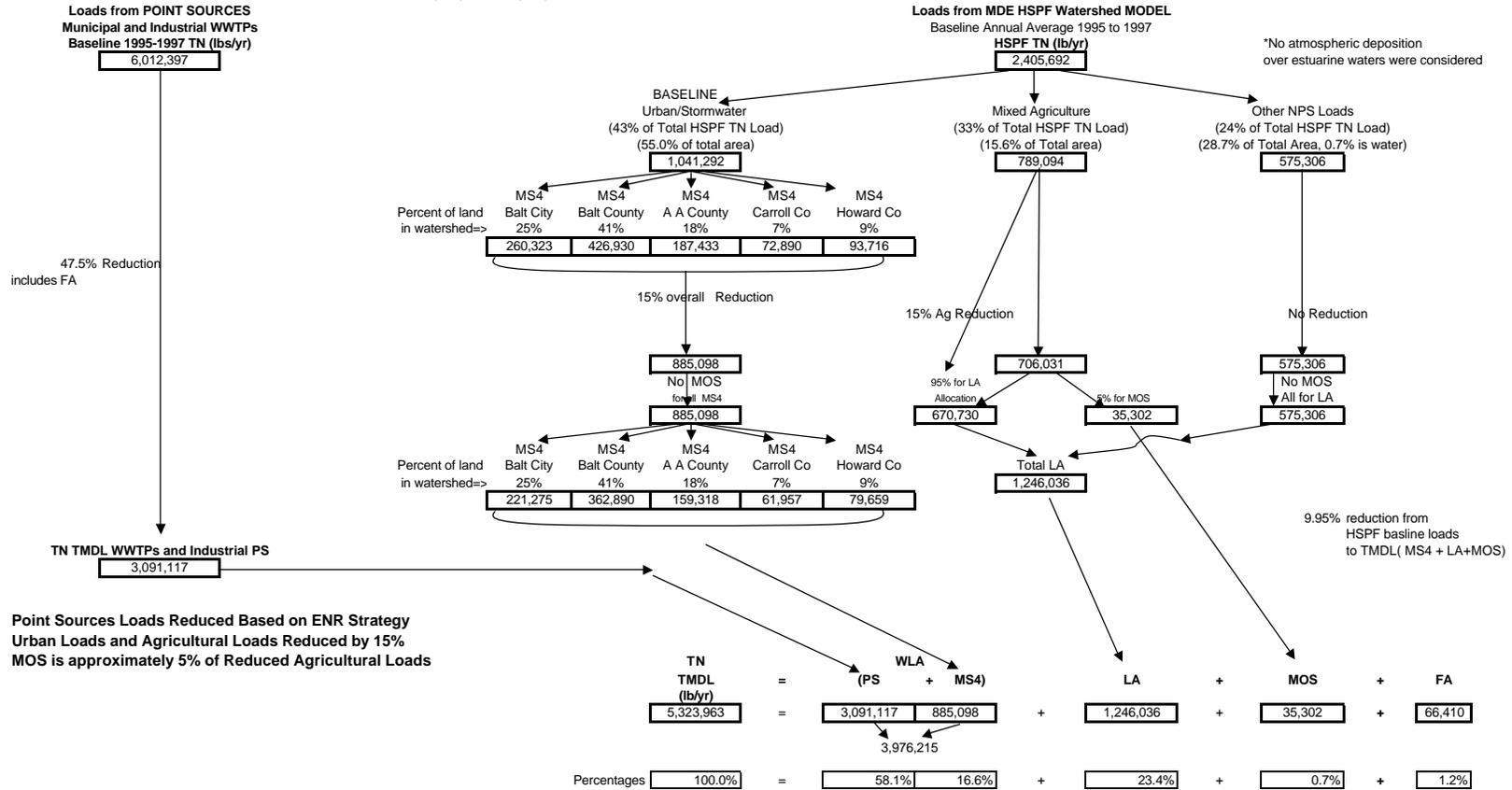


FINAL

**BALTIMORE HARBOR NUTRIENTS TMDLS**  
**APPENDIX C: Potential TMDL Allocations by Source Category**

### Baltimore Harbor TMDL Annual Average TN Allocations

Total baseline TMDL overall % reduction  
 8,418,089 5,323,963 36.8%



### Baltimore Harbor TMDL Annual Average TP Allocations

**Loads from POINT SOURCES**  
Municipal and Industrial WWTPs  
Baseline 1995-1997 TN (lbs/yr)

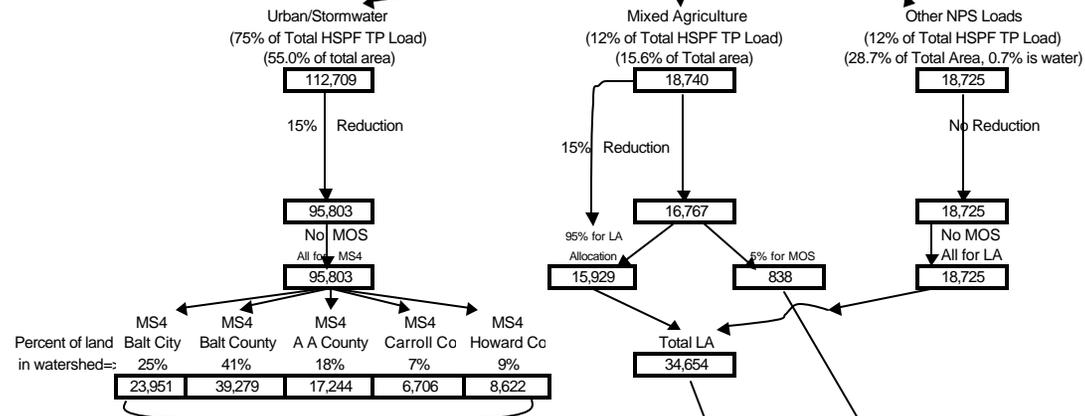
204,714

TP TMDL WWTPs and Industrial PS  
147,324

**Loads from MDE HSPF Watershed MODEL**  
Baseline Annual Average 1995 to 1997  
HSPF TP (lb/yr)

150,174

\*No atmospheric deposition  
over estuarine waters were considered



**Point Sources Loads Reduced Based on ENR Strategy**  
Urban Loads and Agricultural Loads Reduced by 15%  
MOS is Approximately 5% of Reduced Agricultural Loads

TP TMDL (lb/yr)	=	WLA (PS + MS4)	+	LA	+	MOS	+	FA
324,309	=	147,324 + 95,803	+	34,654	+	838	+	45,690
		243,127						

Percentages*	100%	=	45%	30%	+	10.7%	+	0.3%	+	14%
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\* Percent values do not equal 100% due to rounding

### Baltimore Harbor TMDL Growing Season TN Allocations

May 1 to Oct 31  
**Loads from POINT SOURCES**  
 Municipal and Industrial WWTPs  
 Baseline 1995-1997 TN (lbs/month)

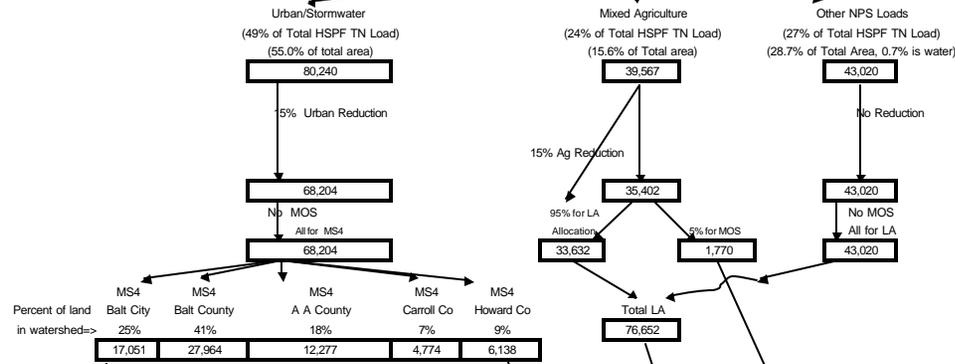
476,703

**Loads from MDE HSPF Watershed MODEL**  
 Baseline Average May 1 to October 31 1995 to 1997

HSPF TN (lb/month)

162,827

\*No atmospheric deposition  
 over estuarine waters were considered



TN TMDL WWTPs and Industrial PS  
 205,465

Point Sources Loads Reduced Based on ENR Strategy  
 Urban Loads and Agricultural Loads Reduced by 15%  
 MOS is Approximately 5% of Reduced Agricultural Loads

TN TMDL (lb/month)	=	WLA (PS + MS4)	+	LA	+	MOS	+	FA
357,625	=	205,465 + 68,204	+	76,652	+	1,770	+	5,534
TN TMDL (lb/growing season)*	=	WLA (PS + MS4)		LA	+	MOS	+	FA
2,145,750	=	1,232,790 + 409,224		459,912	+	10,621	+	33,204

\*Monthly loads multiplied by number of months (6) in growing season to determine growing season load

100%	=	57.5%	19.1%	+	21.4%	+	0.5%	+	1.5%
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\*\* Percent values do not equal 100% due to rounding

Baltimore Harbor TMDL Growing Season TP Allocations

