

Chapter 3/Scope 3 - Appendices

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Appendix 1: Campus drinking water consumption for fiscal years 2001-2007

Campus Drinking Water Consumption*	
Year	Gallons
2001	18,050,168
2002	20,277,278
2003	22,504,388
2004	29,032,367
2005	26,711,656
2006	28,026,363
2007	31,566,617

* This data includes all drinking water consumed by all UW-Green Bay buildings, including Kingfisher Farm, the Chancellor's residence, etc. It does not include water consumed by the residence halls.

Appendix 2: Residence life drinking water consumption for fiscal years 2001-2007

Residence Life Drinking Water Consumption	
Year	Gallons
2001	7,277,314
2002	7,804,752
2003	14,948,256
2004	16,785,419
2005	16,887,596
2006	15,845,183
2007	12,423,532*

* Water consumption through October 15.

Appendix 3: Green Bay Water Utility data and accompanying calculations

Green Bay Water Utility Data and Accompanying Calculations

	<u>2000</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007 YTD</u>
Lake station	11,618,369	11,741,136	11,264,379	10,992,658	10,636,997	10,425,679	10,544,454	8,525,404
Kewaunee booster	187,600	386,400	190,400	70,000	324,800	160,592	35,480	51,520
Filter plant	1,647,500	1,498,121	1,488,361	1,380,004	1,354,923	1,332,005	1,459,346	984,833
City stations & wells	274,580	330,173	476,250	680,609	298,922	332,419	349,327	315,402
Total kWh	13,728,049	13,955,830	13,419,390	13,123,271	12,615,642	12,250,695	12,388,607	9,877,159
Water Pumped (Million Gallons)	6455.092	6624.163	6417.818	6167.521	6098.614	5974.179	6577.057	5520.083
gallons/kWh	470.21	474.65	478.25	469.97	483.42	487.66	530.90	558.87
Gallons of Water Purchased (UW-Green Bay)		18,050,168	20,277,278	22,504,388	29,032,367	26,711,656	28,026,363	31,566,617
kWh for drinking water (UW-Green Bay)		38,028	42,399	47,885	60,057	54,775	52,791	56,483
Gallons of Water Purchased (Residence Life)	15,305,658	7,277,314	7,804,752	14,948,256	16,785,419	16,887,596	15,845,183	12,423,532
kWh for drinking water (Residence Life)	32,551	15,332	16,319	31,807	34,722	34,630	29,846	22,230
Total Gallons of Drinking Water Purchased	15,305,658	25,327,482	28,082,030	37,452,644	45,817,786	43,599,252	43,871,546	43,990,149
Total kWh for Drinking Water	32,551	53,360	58,718	79,692	94,779	89,405	82,637	78,712

2002 Gallons of Purchased Water (UW-Green Bay) is an average of the year prior and the year after.

2007 Total kWh and gallons pumped are extrapolated. Actual data is through September 2007.

Green Bay Water Utility and GBMSD are on Jan. 1-Dece. 31 fiscal year and UW-Green Bay is July 1-June 30 fiscal year.

Gallons of Drinking Water Purchased (UW-Green Bay) are an extrapolation based on the cost per gallon of drinking water.

Maintained spreadsheets do not reflect actual usage earlier than 2005-2006 fiscal years.

Appendix 4: UW-Green Bay campus wastewater discharge

UW-Green Bay Campus Wastewater Discharge (cubic feet)

	July-02	345,429		
	August-02	507,912		
	September-02	280,828		
	October-02	542,708		
	November-02	59,420		
	December-02	206,580		
	January-03	90,280		
	February-03	81,710		
	March-03	414,270		
	April-03	278,830		
	May-03	276,534		
	June-03	882,578		
TOTAL		3,967,079	29,673,751	Gallons
	July-03	207,056		
	August-03	299,699		
	September-03	26,885		
	October-03	681,578		
	November-03	303,854		
	December-03	245,620		
	January-04	124,050		
	February-04	596,080		
	March-04	283,820		
	April-04	313,710		
	May-04	293,535 *		
	June-04	146,530		
TOTAL		3,522,417	26,347,679	Gallons
	July-04	196,225		
	August-04	374,082		
	September-04	373,224		
	October-04	411,310		
	November-04	343,220		
	December-04	240,280		
	January-05	171,610		
	February-05	391,180		
	March-05	244,600		
	April-05	244,270		
	May-05	253,691		
	June-05	122,873		
TOTAL		3,366,565	25,181,906	Gallons

**UW-Green Bay Campus Wastewater
Discharge (cubic feet) continued.**

July-05	402,188		
August-05	512,567		
September-05	177,305		
October-05	241,139		
November-05	253,872		
December-05	212,940		
January-06	114,420		
February-06	257,876 *		
March-06	165,551		
April-06	314,949		
May-06	199,077		
June-06	242,631		
TOTAL	3,094,515	23,146,972	Gallons
July-06	323,164		
August-06	360,546		
September-06	283,749		
October-06	294,650		
November-06	252,332		
December-06	222,587		
January-07	152,502		
February-07	407,127		
March-07	360,570		
April-07	264,618		
May-07	229,301		
June-07	239,694		
TOTAL	3,390,840	25,363,483	Gallons

* No information available for the month. The average of the other 11 months of the fiscal year was used.

Appendix 5: GBMSD wastewater gallons treated/kWh calculations

GBMSD gallons treated/kWh							UW-Green Bay -Wastewater		
Year	Metro Inf. (gallons)	GP Inf. (gallons)	PG Inf. (gallons)	Total Inf. (gallons)	Total Electrical (kWh)	gallons/kWh	Year	Gallons/yr	kWh
2000	7,674,406,000	495,514,000	1,908,445,000	10,078,365,000	34,483,030	292.3	2001	NA	NA
2001	8,160,049,000	486,273,000	2,280,067,000	10,926,389,000	34,081,270	320.6	2002	NA	NA
2002	8,397,646,000	488,129,000	1,993,448,000	10,879,223,000	36,210,200	300.4	2003	29,673,751	98,766
2003	8,155,658,000	464,929,000	1,986,546,000	10,607,133,000	34,560,001	306.9	2004	26,347,679	85,846
2004	9,097,496,000	490,069,000	2,103,383,000	11,690,948,000	34,972,200	334.3	2005	25,181,906	75,329
2005	8,065,718,000	480,165,000	1,609,929,000	10,155,812,000	32,302,706	314.4	2006	23,146,972	73,624
2006	8,775,929,000	502,293,000	1,544,339,000	10,822,561,000	32,810,759	329.8	2007	25,363,483	76,894
							Residence Life-Wastewater		
							Year	Gallons/yr	kWh
							2001	7,277,314	24,899
							2002	7,804,752	24,344
							2003	14,948,256	49,753
							2004	16,785,419	54,690
							2005	16,887,596	50,517
							2006	15,845,183	50,399
							2007	12,423,532	37,664
							Total-Wastewater		
							Year	Gallons/yr	kWh
							2001	NA	NA
							2002	NA	NA
							2003	44,622,007	148,519
							2004	43,133,098	140,536
							2005	42,069,502	125,846
							2006	38,992,155	124,023
							2007	37,787,015	114,559

Appendix 6: GBMSD wastewater gallons treated/MMBTU of natural gas calculations

GBMSD gallons treated/MMBTU of Natural Gas							UW-Green Bay -Wastewater		
Year	Metro Inf. (gallons)	GP Inf. (gallons)	PG Inf. (gallons)	Total Inf. (gallons)	Total MMBtu	gallons/MMBtu	Year	Gallons/yr	MMBtu
2000	7,674,406,000	495,514,000	1,908,445,000	10,078,365,000	81,732	123310	2001	NA	NA
2001	8,160,049,000	486,273,000	2,280,067,000	10,926,389,000	100,171	109077	2002	NA	NA
2002	8,397,646,000	488,129,000	1,993,448,000	10,879,223,000	128,062	84953	2003	29,673,751	349
2003	8,155,658,000	464,929,000	1,986,546,000	10,607,133,000	107,465	98703	2004	26,347,679	267
2004	9,097,496,000	490,069,000	2,103,383,000	11,690,948,000	81,769	142975	2005	25,181,906	176
2005	8,065,718,000	480,165,000	1,609,929,000	10,155,812,000	105,253	96490	2006	23,146,972	240
2006	8,775,929,000	502,293,000	1,544,339,000	10,822,561,000	86,654	124894	2007	25,363,483	203
							Residence Life-Wastewater		
							Year	Gallons/yr	MMBtu
							2001	7,277,314	59
							2002	7,804,752	72
							2003	14,948,256	176
							2004	16,785,419	170
							2005	16,887,596	118
							2006	15,845,183	164
							2007	12,423,532	99
							Total-Wastewater		
							Year	Gallons/yr	MMBtu
							2001	NA	NA
							2002	NA	NA
							2003	44,622,007	525
							2004	43,133,098	437
							2005	42,069,502	294
							2006	38,992,155	404
							2007	37,787,015	303

Appendix 7: GBMSD wastewater gallons treated/gallon of fuel oil calculations

GBMSD gallons treated/gallon of Fuel Oil (FO)							UW-Green Bay -Wastewater		
Year	Metro Inf. (gallons)	GP Inf. (gallons)	PG Inf. (gallons)	Total Inf. (gallons)	Total gallons FO	gallons WW per gallon FO	Year	Gallons/yr	Gallons FO
2000	7,674,406,000	495,514,000	1,908,445,000	10,078,365,000	90,161	111782	2001	NA	NA
2001	8,160,049,000	486,273,000	2,280,067,000	10,926,389,000	86,530	126273	2002	NA	NA
2002	8,397,646,000	488,129,000	1,993,448,000	10,879,223,000	0	NA	2003	29,673,751	0
2003	8,155,658,000	464,929,000	1,986,546,000	10,607,133,000	4,456	2380416	2004	26,347,679	11
2004	9,097,496,000	490,069,000	2,103,383,000	11,690,948,000	221,165	52861	2005	25,181,906	476
2005	8,065,718,000	480,165,000	1,609,929,000	10,155,812,000	1,338	7590293	2006	23,146,972	3
2006	8,775,929,000	502,293,000	1,544,339,000	10,822,561,000	3,298	3281553	2007	25,363,483	8
							Residence Life-Wastewater		
							Year	Gallons/yr	Gallons FO
							2001	7,277,314	65
							2002	7,804,752	62
							2003	14,948,256	0
							2004	16,785,419	7
							2005	16,887,596	319
							2006	15,845,183	2
							2007	12,423,532	4
							Total-Wastewater		
							Year	Gallons/yr	Gallons FO
							2001	NA	NA
							2002	NA	NA
							2003	44,622,007	0
							2004	43,133,098	18
							2005	42,069,502	796
							2006	38,992,155	5
							2007	37,787,015	12