

										BMP Annual		10-yr Cost for		
					Impact			Phosphorus		Maintenance		TP Removed		Technical
Site	Location	Land Use	Issues	Recommendations	rating	(t/yr)	(lbs/yr)	(kg/yr)	Estimate	Cost Estimate	10-yr Cost	(\$/kg)	Cost	Level
	Charalter de la National Bal		Slight surface erosion, undercut	No. of the control of the left of										
	Shoreline along Winona Rd, guardrail near 692 Winona			Need to armor and stabilize										
2 12 4	Rd	Ctata Bood	, , ,	shoreline where Rd is closest to lake	Hiab	78.8	66.0	20.2	\$25,000	\$200	\$27,000	\$890	High	High
2-13 A	nu	State Road	toward lake	iake	High	78.8	66.9	30.3	\$25,000	\$200	\$27,000	\$890	High	High
	Ditch across from site 2- 13		Slight surface erosion, moderate	vogotate ditch and armor with										
2-13 B	A on Winona Rd	State Road	,	stone	Medium	11.3	10.1	4.6	\$1,500	\$200	\$3,500	\$764	Medium	Medium
2-13 0	A on winona ku	State Road	ditti erosion, bare son	stone	Medium	11.3	10.1	4.0	\$1,300	\$200	\$3,300	\$704	Medium	Ivieuluiii
			Lots of winter sand, 2											
			catchbasins on corner that drain	Create ditch to codiment										
			to Hawkins Pond outlet, road	retention area to collect runoff										
			1	before entering CB, remove										
				winter sand in early spring to										
			catchbasins, slight ditch erosion,											
	Catchbasins on Hawkins		slight surface erosion, slight road	-										
2-19	Pond Rd + Piper Rd median	Town Road	shoulder erosion	lake	Medium	6.3	5.4	2.4	\$1,275	\$100	\$2,275	\$929	Medium	High
			Slight surface erosion, slight road	Create swales to direct water										
			shoulder erosion, bare soil,	from Rd into woods, add new										
			winter sand, water flows off Rd	surface material (pea stone?) to										
	Winona Rd at boat launch		and erodes boat launch parking	parking areas, water retention										
2-12 A	near Snake River	Municipal/Pub	li areas	swales	Medium	17.1	14.5	6.6	\$4,380	\$250	\$6,880	\$1,046		
			Moderate ditch erosion, slight											
			surface erosion, slight road	Armor ditch with stone, vegetate										
2-14	Ditch on Winona	State Road	shoulder erosion	ditch	Medium	8.4	7.1	3.2	\$2,000	\$150	\$3,500	\$1,087	Medium	Medium
				Add new surface material										
				(crushed stone to prevent										
				sediment movement off site,										
			Slight surface erosion, slight road	install runoff diverter (waterbar),										
			shoulder erosion, bare soil,	rain garden near launch/slope,										
			· ·	infiltration trench to collect										
			eroding areas of the boat launch											
2-16 A	Hawkins Pond Boat Launch	Boat access	parking lots and into Pond	area	Medium	11	9.4	4.3	\$3,684	\$200	\$5,684	\$1,333	High	Medium
				Add vegetation, stabilize										
				streambank (should not just add										
				rock), water retention swales										
				(move runoff away from stream),										
			_	establish buffer, add to buffer,										
				reseed bare soils and thinning					_					
2-11	Purdy property- Bay View	Residential	-	grass	Medium	2.1	2.1	1.0	\$3,920	\$75	\$4,670	\$4,903	High	High
				Install runoff diverter (waterbar),										
2 42 5	Winona Lake / Snake River			rain garden on either side of	A 4 11	2 -			44 000		d. 005	66.000		
2-12 B	boat launch at Winona Rd.	Municipal/Pub	SOII	launch	Medium	0.6	0.6	0.3	\$1,380	\$50	\$1,880	\$6,908	Medium	Medium

					Impact	Sediment	Phosphorus	Phosphorus	BMP Cost	BMP Annual Maintenance		10-yr Cost for TP Removed		Technical
Site	Location	Land Use	Issues	Recommendations	rating	(t/yr)	(lbs/yr)	(kg/yr)	Estimate	Cost Estimate	10-yr Cost	(\$/kg)	Cost	Level
	Piper Hill Rd, Hawkins Pond		Slight road shoulder erosion,											
2 20	outlet crossing downstream side	Town Road	winter sand forming delta down into stream	Install sediment pools to control winter sand	Hiah	0.4	0.4	0.3	¢1.050	¢100	¢2.050	¢16.250	Madium	High
2-20	side	TOWIT ROAU		willter Sallu	High	0.4	0.4	0.2	\$1,950	\$100	\$2,950	\$16,259	Medium	Півії
2-15	Both ends of Lambert RD (hills to stream)	Town Road	Bare soil, bringing lots of sand downstream, delta in stream, winter sand, slight surface erosion, slight ditch erosion, slight road shoulder erosion	Install turnouts and level spreader, reshape ditch, vegetate ditch	High	0.4	0.4	0.2	\$2,075	\$100	\$3,075	\$16,948	Medium	Medium
2-10	On RR tracks off Winona on Snake River by sign C41	RR ROW		Armor inlet/outlet? Stabilize bare/eroding soils at crossing, vegetate slopes	Medium	1.2	1.2	0.5	\$5,000	\$100	\$6,000	\$11,023	High	High/Low
			Moderate ditch erosion, slight											
	Rd Ditches near boat launch		, ,	Vegetate ditch, armor ditch with										
2-16 B	at Hawkins Pond	Town Road	winter sand	stone, install turnouts	Medium	0.4	0.4	0.2	\$1,275	\$100	\$2,275	\$12,539	Medium	Medium
2-21 A	Corner of Winona Rd and Hawkins Pond Rd- upstream Hawkins Pond stream crossing	State and Towr	Lots of winter sand deposited from road into stream, lack of shoreline vegetation, slight surface erosion, slight ditch erosion, slight road shoulder	Vegetate shoulder, add to buffer, install sediment pools to capture winter sand, sweep roads and remove winter sand before movement toward stream	High	0.3	0.3	0.1	\$1,000	\$100	\$11,000	\$80,836	Medium	High
	Downstream Side of crossing at intersection of Winona Rd and Hawkins Pond Rd (Hawkins Pond outlet stream- downstream		Slight surface erosion, slight road shoulder erosion, winter sand, lack of shoreline vegetation, tar lined ditch brings water from Rd and adjacent driveway into	Vegetate shoulder, establish buffer, add to buffer, remove tar- lined ditch and replace with infiltrating /sediment capturing	-									
2-21 B	side of crossing)	State ROW	stream	structure to treat runoff properly	Medium	0.1	0.1	0.0	\$1,560	\$100	\$2,560	\$56,438	Medium	Medium
	Piper Hill Road, Bear Pond		shoulder erosion, lots of winter sand, Looks like road need to be built up and new crossing constructed- water is almost to	Enlarge culvert, armor inlet and outlet extending headwalls to prevent road shoulder slumping, vegetate/stabilize shoulder, water within 4' of road shoulder-										
2-18	stream crossing	Town Road	Rd level	lots of sediment input	Medium	0.4	0.2	0.1	\$9,560	\$200	\$11,560	\$127,427	High	High
2-25	Fogg Hill Road tax parcel #224-004-0000 (Hopkins property)	Forest land	that includes a number of	Obtain conservation easement or purchase of land to protect habitat and land critical to the quality of surface and groundwaters in the watershed	High		5.3	2.4	\$157,000				High	Medium