

TABLE 5.1 Implementation Plan Management Measures

Project Name	Location	Project Description	Purpose	5-year Estimated Cost	Category Subtotal	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	Construction Projects	Studies
ONGOING ANNUAL WATERSHED TASKS					\$ 322,000	\$ 78,000	\$ 61,000	\$ 61,000	\$ 61,000	\$ 61,000	\$ -	\$ 322,000
1	Water Quality Monitoring	Coal Creek Watershed	Develop and implement water quality sampling plan for instream flows	Gather and document stream water quality	\$142,000	\$38,000	\$26,000	\$26,000	\$26,000	\$26,000		\$142,000
2	Information and Education	Coal Creek Watershed	Develop and implement Information & Education program (web site, media campaign, school)	Promote a clear identification and understanding of water quality issues, including practices that residents can implement to reduce pollutants to surface waters	\$30,000	\$10,000	\$5,000	\$5,000	\$5,000	\$5,000		\$30,000
3	Watershed Coordinator	Coal Creek Watershed	Part-time watershed coordinator position to hold watershed meetings, coordinate projects and secure funding	Central position for development and implementation of watershed protection plan and reporting	\$150,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000		\$150,000
CONSTRUCTION					\$ 14,000	\$ 1,000	\$ 8,500	\$ 1,500	\$ 1,500	\$ 1,500	\$ -	\$ 14,000
1	Construction Site Permits	County/Town	Setup tracking method for construction site permits, inspections, enforcement actions for stormwater discharge permits	Identify locations of construction sites in watershed	\$4,000		\$2,500	\$500	\$500	\$500		\$4,000
2	Risk Assessment Tool	County/Town	Develop a method for evaluating construction sites based on potential risk	Prioritize construction sites for inspection and enforcement	\$5,000		\$5,000					\$5,000
3	Municipal Training	County/Town	Plan reviewer & inspector training	Promote a clear identification and understanding of stormwater issues, including activities with the potential to pollute	\$5,000	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000		\$5,000
STREAM EVALUATION AND PROJECTS					\$ 205,000	\$ 40,000	\$ 60,000	\$ 25,000	\$ 20,000	\$ 60,000	\$ 108,000	\$ 97,000
1	Conduct SVAP	Coal Creek Watershed	Conduct Stream Visualization and Assessment Plan	Evaluate and Assess Coal Creek and Elk Creek for streambank improvements in accordance with NRCS protocols	\$80,000	\$40,000				\$40,000		\$80,000
2	Buffer Areas	Coal Creek Watershed	Construct and enhance new native buffer areas along stream alignment	Provide vegetative buffer areas for Coal Creek and Elk Creek	\$120,000		\$60,000	\$20,000	\$20,000	\$20,000	\$108,000	\$12,000
3	Progress Reporting	County-wide	Brochure/newsletter for educating visitors and residents about projects underway	Promote a clear identification and understanding of impacts to water quality	\$5,000			\$5,000				\$5,000
MINING/METAL SOURCES					\$ 6,220,000	\$ -	\$ 7,000	\$ 527,667	\$ 3,027,667	\$ 2,657,667	\$ 677,000	\$ 5,543,000
1	Map Mine Areas	Coal Creek Watershed	Create and update GIS mapping and field verify mine discharge areas	Increase awareness of where mine discharge areas are	\$10,000		\$7,000	\$1,000	\$1,000	\$1,000		\$10,000
2	Runon Controls	Standard Mine	Provide ditches to divert low surface flows around tailings areas and mine site	Reduce the exposure of tailings to stormwater/snowmelt runoff	\$40,000			\$13,333	\$13,333	\$13,333	\$36,000	\$4,000
3	Detention Pond Capacity	Standard Mine	Design and Construct off-line detention pond for Elk Creek, low flow detention	Construct pond capacity, for low flows to establish residence time and increase sedimentation for decrease of metals loading	\$10,000					\$10,000	\$9,000	\$1,000
4	Discharge Dispersal / Land Application	Standard Mine	Provide ditches/pipes to divert low surface flows away from Elk Creek	Reduce the exposure of drainage from tailings and mineralized areas to minimize effects on Elk Creek	\$40,000			\$13,333	\$13,333	\$13,333	\$36,000	\$4,000
5	Constructed Wetlands	Standard Mine	Design and Construct wetlands (grade and reveg 2 acres)	Construct wetlands to improve pollutant removal process through filtration	\$120,000					\$120,000	\$96,000	\$24,000
6	Active Water Treatment Plant	Standard Mine	Design and construct a collection and treatment system for mine drainages	Reduce the pollutant load from the site using an advanced treatment system	\$6,000,000			\$500,000	\$3,000,000	\$2,500,000	\$500,000	\$5,500,000
ROADWAY					\$ 315,000	\$ 12,500	\$ 2,500	\$ 100,000	\$ 100,000	\$ 100,000	\$ 240,000	\$ 75,000
1	Conduct Roadway Inventory	Coal Creek Watershed	Evaluate roadways, proximity to drainages and improvements	Identify erosion problems and transport of sediment	\$10,000	\$10,000						\$10,000
2	Fill Slope & Revegetate	Coal Creek Watershed	Slope stabilization & revegetate to fix gully erosion at identified locations	Repair erosion problems to minimize sediment loading to Creek	\$300,000			\$100,000	\$100,000	\$100,000	\$240,000	\$60,000
3	Minimum Roadway Width	Coal Creek Watershed	Evaluate appropriate dirt roadway width requirements	Require minimum roadway widths to minimize impacts to runoff	\$2,500	\$2,500						\$2,500
4	Roadway Maintenance	Coal Creek Watershed	Evaluate current maintenance requirements and practices	Require routine maintenance to ensure proper operation of BMPs	\$2,500		\$2,500					\$2,500
Total project costs					\$ 7,076,000	\$ 131,500	\$ 139,000	\$ 715,167	\$ 3,210,167	\$ 2,880,167	\$ 1,025,000	\$ 6,051,000