TABLE 1. ASSESSMENT OF DESIGNATED AND DESIRED USES

Impaired	Protect Stream Corridor From Further Degradation
STATUS	DESIRED USE
No impact	Total body contact recreation (May 1 - October 31)
No impact	Partial body contact recreation
Impaired - sediment	Other Indigenous aquatic life and wildlife
Impaired - sediment	Warmwater Fishery
Impaired - sediment	Coldwater Fishery
No impact	Navigation
No impact	Public water supply
No impact	Industrial water supply
No impact	Agriculture
STATUS/CAUSE	DESIGNATED USE

TABLE 2. POLLUTANTS, SOURCES, AND CAUSES OF POLLUTION FOR THREATENED AND IMPAIRED DESIGNATED AND DESIRED USES

IMPAIRED DESIGNATED POLLUTANTS kirk South Fig. 1 CAUSES Control between Control County of Causes Cau	N -1 -1	2 Surface water discharges Lack of shade producing vegetation along stream corridor Slow moving water	-1 N	Impoundment Discharges Unshaded Stream Banks	N	Temperature	
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TABLE 3. IMPAIRED DESIGNATED USES AND GOALS

IMPAIRED DESIGNATED USES	GOALS
Coldwater Fishery	Re-establish and Enhance Coldwater Fishery (upper reaches of the watershed)
Warmwater Fishery	Re-establish and Enhance Warmwater Fishery (middle and lower reaches of the watershed)
Other Indigenous Aquatic Life and Wildlife	Re-establish and Enhance Other Aquatic Life and Wildlife (specifically macroinvertebrates, small mammals, and birds)
DESIRED USES	GOALS
Protect Stream Corridor to Enhance Imparied Uses	Educate the public on the resource values of Kearsley Creek; Obtain easements from riparians

TABLE 4. GOALS AND OBJECTIVES

IMPAIRED DESIGNATED	GOALS	OBJECTIVES
0010		Reduce sediment inputs from stream bank erosion
Oaldwater Fighery	Re-establish and Enhance Warmwater Fishery	Reestablish riparian zones and reduce temperatures
Coldwater	(upper reaches of the watershed)	Decrease sediment inputs from gravel roads
		Reduce sediment inputs from stream bank erosion
	De-establish and Enhance Warmwater Fishery	Reestablish riparian zones and reduce temperatures
Warmwater Fishery	(middle and lower reaches of the watershed)	Decrease sediment inputs from agricultural fields
		Reduce crosion and sedimentation at bridges and culverts
		Reduce sediment inputs from stream bank erosion
Other Indigenous	Re-establish and Enhance Other Aquatic Life and	Reestablish riparian zones and reduce temperatures
Agustic Life and	Wildlife (specifically macroinvertebrates, small	Decrease sediment inputs from agricultural fields
Aqualic Elic alia	mammals, and birds)	Decrease sediment inputs from roads
9 1 2		Reduce erosion and sedimentation at bridges and culverts
DESIRED USES	GOALS	OBJECTIVES
Increase Flood	For new construction, limit runoff to predevelopment	Adopt stormwater oridnances
Storage Within Floodplain	rate	Create regional stormwater/wetland detention basins
Drotect Stream		Hold public information meetings and field workshops to educate the public on the resource values of Kearsley Creek and its surrounding land uses
Corridor	Obtain vegetative easements within siteath contact	Purchase land or obtain easements for areas identified as critical
		Adopt ordinances to protect natural resources

TABLE 5. OBJECTIVES BY SOURCE

£	Year 2	TBD	NA		Contact various agencies and organizations to seek funding apportunities	Incentives for persons to enter properties into vegetative and conservation easements	Identify sources of funding for persons placing land into easements
,	Year 2	Hold one meeting with three separate twonships	Public Meeting	Public	Develop and conduct educational meetings/workshops	Lack of public awareness of resource issues and benefits	Hold public information meetings and field workshops to educate the public on the resource values of Kearsley Creek and its surrounding land uses
	6 Months	Hold one meeting with Road commissioner	Meetings with road commisioner	Information and Education	and/or soft structures	installed structures	and culverts
\$20,000	Year 1	15	Hard structures	Rock riprap; live-staking; vegetative plantings	Stabilize eroding slopes and structures with hard	Eroding side slopes, lack of proper stabilization around structures; improperly sized and/or	Reduce erosion and sedimentation at bridges
	6 Months	Hold one meeting with Road commissioner	Meetings with road commisioner	Information and Education	obtain easements to ensure vegetative buffers are maintained	Discharge of sediment from roadways	Decrease sediment inputs from roads
\$1,000 - \$10,000	Year 1	15	Check dams; live-staking, vegetative plantings;	Check dams; live-staki	Evaluate road grading practices adjacent to stream corridor; implement soil erosion control measure;		
	Year 1	Hold two township meetings	Meeting with landowners, NRCS - buffer plan	Information and Education	obtain easements to ensure vegetative buffers are maintained	Discharge of sediment from agricultural fields	Decrease sediment inputs from farmitiens - Black Creek
\$ 1,000 - \$10,000	Year 1	1	Check dams, live-staking, vegetative plantings;	Check dams; live-staki	Evaluate farming practices adjacent to stream		
\$1,000 to \$ 5,000 (dam structures will be more)	Year I	Hold three township meetings	Landowner workshop on landscaping alternatives	Information and Education	identity responsible parties of alleged distinatiges; vegetate stream corridor to provide shading; assess impoundment discharges	Unvegetated riparian zones, thermal discharges; loss of vogetation or shading of the stream corridor; discharges from impoundments	Reestablish riparian zones and reduce temperatures
	Year 1	Meet with three townships	Wetland protection	Offiliations			
	Year 1	Meet with three townships	Buffer strips				
\$ 5,000 to \$ 40,000	Year 1; 3-5	Set up two meetings	Meetings with developers and officials on alternative site plans	Information and Education	Vēgetātīve easentetis willili su call tori tori, maan. CTOSS VAN ēS		
	Year i	Set up two meetings	Wetland protection	Cramarova	morphology and floodplain functions; obtain	plain; insufficient storage area for flood waters/storm events	developments
	Year 1	Meet with three townships	Stormwater requirements	Ordinances	proposed basins; Construct wetlands/detention basins and structures; reestablish channel	existing developments. Less than optimal flood	Reduce peak flows for new and existing
	5 Years	Identify locations for future retention/ wetland detention areas	s; wetland detention basin, construct retention eam channels and floodplains	Construct storm water detention basins; v basins; reconstruct strean	Model the hydrology of the creek/watershed; Identify location, configuration, and size of		
	Year 3-5	TBD		Armour Channel, Biolunker, Abcnor Logs, Gabbion Bank, Armor Inlets, Cross-vanes			
\$8,000	Year 3-5	_	Hard structures (e.g revelments)	Structures, Taper Bank, Live Stake,			
\$2,000	Year 3-5	.1	Soft structures (e.g. vegetative plantings)	Moderate and low priority sites: Revelment			
	Year 1	Two township meetings	Meetings with township, property owners and road commission	Information and Education	obstructions to flow; install j-hooks, cross-vanes, and rock riprap	culvert inlets, and briotitary confluence; in-stream, obstructions	
	Year l	Meet with three townships	Wetland protection		stone, logs, and gabbion baskets; armor tributary confluence; recontour bank slopes; remove	lack of streambank vegetation, high flow areas,	Peduce sediment from stream hank erosion
	Year 1	Meet with three townships	Stormwater requirements	Ordinances	Stabilize eroding stream banks with vegetation,	Two diese stagem hands of steen slones lones soils	
	Year 1	Meet with three townships	Buffer strips				
\$10,000	Year 1	17		Armor Inlets; Cross-vanes; J-hooks			
\$8,000	Year l	9	-	Biolunker, Anchor Logs, Gabbion Bank,			
\$2,000	Year l	33	Soft structures (e.g. vegetative plantings)	High priority sites: Revetment Structures,			
AVERAGE COST PER SITE ***	TIMELINE	Milestones and # of sites to implement	TYPICAL SYSTEM OF BMP'S *	TYPICAL SYS	TASKS	CAUSES	OBJECTIVE BY SOURCE

TABLE 6. MONITORING METHODS AND TIMING

PARAMETER MEASURED	METHOD	TIMING	ОНМ
	GLEAS Procedure #51	العادة العادة	Technical Experts/WCR
Aquatic Macroinvertebrates	MDEQ Habitat Survey Protocol	Ziiiluaiiy	
	Back Pack Electro-shocking	Annually	Technical Experts/WCR
TISIN		7 Highly	
	MDEQ Habitat Survey Protocal	Annually	Technical Experts/WCR
Habitat Improvement	Visual Observations/Photographs	Initially and Annually	Technical Experts, Volunteers, GCDC/WCR
	NRCS Criteria	Annually	Technical Experts/GCDC
Sediment/Erosion Control	Visual Observations/Photographs	On-Going	Volunteers
Hydrology	TBD	TBD	Technical Experts/Spicer
Access/Protection and Public Perception	Focus Groups	Annually	Technical Experts, Public/GCDC
Temperature and Dissolved Oxygen	Hach and Temperature Gage	Annually	Technical Experts, Volunteers/GCDC
Debris	Visual Observations	On-going	Technical Experts, Public/GCDC