

Appendix 4B-2: Annual Total Phosphorus Budgets for Treatment Cells in Stormwater Treatment Area 1-W

	Inflow ^{a, b}				Σ_{inflow}	Outflow			ret
	I _s	I _g	P	D		O _s	O _g	$\Sigma_{outflow}$	
Buffer Cell									
WY 95-96	25,179	-	20	15	25,214	17,502	618	18,120	7,094
WY 96-97	14,356	-	12	11	14,379	9,775	435	10,210	4,169
WY 97-98	11,840	-	7	12	11,859	7,408	506	7,914	3,945
WY 98-99	11,216	-	5	17	11,238	7,515	404	7,919	3,319
WY 99-00	-	-	-	-	-	-	-	-	-
WY 00-01	-	-	-	-	-	-	-	-	-
WY 01-02	-	-	-	-	-	-	-	-	-
TOTAL	62,591	-	44	55	62,690	42,200	1,963	44,163	18,527
	99.8%	-	0.1%	0.1%		95.6%	4.4%		29.6%
Treatment Cell 1									
WY 95-96	7,763	126	197	146	8,231	4,880	0	4,880	3,351
WY 96-97	3,235	92	121	123	3,571	1,898	0	1,898	1,673
WY 97-98	1,805	187	67	168	2,227	1,663	0	1,663	563
WY 98-99	2,306	111	49	168	2,634	1,496	9	1,504	1,130
WY 99-00	23,814	123	53	168	24,158	10,942	1,025	11,968	12,190
WY 00-01	19,296	55	27	168	19,546	7,517	597	8,114	11,432
WY 01-02	15,705	85	43	168	16,001	12,084	436	12,520	3,482
TOTAL	73,924	779	557	1,108	76,368	40,481	2,067	42,548	33,820
	96.8%	1.0%	0.7%	1.5%		95.1%	4.9%		44.3%
Treatment Cell 2									
WY 95-96	11,543	-	154	114	11,811	4,620	1,347	5,967	5,844
WY 96-97	6,577	-	95	96	6,769	3,789	1,170	4,959	1,810
WY 97-98	5,603	-	53	131	5,787	2,388	1,110	3,498	2,289
WY 98-99	5,219	-	39	132	5,390	2,419	1,179	3,598	1,792
WY 99-00	9,842	-	39	132	10,013	5,335	1,970	7,306	2,708
WY 00-01	4,970	-	19	132	5,121	3,413	1,527	4,940	181
WY 01-02	8,631	-	30	132	8,793	5,607	1,155	6,761	2,032
TOTAL	52,385	-	430	870	53,685	27,572	9,457	37,029	16,656
	97.6%	-	0.8%	1.6%		74.5%	25.5%		31.0%
Treatment Cell 3									
WY 95-96	4,880	163	151	112	5,307	7,590	324	7,915	-2,608
WY 96-97	1,898	120	93	94	2,205	1,329	224	1,554	651
WY 97-98	1,663	243	52	129	2,086	1,280	275	1,556	531
WY 98-99	1,509	145	38	129	1,821	1,298	213	1,511	310
WY 99-00	1,730	160	39	129	2,058	1,477	158	1,635	423
WY 00-01	2,554	72	19	129	2,773	1,104	673	1,777	997
WY 01-02	3,453	111	30	129	3,723	2,637	278	2,916	808
TOTAL	17,687	1,015	420	851	19,973	16,716	2,146	18,862	1,111
	88.6%	5.1%	2.1%	4.3%		88.6%	11.4%		5.6%
Treatment Cell 4									
WY 95-96	4,620	-	55	40	4,716	2,494	270	2,764	1,952
WY 96-97	3,789	-	34	34	3,857	2,047	284	2,331	1,526
WY 97-98	2,388	-	19	47	2,453	1,047	212	1,259	1,194
WY 98-99	2,419	-	14	47	2,480	737	211	949	1,531
WY 99-00	5,335	-	14	47	5,396	1,916	290	2,206	3,190
WY 00-01	3,413	-	7	47	3,467	1,035	297	1,332	2,134
WY 01-02	5,607	-	11	47	5,664	2,507	262	2,768	2,896
TOTAL	27,572	-	153	308	28,032	11,784	1,826	13,610	14,423
	98.4%	-	0.5%	1.1%		86.6%	13.4%		51.4%

^a All TP budget terms expressed as kg P.

^b I_s = total surface inflow; I_g = total groundwater inflow; P = precipitation; D = dry deposition; O_s = total surface outflow; O_g = total groundwater outflow; ret = mass retention.