

**Table 4-4: Summary of Secondary Sampling Water Quality Data**

City of Cape Coral SW Production Wells										
Water Quality Results										
Test Date:			12/20/2005	10/31/2005	9/26/2005	12/12/2005	1/13/2006	4/19/2006	3/20/2006	3/9/2006
		MCL	Well 112	Well 226	Well 227	Well 228	Well 229	Well 230	Well 231	Well 232
Contaminant	Unit		Level	Level	Level	Level	Level	Level	Level	Level
<b>Primary Drinking Water Standards</b>										
<i>Radionuclides</i>										
Radium 226	pCi/L		1.3 ± 0.1	1.6 ± 0.1	1.7 ± 0.1	0.9 ± 0.1	14 ± 0.4	46 ± 1.3	21 ± 0.8	10 ± 0.4
Radium 228	pCi/L		0.5 ± 0.3	0.7 ± 0.2	0.5 ± 0.2	0.9 ± 0.3	0.5 ± 0.3	0.9 ± 0.3	0.6 ± 0.3	1.5 ± 0.3
Combined Radium -226 & radium-228	pCi/L	5	1.8 ± 0.4	2.3 ± 0.3	2.2 ± 0.3	1.8 ± 0.4	14.5 ± 0.7	46.09 ± 1.6	21.6 ± 1.1	11.5 ± 0.7
Gross Alpha particle activity including radium-226 but excluding radon and uranium	pCi/L	15	7.2 ± 1.4	9.8 ± 2.2	11 ± 1.5	7.9 ± 1.5	17 ± 1.1	44 ± 3.0	20 ± 2.0	17 ± 1.8
<i>Inorganic</i>										
Antimony	mg/L	0.006	0.002	0.004	0.004	0.002	0.002	0.002	0.004	0.004
Arsenic	mg/L	0.01	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.003
Asbestos	Million fibers/L	7	< 0.18	< 3.70	< 0.18	< 0.18	< 0.18	0	< 0.18	< 0.18
Barium	mg/L	2	0.013	0.02	0.018	0.017	0.025	0.06	0.018	0.037
Beryllium	mg/L	0.004	0.0001	0.0002	0.0002	0.001	0.0001	0.0001	0.0001	0.002
Cadmium	mg/L	0.005	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.002
Chromium	mg/L	0.1	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.002
Cyanide	mg/L	0.2	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.009
Fluoride	mg/L	4	2	2.3	1.9	1.5	1.1	1	2	1.4
Lead	mg/L	0.015	0.001	0.002	0.002	0.001	0.001	0.001	0.002	0.009
Mercury	mg/L	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Nickel	mg/L	0.1	0.001	0.002	0.002	0.001	0.001	0.001	200.7	0.002
Nitrate	mg/L as N	10	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.01
Nitrite	mg/L as N	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Total Nitrate and Nitrite Nitrogen, Total Kjeldahl	mg/L as N	10	0.02	0.02	0.02	0.0	0.02	0.02	--	0.02
Selenium	mg/L	0.05	0.001	0.002	0.002	0.002	0.001	0.003	0.04	0.004
Sodium	mg/L	160	272	465	379	315	397	3340	268	1220
Thallium	mg/L	0.002	0.001	0.002	0.002	0.001	0.001	0.003	0.002	0.002
<i>Volatile Organic Chemicals</i>										
1,1-Dichloroethylene (aka 1,1-Dichloroethene)	mg/L	0.007	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
1,1,1-Trichloroethane	mg/L	0.2	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
1,1,2-Trichloroethane	mg/L	0.005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
1,2-Dichloroethane	mg/L	0.003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
1,2-Dichloropropane	mg/L	0.005	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
1,2,4-Trichlorobenzene	mg/L	0.07	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Benzene	mg/L	0.001	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Carbon tetrachloride	mg/L	0.003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
cis-1,2-Dichloroethylene (aka cis-1,2-Dichloroethene)	mg/L	0.07	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Dichloromethane (Methelene Chloride)	mg/L	0.005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Ethylbenzene	mg/L	0.7	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Monochlorobenzene (aka Chlorobenzene)	mg/L	0.1	0.0003	0.0005	0.0005	0.0003	0.0005	0.0005	0.0005	0.0005
o-Dichlorobenzene (aka 1,2-Dichlorobenzene)	mg/L	0.6	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
para-Dichlorobenzene (aka 1,4-Dichlorobenzene)	mg/L	0.075	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Styrene	mg/L	0.1	0.00063	0.0012	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Tetrachloroethylene (aka Tetrachloroethene)	mg/L	0.003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Toluene	mg/L	1	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
trans-1,2-Dichloroethylene (aka trans-1,2-Dichloroethene)	mg/L	0.1	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Trichloroethylene	mg/L	0.003	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Vinyl chloride	mg/L	0.001	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Xylenes (total)	mg/L	10	0.0005	0.0005	0.0005	0.00063	0.0005	0.0005	0.0005	0.0005

**Table 4-4: Summary of Secondary Sampling Water Quality Data**

City of Cape Coral SW Production Wells										
Water Quality Results										
Test Date:			12/20/2005	10/31/2005	9/26/2005	12/12/2005	1/13/2006	4/19/2006	3/20/2006	3/9/2006
		MCL	Well 112	Well 226	Well 227	Well 228	Well 229	Well 230	Well 231	Well 232
Contaminant	Unit		Level	Level	Level	Level	Level	Level	Level	Level
<i>Synthetic Organic</i>										
2,3,7,8-TCDD (Dioxin)	mg/L	3 X 10E-8	< 10 X 10E-24	< 5 X 10E-24	< 8 X 10E-23	< 10 X 10E-24	< 10 X 10E-24	< 10 X 10E-24	< 10 X 10E-24	< 10 X 10E-24
2,4-D	mg/L	0.07	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
2,4,5-TP (Silvex)	mg/L	0.05	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Atachlor	mg/L	0.002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Atrazine	mg/L	0.003	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Benzo(a)pyrene	mg/L	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Carbofuran	mg/L	0.04	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Chlordane	mg/L	0.002	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Dalapon	mg/L	0.2	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Di(2-ethylhexyl)adipate	mg/L	0.4	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
Di(2-ethylhexyl)phthalate	mg/L	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Dibromochloropropane (DBCP)	mg/L	0.0002	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Dinoseb	mg/L	0.007	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Diquat	mg/L	0.02	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Endothall	mg/L	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Endrin	mg/L	0.002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Ethylene dibromide (EDB)	mg/L	0.00002	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Glyphosate	mg/L	0.7	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Heptachlor	mg/L	0.0004	0.00001	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
Heptachlor epoxide	mg/L	0.0002	0.00001	0.0001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Hexachlorobenzene	mg/L	0.001	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
Hexachlorocyclopentadiene	mg/L	0.05	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lindane	mg/L	0.0002	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006	0.00006
Methoxychlor	mg/L	0.04	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
oxamyl (vydate)	mg/L	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Pentachlorophenol	mg/L	0.001	0.01	0.0001	0.0001	0.01	0.0001	0.0001	0.0001	0.0001
Picloram	mg/L	0.5	0.00075	0.00075	0.00075	0.00075	0.00075	0.00075	0.00075	0.00075
Polychlorinated biphenyl (PCB)	mg/L	0.0005	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Simazine	mg/L	0.004	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007
Toxaphene	mg/L	0.003	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
<b>Secondary Drinking Water Standards</b>										
Aluminum	mg/L	0.2	0.003	0.057	0.029	0.013	0.011	0.029	0.01	0.01
Chloride	mg/L	250	500	740	720	480	900	6250	570	2950
Copper	mg/L	1	0.002	0.002	0.003	0.001	0.001	0.026	0.002	0.008
Fluoride	mg/L	2	2.00	2.80	1.90	1.50	1.1	1	2	1.40
Iron	mg/L	3	0.007	0.048	0.014	0.007	0.007	0.053	0.009	0.009
Manganese	mg/L	0.05	0.001	0.002	0.002	0.001	0.001	459	0.002	0.002
Silver	mg/L	0.1	0.001	0.002	0.002	0.001	0.001	0.011	0.002	0.002
Sulfate	mg/L	250	177	204	259	186	144	474	230	291
Zinc	mg/L	5	0.045	0.032	0.002	0.001	0.001	0.004	0.001	0.004
Color	PCo Units	15	1	1	1	1	1	7	1	1
Odor	TON	3	50	140	35	140	4	140	8	140
pH		6.5-8.5	7.46	7.48	7.51	7.51	7.38	7.32	7.65	7.77
Total Dissolved Solids	mg/L	500	1300	1720	1730	1248	1840	11400	1380	5020
Foaming Agents	mg/L	0.5	-	0.06	0.05	-	0.05	-	-	-
<b>Other Element</b>										
Ammonia-N	mg/L		0.33	0.31	41	0.35	0.34	0.62	0.46	0.56
Combined Uranium	pCi/L		-	-	-	-	-	-	-	-
Dissolved Oxygen-field	mg/L		3.38	2.66	1.84	1.45	2.84	5.32	2.16	2.78
Ortho-phosphate-P	mg/L		-	-	-	-	-	-	-	-
Phosphorus, Total	mg/L		-	-	-	-	-	-	-	-
Specific Conductance-field	mg/L		2350	2900	2920	2280	3140	16600	2480	8650
Water Temperature-field	°C		25.8	29.2	29.1	26.2	26.4	21.9	27.2	21.4

