APPENDIX B-6

Potable Water (Drinking Water) Data

TABLE B-6A
2007 Water Quality Results in Potable Well Water Around the WVDP

Analyte	*Units*	*N*	*Background WFWEL06*	*Standard* [a,b]
Gross Alpha	µCi/mL	1	-1.46±1.14E-09	1.5E-08[c]
Gross Beta	µCi/mL	1	1.41±1.18E-09	1E-06[d]
Tritium	µCi/mL	1	-7.61±3.20E-08	--
Sr-90	µCi/mL	1	-1.23±5.36E-10	8E-09[e]
Cs-137	µCi/mL	1	-0.49±2.12E-09	--
Conductivity	µmhos/cm@25°C	1	292	--
pH	SU	1	8.20	6.5–8.5

N - Number of samples
-- No guideline or standard available for these analytes
[a] New York State Water Quality Standard for Class "GA" for fresh groundwater
[b] NYSDOH raw water supply standards (10 NYCRR Part 170.4)
[c] Alpha standard excludes radon and uranium, however, the WVDP results include these isotopes.
[d] Beta standard excludes strontium and alpha emitters, however the WVDP results include these isotopes.
[e] NYSDOH or EPA potable water MCL

TABLE B-6B
2007 Water Quality Results in Potable Water at the WVDP

Analyte	*Units*	*N*	*WNDNKMP*	*WNDNKEL*	*Standard* [a]
			Annual	*Annual*	
Gross Alpha	µCi/mL	1	-0.85±4.26E-10	-1.13±8.70E-10	1.5E-08
Gross Beta	µCi/mL	1	1.72±0.71E-09	1.86±0.81E-09	5E-08
Tritium	µCi/mL	2	5.91±6.88E-08	5.58±3.22E-08	2E-05
Conductivity	µmhos/cm@25°C	1	173	176	--
Haloacetic Acids-Five (5)	mg/L	2	--	0.007	0.06
pH	SU	1	8.31	8.20	--
Total Trihalomethanes	mg/L	2	--	0.022	0.08

N - Number of samples
-- No guideline or standard available for these analytes
[a] New York State Department of Health MCLs for drinking water used as a comparative reference

TABLE B-6C
2007 Water Quality Results in Utility Room Potable Water (WNDNKUR)

Analyte	Units	N	WNDNKUR Concentrations			Standard or Guideline [a]
			Minimum	Average	Maximum	
Gross Alpha	µCi/mL	11	<2.67E-10	0.78±6.66E-10	<1.26E-09	1.5E-08
Gross Beta	µCi/mL	11	1.12E-09	2.01±0.75E-09	6.75E-09	5E-08
Tritium	µCi/mL	11	<3.16E-08	2.07±5.62E-08	6.54E-08	2E-05
Antimony, Total	mg/L	1	NA	NA	<0.0004	0.006
Arsenic, Total	mg/L	1	NA	NA	<0.001	0.05
Barium, Total	mg/L	1	NA	NA	<0.20	2.00
Beryllium, Total	mg/L	1	NA	NA	<0.0003	0.004
Cadmium, Total	mg/L	1	NA	NA	<0.0010	0.005
Chromium, Total	mg/L	1	NA	NA	<0.007	0.10
Conductivity	µmhos/cm@25°C	12	117	223	290	--
Cyanide, Total	mg/L	1	NA	NA	<0.01	0.2
Fluoride	mg/L	1	NA	NA	<0.20	2.2
Free Residual Chlorine	mg/L	1,092	0.10	NA	2.20	0.2–4.0
Iron, Total	mg/L	1	NA	NA	<0.05	0.3
Manganese, Total	mg/L	1	NA	NA	<0.01	--
Mercury, Total	mg/L	1	NA	NA	<0.0002	0.002
Nickel, Total	mg/L	1	NA	NA	<0.005	--
pH	SU	12	7.96	8.13	8.42	--
POC [b]	mg/L	1	NA	NA	ND	0.0005
Selenium, Total	mg/L	1	NA	NA	<0.002	0.05
Thallium, Total	mg/L	1	NA	NA	<0.0003	0.0005
Turbidity	NTU	2,184	0.1	NA	1.3	1.0 [c]
Zinc, Total	mg/L	1	NA	NA	<0.01	--

N - Number of samples
NA - Not applicable, constituents sampled annually
ND - Compounds not detected
-- No guideline or standard available for these analytes
[a] New York State Department of Health MCLs for drinking water or EPA MCLGs, whichever is more stringent
[b] Principal Organic Contaminant
[c] A treatment standard of 0.3 NTU applies to the 95th percentile on a monthly basis.

TABLE B-6D
2007 Water Quality Results in Utility Room Raw (Untreated) Water (WNURRAW)

Analyte	Units	N	WNURRAW Concentrations		
			Minimum	Average	Maximum
Gross Alpha	µCi/mL	1	NA	-0.74±1.14E-08	NA
Gross Beta	µCi/mL	1	NA	1.47±1.24E-08	NA
Tritium	µCi/mL	1	NA	-1.70±3.52E-07	NA
Iron, Total	mg/L	53	0.1	0.68	8.33
Solids, Total Dissolved	mg/L	19	87	123	166

N - Number of samples
NA - Not applicable, constituents sampled annually

TABLE B-6E
2007 Biological and Chlorine Results in Tap Water From Various Site Locations (Analyzed by Cattaraugus County Health Department)

Analyte	*Units*	*N*	*Various Site Tap Water Locations Results*	*Standard* [a]
E. coli	NA	12	Negative	one positive sample
Free Residual Chlorine	mg/L	12	Range: 0.01–1.20	4.0 (max)
Total Coliform	NA	12	Negative	two or more positive samples

N - Number of samples
NA - Not applicable
[a] New York State Department of Health MCLs for drinking water or EPA MCLGs, whichever is more stringent

TABLE B-6F
2007 Nitrate Results in Tap Water From WVDP Restroom Sink (Analyzed by Cattaraugus County Health Department)

Analyte	*Units*	*N*	*Date Collected*	*Annual Concentration*	*Standard* [a]
Nitrate-N	mg/L	1	03/07/07	<1.00	10

N - Number of samples
[a] New York State Department of Health MCLs for drinking water or EPA MCLGs, whichever is more stringent

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