

Revisions to Draft May 11, 2006 Memo Tables and Figures

Handed out to Policy Advisory Council at May 18, 2006 Meeting

Summary of changes:

1. Table 2: updated Secchi Depth target translation value from 2.3 m to 2.6 m to reflect updated modeling.
2. Table 6: updated loading rates and meets/does not meet ratings based on refined modeling for onsite imperviousness (to better address driveway management options).
3. Tables 9 and 10: updated values to reflect refined onsite modeling results.
4. Figure 4: eliminated statement "No Development on High Slopes" from Upper Watershed Area and Critical Area B summary boxes, and reinserted Undisturbed Open Space requirements defined by slope.

Table 2. Predicted Concentration v. Target

Indicator	Predicted Concentration	Target
Chlorophyll a (intake)	3.0 µg/L (summer median)	≤ 3.0 µg/L (summer median)
Chlorophyll a (midlake)	3.4 µg/L (summer median)	≤ 3.5 µg/L (summer median)
TOC	3.1 mg/l	≤ 3.1 mg/l (as close as possible to 2.4)
Turbidity as Secchi Depth	2.6 m	≥ 2.6 m (0.2 m maximum change)
Fecal Coliform	.030 per 100 ml	≤ .065 per 100 ml (factor of 10 increase)

Revised Table 6: Evaluation of Management Options for Critical Area B and Upper Watershed Area

Scenario	Lot Size (acres)	Slope Category	% Impervious	TN (lb/acre/yr)	TP (lb/acre/yr)	TSS (tons/acre/yr)	TOC (lbs/acre/yr)	FC (#/acre/yr)
Critical Area B								
Non-Residential	NA	Low	65.0%	11.5	1.38	0.45	139.0	2.7E+11
Large Lot	5	Low	8.0%	2.7	0.30	0.26	27.1	4.2E+10
	5	High	8.0%	4.1	0.40	0.28	45.7	4.7E+10
	10	Low	4.3%	2.4	0.24	0.14	23.9	3.9E+10
	10	High	4.3%	3.7	0.31	0.16	43.7	3.1E+10
Cluster	1.3	Low	5.5%	2.5	0.22	0.06	25.2	4.2E+10
	1.3	High	5.5%	4.0	0.33	0.09	44.6	4.7E+10
	3	Low	6.0%	2.5	0.22	0.07	25.2	4.1E+10
	3	High	6.0%	4.0	0.33	0.10	44.5	4.6E+10
Upper Watershed Area								
Non-Residential	NA	Low	70.0%	13.4	1.62	0.60	159.3	3.2E+11
Large Lot	5	Low	9.0%	3.1	0.34	0.34	31.3	4.6E+10
	5	High	9.0%	4.7	0.45	0.37	52.7	4.8E+10
	10	Low	4.3%	2.5	0.22	0.16	26.9	3.0E+10
	10	High	4.3%	4.1	0.35	0.20	49.6	3.1E+10
Cluster	1.3	Low	5.5%	2.8	0.24	0.07	28.3	4.5E+10
	1.3	High	5.5%	4.4	0.36	0.10	50.7	4.6E+10
	3	Low	7.3%	3.0	0.26	0.09	29.9	4.5E+10
	3	High	7.3%	4.6	0.38	0.13	51.7	4.7E+10

Legend:



Does not meet performance standards



Does meet performance standards

Revised Table 9

Offsite Mitigation Acres Needed to Meet All Performance Standards with 5-Acre Lot Development

Scenario	Offsite Mitigation (ac)	Percent of Developable Land in Offsite Mitigation
Gravel with BMPs	27,220	51%
BAT with BMPs	17,012	32%
Paved Roads	5,255	10%

Revised Table 10

Offsite Mitigation Acres Needed to Meet TP and TOC Performance Standards with 5-Acre Lot Development

Scenario		Offsite Mitigation (ac)	Percent of Developable Land in Offsite Mitigation	Percent Exceeding TSS Standard
Pavement/ BMPs On Low Slopes	Pavement/ BMPs On High Slopes			
No BMPs	Paved	7,176	14%	51%
Gravel with BMPs	Paved	5,235	10%	19%
BAT	Paved	5,235	10%	5%
Gravel with BMPs	Gravel with BMPs	6,934	13%	49%
BAT	BAT	5,206	10%	21%

Management Scenario: Non-engineering/ Land Conservation Approach Cluster Development Scenario

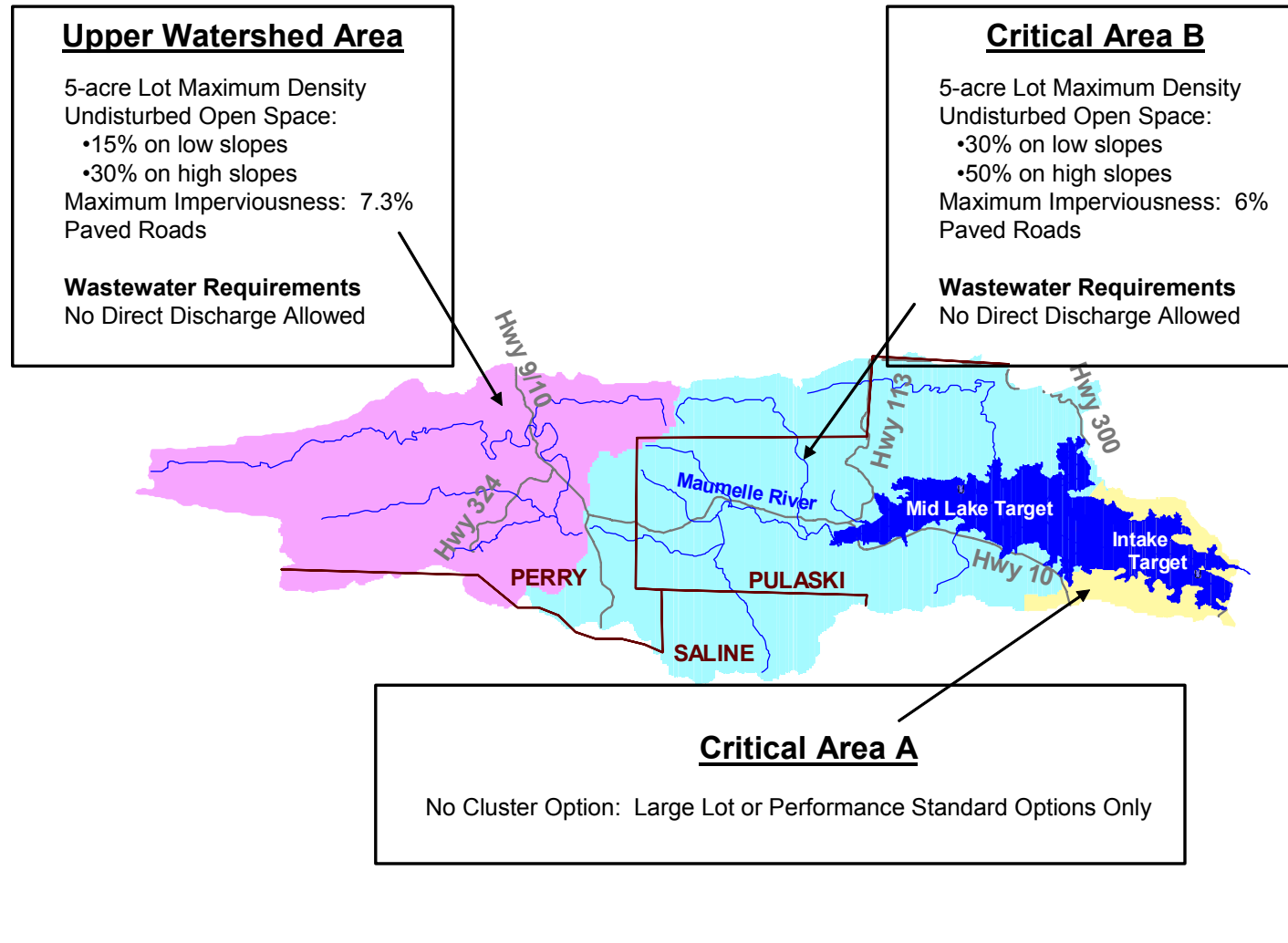


Figure 4. Non-Engineering/Land Conservation Scenario: Cluster Development