

Appendix D: Site-Specific Buffer Summary

**Table D-1
Part 1
Silo Ridge Buffer Management Plan
Water Quality Buffer (30 feet in width) Coverage
Existing Sensitive Habitats**

Location (Map #)	Habitat Unit	Aquatic Edge (Linear ft.) ¹	Aquatic Edge With \geq 30 ft. Buffer (Linear feet)							
			Current ²		Proposed ³		Proposed Plan			
			Feet	% Buffered	Feet	% Buffered	Linear Feet		% Buffered	
Decrease	Increase	Decrease					Increase			
ENV - 4	Stream R/S	2020	2020	100	2020	100	0	0	0	0
ENV - 4	Stream V	4900 (5515)	3450	70	4515	82		1065		12
ENV - 4	Amenia Brook	5630	3890	69	5460	97		1570		28
ENV - 4	Wetland G-2	1530	130	8.5	450	29		320		20.5
ENV - 4	Pond A1	(696)	0	0	142	20		142		20
ENV - 4	Pond A2	785	0	0	525	67		525		67
ENV - 5	Stream H	1970	510	26	1640	83		1130		57
ENV - 5	Stream/Wetland J	6020	5750	95.5	5300 ⁴	92	450		3.5	
ENV - 5	Pond A8 Outlet	1180	680	58	1040	88		360		30
ENV - 5	Pond A3	790 (960)	0	0	110	11.5		110		11.5
ENV - 5	Pond A4	616 (1020)	0	0	560	55		560		55
ENV - 5	Pond A5	380	0	0	320	84		320		84
ENV - 5	Pond A6	750	0	0	440	59		440		59
ENV - 5	Pond A7	3200	0	0	1440	45		1440		45
ENV - 5	Pond A8	1728	685	40	1648	95		963		55
ENV - 6	Stream/Wetland P	1310 (1470)	570	43.5	1295	88		725		44.5

Location (Map #)	Habitat Unit	Aquatic Edge (Linear ft.) ¹	Aquatic Edge With \geq 30 ft. Buffer (Linear feet)							
			Current ²		Proposed ³		Proposed Plan			
			Feet	% Buffered	Feet	% Buffered	Linear Feet		% Buffered	
Decrease	Increase	Decrease					Increase			
ENV - 6	Unnamed Spring	670	520	78	420	63	100		15	
ENV - 6	Wetland AM-15	7850	7850	100	7850	100	0	0	0	0
ENV - 6	Pond A9	390	0	0	200	51		200		51
Totals		42415 (43764)	26055	61	35375	81	550	9870		20

Notes:

1. Linear aquatic edge for ponds/SWM is measured by the shoreline distance of a waterbody. Linear edge habitat for wetlands is determined using the delineated line distance of the wetland. Stream linear edge habitat is calculated according to the linear distance along the top of each bank (2 banks) of stream bed. Current and (Proposed) edge habitat distances vary in some instances due to expansion of existing ponds or day-lighting of stream channels for the redesigned golf course (see Figures ENV-4,5,6 for additional detail).
2. The current buffered area represents site conditions and on-site vegetative buffers, in excess of 30 feet in width, presently adjacent to sensitive habitats at the Silo Ridge Site as of August 2008.
3. The proposed buffered area represents all conservation and water quality buffers identified in the Habitat Management Plan in excess of 30 foot in width. When appropriate, percent buffered calculations include the expanded habitat distances identified for total aquatic edge (Streams V and P, Ponds A3 and A4).
4. The proposed 30 feet buffer coverage for the Stream/Wetland J complex does not include planned modifications to the number and location of residential units in Housing Block L and planned modifications to road access along the western bank of Stream J (see HMP Section 3.1.1). These modifications will reestablish Water Quality Buffers in excess of 30 feet along most of the western (upslope) bank of Stream J.

**Table D-1
Part 2
Silo Ridge Buffer Management Plan
Water Quality Buffer (30 feet in width) Coverage
Newly Constructed Aquatic Habitats and Storm Water Management Basins**

Map	Aquatic Enhancement Storm Water Management Basin	Proposed Aquatic Edge ^{1,2} (Linear ft.)	Aquatic Edge Buffer (Linear ft.)		
			< 30 ft.	≥ 30 ft.	Percent (%) ≥ 30 ft.
ENV - 4	A1 pool expansion	526	256	270	51
ENV - 4	AQ3	548	130	418	76
ENV - 4	AQ 4	500	480	20	4
ENV - 4	AQ5	570	230	340	60
ENV - 4	SWM 1 ³	280	70	210	75
ENV - 4	SWM 2	830	250	580	70
ENV - 4	SWM 3	310 ³	150	160	52
ENV - 5	SWM 4	890	340	550	62
ENV - 5	SWM 5	280	50	230	82
ENV - 5	SWM 6	280	0	280	100
ENV - 5	SWM 7	440	0	440	100
ENV - 5	SWM 8	260	0	260	100
ENV - 5	SWM 9	540	0	540	100
ENV - 5	SWM 10	520	0	520	100
ENV - 6	SWM 11	940	0	940	100
Totals		7714	1956	5758	75

Notes:

1. Linear aquatic edge for pond A1 and Aquatic Enhancement Projects (connecting waterways) is measured by the shoreline distance of the water body. Linear aquatic edge for Storm Water Management (SWM) basins is measured from the edge of the wet pool. SWM buffer areas include adjacent attenuation basins and basin plantings.

2. Aquatic edge linear distances for individual SWMs may vary from the values provided in this table. Final SWM sizes will be dependent upon final design specification of the Site-specific Storm Water Management Plan.

3. Planned modifications to the location and size of SWM 1 are anticipated to increase the proportion of edge habitat protected by 30 feet of water quality buffer from 75 to 100 percent.
