

LMS Project 1 – Public Works Structure Replacement

Cost Prior

Structure Replacement - \$750,000

Equipment Replacement - \$1,846,683.51

Collateral Damage for work loss \$1,500,000

Total \$4,096,683,51

Cost After

Structure Damage – \$60,000

Equipment Damage - \$0.000

Collateral Damage for Work Loss \$0.00

Total \$60,000

Cost of Project - \$750,000

LMS Cost Benefit Analysis 5.38

LMS Project 2 – Collecting Canal Stabilization (3.17 Miles)

Cost Prior

Catastrophic Canal Bank Failure:

Bank Failure \$8,000,000

Road Replacement \$1,105,000

Road Base Replacement \$1,800,000

Collateral Damage to Residents \$10,000,000

Potential Damage to Culverts \$3,500,000

Total \$24,405,000

Cost After

Bank Failure \$10,000

Road Replacement \$40,000

Road Base Replacement \$20,000

Collateral Damage to Residents \$800,000

Potential Damage to Culverts \$100,000

Total \$1,020,020

Cost of Project \$10,000,000

LMS Cost Benefit Analysis 2.34

LMS Project 3 – Generator Purchase and Installation at 155 F Rd

Cost Prior

Loss of Use for EOC \$100,000

Cost After

Loss of Use \$0.00

Cost of Project \$75,000

LMS Cost Benefit Analysis 1.33

LMS Project 4 – Canal Gate Upgrades

Cost Prior

Gate Operation Failure Causing Flooding to Residents \$1,000,000

Emergency Repair to facilitate operation \$100,000

Cost After

Preventing or limiting Flooding \$10,000

Emergency Repairs \$5,000

Cost of Project \$300,000

LMS Cost Benefit Analysis 3.61

LMS Project 5 – Telemetry and SCADA

Cost Prior

Operation Failure Causing Flooding to Resident \$1,000,000

Emergency Repairs to facilitate Operation \$10,000

Cost After

Preventing or limiting Flooding \$10,000

Emergency Repairs \$1,000

Cost of Project \$300,000

LMS Cost Benefit Analysis 3.33

LMS Project 6 – Town Wide Canal Stabilization (25.36 Miles)

Cost Prior

Catastrophic Canal Bank Failure:

Bank Failure \$63,920,000

Road Replacement \$8,828,950

Road Base Replacement \$14,382,000

Collateral Damage to Residents \$79,900,000

Potential Damage to Culverts \$27,965,000

Total \$194,995,950

Cost After

Bank Failure \$79,000

Road Replacement \$319,600

Road Base Replacement \$159,800

Collateral Damage to Residents \$6,392,000

Potential Damage to Culverts \$799,000

Total \$7,749,400

Cost of Project \$79,900,000

LMS Cost Benefit Analysis 2.34