

**APPENDIX D**

**SCWA GROUNDWATER SAMPLING RESULTS**

## SCWA Great Neck Road Wellfield and Pump Station

## Magothy Aquifer Data

2010

Sample Location	Parameter	Concentration	Date
GREAT NECK RD #2 S-54568	Conductivity umho/cm	226	13-Dec-10
GREAT NECK RD #2 S-54568	CO2 mg/l	176	13-Dec-10
GREAT NECK RD #2 S-54568	TDS mg/l	115	13-Dec-10
GREAT NECK RD #2 S-54568	Chloride mg/l	55	13-Dec-10
GREAT NECK RD #2 S-54568	Hardness, calc mg/l	30	13-Dec-10
GREAT NECK RD #2 S-54568	Sodium mg/l	22.4	13-Dec-10
GREAT NECK RD #2 S-54568	Sodium mg/l	22.3	13-Dec-10
GREAT NECK RD #2 S-54568	Calcium mg/l	12.6	13-Dec-10
GREAT NECK RD #2 S-54568	Sulfate mg/l	11.8	13-Dec-10
GREAT NECK RD #2 S-54568	Nickel ug/l	8.84	13-Dec-10
GREAT NECK RD #2 S-54568	Calcium mg/l	6.23	13-Dec-10
GREAT NECK RD #2 S-54568	Cobalt ug/l	5.25	13-Dec-10
GREAT NECK RD #2 S-54568	pH pH Units	4.56	13-Dec-10
GREAT NECK RD #2 S-54568	Lithium ug/l	4.24	13-Dec-10
GREAT NECK RD #2 S-54568	Silicon mg/l	4.08	13-Dec-10
GREAT NECK RD #2 S-54568	Magnesium mg/l	3.75	13-Dec-10
GREAT NECK RD #2 S-54568	Magnesium mg/l	3.51	13-Dec-10
GREAT NECK RD #2 S-54568	Lead ug/l	3.09	13-Dec-10
GREAT NECK RD #2 S-54568	Total - mg/l	1.9762	13-Dec-10
GREAT NECK RD #2 S-54568	Total + mg/l	1.685	13-Dec-10
GREAT NECK RD #2 S-54568	Iron mg/l	1.54*	13-Dec-10
GREAT NECK RD #2 S-54568	Potassium mg/l	1.18	13-Dec-10
GREAT NECK RD #2 S-54568	Potassium mg/l	1.11	13-Dec-10
GREAT NECK RD #2 S-54568	Iron mg/l	0.617*	13-Dec-10
GREAT NECK RD #2 S-54568	1,4-Dioxane ug/l	0.57	13-Dec-10
GREAT NECK RD #2 S-54568	Beryllium ug/l	0.45*	13-Dec-10
GREAT NECK RD #2 S-54568	Phosphorus (as t-PO4) mg/l	0.42	13-Dec-10
GREAT NECK RD #2 S-54568	Aluminum mg/l	0.351	13-Dec-10
GREAT NECK RD #2 S-54568	Zinc mg/l	0.185	13-Dec-10
GREAT NECK RD #2 S-54568	Manganese mg/l	0.0869	13-Dec-10
GREAT NECK RD #2 S-54568	Manganese mg/l	0.0721	13-Dec-10
GREAT NECK RD #2 S-54568	Strontium mg/l	0.052	13-Dec-10
GREAT NECK RD #2 S-54568	Copper mg/l	0.0285	13-Dec-10
GREAT NECK RD #2 S-54568	Barium mg/l	0.021	13-Dec-10
GREAT NECK RD #1 S-51214	pH pH Units	4.11	1-Dec-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	2.78	1-Dec-10
GREAT NECK RD #3 S-115444	Chloride mg/l	3.46	21-Nov-10
GREAT NECK RD #1 S-51214	Conductivity umho/cm	142	16-Nov-10
GREAT NECK RD #1 S-51214	CO2 mg/l	88.1	16-Nov-10
GREAT NECK RD #1 S-51214	TDS mg/l	65	16-Nov-10
GREAT NECK RD #1 S-51214	Chloride mg/l	23.9	16-Nov-10
GREAT NECK RD #1 S-51214	Hardness, calc mg/l	19.7	16-Nov-10
GREAT NECK RD #1 S-51214	Sulfate mg/l	17.4	16-Nov-10
GREAT NECK RD #1 S-51214	Sodium mg/l	13.1	16-Nov-10
GREAT NECK RD #1 S-51214	Sodium mg/l	12.7	16-Nov-10
GREAT NECK RD #1 S-51214	Nickel ug/l	6.8	16-Nov-10

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Sample Location	Parameter	Concentration	Date
GREAT NECK RD #1 S-51214	pH pH Units	4.56	16-Nov-10
GREAT NECK RD #1 S-51214	Lithium ug/l	4.2	16-Nov-10
GREAT NECK RD #1 S-51214	Calcium mg/l	3.97	16-Nov-10
GREAT NECK RD #1 S-51214	Calcium mg/l	3.75	16-Nov-10
GREAT NECK RD #1 S-51214	Silicon mg/l	3.65	16-Nov-10
GREAT NECK RD #1 S-51214	Cobalt ug/l	3.14	16-Nov-10
GREAT NECK RD #1 S-51214	Magnesium mg/l	2.37	16-Nov-10
GREAT NECK RD #1 S-51214	1,4-Dioxane ug/l	2.31	16-Nov-10
GREAT NECK RD #1 S-51214	Magnesium mg/l	2.25	16-Nov-10
GREAT NECK RD #1 S-51214	Lead ug/l	1.39	16-Nov-10
GREAT NECK RD #1 S-51214	Iron mg/l	1.21*	16-Nov-10
GREAT NECK RD #1 S-51214	Iron mg/l	1.18*	16-Nov-10
GREAT NECK RD #1 S-51214	Total + mg/l	1.0701	16-Nov-10
GREAT NECK RD #1 S-51214	Total - mg/l	1.0616	16-Nov-10
GREAT NECK RD #1 S-51214	Potassium mg/l	0.923	16-Nov-10
GREAT NECK RD #1 S-51214	Potassium mg/l	0.874	16-Nov-10
GREAT NECK RD #1 S-51214	Total Organic Carbon (TOC) mg/l	0.347	16-Nov-10
GREAT NECK RD #1 S-51214	Phosphorus (as t-PO4) mg/l	0.181	16-Nov-10
GREAT NECK RD #1 S-51214	Aluminum mg/l	0.143	16-Nov-10
GREAT NECK RD #1 S-51214	Zinc mg/l	0.0652	16-Nov-10
GREAT NECK RD #1 S-51214	Manganese mg/l	0.0505	16-Nov-10
GREAT NECK RD #1 S-51214	Manganese mg/l	0.0493	16-Nov-10
GREAT NECK RD #1 S-51214	Strontium mg/l	0.0297	16-Nov-10
GREAT NECK RD #1 S-51214	Copper mg/l	0.0243	16-Nov-10
GREAT NECK RD #3 S-115444	CO2 mg/l	68.6	11-Nov-10
GREAT NECK RD #3 S-115444	Conductivity umho/cm	28	11-Nov-10
GREAT NECK RD #3 S-115444	TDS mg/l	23	11-Nov-10
GREAT NECK RD #3 S-115444	pH pH Units	4.72	11-Nov-10
GREAT NECK RD #3 S-115444	Silicon mg/l	3.23	11-Nov-10
GREAT NECK RD #3 S-115444	Nickel ug/l	2.95	11-Nov-10
GREAT NECK RD #3 S-115444	Hardness, calc mg/l	2.66	11-Nov-10
GREAT NECK RD #3 S-115444	Sodium mg/l	2.59	11-Nov-10
GREAT NECK RD #3 S-115444	Sodium mg/l	2.49	11-Nov-10
GREAT NECK RD #3 S-115444	Cobalt ug/l	1.67	11-Nov-10
GREAT NECK RD #3 S-115444	Calcium mg/l	0.643	11-Nov-10
GREAT NECK RD #3 S-115444	Potassium mg/l	0.38	11-Nov-10
GREAT NECK RD #3 S-115444	Potassium mg/l	0.338	11-Nov-10
GREAT NECK RD #3 S-115444	Magnesium mg/l	0.256	11-Nov-10
GREAT NECK RD #3 S-115444	Magnesium mg/l	0.209	11-Nov-10
GREAT NECK RD #3 S-115444	Total + mg/l	0.186	11-Nov-10
GREAT NECK RD #3 S-115444	Total - mg/l	0.1737	11-Nov-10
GREAT NECK RD #3 S-115444	Iron mg/l	0.159	11-Nov-10
GREAT NECK RD #3 S-115444	Iron mg/l	0.149	11-Nov-10
GREAT NECK RD #1 S-51214	pH pH Units	4.18	3-Nov-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.04	3-Nov-10
GREAT NECK RD #1 S-51214	pH pH Units	7.37	13-Oct-10

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Sample Location	Parameter	Concentration	Date
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.21	13-Oct-10
GREAT NECK RD #1 S-51214	pH pH Units	4.3	16-Sep-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.97	16-Sep-10
GREAT NECK RD #1 S-51214	1,4-Dioxane ug/l	2.46	16-Sep-10
GREAT NECK RD #2 S-54568	1,4-Dioxane ug/l	0.7	12-Sep-10
GREAT NECK RD #1 S-51214	pH pH Units	4.6	1-Sep-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	2.95	1-Sep-10
GREAT NECK RD #1 S-51214	1,4-Dioxane ug/l	1.64	18-Aug-10
GREAT NECK RD #3 S-115444	pH pH Units	4.7	11-Aug-10
GREAT NECK RD #1 S-51214	pH pH Units	4.4	4-Aug-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.12	4-Aug-10
GREAT NECK RD #2 S-54568	pH pH Units	4.1	11-Jul-10
GREAT NECK RD #1 S-51214	pH pH Units	4.3	7-Jul-10
GREAT NECK RD #1 S-51214	pH pH Units	4	7-Jul-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.16	7-Jul-10
GREAT NECK RD #2 S-54568	1,4-Dioxane ug/l	0.7	29-Jun-10
GREAT NECK RD #1 S-51214	1,4-Dioxane ug/l	1.47	23-Jun-10
GREAT NECK RD #2 S-54568	Conductivity umho/cm	222	14-Jun-10
GREAT NECK RD #2 S-54568	TDS mg/l	99	14-Jun-10
GREAT NECK RD #2 S-54568	CO2 mg/l	61.8	14-Jun-10
GREAT NECK RD #2 S-54568	Chloride mg/l	51	14-Jun-10
GREAT NECK RD #2 S-54568	Hardness, calc mg/l	31.1	14-Jun-10
GREAT NECK RD #2 S-54568	Sodium mg/l	21.4	14-Jun-10
GREAT NECK RD #2 S-54568	Sodium mg/l	21.1	14-Jun-10
GREAT NECK RD #2 S-54568	Sulfate mg/l	12.5	14-Jun-10
GREAT NECK RD #2 S-54568	Nickel ug/l	8.19	14-Jun-10
GREAT NECK RD #2 S-54568	Calcium mg/l	6.66	14-Jun-10
GREAT NECK RD #2 S-54568	Calcium mg/l	5.76	14-Jun-10
GREAT NECK RD #2 S-54568	Cobalt ug/l	4.9	14-Jun-10
GREAT NECK RD #2 S-54568	pH pH Units	4.51	14-Jun-10
GREAT NECK RD #2 S-54568	Lithium ug/l	4.06	14-Jun-10
GREAT NECK RD #2 S-54568	Silicon mg/l	3.83	14-Jun-10
GREAT NECK RD #2 S-54568	Magnesium mg/l	3.52	14-Jun-10
GREAT NECK RD #2 S-54568	Magnesium mg/l	3.39	14-Jun-10
GREAT NECK RD #2 S-54568	Lead ug/l	1.9	14-Jun-10
GREAT NECK RD #2 S-54568	Total - mg/l	1.7149	14-Jun-10
GREAT NECK RD #2 S-54568	Total + mg/l	1.6937	14-Jun-10
GREAT NECK RD #2 S-54568	Iron mg/l	1.53*	14-Jun-10
GREAT NECK RD #2 S-54568	Iron mg/l	1.48*	14-Jun-10
GREAT NECK RD #2 S-54568	Potassium mg/l	1.1	14-Jun-10
GREAT NECK RD #2 S-54568	Potassium mg/l	1.07	14-Jun-10
GREAT NECK RD #2 S-54568	Beryllium ug/l	0.42*	14-Jun-10
GREAT NECK RD #2 S-54568	Aluminum mg/l	0.322	14-Jun-10
GREAT NECK RD #2 S-54568	Zinc mg/l	0.0952	14-Jun-10
GREAT NECK RD #2 S-54568	Manganese mg/l	0.0733	14-Jun-10
GREAT NECK RD #2 S-54568	Manganese mg/l	0.0721	14-Jun-10

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Sample Location	Parameter	Concentration	Date
GREAT NECK RD #2 S-54568	Strontium mg/l	0.0445	14-Jun-10
GREAT NECK RD #1 S-51214	Conductivity umho/cm	147	7-Jun-10
GREAT NECK RD #1 S-51214	CO2 mg/l	96.3	7-Jun-10
GREAT NECK RD #1 S-51214	TDS mg/l	69	7-Jun-10
GREAT NECK RD #1 S-51214	Chloride mg/l	24.4	7-Jun-10
GREAT NECK RD #1 S-51214	Hardness, calc mg/l	21.5	7-Jun-10
GREAT NECK RD #1 S-51214	Sulfate mg/l	20.2	7-Jun-10
GREAT NECK RD #1 S-51214	Sodium mg/l	13.2	7-Jun-10
GREAT NECK RD #1 S-51214	Sodium mg/l	12.9	7-Jun-10
GREAT NECK RD #1 S-51214	Nickel ug/l	7.16	7-Jun-10
GREAT NECK RD #1 S-51214	pH pH Units	4.66	7-Jun-10
GREAT NECK RD #1 S-51214	Lithium ug/l	4.53	7-Jun-10
GREAT NECK RD #1 S-51214	pH pH Units	4.5	7-Jun-10
GREAT NECK RD #1 S-51214	pH pH Units	4.4	7-Jun-10
GREAT NECK RD #1 S-51214	Calcium mg/l	4.33	7-Jun-10
GREAT NECK RD #1 S-51214	Calcium mg/l	3.98	7-Jun-10
GREAT NECK RD #1 S-51214	Silicon mg/l	3.89	7-Jun-10
GREAT NECK RD #1 S-51214	Cobalt ug/l	3.54	7-Jun-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	3.42	7-Jun-10
GREAT NECK RD #1 S-51214	Magnesium mg/l	2.6	7-Jun-10
GREAT NECK RD #1 S-51214	Magnesium mg/l	2.42	7-Jun-10
GREAT NECK RD #1 S-51214	Lead ug/l	2.2	7-Jun-10
GREAT NECK RD #1 S-51214	Iron mg/l	1.42*	7-Jun-10
GREAT NECK RD #1 S-51214	Iron mg/l	1.38*	7-Jun-10
GREAT NECK RD #1 S-51214	Total - mg/l	1.1484	7-Jun-10
GREAT NECK RD #1 S-51214	Total + mg/l	1.129	7-Jun-10
GREAT NECK RD #1 S-51214	Potassium mg/l	0.99	7-Jun-10
GREAT NECK RD #1 S-51214	Potassium mg/l	0.913	7-Jun-10
GREAT NECK RD #1 S-51214	Total Organic Carbon (TOC) mg/l	0.533	7-Jun-10
GREAT NECK RD #1 S-51214	Aluminum mg/l	0.176	7-Jun-10
GREAT NECK RD #1 S-51214	Arsenic ug/l	<1.00	7-Jun-10
GREAT NECK RD #1 S-51214	Manganese mg/l	0.054	7-Jun-10
GREAT NECK RD #1 S-51214	Manganese mg/l	0.0528	7-Jun-10
GREAT NECK RD #1 S-51214	Zinc mg/l	0.0351	7-Jun-10
GREAT NECK RD #1 S-51214	Strontium mg/l	0.0317	7-Jun-10
GREAT NECK RD #1 S-51214	1,4-Dioxane ug/l	2.05	27-May-10
GREAT NECK RD #1 S-51214	1,1-Dichloroethane ug/l	5.78*	21-May-10
GREAT NECK RD #1 S-51214	pH pH Units	5	21-May-10
GREAT NECK RD #3 S-115444	CO2 mg/l	107	12-May-10
GREAT NECK RD #3 S-115444	Conductivity umho/cm	25	12-May-10
GREAT NECK RD #3 S-115444	TDS mg/l	12	12-May-10
GREAT NECK RD #3 S-115444	pH pH Units	6.4	12-May-10
GREAT NECK RD #3 S-115444	pH pH Units	4.85	12-May-10
GREAT NECK RD #3 S-115444	Chloride mg/l	3.35	12-May-10
GREAT NECK RD #3 S-115444	Silicon mg/l	3.22	12-May-10
GREAT NECK RD #3 S-115444	Nickel ug/l	3.14	12-May-10

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Sample Location	Parameter	Concentration	Date
GREAT NECK RD #3 S-115444	Sodium mg/l	2.47	12-May-10
GREAT NECK RD #3 S-115444	Sodium mg/l	2.37	12-May-10
GREAT NECK RD #3 S-115444	Hardness, calc mg/l	2.3	12-May-10
GREAT NECK RD #3 S-115444	Cobalt ug/l	1.58	12-May-10
GREAT NECK RD #3 S-115444	Calcium mg/l	0.503	12-May-10
GREAT NECK RD #3 S-115444	Potassium mg/l	0.32	12-May-10
GREAT NECK RD #3 S-115444	Potassium mg/l	0.317	12-May-10
GREAT NECK RD #3 S-115444	Magnesium mg/l	0.253	12-May-10
GREAT NECK RD #3 S-115444	Magnesium mg/l	0.224	12-May-10
GREAT NECK RD #3 S-115444	Total - mg/l	0.2038	12-May-10
GREAT NECK RD #3 S-115444	Total + mg/l	0.1649	12-May-10
GREAT NECK RD #3 S-115444	Iron mg/l	0.0373	12-May-10
GREAT NECK RD #3 S-115444	Iron mg/l	0.0328	12-May-10
GREAT NECK RD #2 S-54568	pH pH Units	4.5	11-Apr-10
GREAT NECK RD #3 S-115444	pH pH Units	5.4	21-Feb-10
GREAT NECK RD #2 S-54568	pH pH Units	5	10-Jan-10