

Cotton Bayou Trail

Benefit Cost Analysis

1. Safety Benefits

\$1,332,000

2. Delay Benefits

\$399,000

3. Emissions Benefits

Discounted NOx Benefit: \$969.04

Discounted VOC Benefit: \$55.99

Total Emissions Benefit: \$1,025.03

4. Additional BCA Documentation

5. Additional BCA Documentation

6. Please provide a brief narrative describing the methodology, input data and results

The total benefit is \$1,732,025 and the approximate total cost of the trail system is \$4,006,531.

With a 40% federal request of \$1,602,612, the anticipated Benefit/Cost ratio is **1.08**.

The H-GAC projected 2018, 2025, and 2045 peak period traffic volumes for the proposed Cotton Bayou Trail were adjusted based on existing peak hour traffic counts along Eagle Drive. The adjustments can be seen in the attached document.

Cotton Bayou Trail - from Southeast corner of Montbelvieu City park to IH 10 (North of I10)	2018 PkPeriod Vol	2018 24Hr Vol	2018 PkPeriod Cap	2025 PkPeriod Vol	2025 24Hr Vol	2025 PkPeriod Cap	2045 PkPeriod Vol	2045 24Hr Vol	2045 PkPeriod Cap	Estimated FFSpd (2018)	Avg Corrdor Spd (2018)
Adjusted Values	12,743	25,555	7,742	14,804	31,096	7,742	22,017	52,165	7,742	54	35
H-GAC Projected Values	3,075	6,167	7,742	3,573	7,504	7,742	5,313	12,589	7,742	54	35

