30.52	23.47	30.22	-----	
N-11822	M-38	Oyster Bay Cove	Jericho WD	305	Magothy	209.68	09/10/91	54.21	09/16/02	56.36	56.36	57.47	56.84	57.38	54.21	54.65	56.47	

TABLE A-1

Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (ft)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003		
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
N-11823	M-42	Oyster Bay Cove	Jericho WD	520	Magothy	208.88	62.35	09/10/91	54.24	09/16/02	55.53	55.94	57.45	56.77	57.58	54.24	54.70	56.40
N-11824	M-39	Glen Cove	Glen Cove, City of	252	Magothy	130.96	57.69	03/08/93	50.98	09/09/02	52.92	53.53	54.26	53.20	52.66	50.98	52.34	56.41
N-11830	UG-2	Uniondale	Town of Hempstead	31	Up. Glacial	75.08	59.34	11/14/91	56.45	03/25/04	*****	*****	*****	*****	*****	*****	*****	*****
N-11837	L-18	Roosevelt	Long Island American Water	895	Lloyd	46.20	14.91	03/02/98	7.61	09/10/01	13.08	9.23	13.56	7.61	13.30	8.15	12.63	*****
N-11865	M-40	Herricks	Garden City Park WD	205	Magothy	97.05	58.26	11/27/91	44.91	07/24/02	48.07	49.49	49.11	49.28	46.81	45.28	47.64	49.41
N-11866	M-41	Herricks	Garden City Park WD	436	Magothy	96.72	53.89	06/10/91	44.81	09/09/02	47.61	48.98	48.80	48.84	46.39	44.81	47.23	48.98
N-11961	L-19	East Massapequa	New York Water Service Corp.	1299	Lloyd	4.65	21.18	03/29/04	8.98	03/26/03	19.31	18.46	19.21	20.22	*****	16.95	8.98	*****
N-11962	M-50	East Massapequa	New York Water Service Corp.	861	Magothy	4.80	18.40	03/26/03	6.70	09/08/97	12.90	11.25	9.44	10.40	*****	7.90	18.40	8.05
N-11964	M-46	East Hills	Roslyn WD	183	Up. Glacial	222.26	60.07	03/04/93	50.72	09/12/02	54.64	54.16	54.58	54.16	53.75	50.72	52.76	54.00
N-11987	L-20	Franklin Square	W. Hempstead-Hemp. Gdns WD	813	Lloyd	49.28	13.09	03/22/99	1.30	09/12/01	9.53	10.23	9.17	1.30	10.88	4.83	10.04	*****
N-12004	L-21	Carle Place	Carle Place WD	850	Lloyd	91.06	18.33	03/17/98	7.62	09/11/01	15.96	11.41	16.90	7.62	17.16	10.06	16.14	*****
N-12013	L-22	Kings Point	Water Auth. of Gt. Neck North	200	Lloyd	18.09	11.52	03/25/04	-0.81	01/08/93	*****	*****	*****	*****	*****	*****	*****	*****
N-12038	L-23	Great Neck Gardens	Water Auth. of Gt. Neck North	372	Lloyd	88.46	15.39	03/23/04	3.60	10/28/92	*****	*****	*****	*****	*****	*****	*****	*****
N-12039	L-24	Rockville Centre	Rockville Centre Village	1015	Lloyd	34.08	11.59	03/09/99	4.48	09/10/01	10.46	6.64	10.87	4.48	10.98	6.17	10.48	*****
N-12050	L-25	Kings Point	Water Auth. of Gt. Neck North	270	No. Shore	47.88	2.52	09/15/03	-1.72	01/28/93	*****	*****	*****	*****	*****	*****	*****	*****
N-12075	L-27	Laurel Hollow	Jericho WD	850	Lloyd	197.16	39.06	03/30/92	32.75	09/06/95	36.16	34.78	36.90	34.77	36.46	33.00	34.43	*****
N-12076	L-28	Kings Point	Water Auth. of Gt. Neck North	260	Lloyd	64.96	7.28	12/10/03	-1.29	01/14/98	*****	*****	*****	*****	*****	2.32	*****	*****
N-12079	L-29	Kings Point	Water Auth. of Gt. Neck North	177	Lloyd	9.25	7.49	03/24/04	-1.45	07/27/99	*****	*****	*****	*****	*****	*****	*****	*****
N-12082	L-30	Great Neck Gardens	Water Auth. of Gt. Neck North	490	Lloyd	111.31	16.41	03/23/04	4.51	08/20/92	*****	*****	*****	*****	*****	*****	*****	*****
N-12102	L-31	Kings Point	Water Auth. of Gt. Neck North	245	No. Shore	10.57	5.20	03/23/04	-0.53	08/20/92	*****	*****	*****	*****	*****	*****	*****	*****
N-12112	L-32	Kings Point	Water Auth. of Gt. Neck North	285	No. Shore	23.33	11.76	03/25/04	-3.01	08/20/98	*****	*****	*****	*****	*****	*****	*****	*****
N-12113	M-52	Floral Park	Water Auth. of West. Nassau	195	Magothy	75.54	38.36	03/10/98	30.58	09/13/02	32.56	34.36	32.46	33.63	31.79	30.58	32.84	34.75
N-12114	M-51	Floral Park	Water Auth. of West. Nassau	420	Magothy	75.98	34.20	03/24/04	28.69	09/12/02	31.12	32.76	31.53	31.68	30.27	28.69	31.46	33.34
N-12134	L-34	Plandome Manor	Manhasset-Lakeville WD	365	Lloyd	9.31	6.03	02/03/98	-10.21	08/16/99	*****	-2.85	*****	*****	*****	*****	*****	*****
N-12151	L-37	Sands Point	Sands Point Village	348	No. Shore	72.85	4.55	02/18/93	-0.46	08/24/00	*****	*****	*****	*****	*****	*****	*****	4.27
N-12152	M-53	Great Neck	Water Auth. of Gt. Neck North	146	Magothy	30.97	11.79	03/25/04	-8.76	08/17/99	*****	*****	*****	*****	*****	*****	*****	*****
N-12153	L-33	Kings Point	Water Auth. of Gt. Neck North	333	Lloyd	60.16	6.86	02/18/93	-14.74	08/20/99	*****	*****	*****	*****	*****	3.16	*****	*****
N-12154	L-26	Thomaston	Manhasset-Lakeville WD	515	Lloyd	109.10	15.57	12/07/98	-6.14	07/17/02	4.81	6.76	13.99	2.12	14.89	2.51	12.13	*****
N-12156	L-38	Hempstead	Hempstead Village	932	Lloyd	60.42	14.52	03/10/98	5.92	09/12/01	7.60	8.43	10.98	5.92	13.01	7.81	12.39	*****
N-12163	E-6B	North Hills	Manhasset-Lakeville WD	230	Magothy (wt)	167.48	68.09	04/14/50	31.11	09/09/02	38.72	37.85	38.83	35.77	36.17	31.11	34.29	33.85
N-12164	X-9A	Cedarhurst	Long Island American Water	37	Up. Glacial	23.81	14.10	09/20/78	3.96	06/14/88	7.81	8.91	8.63	7.35	6.20	6.24	10.24	9.16
N-12190	L-40	Sands Point	Sands Point Village	235	Lloyd	52.13	5.03	03/31/04	2.43	08/10/93	*****	*****	*****	*****	*****	*****	*****	4.29
N-12191	L-35	Munsey Park	Manhasset-Lakeville WD	674	Lloyd	203.95	11.31	03/25/99	0.86	03/31/04	*****	*****	*****	*****	*****	*****	*****	*****
N-12209	L-39	Sands Point	Sands Point Village	365	No. Shore	52.46	11.16	06/24/98	6.06	07/25/02	*****	*****	*****	*****	*****	*****	*****	8.28
N-12232	L-36	Baxter Estates	Port Washington WD	384	No. Shore	16.12	6.72	10/19/98	-2.56	08/03/99	*****	2.05	*****	*****	*****	*****	*****	2.02
N-12238	U-10A	South Farmingdale	South Farmingdale WD	36	Up. Glacial	48.76	40.91	03/31/53	32.81	03/27/02	35.65	37.28	37.43	35.31	32.81	33.66	37.26	37.87
N-12239	U-9A	South Farmingdale	South Farmingdale WD	42	Up. Glacial	57.16	49.91	11/15/84	38.64	03/27/02	41.60	43.51	43.36	41.51	38.64	39.25	42.61	43.91
N-12240	NS-9	Sands Point	Sands Point Village	60	Up. Glacial	52.43	31.73	06/24/98	26.79	06/27/95	*****	*****	*****	*****	*****	*****	*****	29.49
N-12241	M-54	Sands Point	Sands Point Village	117	Up. Glacial	52.33	32.98	06/24/98	25.38	07/24/02	*****	29.50	*****	*****	*****	*****	*****	31.00

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Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-12249	U-11A	North Amityville	New York Water Service Corp.	26	Up. Glacial	33.21	04/27/84	18.40	06/01/79	23.46	23.59	24.81	21.84	21.11	21.43	24.80	23.98
N-12250	S-181A	Levittown	Levittown WD	44	Up. Glacial	70.35	05/29/80	39.03	10/08/02	42.87	44.14	44.53	42.21	40.36	40.09	43.02	44.14
N-12252	X-25A	Hempstead Gardens	W. Hempstead-Hemp. Gdns WD	50	Up. Glacial	58.90	06/21/52	22.81	09/12/02	26.48	25.89	27.60	25.55	24.67	22.81	26.88	27.98
N-12253	X-27A	Lakeview	Long Island American Water	44	Up. Glacial	38.60	06/08/43	12.00	08/05/98	15.42	16.72	16.75	14.80	13.94	12.41	16.50	16.40
N-12254	X-28	Rockville Centre	Rockville Centre Village	41	Up. Glacial	42.55	06/23/52	18.87	09/20/66	-----	-----	-----	-----	-----	-----	-----	21.98
N-12255	X-89	Island Park	Long Island American Water	26	Up. Glacial	6.68	06/23/89	-1.56	05/28/58	-----	-----	-----	-----	-----	-----	-----	2.31
N-12256	P-2A	Oyster Bay	Oyster Bay WD	29	Up. Glacial	22.55	09/21/98	12.80	04/18/86	23.40	23.55	23.70	23.51	23.35	22.77	23.23	23.75
N-12257	X-22A	Garden City	Garden City Village	60	Up. Glacial	89.16	06/20/49	41.45	09/22/71	45.11	45.88	45.96	45.81	43.22	41.77	45.16	46.57
N-12258	X-4B	Elmont	Water Auth. of West. Nassau	45	Up. Glacial	45.36	06/20/52	1.99	04/08/83	15.46	16.03	19.36	16.45	16.05	14.66	18.48	19.43
N-12259	D-8A	Elmont	Water Auth. of West. Nassau	60	Up. Glacial	69.55	04/21/39	14.76	09/21/71	23.73	27.35	27.05	27.05	25.85	24.46	27.40	29.23
N-12260	G-14B	Uniondale	Water Auth. of West. Nassau	44	Up. Glacial	69.75	06/14/52	37.56	09/11/02	40.34	41.25	41.23	40.90	38.11	37.56	40.27	42.61
N-12262	NS-12	Baxter Estates	Port Washington WD	80	Up. Glacial	15.60	03/26/04	8.46	07/30/99	-----	11.46	12.35	-----	-----	-----	-----	11.66
N-12263	M-55	Baxter Estates	Port Washington WD	290	No. Shore	17.13	03/26/04	-3.17	07/30/99	-----	9.92	-----	-----	-----	-----	-----	2.06
N-12264	P/WWD-3	Baxter Estates	Port Washington WD	20	Up. Glacial	17.13	03/24/94	8.65	07/15/02	9.86	9.52	10.11	8.85	9.39	9.46	10.51	9.81
N-12274	F-4A	Williston Park	Williston Park Village	65	Up. Glacial	106.80	06/19/39	54.78	09/09/02	57.88	58.52	58.46	58.70	56.73	54.78	56.78	58.93
N-12275	X-5A	Valley Stream	Long Island American Water	45	Up. Glacial	36.15	07/21/48	1.69	10/08/81	11.10	9.33	13.04	11.19	11.39	10.31	14.36	14.24
N-12276	G-20A	Freeport	Freeport Village	26	Up. Glacial	5.26	09/28/00	1.80	09/06/95	2.43	2.76	2.17	2.00	2.27	2.65	2.34	-----
N-12277	X-41B	Wantagh	New York Water Service Corp.	30	Up. Glacial	26.59	03/28/62	13.40	12/03/65	15.85	16.40	16.57	14.44	14.91	14.73	16.49	15.44
N-12278	X-57A	Floral Park	Water Auth. of West. Nassau	70	Up. Glacial	84.47	09/25/46	26.62	09/06/72	38.02	38.79	39.20	37.95	36.41	35.20	36.83	38.25
N-12318	L-45	Sands Point	Sands Point Village	165	No. Shore	8.50	03/31/04	3.44	08/11/99	-----	4.53	-----	3.15	3.87	-----	-----	4.67
N-12319	L-43	Sands Point	Sands Point Village	385	Lloyd	65.68	03/20/97	4.71	08/17/99	-----	6.11	-----	-----	-----	-----	-----	9.24
N-12320	L-41	Port Washington	Port Washington WD	530	No. Shore	140.56	12/21/98	13.21	09/21/00	-----	13.21	-----	-----	-----	-----	-----	14.34
N-12321	L-42	Port Washington	Port Washington WD	572	No. Shore	153.54	05/05/94	13.43	09/19/00	-----	13.43	-----	-----	-----	-----	-----	14.74
N-12338	F-16A	Oceanside	Long Island American Water	25	Up. Glacial	5.67	03/01/79	4.96	07/30/86	3.90	3.47	3.87	2.65	3.15	4.09	3.98	-----
N-12343	M-56	Sands Point	Sands Point Village	170	Magothy	65.46	01/31/94	9.77	08/14/02	-----	11.66	-----	-----	-----	-----	-----	12.87
N-12361	P-21A	Massapequa	New York Water Service Corp.	22	Up. Glacial	4.29	03/12/99	-0.15	06/09/76	1.69	2.99	0.89	0.64	1.27	2.99	2.40	2.70
N-12362	H-14A	North Merrick	New York Water Service Corp.	38	Up. Glacial	49.66	03/21/39	27.26	09/09/02	30.22	30.46	31.17	29.28	27.76	27.26	31.49	31.25
N-12430	X-15A	Garden City	Garden City Village	65	Up. Glacial	85.29	09/24/98	37.66	09/12/02	40.05	41.07	41.29	41.34	39.24	37.66	40.31	42.37
N-12450	L-46	Lake Success	Manhasset-Lakeville WD	680	Lloyd	219.69	08/01/95	0.52	11/02/01	-----	-----	-----	-----	-----	-----	-----	-----
N-12451	MN-16	Port Washington	Port Washington WD	115	Up. Glacial	153.55	09/17/03	118.01	09/09/95	119.41	120.73	121.22	121.06	118.83	118.91	121.45	122.36
N-12455	LS-2	Lake Success	Manhasset-Lakeville WD	195	Magothy (wt)	219.63	03/31/04	32.15	09/16/03	-----	-----	-----	-----	-----	-----	-----	32.15
N-12464	MNR-2	Kings Point	Water Auth. of Gt. Neck North	19	Up. Glacial	30.82	03/27/03	23.67	08/22/02	28.57	27.51	28.50	26.48	23.90	26.12	28.72	27.00
N-12465	M-57	Kings Point	Water Auth. of Gt. Neck North	125	No. Shore Con.	30.76	03/25/04	23.14	01/11/00	-----	-----	-----	-----	-----	-----	-----	25.85
N-12469	M-58	Thomaston	Manhasset-Lakeville WD	195	Up. Glacial	108.88	03/29/04	12.79	09/22/99	14.18	14.07	17.56	15.37	18.30	15.88	18.61	17.26
N-12470	PS-2	Thomaston	Manhasset-Lakeville WD	70	Up. Glacial	108.86	04/03/01	46.64	09/26/00	49.32	46.64	-----	-----	-----	-----	-----	-----
N-12483	PS-3	Thomaston	Manhasset-Lakeville WD	30	Up. Glacial	108.88	06/03/03	92.15	03/09/99	-----	-----	-----	-----	-----	-----	-----	-----
N-12506	L-48	Port Washington	Port Washington WD	496	Lloyd	33.16	01/28/98	8.01	08/04/99	-----	13.87	-----	-----	-----	-----	-----	12.20
N-12507	L-47	Flower Hill	Port Washington WD	605	Lloyd	117.16	01/09/98	8.08	09/17/03	-----	19.66	-----	-----	-----	-----	-----	8.08
N-12508	L-49	Port Washington	Port Washington WD	375	Lloyd	60.01	10/23/00	-10.59	08/12/02	-----	2.27	-----	-----	-----	-----	-----	-1.37

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Monitoring Well Network

REGIONAL WATER ELEVATIONS
(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations					2000		2001		2002		2003			
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall			
N-12522	HHP-1	Port Washington	Port Washington WD	215	Magothy	32.37	15.13	04/02/04	12.72	08/04/99	25.87										
N-12523	L-50	North Hills	Port Washington WD	768	Lloyd	187.54	14.21	11/05/98	3.50	09/17/03	13.47										
N-12570	LIWC-1	North Woodmere	Long Island American Water	550	Magothy	4.58	3.76	05/01/98	-0.38	09/25/97							-0.16				
N-12571	LIWC-2	North Woodmere	Long Island American Water	535	Magothy	2.35	4.23	10/09/96	0.17	07/23/01							0.19				
N-12572	LIWC-3	North Woodmere	Long Island American Water	199	Jameco	4.55	4.25	12/06/00	-3.45	09/25/97							-2.46				
N-12573	LIWC-4	North Woodmere	Long Island American Water	150	Jameco	2.36	-3.13	12/07/00	-8.61	09/25/97							-6.70				
N-12579	NTOB-1	Glen Cove	Glen Cove, City of	193	Up. Glacial	89.45	47.90	09/26/03	43.35	08/07/02	46.20									47.90	
N-12609	LB-1	Long Beach	Long Beach, City of	25	Up. Glacial	8.38	4.43	03/23/98	2.83	03/27/02	3.58	3.73	3.65	3.04	2.83	3.81	3.97	3.41			
N-12610	X-31B	Oceanside	Long Island American Water	35	Up. Glacial	18.49	9.02	05/13/58	3.92	12/16/88	5.69	5.79	6.60	4.99	4.79	5.63	6.91	6.21			
N-12611	EF-10	West Hempstead	Garden City South WD	55	Up. Glacial	71.90	41.14	03/09/99	33.15	09/11/02	35.65	35.70	36.52	36.62	33.80	33.15	35.68	37.91			
N-12612	X-46A	South Floral Park	Water Auth. of West. Nassau	50	Up. Glacial	64.34	50.27	06/21/52	22.26	12/17/82	31.76	32.94	32.58	32.69	30.92	30.24	31.99	33.93			
N-12613	F-9A	Hempstead	Hempstead Village	45	Up. Glacial	57.93	40.44	03/12/97	31.72	09/11/02	35.10	35.53	35.68	34.95	33.17	31.72	34.61	36.70			
N-12614	D-12A	Valley Stream	Long Island American Water	25	Up. Glacial	13.44	10.54	09/28/38	3.53	09/05/95	6.19	5.84	6.76	5.12	5.67	4.94	6.73	5.37			
N-12618	NTOB-2	Bayville	Bayville Village	410	Lloyd	32.06	9.01	03/19/04	-12.59	07/26/02										3.71	
N-12635	NTOB-3	Glen Cove	Glen Cove, City of	432	Lloyd	89.99	16.37	01/08/98	5.84	09/02/99										8.48	
N-12646	NTOB-4	Laitingtown	Locust Valley WD	520	Lloyd	88.90	24.85	10/30/00	14.60	07/31/03										18.33	
N-12665	NTOB-5	Laitingtown	Locust Valley WD	385	No. Shore Con.	88.48	23.33	11/04/98	16.78	09/17/03										16.78	
N-12667	NTOB-7	Glen Cove	Glen Cove, City of	500	Lloyd	94.73	20.11	02/18/98	1.13	06/21/96										10.88	
N-12697	NTOB-8	Mill Neck	Locust Valley WD	595	Lloyd	142.02	25.26	03/22/04	16.24	08/22/03										19.77	
N-12711	MLNK-1	Mill Neck	Locust Valley WD	140	Up. Glacial	142.04	51.84	07/16/96	30.09	09/09/02	31.14	32.13	31.80	32.28	31.16	30.09	31.24	33.16			
N-12733	NTOB-9	Cove Neck	Private	703	Lloyd	154.47	20.92	03/22/04	-10.63	12/10/96										19.97	
N-12743	CVNK-1	Cove Neck	Private	190	Up. Glacial	154.50	8.23	03/11/97	3.94	09/10/02	4.28	4.85	4.60	4.70	5.92	3.94	4.90	5.34			
N-12747	CIWT-1	Centre Island	Private	510	Lloyd	9.39	12.83	04/05/01	6.39	07/16/02	11.59	12.04	12.18	10.27	12.09	10.67	11.72	11.72			
N-12754	CIUG-1	Centre Island	Private	20	Up. Glacial	9.39	3.86	04/05/01	2.29	03/26/02	3.02	3.01	3.86	2.70	2.29	2.89	3.19	3.16			
N-12755	CIUG-1	Centre Island	Private	118	Up. Glacial	9.39	3.41	06/19/01	0.78	11/02/00							2.21	2.47			
N-12768	NTOB-11	Oyster Bay Cove	Oyster Bay WD	849	Lloyd	203.06	39.42	11/10/98	14.31	08/21/02										36.59	
N-12769	P-7B	Locust Valley	Locust Valley WD	180	Magothy	218.76	80.97	09/22/98	72.46	09/11/02	78.94	79.06	78.45	76.91	77.06	72.46	72.86	73.91			
N-12771	KPWT-1	Kings Point	Water Auth. of Gt. Neck North	90	Up. Glacial	100.41	87.71	06/16/03	81.73	09/19/01	85.57	83.14	87.03	81.73	82.84	82.34	87.17	82.78			
N-12772	KPIUG-1	Kings Point	Water Auth. of Gt. Neck North	30	Up. Glacial	100.69	94.85	06/16/03	87.94	09/23/98	92.08	91.18	93.71	88.40	89.10	88.50	93.70	89.87			
N-12774	NTOB-12	Bayville	Bayville Village	387	Lloyd	19.47	10.07	03/19/04	-7.73	07/18/02	7.67		8.31	5.06	4.77	-0.32	6.62	3.67			
N-12775	BVNUG-1	Bayville	Bayville Village	145	Up. Glacial	19.46	5.13	09/26/03	2.56	05/21/97										5.13	
N-12785	BVNWT-1	Bayville	Bayville Village	45	Up. Glacial	19.39	10.07	03/12/98	-1.01	09/11/01	3.04		3.15	-1.01	2.19	3.79	3.54	3.89			
N-12790	NTOB-13	Bayville	Bayville Village	424	Lloyd	8.94	9.70	06/05/97	2.80	07/21/03						4.84				7.22	
N-12791	BVEUG-1	Bayville	Bayville Village	90	Up. Glacial	8.94	5.10	06/05/97	2.44	07/21/03										3.53	
N-12793	PWMN-1	Port Washington	Port Washington WD	410	Lloyd	66.24	7.38	03/12/98	-13.21	08/12/02	3.28	-0.87	3.66	-8.62	5.76	-5.26	2.50	-2.17			
N-12853	NTOB-14	Glen Head	Sea Cliff/Aquarion Water Co.	681	Lloyd	194.07	23.33	08/29/97	13.39	09/07/99										14.47	
N-12855	NTOB-15	Upper Brookville	Jericho WD	900	Lloyd	188.48	53.28	01/27/99	47.68	08/13/02										49.68	
N-12856	BVEWT-1	Bayville	Bayville Village	34	Up. Glacial	8.94	3.94	06/05/97	3.59	10/16/97											
N-12870	NTOB-16	Bayville	Bayville Village	435	Lloyd	188.48	9.90	03/23/04	-5.04	08/14/98											4.57

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REGIONAL WATER ELEVATIONS

(elevations in feet above mean sea level)

Monitoring Well No.	NCDPW Well No.	Community	Public Water Supply Area in which Monitoring Well is Located	Screen Depth (1)	Aquifer	Measuring Point Elevation	Historical Maximum/Minimum Water Elevations			2000		2001		2002		2003	
							Max	Date	Min	Date	Spring	Fall	Spring	Fall	Spring	Fall	Spring
N-12871	UBUG-1	Upper Brookville	Jericho WD	160	Up. Glacial	188.48	01/26/98	80.48	08/07/02	81.98	83.53	82.58	83.74	81.55	80.52	82.00	84.43
N-12880	NTOB-17	Mattinecock	Locust Valley WD	625	Lloyd	93.85	03/17/04	32.85	08/14/02	-----	-----	-----	-----	-----	-----	-----	39.04
N-12894	SSTOB-1	Tobay Beach	Tobay Beach	1831	Lloyd	8.21	10/28/99	12.31	08/27/02	-----	-----	-----	-----	-----	12.31	-----	-----
N-12895	PWUG-1	Port Washington	Port Washington WD	80	Up. Glacial	66.47	08/06/03	15.70	03/15/00	15.70	16.68	16.14	17.13	15.90	15.90	18.07	17.85
N-12921	NTOB-18	Locust Valley	Locust Valley WD	341	Lloyd	10.72	03/23/04	-1.48	08/09/99	-----	-----	-----	-----	-----	9.61	-----	8.51
N-12929	NTOB-19	Oyster Bay	Oyster Bay WD	650	Lloyd	51.13	11/05/98	27.51	08/05/99	-----	-----	-----	-----	-----	-----	-----	28.88
N-12945	BVSWT-1	Bayville	Bayville Village	20	Up. Glacial	10.36	09/26/03	2.44	03/23/04	-----	-----	-----	-----	-----	-----	-----	2.82
N-12946	BVSUG-1	Bayville	Bayville Village	110	Up. Glacial	10.43	07/28/00	-0.77	07/10/02	-----	-----	-----	-----	-----	-----	-----	2.83

(1) Depth below ground from top of well to bottom of screen zone.

TABLE A-2

**DRINKING WATER MAXIMUM CONTAMINANT LEVELS (MCLs)
and
CLASS GA GROUNDWATER STANDARDS**

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per million (ppm)	New York State Class GA Groundwater Standard (2) parts per million (ppm)
Inorganic Chemicals	Antimony	0.006	0.003
	Arsenic	0.05	0.025
	Barium	2	1
	Beryllium	0.004	0.003
	Cadmium	0.005	0.005
	Chromium	0.10	0.05
	Cyanide (free)	0.2	0.2
	Mercury	0.002	0.0007
	Selenium	0.05	0.01
	Silver	0.1	0.05
	Thallium	0.002	0.02
	Fluoride	2.2	1.5
	Chloride	250	250
	Iron	0.3 (3)	0.3
	Manganese	0.3 (3)	0.3
	Sodium	No designated limits (4)	20
	Sulfate	250	250
	Zinc	5	2
	Lead	0.015 (5)	0.025
	Nickel	0.1	0.1
Nitrate as N	10 (6)	10	
Nitrite as N	1 (6)	1	
Copper	1.3 (5)	0.2	

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per billion (ppb)	New York State Class GA Groundwater Standard (2) parts per billion (ppb)
Inorganic Contaminant	Perchlorate	18 (7) 5 (8)	-

TABLE A-2

**DRINKING WATER MAXIMUM CONTAMINANT LEVELS (MCLs)
and
CLASS GA GROUNDWATER STANDARDS**

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per billion (ppb)	New York State Class GA Groundwater Standard (2) parts per billion (ppb)
Principal Organic Contaminants (POCs)	Benzene	5	1
	Bromobenzene	5	5
	Bromochloromethane	5	5
	Bromomethane	5	5
	N-Butylbenzene	5	5
	Sec-Butylbenzene	5	5
	Tert-Butylbenzene	5	5
	Carbon Tetrachloride	5	5
	Chlorobenzene	5	5
	Chloroethane	5	5
	Chloromethane	5	5
	2-Chlorotoluene	5	5
	4-Chlorotoluene	5	5
	Dibromomethane	5	5
	1,2-Dichlorobenzene	5	3
	1,3-Dichlorobenzene	5	3
	1,4-Dichlorobenzene	5	3
	Dichlorodifluoromethane	5	5
	1,1-Dichloroethane	5	5
	1,2-Dichloroethane	5	0.6
	1,1-Dichloroethene	5	5
	cis-1,2-Dichloroethene	5	5
	trans-1,2-Dichloroethene	5	5
	1,2-Dichloropropane	5	5
	1,3-Dichloropropane	5	5
	2,2-Dichloropropane	5	5
	1,1-Dichloropropene	5	-

TABLE A-2

**DRINKING WATER MAXIMUM CONTAMINANT LEVELS (MCLs)
and
CLASS GA GROUNDWATER STANDARDS**

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per billion (ppb)	New York State Class GA Groundwater Standard (2) parts per billion (ppb)
	cis-1,3-Dichloropropene	5	0.4
	trans-1,3-Dichloropropene	5	0.4
	Ethylbenzene	5	5
	Hexachlorobutadiene	5	0.5
	Isopropylbenzene	5	5
	p-Isopropyltoluene	5	-
	Methylene Chloride	5	5
Principal	Methyl Tert. Butyl Ether (MTBE)	10	-
Organic	n-Propylbenzene	5	5
Contaminants	Styrene	5	5
(POCs)	1,1,1,2-Tetrachloroethane	5	5
<i>(Cont'd.)</i>	1,1,2,2-Tetrachloroethane	5	5
	Tetrachloroethene	5	5
	Toluene	5	5
	1,2,3-Trichlorobenzene	5	5
	1,2,4-Trichlorobenzene	5	5
	1,1,1-Trichloroethane	5	5
	1,1,2-Trichloroethane	5	1
	Trichloroethene	5	5
	Trichlorofluoromethane	5	5
	1,2,3-Trichloropropane	5	0.04
	1,2,4-Trimethylbenzene	5	5
	1,3,5-Trimethylbenzene	5	5
	m-Xylene	5	5
	o-Xylene	5	5
	p-Xylene	5	5
	Vinyl Chloride	2	2

TABLE A-2

**DRINKING WATER MAXIMUM CONTAMINANT LEVELS (MCLs)
and
CLASS GA GROUNDWATER STANDARDS**

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per billion (ppb)	New York State Class GA Groundwater Standard (2) parts per billion (ppb)
Specific Organic Chemicals/ Pesticides (SOCs) Group 1 Chemicals	Alachlor	2	0.5
	Aldicarb	3	0.35
	Aldicarb Sulfone	2	-
	Aldicarb Sulfoxide	4	-
	Atrazine	3	7.5
	Carbofuran	40	15
	Chlordane, Total	2	0.05
	DBCP (9)	0.2	0.04
	2,4-D	50	-
	Endrin	2	-
	1,2-Dibromoethane (EDB)	0.05	0.0006
	Heptachlor	0.4	0.04
	Heptachlor Epoxide	0.2	0.03
	Lindane	0.2	-
	Methoxychlor	40	35
Polychlorinated Biphenyls (PCBs)	0.5	0.09	
Pentachlorophenol	1	1	
Toxaphene	3	0.06	
2,4,5-TP (Silvex)	10	0.26	

Specific Organic Chemicals/ Pesticides (SOCs) Group 2 Chemicals	Aldrin	5	-
	Benzo(a)pyrene	0.2	-
	Butachlor	50	3.5
	Carbaryl	50	29
	Dalapon	200	50
	Di(2-ethylhexyl)adipate	400	20
	Di(2-ethylhexyl)phthalate	6	-
	Dicamba	50	0.44
	Dieldrin	5	0.004
	Dinoseb	7	1
Diquat	20	20	
Endothall	100	50	

TABLE A-2

**DRINKING WATER MAXIMUM CONTAMINANT LEVELS (MCLs)
and
CLASS GA GROUNDWATER STANDARDS**

Analysis Category	Constituent/ Contaminant	New York State Drinking Water MCL (1) parts per billion (ppb)	New York State Class GA Groundwater Standard (2) parts per billion (ppb)
Specific Organic Chemicals/ Pesticides (SOCs) Group 2 Chemicals (Cont'd.)	Glyphosate	700	50
	Hexachlorobenzene	1	0.04
	Hexachlorocyclopentadiene	50	5
	3-Hydroxycarbofuran	50	-
	Methomyl	50	0.35
	Metolachlor	50	-
	Metribuzin	50	50
	Oxamyl (Vydate)	200	50
	Picloram	500	50
	Propachlor	50	35
Simazine	4	0.5	
2,3,7,8-TCDD (Dioxin)	0.00003	-	
Unspecified Organic Contaminants (UOCs)	<i>any organic compound that does not appear in the POC or SOC listing or specific chemical classes (10)</i>	50	50
Total POCs & UOCs	<i>combined total concentration</i>	100	100

Table A-2 Footnotes:

- (1) New York State Department of Health (NYSDOH) State Sanitary Code and Nassau County Department of Health (NCDH). Refer to NYS Sanitary Code and NCDH for drinking water sampling frequencies, monitoring schedules, physical characteristics, and other requirements not included in Table A-2.
- (2) NYSDEC - Division of Water TOGS - listing includes Class GA groundwater quality standards and guidance values.
- (3) Combined concentration of iron and manganese should not exceed 0.5 ppm (mg/l).
- (4) NYSDOH recommends 20 ppm (mg/l) for severely restricted sodium diets, 270 ppm for moderately restricted sodium diets.
- (5) United States Environmental Protection Agency (USEPA) designated Action Level
- (6) MCL for combined sum of Nitrate and Nitrite is 10 ppm (mg/l)
- (7) NYSDOH Primary Action Level
- (8) NYSDOH Secondary Action Level
- (9) 1,2 Dibromo-3-Chloropropane
- (10) The MCL for certain unlisted compounds that fall into specific chemical classes is 5 ppb, refer to NYS Sanitary Code.