

**TABLE 13  
GENERAL COMPARISON OF REMEDIAL ALTERNATIVES**

DESCRIPTION	REMEDIAL ALTERNATIVE 1	REMEDIAL ALTERNATIVE 2	REMEDIAL ALTERNATIVE 3
	HYDRAULIC DREDGING & BANK STABILIZATION	MECHANICAL DREDGING, BANK EXCAVATION, REMOVAL OF ALL NINE DAMS	HYDRAULIC and MECHANICAL DREDGING, BANK EXCAVATION, MAXIMUM REMOVAL / BREACH OF UNUSED DAMS

**PROJECT OVERVIEW**

Number of Dams Removed	0	9	5 (estimated)
Dredged Volume (cubic yards)	500,000	900,000	900,000
Volume of Landfill Material (cubic yards)	500,000	800,000	800,000
Volume of Material Reintroduced into the River (cubic yards)	275,000	275,000	275,000
Attainment of Warm Water Habitat Quality Indices Within Project Area	Improvement of all WWH Quality Indices to within 20% of Full Attainment Levels	Improvement of all WWH Quality Indicators (except DELT) to Full Attainment Levels	Improvement of all WWH Quality Indicators (except DELT) to within 10% of Full Attainment Levels
Degree of Restoration of Mahoning River	Lowest	Highest	Intermediate
Removal of Public Health Advisory	Low Certainty	High Probability	High Probability
Utility Line Relocation (linear feet)	7,200	7,200	7,200

**BANK ISSUES**

Clearing and Grubbing Bank Area (acres)	35	115	115
Geotextile Bank Cover Area (acres)	100	0	0
Bank Area Impacted by Excavation (acres)	0	115	115
Improvements to Riparian Zone	Lower	Higher	Higher

**REAL-ESTATE ISSUES**

Holding Basin Area (acres)	100	130	130
Misc. Land Easement Area Required for Real-Estate (Access, etc. - acres)	111	126	126

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**COST ISSUES**

Private Facility Adjustment Cost (\$) - Other Than Utility Lines	\$0	much greater than \$0 (not determined)	Approximately \$0
Annual Cost (\$)	\$30,000 (bank cover maintenance)	\$0	\$0
Economic/Social Benefits (\$)/Certainty	Between \$30- and \$100-million annually- Low	Between \$30- and \$100-million annually- High	Between \$30- and \$100-million annually- High

**FEASIBILITY STUDY ISSUES**

Federal Interest Attainment	Not Certain (unreliability of bank cover)	Yes	Yes
Key Factors for Further Investigation	Effectiveness of Bank Cover, Alternatives to Landfill	Impact of Bank Excavation on Riparian Zone, Alternatives to Landfill, Dam Utilization	Impact of Bank Excavation on Riparian Zone, Alternatives to Landfill, Dam Utilization

**TOTAL INITIAL COST**

Total Initial Cost (Excluding Private Facility Adjustment - \$)	\$66,000,000 (Table 9)	\$101,000,000 (Table 10)	\$91,000,000 (Table 11)
Degree of Risk and Uncertainty	High	Low	Low