

Part I – Dredging Segments 1-3 with Mechanical Dewatering and Material Recovery

Dredging Volume = 290,324 cubic yards = 59 million gallons
59 million gallons = Reduction in height of approximately 1 foot to proposed Ragged Mountain Reservoir

Potential Revenue for Material Recovery:

Sand = \$4,774,699 to \$9,469,978
Other Materials= (\$177,147) to \$2,133,865
Total= \$4,597,552 to \$11,603,843

Cost:

A. Without Sale of Material for Reuse

\$7,766,518 to \$12,973,515
\$27 - \$45 per cubic yard= \$132,000 to \$221,000 per million gallons
Mid-Point of Range=\$10,370,017 or Cost of \$36 per cubic yard

B. With Sale of Material for Reuse

(\$3,837,325) to \$8,375,963
(\$13) - \$29 per cubic yard= (\$65,000) to \$144,000 per million gallons
Mid-Point of Range=\$2,269,319 or Cost of \$8 per cubic yard

Part II – Dredging Segments 4-9 with Confined Dike Facilities; No Material Recovery

Dredging Volume = 835,686 cubic yards = 169 million gallons
169 million gallons = Further reduction in height of additional 2-1/2 feet (3-1/2 feet total for Parts I and II combined) to proposed Ragged Mountain Reservoir

Potential Revenue for Material Recovery

None

Cost:

\$26,271,273 to \$27,219,996
\$31 - \$33 per cubic yard = \$156,000 to \$161,000 per million gallons
Mid-Point of Range= \$26,745,635 or Cost of \$32 per cubic yard

Proposed Ragged Mountain Reservoir Expansion

Current Total Reservoir Volume = 514 million gallons (Useable=463 million gallons)
Proposed Total Reservoir Volume¹ = 2,575 million gallons (Useable = 2,189 million gallons)
Increase in Useable Volume = 1,726 million gallons = 8,544,600 cubic yards
Estimated Project Cost = \$28.5 - \$36.6 million = \$3 - \$4 per cubic yard = \$16,500 - \$21,200 per million gallons
Mid-Point of Range= \$32,550,000 or Cost of \$4 per cubic yard

¹Based on Bathymetric Survey Performed in 2008