

# Stormwater Allocation

- What allocation, if any, should be given to the post-development load.
- The difference between the post-development load and the allocation for the post-development load equals the offset needed.
- Stormwater Allocation Options:
  - 1) Zero allocation
  - 2) Forest load allocation
  - 3) The lower of the Bay TMDL or Local TMDL allocation for the pre-development land use
  - 4) Pre-development land use load using 2010 Progress run

# Nitrogen Loading Analysis

	Cropland to Developed		Forest to Developed		
	Pre	Post	Pre	Post	
Load	20	6	3	6	
Allocation Provided		Option 1		Option 1	
		Option 2		Option 2	
		Option 3		Option 3	
		Option 4		Option 4	
Offset Needed		Option 1		Option 1	
		Option 2		Option 2	
		Option 3		Option 3	
		Option 4		Option 4	

\*1 acre site, 50% impervious, 50% pervious



# Nitrogen Loading Analysis

	Cropland to Developed		Forest to Developed		
	Pre	Post	Pre	Post	
Load	20	6	3	6	
Allocation Provided	16	Option 1	0	Option 1	0
		Option 2	3	Option 2	3
		Option 3	16	Option 3	3
		Option 4	20	Option 4	3
Offset Needed		Option 1		Option 1	
		Option 2		Option 2	
		Option 3		Option 3	
		Option 4		Option 4	

\*1 acre site, 50% impervious, 50% pervious



# Nitrogen Loading Analysis

	Cropland to Developed		Forest to Developed		
	Pre	Post	Pre	Post	
<b>Load</b>	20	6	3	6	
<b>Allocation Provided</b>	16	Option 1	0	Option 1	0
		Option 2	3	Option 2	3
		Option 2b	6	Option 2b	3
		Option 3	16	Option 3	3
		Option 4	20	Option 4	3
<b>Offset Needed</b>	4	Option 1	6	Option 1	6
		Option 2	3	Option 2	3
		Option 2b	0	Option 2b	3
		Option 3	-10	Option 3	3
		Option 4	-14	Option 4	3

\*1 acre site, 50% impervious, 50% pervious



# Modified - Nitrogen Loading Analysis

	Cropland to Developed			Forest to Developed		
	Pre	Post		Pre	Post	
<b>Load</b>	20	11		3	11	
<b>Allocation Provided</b>	16	Option 1	0	3	Option 1	0
		Option 2	3		Option 2	3
		Option 2b - Eric	8.7		Option 2b	3
		Option 3	16		Option 3	3
		Option 3b - MACO	16		Option 3b	3
<b>Offset Needed</b>	4	Option 1	11	0	Option 1	11
		Option 2	8		Option 2	8
		Option 2b - Eric	2.3		Option 2b	8
		Option 3	-5		Option 3	8
		Option 3b - MACO	0		Option 3b	8

\*1 acre site, 50% impervious, 50% pervious, + 1 Septic



# Nitrogen Loading Analysis

	Cropland to Developed		Forest to Developed	
	Pre	Post	Pre	Post
Load	20	6	3	6
Allocation Provided	16	Option 1	0	0
		Option 2	3	3
		Option 3	16	3
		Option 4	20	3
Offset Needed	4	Option 1	6	6
		Option 2	3	3
		Option 3	-10	3
		Option 4	-14	3



\*1 acre site, 50% impervious, 50% pervious

# Nitrogen Loading Analysis

	Cropland to Developed			Forest to Developed		
	Pre	Post		Pre	Post	
Load	20	6		3	6	
Allocation Provided	16	Option 1	0	3	Option 1	0
		Option 2	3		Option 2	3
		Option 3	16		Option 3	3
		Option 4	20		Option 4	3
Offset Needed	4	Option 1	6	← Neutral Incentive →		6
		Option 2	3	← Neutral Incentive →		3
		Option 3	-10	← Incentive to Develop Ag →		3

\*1 acre site, 50% impervious, 50% pervious



# Range of Pre Land Use

