10-4-11
Revised: 10-27-11; 11-18-11

Draft Two-Year TMDL Milestones
Talbot County Maryland

1. Coordinate with the state, Talbot County Departments, municipalities and private landowners the development of inventory potential sites for BMP installation. Produce a list of such sites and assess their availability and viability.
2. Continue to seek funding for and facilitate the installation of denitrification on-site septic systems.
3. Determine state and federal funding for BMP installation
4. Explore the efficacy of improving management of roadside ditches
    a. Determine the opportunity for converting roadside ditches to bioswales
    b. Determine the opportunity for converting roadside ditches to wetlands
5. Propose and seek adoption of a surface water management utility to develop a sustainable funding mechanism
6. Review MAST data for land cover. Make corrections as appropriate.
7. Review MAST TMDL strategy as new best management practices (BMPs) are added. Amend as appropriate
8. Gain detailed understanding of the MAST BMPs and their installation requirements.
9. Pursue implementation of a septic utility for inspection and pump out of on-site septic systems.
10. Establish a water and sewer plan policy giving priority to the connection of existing on-site septic systems with an order of location precedence for connection. This policy would set priorities for achieving the maximum pollution reduction.
11. Connect the Hyde Park Community to the Easton Utilities Sewer System.
12. Work with the municipalities to increase tree canopy cover requirements in urban and rural areas.
13. Develop a mechanism for urban nutrient management planning and implementation. Implement plans and policies for the municipalities and villages.
14. Develop tracking mechanism for installed BMPs and track assumed pollution reductions
15. Devise interim strategy to achieve 2017 TMDL goals
16. Determine local funding requirements and develop method for obtaining funds
17. Develop and implement institutional arrangements to achieve local TMDL through coordination with local stakeholders and especially with municipalities and the state
18. The Region II Wastewater Treatment Plant, an ENR upgraded facility, will discharge 4,000 pounds or less of Total Nitrogen for 2012, 2013 and 2014 and will discharge 400 pounds of Total Phosphorus or less during the same period. This will provide a surplus of 4040 pounds or more of TN for 2012, 2013 and 2014. As for TP, the surplus will be 203 pounds or more for each year from 2012 through the end of 2014.

	Attachment 1				
	Septic Scenario				
	TMDL target =	46,638			
			Incremental	**Total**	**Lbs to**
			lbs	**lbs**	**Reach**
		Load	**Reduced**	**Reduced(3)**	**2020TMDL**
1	2009 Progress Load (1)	86,081			39,443
2					
3	BMP effect: (2)				
4	Denitrification 304 units	84,844	1,238	1,238	38,206
5	772 systems connected in Critical Area	73,018	11,826	13,064	26,380
6					
7					
8	**Notes:**				
9	(1) Source: MAST Model				
10	website				
11	(2) Results from MAST model applying BMPs one at a time				
	Septic Units Summary by Location				
	Within the Critical Area	3,861			
	Within 1,000 feet of a perennial stream	1,289			
	Other units	2,237			
	Total	7,387			

	Attachment 1 (continued)							
	11/21/2011							
	Urban Scenario							
	Target Load =	126,792						
			Incremental	**Total**		**Percent of**		**Lbs Reduced**
			lbs	**lbs**	**Lbs to**	**Goal**	**Acres**	**Per Acre**
		Load	**Reduced**	**Reduced**	**TMDL**	**Achieved**	**Treated**	**Treated**
1	2009 Progress Load (1)	191,300			64,508			
2								
3	Installed BMP effect: (2)							
4	Uban Nutrient Planning 10,024 acres developed pervious	178,819	12,481	12,481	52,027	19.35%	10,024	1.245
5	Monthly street sweeping 45 acres assumed	178,805	14	12,496	52,013	19.37%	45	0.313
6	Sediment/erosion control all regulated construction	178,805	-	12,496	52,013	19.37%	267	-
7	200 acres stormwater controls	178,759	46	12,541	51,967	19.44%	200	0.228
8	200 acres forest conservation applied to development	178,624	136	12,677	51,832	19.65%	200	0.678
9	45 acres impervious treated with open swales	178,439	185	12,861	51,647	19.94%	45	4.109
10	200 acres pervious treated with open swales	175,075	3,364	16,226	48,283	25.15%	200	16.821
11	20 acres impervious treated with bioretention	175,068	7	16,232	48,276	25.16%	20	0.335
12	1,800 acres pervious treated with urban filters	174,530	538	16,771	47,738	26.00%	1,800	0.299
13	200 acres impervious treated with urban filters	173,806	723	17,494	47,014	27.12%	200	3.616
	Notes:							
	(1) Source MAST model							
	(2) Results from MAST model applying BMPs one at a time							
	Urban Land Summary	**Acres**						
	Unregulated impervious developed	4,582.6						
	Unregulated pervious developed	######						
	Regulated Construction	267.3						
	Nonregulated extractive	155.5						
	Regulated Industrial impervious	88.8						