

**Waller Creek Tunnel
Summary of Recent Cost Estimates**

DESIGN FEATURES	January 2000	November 2003	June 2006 Estimate	
	Estimate	Estimate	Manual	Mechanical
DESIGN FEATURES Tunnel Design Tunnel Alignment Inlet Design Outlet Design Storm Drain System: Screens for Intervening Storm Sewer:	22' Diameter Tunnel = Divers 100% of 100yr Storm Flows (w/ Intermediate Access Shaft) Sabine Street 12th Street Morning Glory Inlet with Mechanical Screen West Creek Lagoon Outlet Intervening Storm Drain System with 13.5' Lateral Shafts			
TUNNEL PROJECT				
Inlet	\$14,310,000	\$15,480,000	\$21,605,000	\$21,605,000
Tunnel	\$18,738,000	\$20,260,000	\$27,566,000	\$27,566,000
Outlet	\$7,777,000	\$8,420,000	\$13,300,000	\$13,300,000
Total Construction Cost	\$40,825,000	\$44,160,000	\$62,471,000	\$62,471,000
Right-of-Way	\$459,000	\$496,000	\$702,000	\$702,000
Preliminary Engineering, Engineering Design, Modeling, Geotechnical Engineering & Testing, & Construction Management, Inspection, Small Bid Pkgs	\$11,506,000	\$12,450,000	\$18,910,000	\$18,910,000
PROJECT COST	\$52,790,000	\$57,106,000	\$82,083,000	\$82,083,000
Annual O&M Cost	\$1,395,000	\$1,508,000	\$1,599,000	\$1,599,000
INTERVENING STORM SEWER CONNECTIONS				
Construction Cost	\$7,880,000	\$8,938,000	\$19,543,000	\$32,260,000
Engineering, Testing, & CM	\$1,580,000	\$2,235,000	\$6,092,000	\$8,700,000
Right-of-Way			\$122,000	\$730,000
PROJECT COST	\$9,460,000	\$11,173,000	\$25,757,000	\$41,690,000
Annual O&M Cost	\$79,000	\$85,000	\$1,001,000	\$1,033,000
OVERALL TUNNEL PROJECT PLUS STORM SEWERS				
Construction Cost	\$48,705,000	\$53,098,000	\$82,014,000	\$94,731,000
Engineering, Testing, & CM	\$13,086,000	\$14,685,000	\$25,002,000	\$27,610,000
Right-of-Way (Tunnel)	\$459,000	\$496,000	\$824,000	\$1,432,000
PROJECT COST	\$62,250,000	\$68,279,000	\$107,840,000	\$123,773,000
Annual O&M Cost	\$1,474,000	\$1,594,000	\$2,600,000	\$2,632,000

Cost Increases from 2000 to 2003:
Standard Inflation adjustment

Cost Increases from 2003 to 2006
 Inflation factor: General materials = 1.28, High Steel components = 2.00
 (Due to pricing and inflation pressures from Hurricanes Katrina and Rita
 overall project increase roughly 58%)
 ROW Width from 45' to 50': \$547,000
 Addition of Mechanical Screens: ~\$16 million