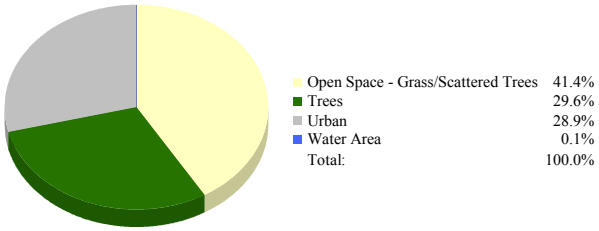
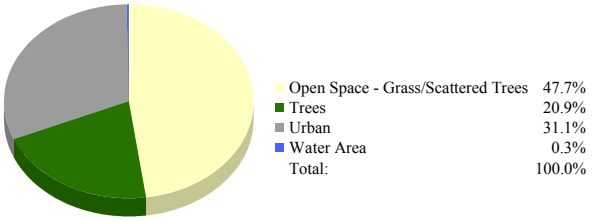
Analysis Report

Lincolnton, NC 1984 Landcover



Lincolnton, NC 2003 Landcover



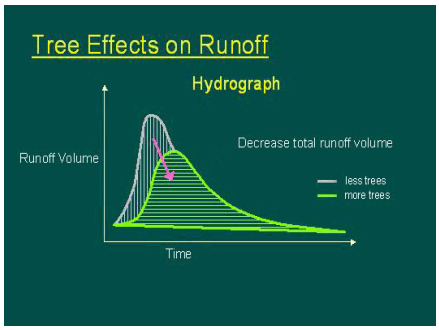
Air Quality Results

Pounds Removed per Year

Pollutant	1984	2003
Carbon Monoxide:	5,500	3,871
Nitrogen Dioxide:	9,624	6,775
Ozone:	56,372	39,683
Particulate Matter:	41,248	29,036
Sulfer Dioxide:	17,874	12,582
Total:	**130,618**	**91,947**

Stormwater Results

Storm Event Hydrograph



Stormwater Volume Change

2-yr, 24-hr Rainfall: 3.25 in.

**Curve Number reflecting conditions in 1984:* 75

**Curve Number reflecting conditions in 2003:* 76

Additional Storage volume of stormwater generated due to change in landcover from 1984 to 2003: 1,114,935 cu. ft.

Construction cost of retention facilities per cu. ft.of stormwater: $2.00

Cost of the construction of retention facilities to store excess volume of stormwater: **$2,229,870**

Benefits Summary

Landcover Change (acres)

Landcover	1984	2003	Change
Trees:	1,542	1,086	-29.6%
Open Space:	2,153	2,483	15.3%
Urban:	1,503	1,620	7.8%
Water:	7	17	143.8%
Total Acres:	5,206		

Air Pollution Benefits

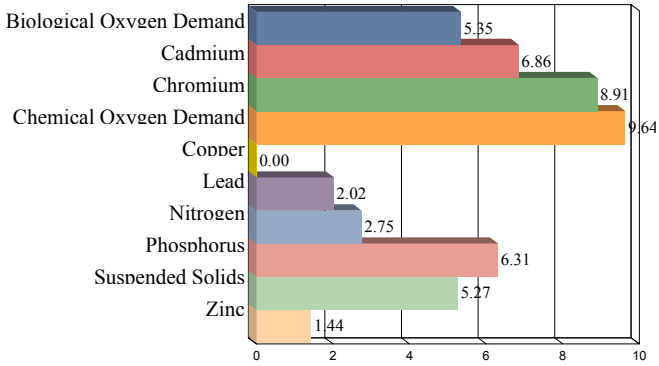
Pollutants Removed (lbs):	130,618	91,947	-38,670
$ Amount:	$303,122	$213,380	-$89,741
Carbon Stored (tons):	66,372	46,722	-19,650
Carbon Sequestered (lbs):	517	364	-153

Stormwater Benefits

Additional Storage Volume Needed:		8,755,970	1,114,935
Cost of Retaining Additional Volume of Runoff:		$17,511,940	$2,229,870

Water Quality (Contaminant Loading)

Percent Change in Contaminant Loadings from 1984 to 2003 due to land cover change



*The stormwater calculations are based on curve number which is an index developed by the NRCS, to represent the potential for storm water runoff within a drainage area. Curve numbers range from 30 to 100. The higher the curve number the more runoff will occur. The change in curve number reflects the increase in the volume of stormwater runoff.