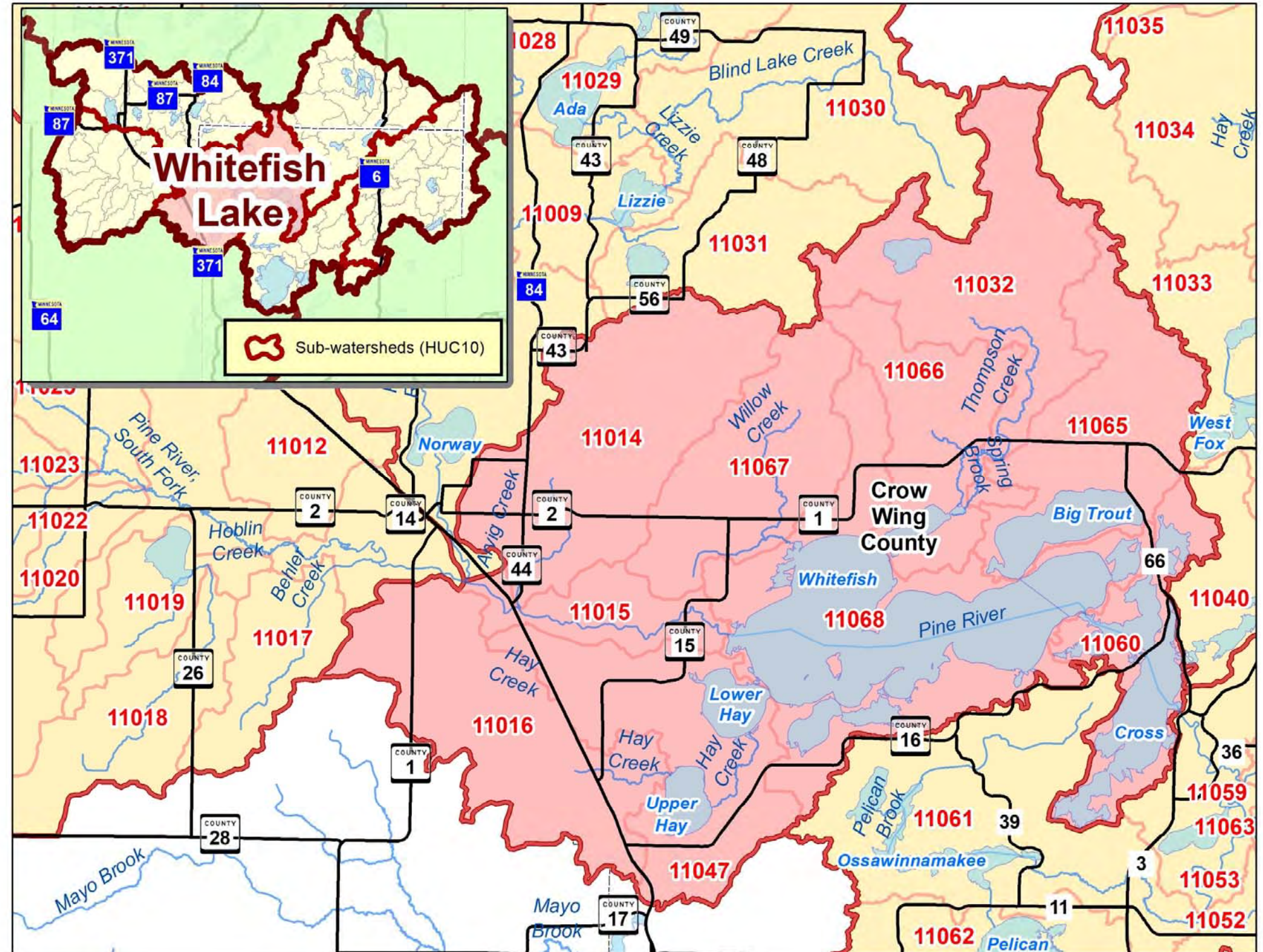


Whitefish Lake Sub-watershed

Minor Watershed #	Minor Watershed Name
11014	Arvig Creek
11015	Pine River (West of Whitefish Lake)
11016	Hay Creek
11032	Thompson Creek
11047	Upper & Lower Hay Lakes
11060	Cross Lake
11065	Big Trout Lake
11066	Arrowhead Lake
11067	Willow Creek
11068	Whitefish Lake



Basics			Risk / Disturbed					Outstanding Surface Water Resources	Protection					Forests / Biodiversity / Potential Native Plant Community System							
Minor #	Acres	Sq Miles	Risk Factors	Lake Phosphorus Sensitivity	Average % Slope	% Altered Water- courses	% Land Disturb- ance		DNR Lake Protection Classification*	% Protected	Land Value / Ac (20+ ac parcels)	Acres Needed for 75%	Potential to Protect (ac)	% Forest Cover	% Forest Steward- ship Plans	FFF Composite Mean Score	Terrestrial Biodiversity	% Fire Dependent (FD)	% Mesic Hardwood (MH)	% Wet Meadow (WM)	% Other Systems
11014	11,103	17	Impaired, Feedlots (1)		5.3%		35%	Lakes of Biodiversity Significance, Wild Rice	Protection / Full Restoration	46%	\$1,303	3214	2140	<div><div></div></div> 40%	<div><div></div></div> 6%	84.3	Moderate	<div><div></div></div> 50%	<div><div></div></div> 24%	<div><div></div></div> 15%	<div><div></div></div> 8%
11015	2,988	5		Higher or Highest	7.3%		32%		Protection / Full Restoration	19%	\$2,579	1680	1064	<div><div></div></div> 40%	<div><div></div></div> 21%	99.1		<div><div></div></div> 60%	<div><div></div></div> 25%	<div><div></div></div> 12%	<div><div></div></div> 3%
11016	9,492	15	Feedlots (2)	Higher or Highest	5.7%		64%		Protection	40%	\$1,822	3317	877	<div><div></div></div> 27%	<div><div></div></div> 6%	87.0	Moderate	<div><div></div></div> 49%	<div><div></div></div> 16%	<div><div></div></div> 18%	<div><div></div></div> 17%
11032	9,971	16			5.9%	10.6%	13%		Protection / Vigilance	83%	\$668	Goal Met	986	<div><div></div></div> 54%	<div><div></div></div> 4%	95.0	Moderate	<div><div></div></div> 19%	<div><div></div></div> 48%	<div><div></div></div> 18%	<div><div></div></div> 9%
11047	8,542	13	Feedlots (1)	Highest	6.6%	0.0%	28%	Cisco, Lakes of Biodiversity Significance	Protection / Full Restoration	34%	\$1,949	3543	2051	<div><div></div></div> 30%	<div><div></div></div> 6%	88.9		<div><div></div></div> 61%	<div><div></div></div> 10%	<div><div></div></div> 7%	<div><div></div></div> 4%
11060	5,274	8	Impaired	Higher	8.0%	0.0%	11%	Cisco, Lakes of Biodiversity Significance	Protection	65%	\$294	516	181	<div><div></div></div> 19%	<div><div></div></div> 0%	91.0		<div><div></div></div> 26%	<div><div></div></div> 12%	<div><div></div></div> 4%	<div><div></div></div> 1%
11065	8,263	13	Declining Water Quality Trend	Highest	9.1%	0.0%	11%	Cisco, Lakes of Biodiversity Significance, Trout	Protection	58%	\$3,635	1395	1644	<div><div></div></div> 50%	<div><div></div></div> 18%	97.4	Moderate	<div><div></div></div> 32%	<div><div></div></div> 44%	<div><div></div></div> 4%	<div><div></div></div> 2%
11066	5,698	9	Feedlots (1)	High	9.3%	0.0%	16%	Lakes of Biodiversity Significance, Trout, Wild Rice	Protection	52%	\$1,156	1317	1504	<div><div></div></div> 67%	<div><div></div></div> 8%	92.5	Moderate	<div><div></div></div> 38%	<div><div></div></div> 49%	<div><div></div></div> 6%	<div><div></div></div> 1%
11067	6,916	11	Impaired		7.6%	3.6%	14%		Protection	57%	\$1,047	1232	2192	<div><div></div></div> 66%	<div><div></div></div> 19%	100.9	Moderate	<div><div></div></div> 31%	<div><div></div></div> 48%	<div><div></div></div> 16%	<div><div></div></div> 6%
11068	15,733	25	Declining Water Quality Trend	Highest	5.5%	0.0%	9%	Cisco, Lakes of Biodiversity Significance, Wild Rice	Protection	65%	\$1,072	1581	1837	<div><div></div></div> 22%	<div><div></div></div> 7%	90.6	Moderate- Outstanding	<div><div></div></div> 28%	<div><div></div></div> 13%	<div><div></div></div> 3%	<div><div></div></div> 1%

Sub-watershed (HUC10): Whitefish Lake

Geomorphology: Till Plain, Outwash, Lacustrine (Lake-bed)
Primary Land Cover: Mixed Conifer-Hardwood Forest / Hay Pasture / Row Crops
Primary Land Uses: Water-based Tourism, Hunting/Recreation, Forestry
Lake or Stream Based: Lake
Quality: Very High Quality Lakes
Risks: Residential Development, Agriculture
Management Mode(s): Active
Acreage Needed for Goal: 17,797 acres
Total Cost to Achieve Goal: \$19,819,007 Cost /minor watershed = \$1,981,901

Minor Watershed Summary			Resource Context / Management Goals									Managing for: <i>High Quality Resources</i>									Managing for: <i>Risk</i>						Managing by: <i>Implementation Focus / Applicable Tool</i>										
Minor Watershed #	Minor Watershed Name	Minor Wshd Acres	Lake or Stream Based	Protection Goal	% Protected	Acres Needed for 75%	Potential To Protect (ac)	Cost	Protection Framework (DNR)		Mgmt Mode	Forest Type (FD/MH)	Forests	Lakes	Streams/ Source-water	Ground-water	Fish Habitat	Wildlife Habitat	Other High Quality Habitat	Avg. RAQ Score	Private Lands: Large Tract	Private Lands: Shoreline <small>(small tract)</small>	Open Land Issues: Grazing, Hay/Pasture	Open Land Issues: Row Crops	Aquatic Threats <small>(Phosphorus / Declining Trends)</small>	Other Risk <small>(Noted Below):</small>	Forest Stewardship Plans, Advice	Grants and Cost-share Projects: Near-shore	Grants and Cost-share Projects: Watershed	Private Forest Management	Conveyance Systems	Local Land Use	Land Swaps / Trust Land Mgmt <small>(B-11)</small>	Incentive Programs <small>(SFIA, 2C, CRP)</small>	Conservation Easements	Fee Title Acquisition	
11014	Arvig Creek	11,103	Stream	75%	46%	3214	2140	\$3,145,744	Protection	Full Restoration	Active: Grazing Priority	FD		X	X	X	?	X	High Bio-diversity	2.5	X		X		X	Pipeline?	X		X	X	X	X	X	X	X	Local Decision	
11015	Pine River (West of Whitefish Lake)	2,988	Stream	75%	19%	1680	1064	\$2,287,393	Protection	Full Restoration	Active	FD/MH	X	X	X	X	X	?	?	2.3	X	X	X		X	?	X	X	X	X	X	X	X	X	X	Local Decision	
11016	Hay Creek	9,492	Stream	75%	40%	3317	877	\$3,762,084	Protection		Active	FD			X	X	?	?	?	1.65	X		X		X	?	X		X	X	X	X	X	X	Local Decision		
11032	Thompson Creek	9,971	Lake/ Stream	75%	83%	Goal Met	986	\$0	Protection	Vigilance	Opportunism	MH	X	X	X	X	?	?	?	4.4					?	X	X	X	X	X				X	X		
11047	Upper & Lower Hay Lakes	8,542	Lake	75%	34%	3543	2051	\$4,153,404	Protection	Full Restoration	Active	FD		X	X	X	X	?	High Bio-diversity	2.4	X	X	X		X	?	X		X	X		X		X	X	Local Decision	
11060	Cross Lake	5,274	Lake	75%	65%	516	181	\$348,700	Protection		Active: Development Priority	FD		X	X	X	X	?	High Bio-diversity	4.25	X	X			X	?	X	X				X				Local Decision	
11065	Big Trout Lake	8,263	Lake	75%	58%	1395	1644	\$2,341,879	Protection		Active: Fisheries/Development Priority	FD/MH	X	X	X	X	X	?	High Bio-diversity	2.9	X	X			X	?	X	X	X	X	X	X	X		X	X	Local Decision
11066	Arrowhead Lake	5,698	Lake/ Stream	75%	52%	1317	1504	\$1,231,176	Protection		Active	FD/MH		X	X	X	?	X	High Bio-diversity	2.8	X				X	?	X	X	X	X		X	X	X	X	Local Decision	
11067	Willow Creek	6,916	Stream	75%	57%	1232	2192	\$1,110,969	Protection		Active: Grazing Priority	FD/MH	X	X	X	X	?	?	?	2.5	X				X	?	X	X	X	X		X		X	X	Local Decision	
11068	Whitefish Lake	15,733	Lake	75%	65%	1581	1837	\$1,437,657	Protection		Active	FD		X	X	X	X	X	High Bio-diversity	2.8	X	X			X	?	X		X	X		X		X	X	Local Decision	

Assumes 50/50 split of acres needed between Easement (@60% of land value) and SFIA (cost for 100 years)

MH = Mesic Hardwoods

FD = Fire Dependent

WM = Wet Meadow

X = if FFF score is >94.7 (mean for Pine R. Watershed) or High/Outstanding Biodiversity (MCBS)/OId Growth or HCVF

X = if outstanding biological, wild rice, cisco, trout, etc.

X = if there is a discernable outlet to the watershed that would contribute surface water downstream

X = wellhead protection area or outwash soils are present

X = trout, cisco/tullibee ,game fish, etc.

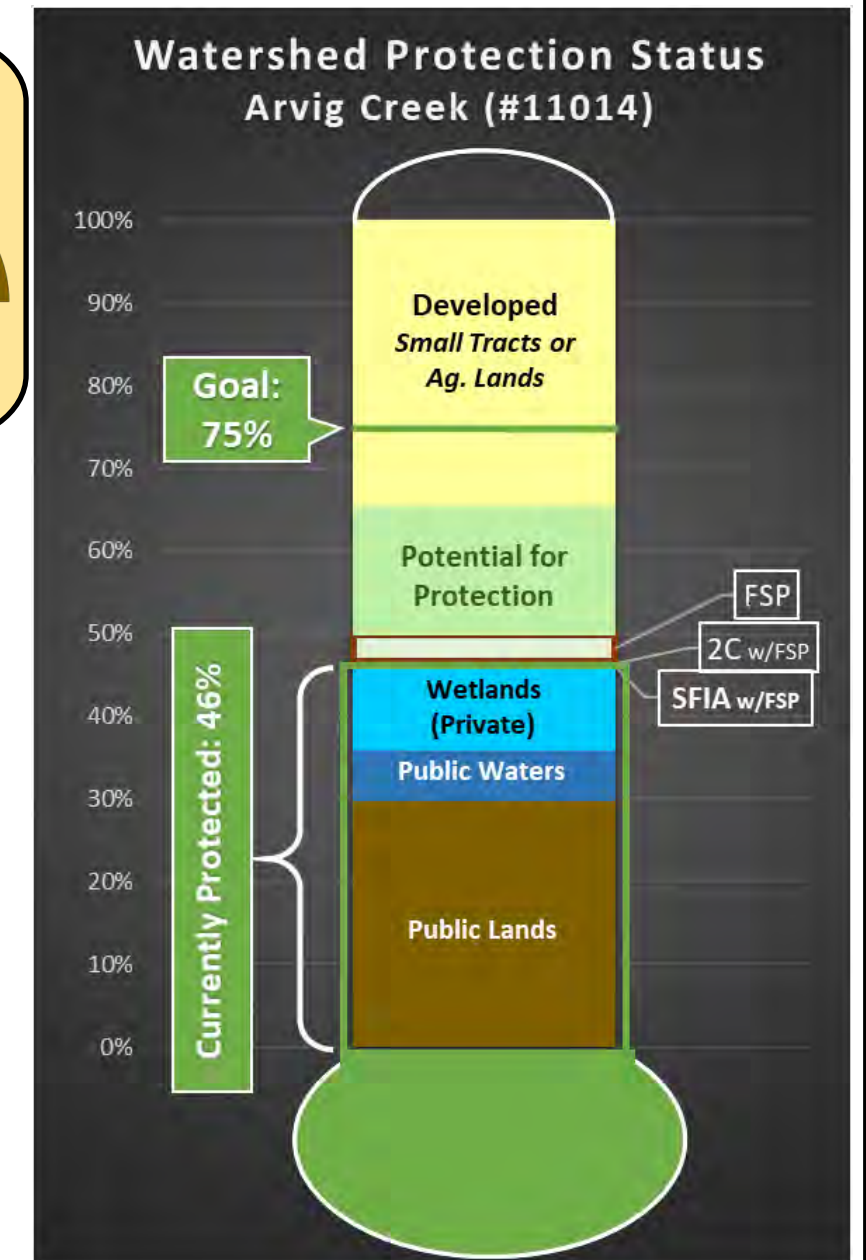
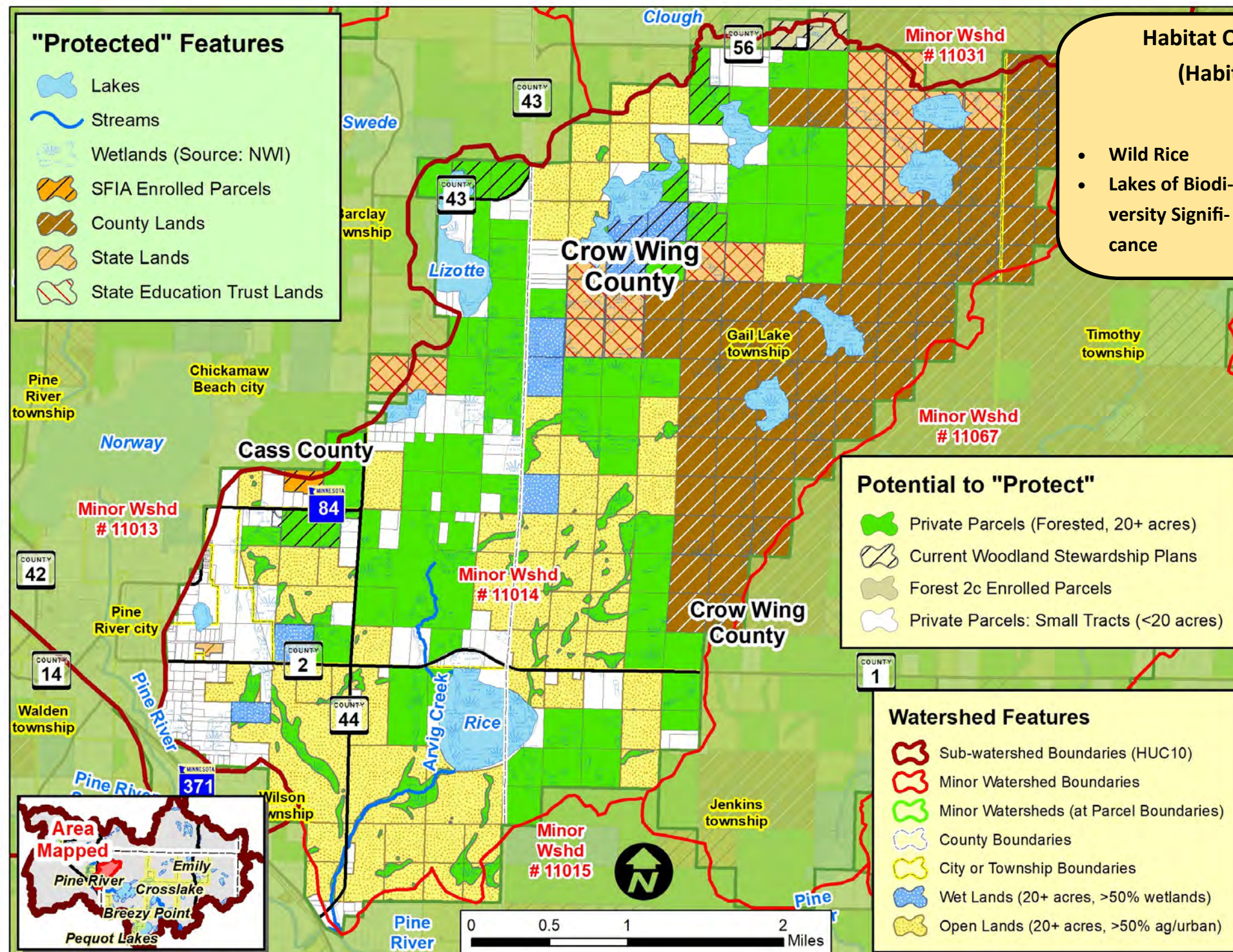
Score = Average Composite of Riparian, Adjacency, Quality across the wshd

X = High land use disturbance (>25%) or known grazing/ cattle concerns

X = 'Higher' or 'Highest' Phos. Sensitivity Score OR Declining trend in water quality OR impaired

B = Beaver Issues, C = Downcutting by Culverts, CH = channelized

What is the Potential to Protect the Arvig Creek Minor Watershed (Minor #11014) ?

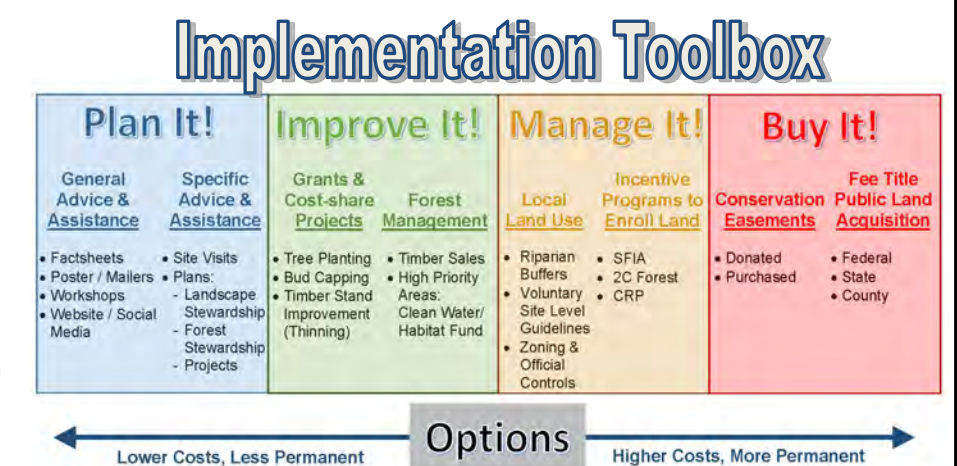
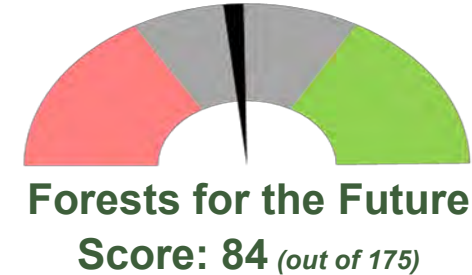


Water Quality Trends / Impairments:

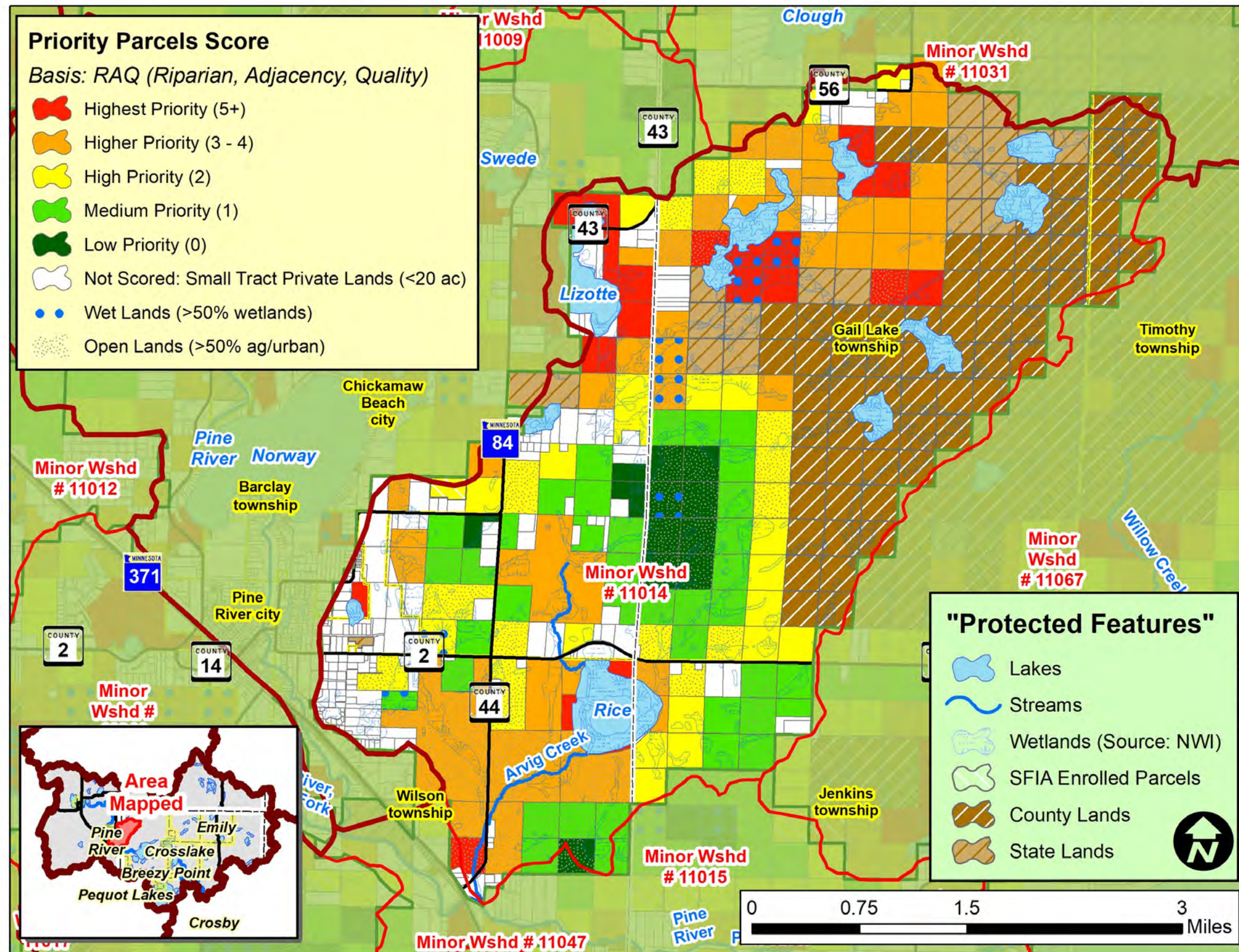
Improving: None

Declining: None, Impaired: Arvig Creek

Stable (No Trend): None



RAQ Scoring for Parcels in the Arvig Creek Minor Watershed (Minor #11014)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

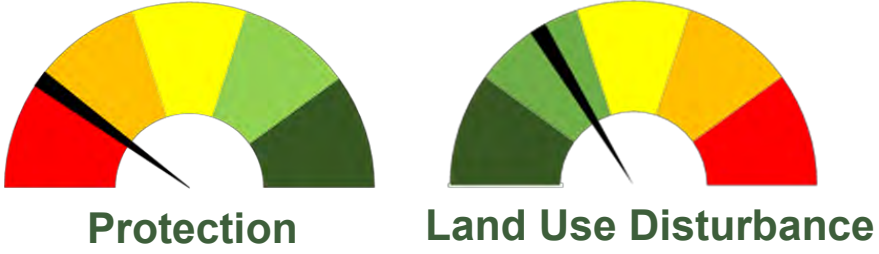
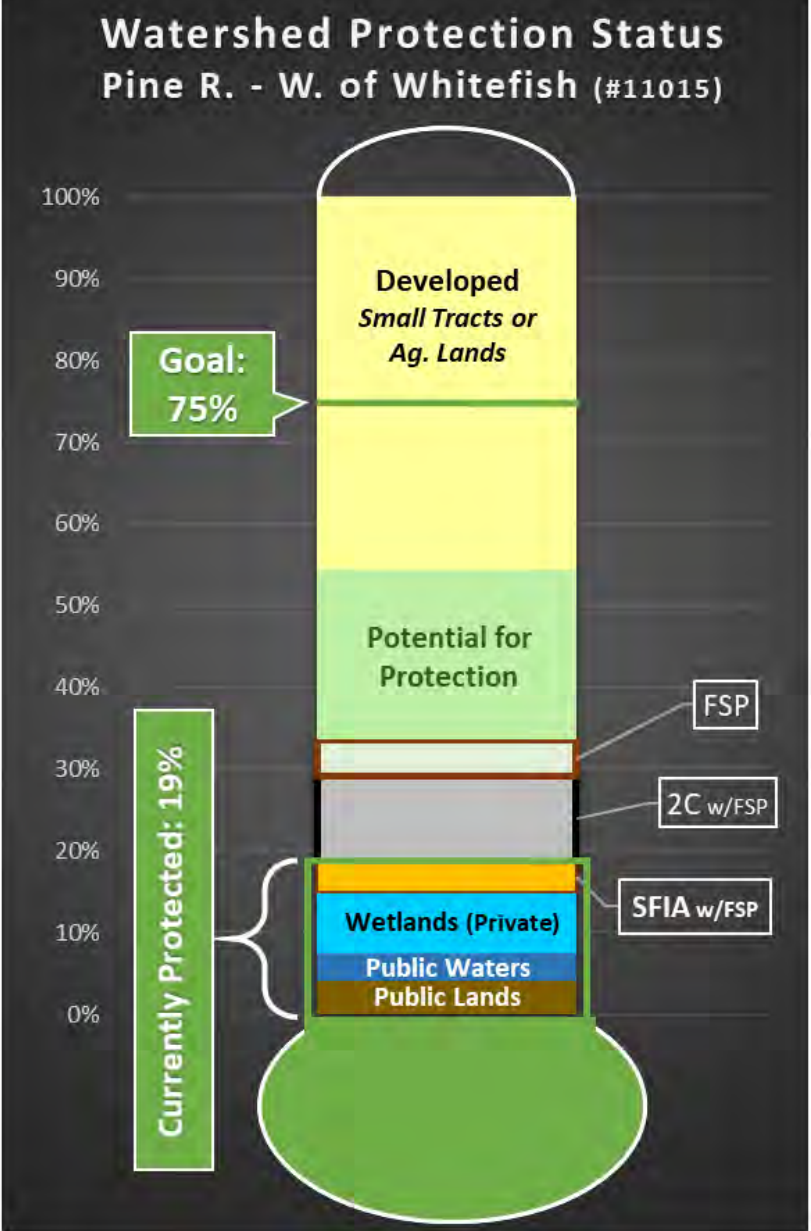
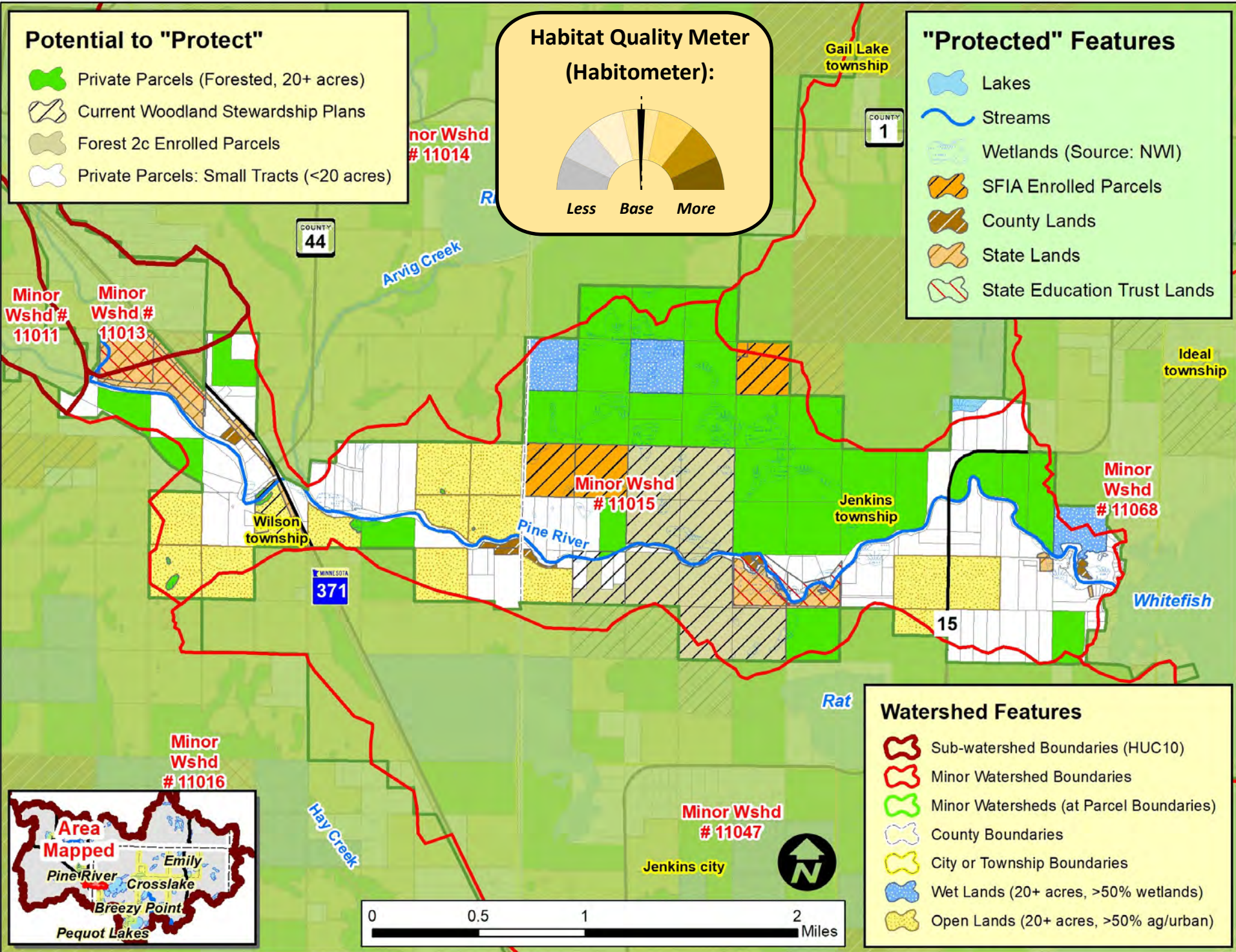
- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance <ul style="list-style-type: none"> Factsheets Poster / Mailers Workshops Website / Social Media 	Specific Advice & Assistance <ul style="list-style-type: none"> Site Visits Plans Landscaping Stewardship Forest Stewardship Projects 	Grants & Cost-share Projects <ul style="list-style-type: none"> Tree Planting Bud Capping Timber Stand Improvement (Thinning) Forest Management <ul style="list-style-type: none"> Timber Sales High Priority Areas Clean Water/Habitat Fund 	Local Land Use <ul style="list-style-type: none"> Riparian Buffers Voluntary Site Level Guidelines Zoning & Official Controls Incentive Programs to Enroll Land <ul style="list-style-type: none"> SFIA 2C Forest CRP
			Conservation Easements <ul style="list-style-type: none"> Donated Purchased Fee Title Public Land Acquisition <ul style="list-style-type: none"> Federal State County

Options: Lower Costs, Less Permanent → Higher Costs, More Permanent

What is the Potential to Protect the Pine R. (W. of Whitefish L.) Minor Watershed (Minor 11015)?

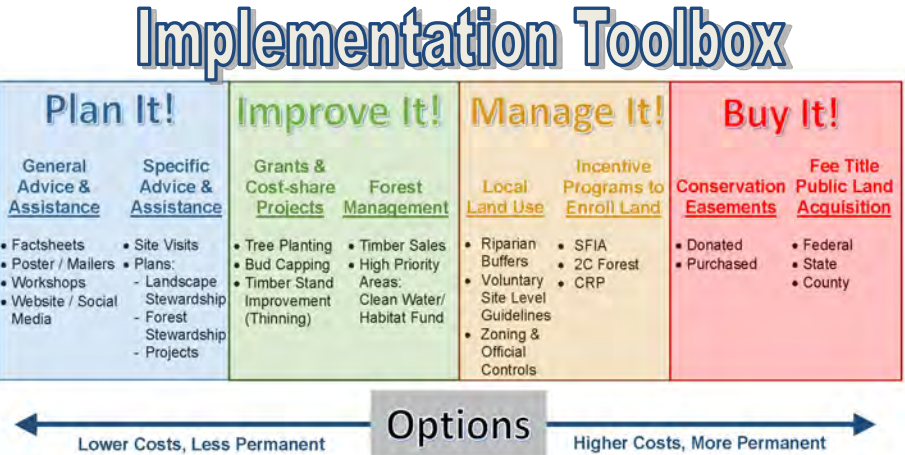


Water Quality Trends / Impairments:

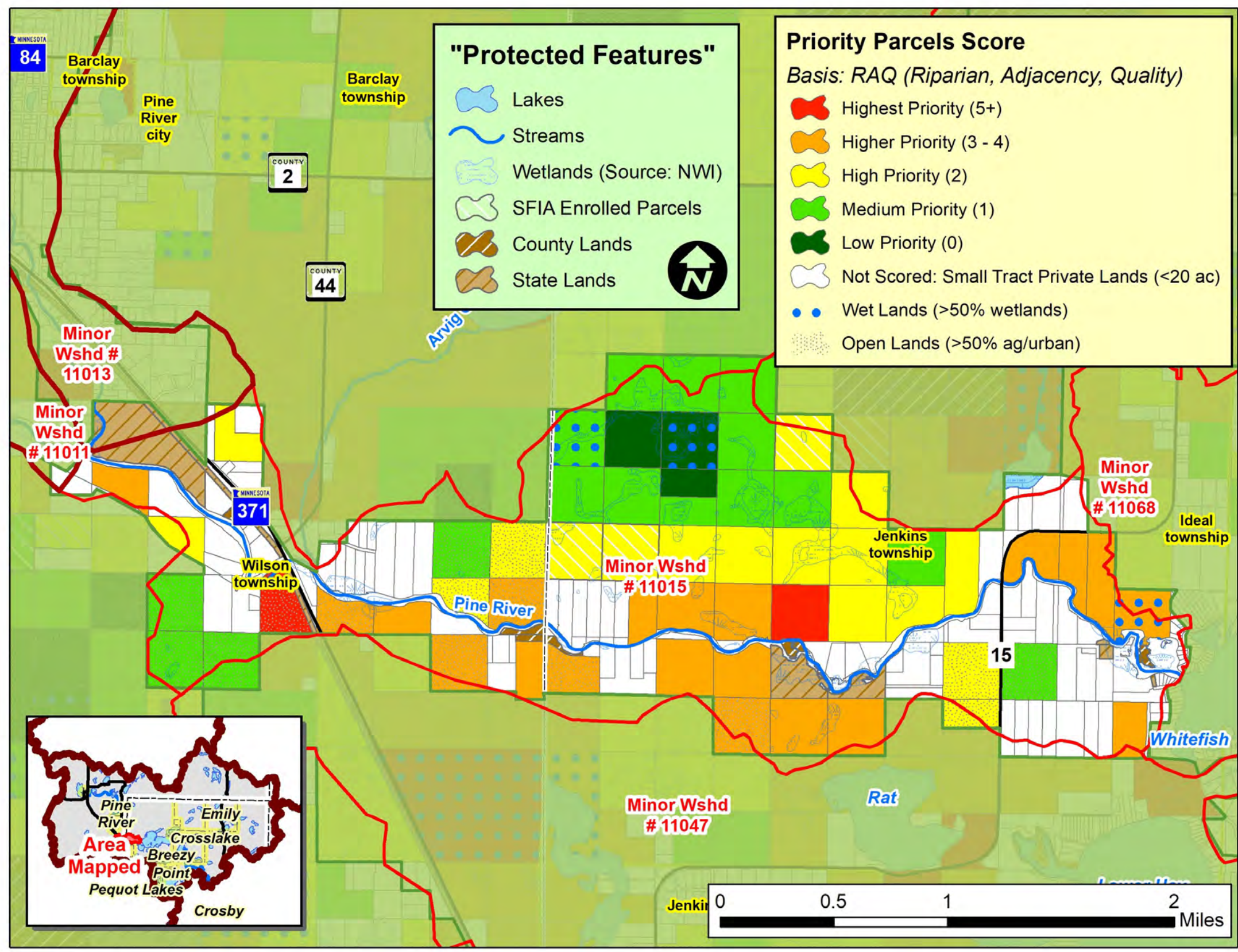
Improving: None

Declining: None, Impaired: None

Stable (No Trend): None



RAQ Scoring for Parcels in the Pine R. (W. of Whitefish) Minor Watershed (Minor #11015)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

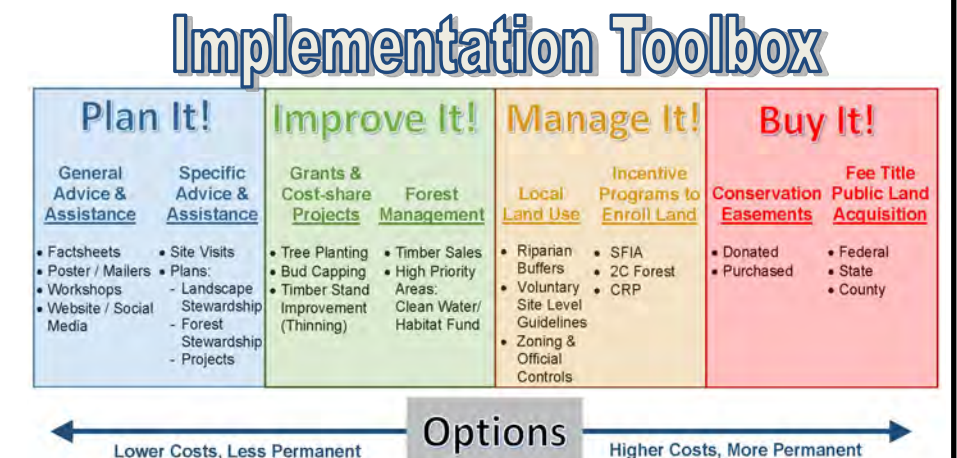
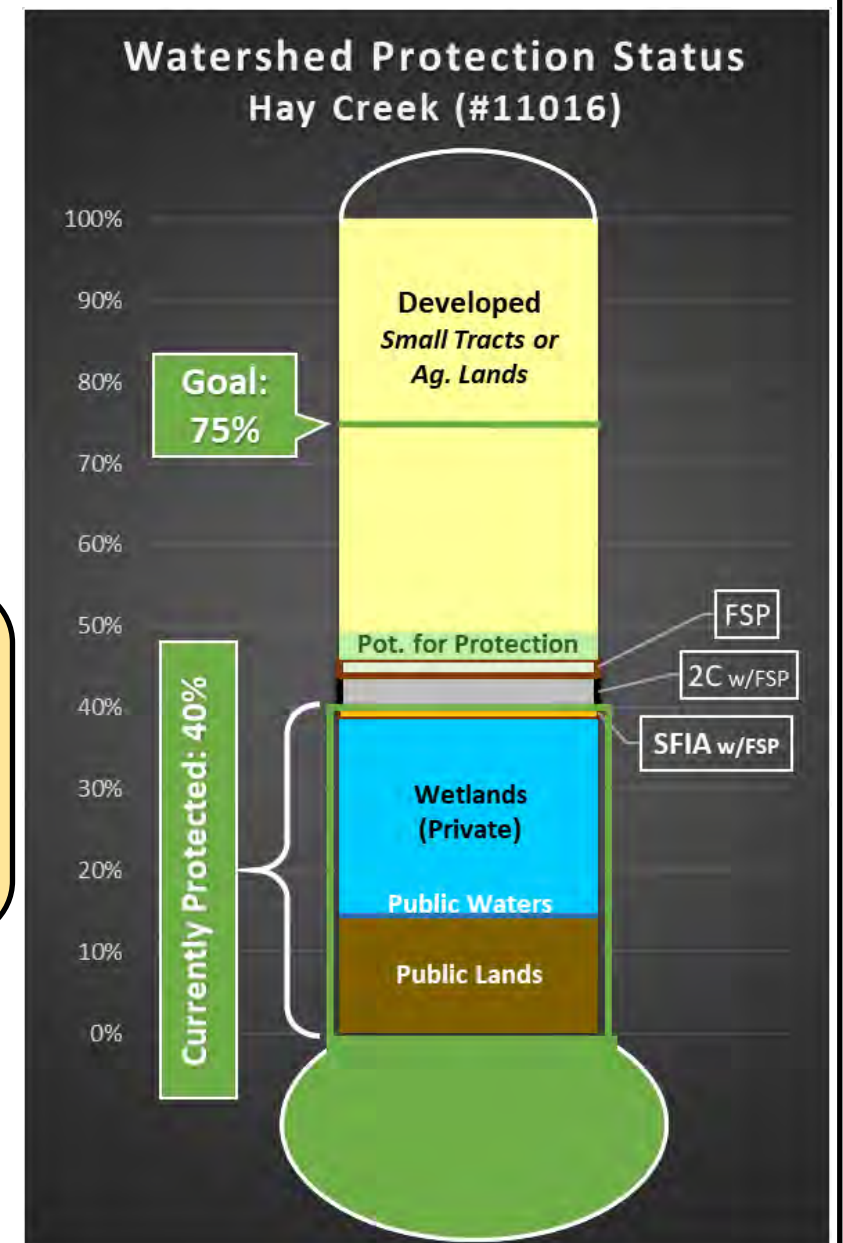
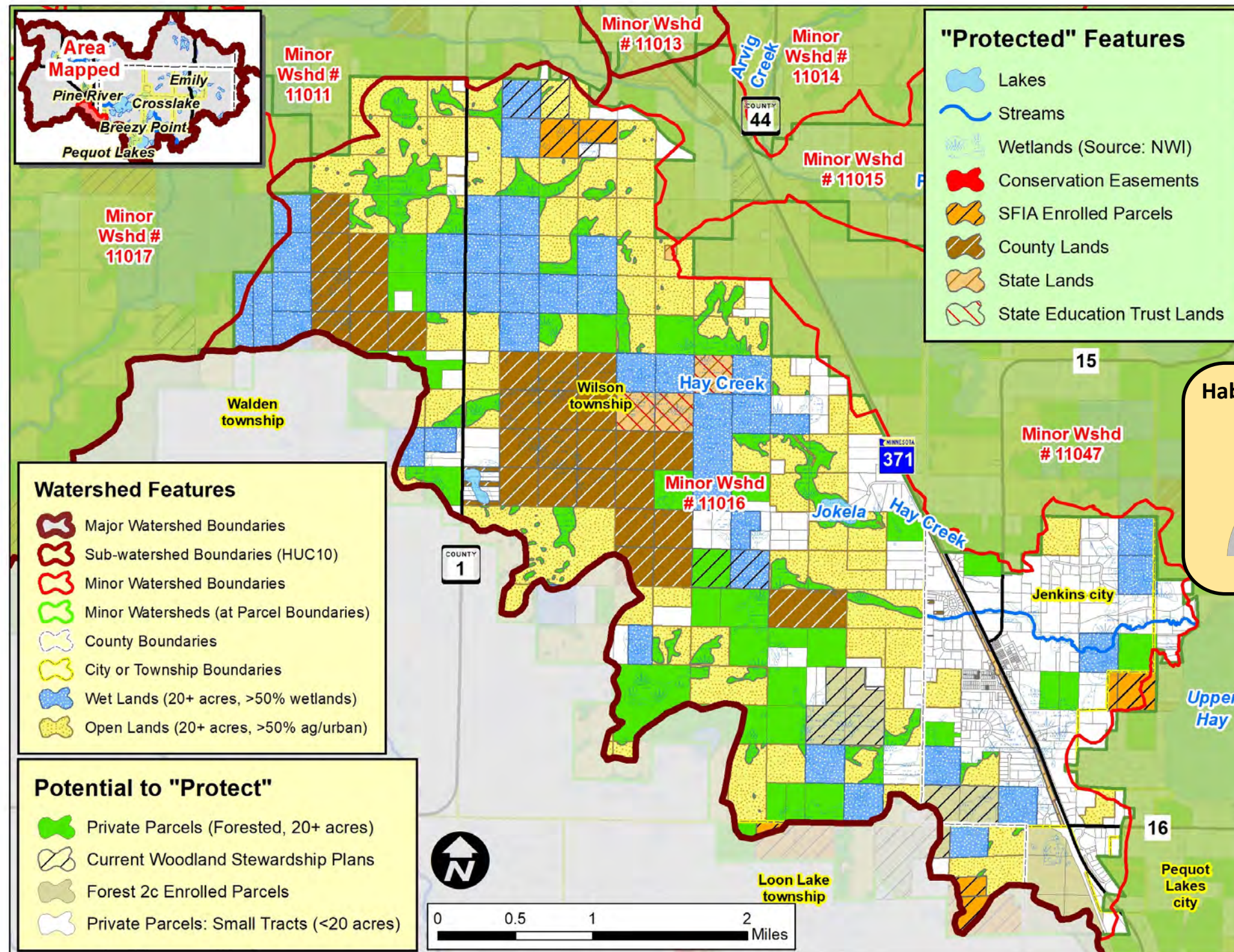
* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

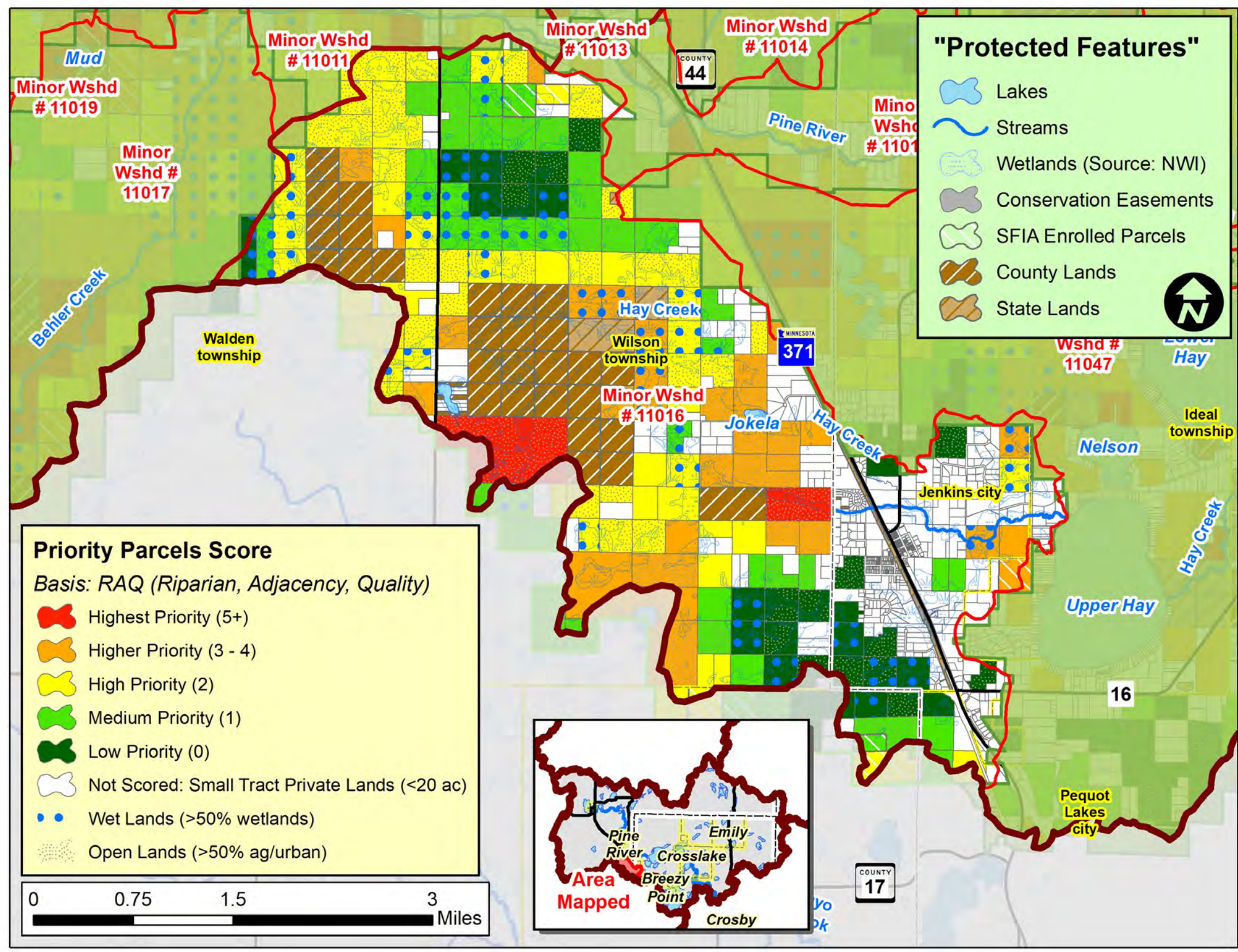
Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance <ul style="list-style-type: none">• Factsheets• Poster / Mailers• Workshops• Website / Social Media	Specific Advice & Assistance <ul style="list-style-type: none">• Site Visits• Plans• Landscape Stewardship• Forest Stewardship Projects	Grants & Cost-share Projects <ul style="list-style-type: none">• Tree Planting• Bud Capping• Timber Stand Improvement (Thinning) Forest Management <ul style="list-style-type: none">• Timber Sales• High Priority Areas• Clean Water/Habitat Fund	Local Land Use <ul style="list-style-type: none">• Riparian Buffers• Voluntary Site Level Guidelines• Zoning & Official Controls Incentive Programs to Enroll Land <ul style="list-style-type: none">• SFIA• 2C Forest• CRP Conservation Easements <ul style="list-style-type: none">• Donated• Purchased Fee Title Public Land Acquisition <ul style="list-style-type: none">• Federal• State• County
<div>Lower Costs, Less Permanent ← Options → Higher Costs, More Permanent</div>			

What is the Potential to Protect the Hay Creek Minor Watershed (Minor 11016) ?



RAQ Scoring for Parcels in the Hay Creek Minor Watershed (Minor #11016)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

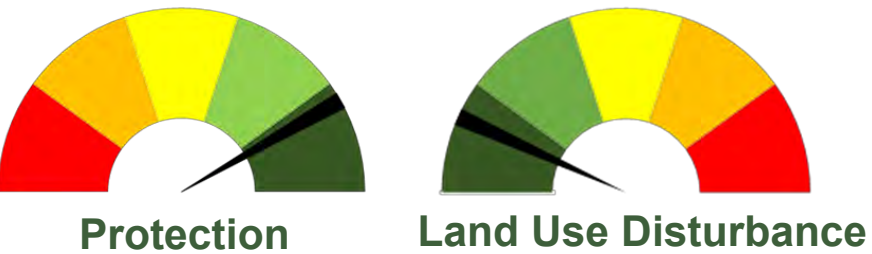
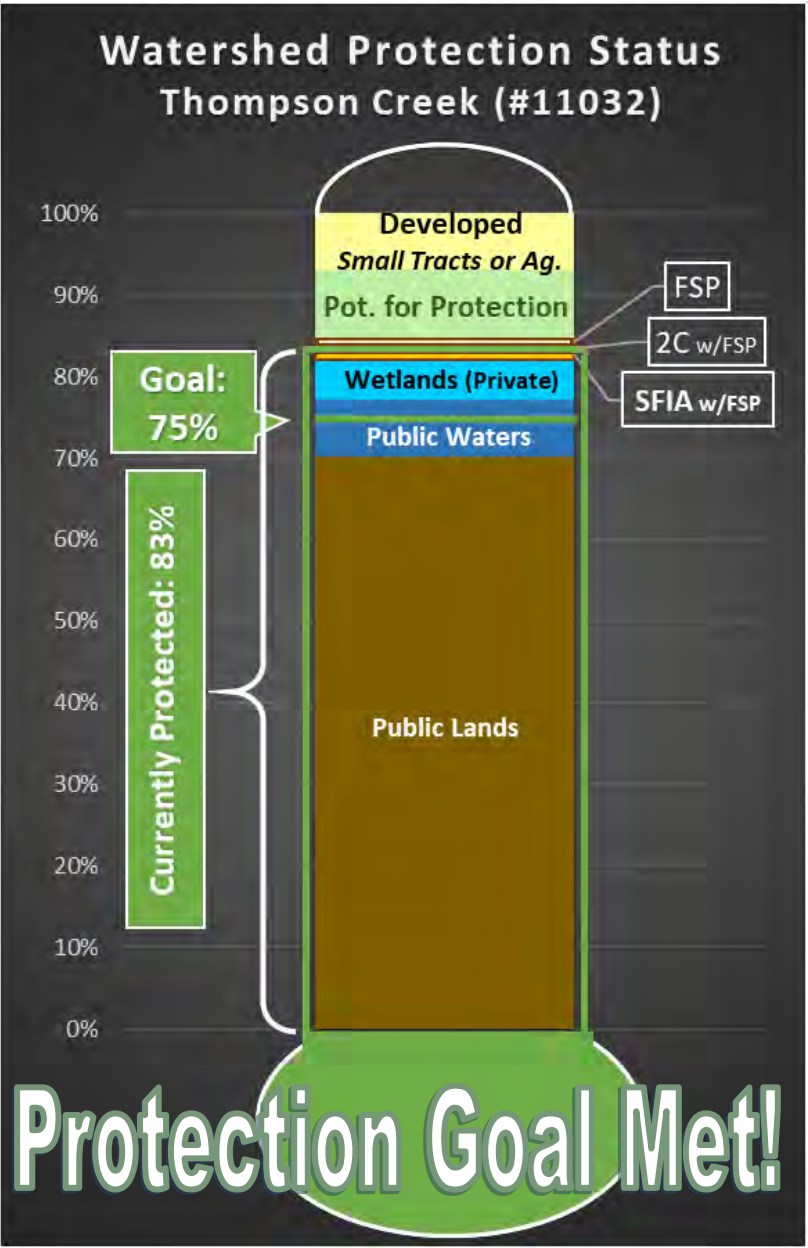
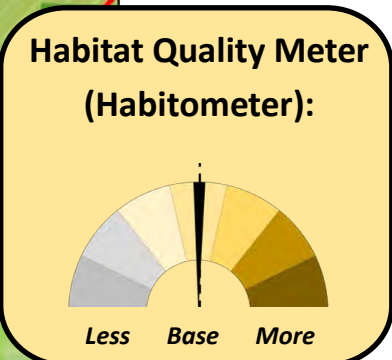
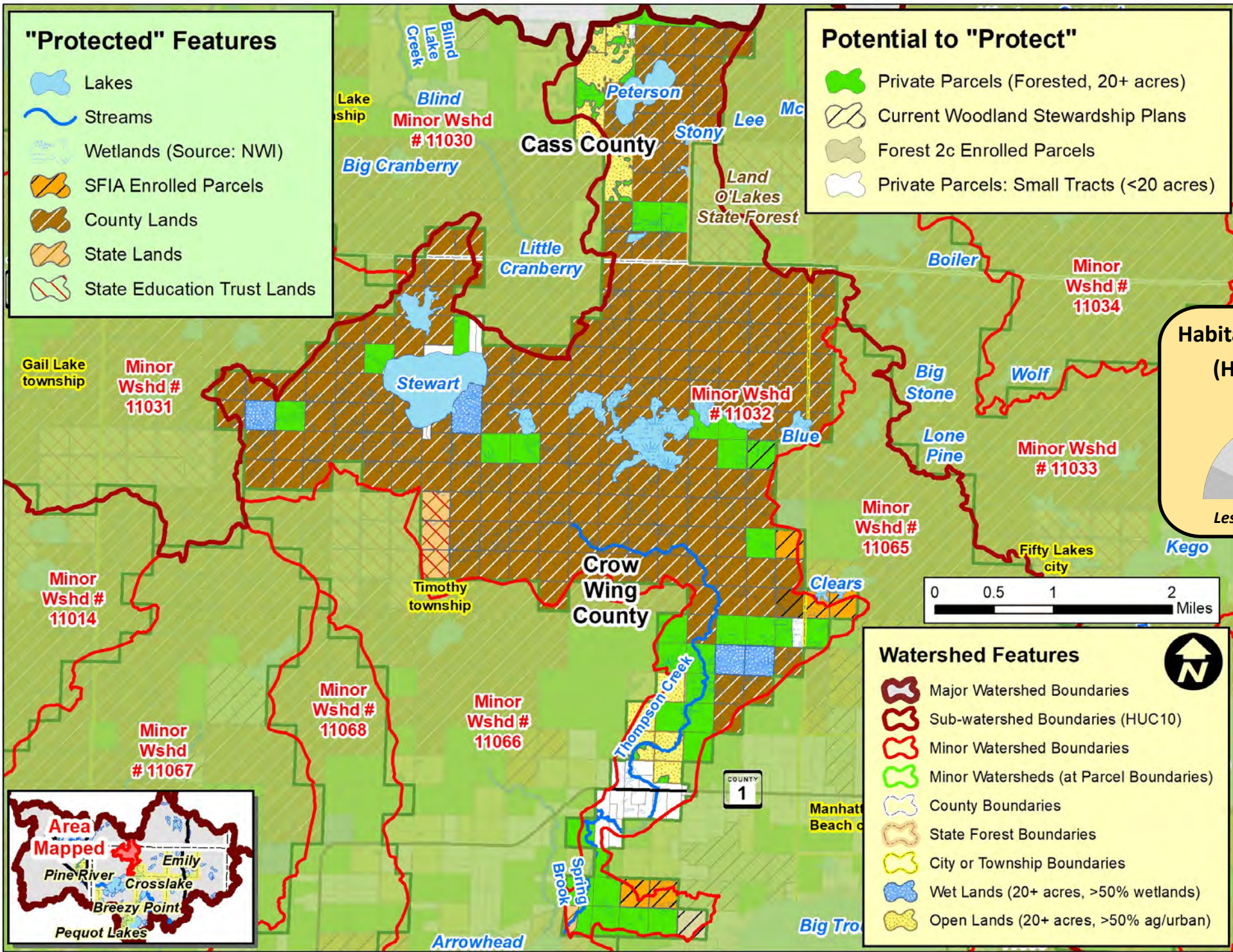
- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance • Factsheets • Poster / Mailers • Workshops • Website / Social Media	Specific Advice & Assistance • Site Visits • Plans • Landscape Stewardship • Forest Stewardship Projects	Grants & Cost-share Projects • Tree Planting • Bud Capping • Timber Stand Improvement (Thinning) • Forest Management • Timber Sales • High Priority Areas • Clean Water/Habitat Fund	Local Land Use • Incentive Programs to Enroll Land • Riparian Buffers • Voluntary Site Level Guidelines • Zoning & Official Controls
			Fee Title Conservation Public Land Acquisition • Donated • Purchased • Federal • State • County



What is the Potential to Protect the Thompson Creek Minor Watershed (Minor 11032) ?

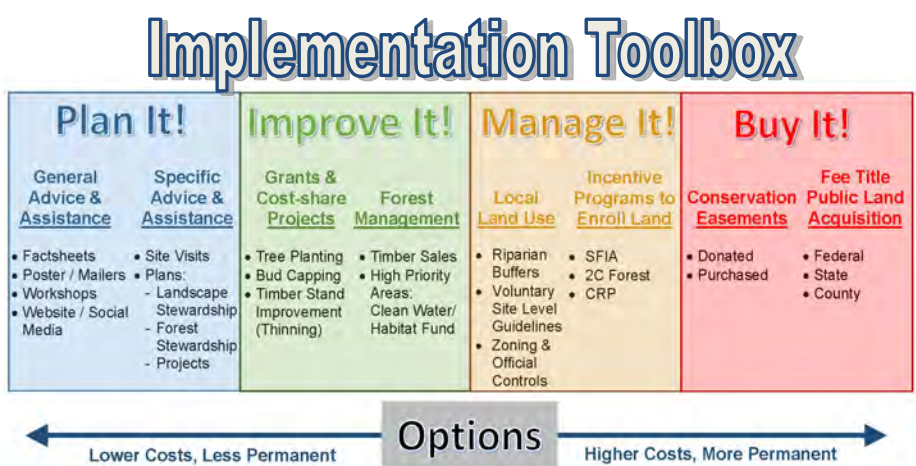
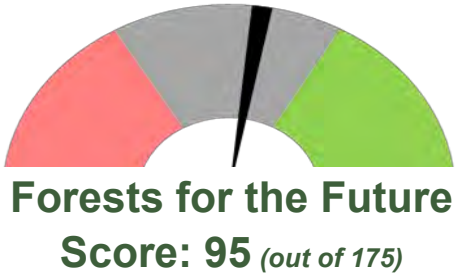


Water Quality Trends / Impairments:

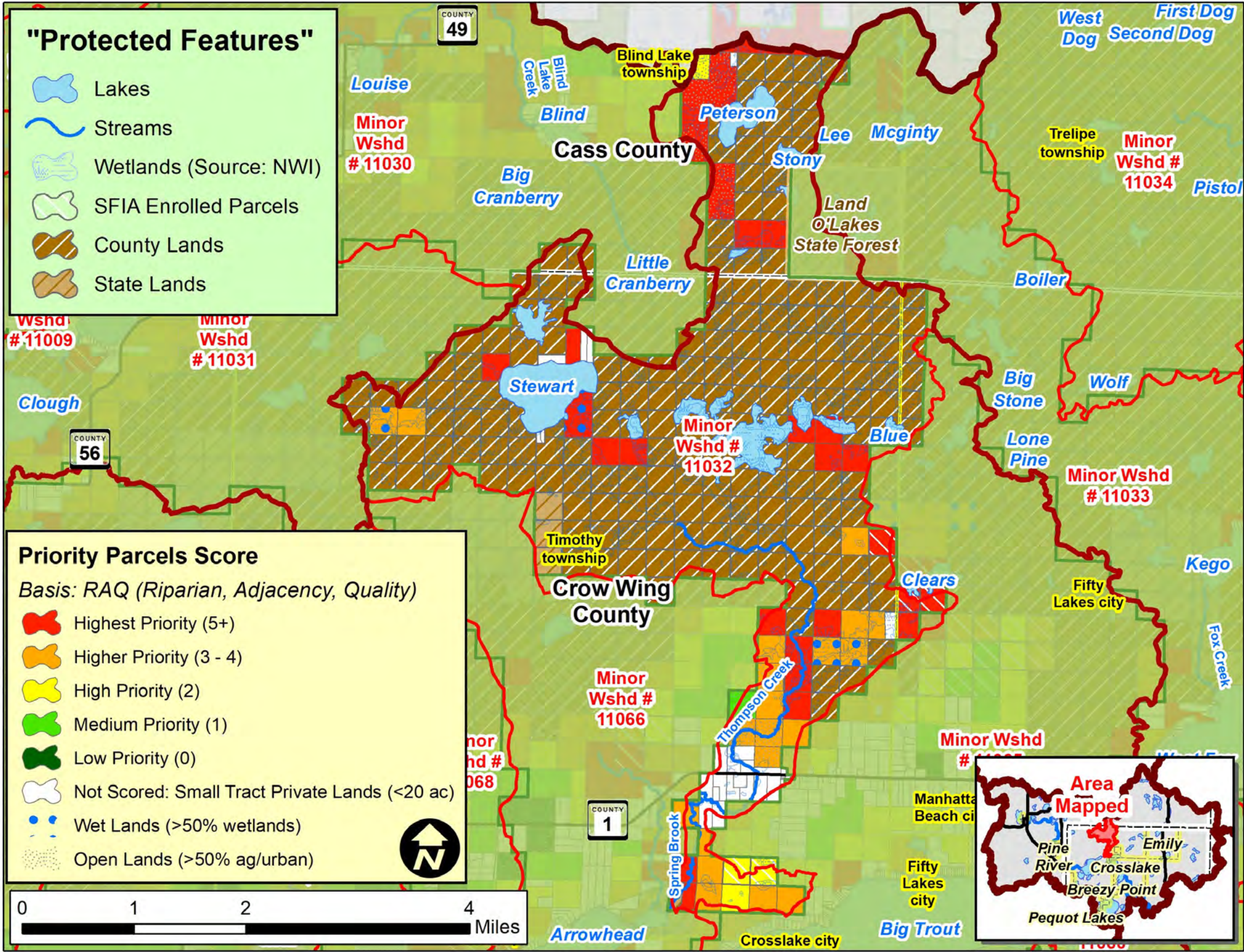
Improving: None

Declining: None, Impaired: None

Stable (No Trend): None



RAQ Scoring for Parcels in the Thompson Creek Minor Watershed (Minor #11032)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

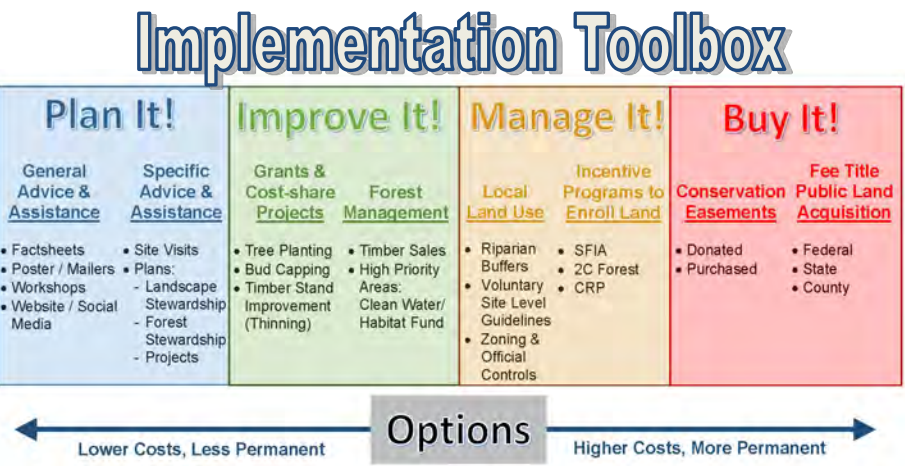
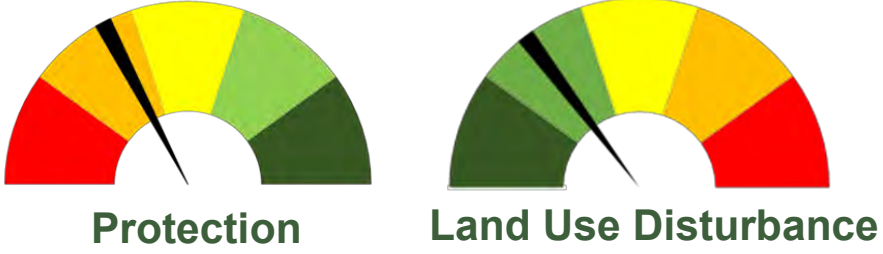
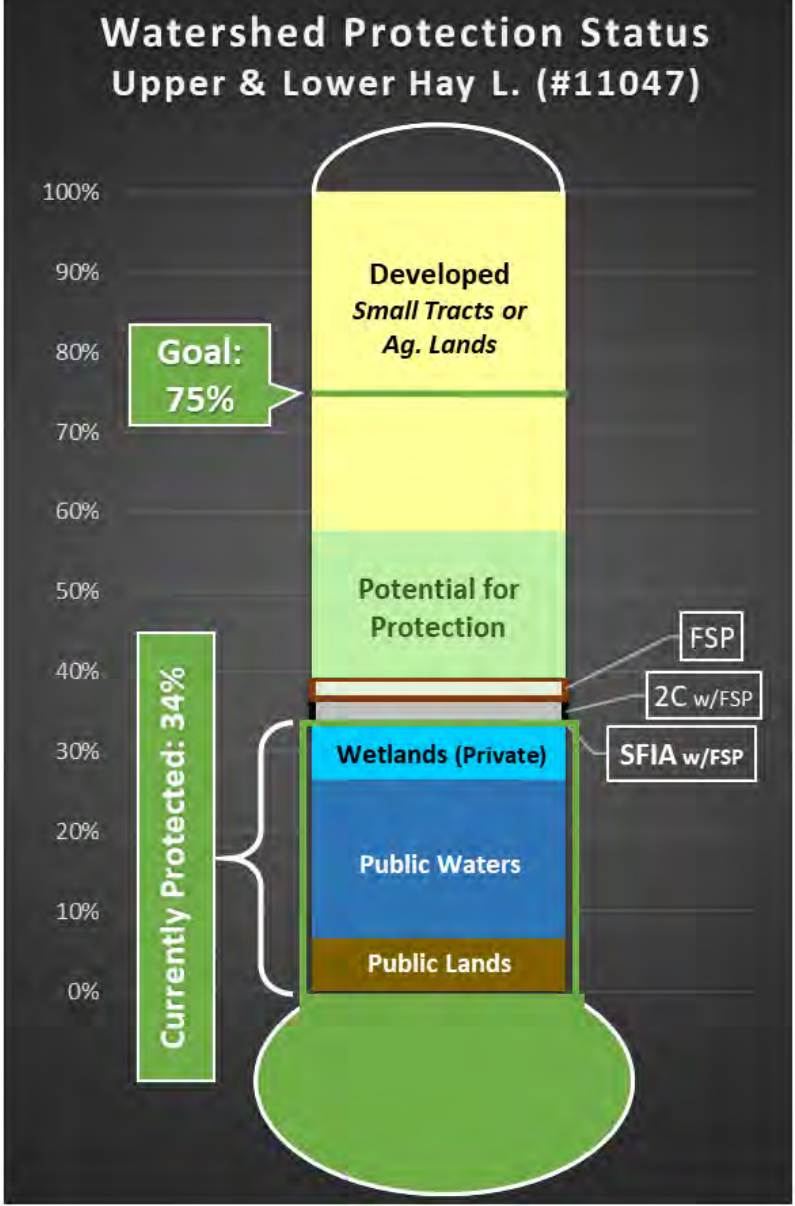
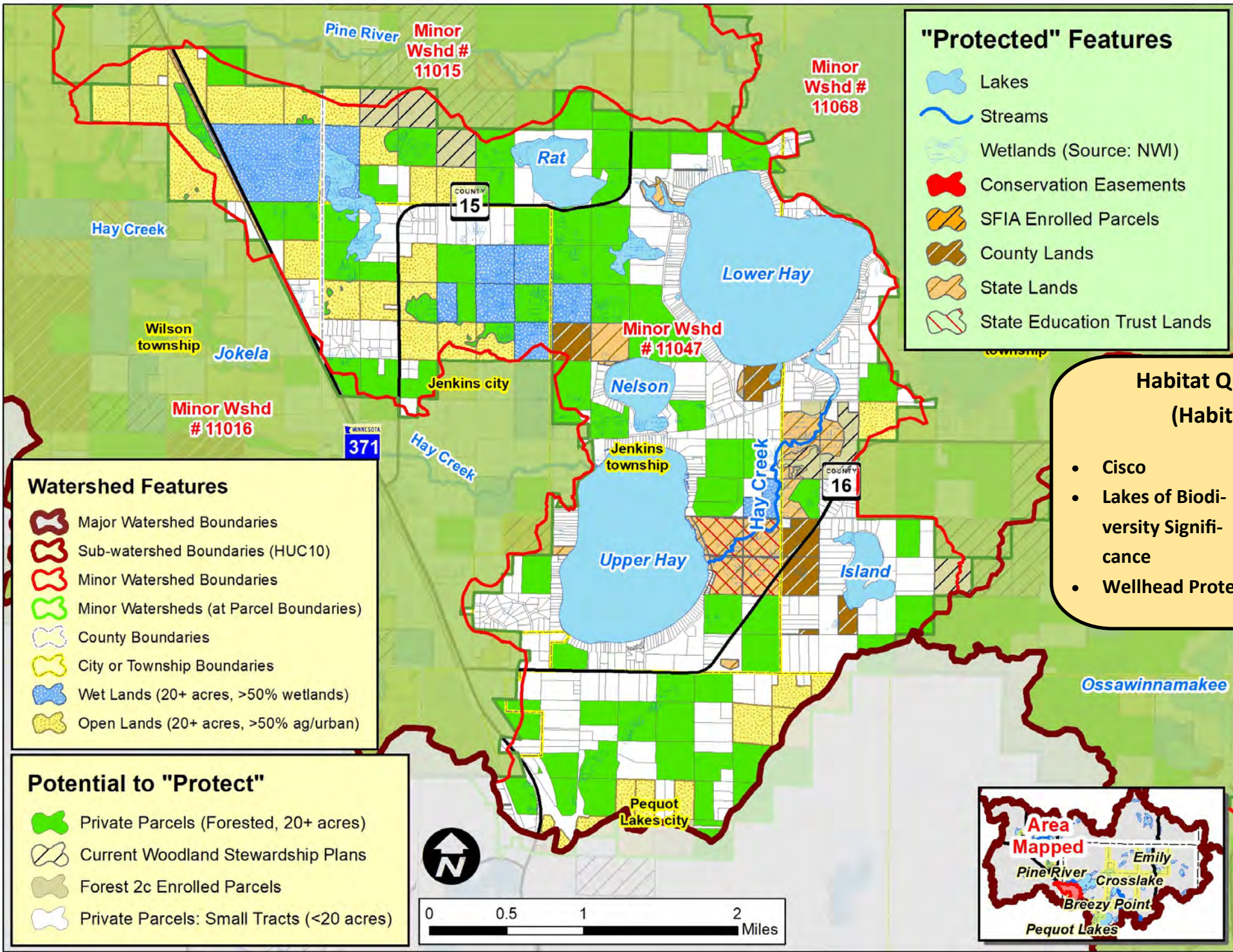
* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

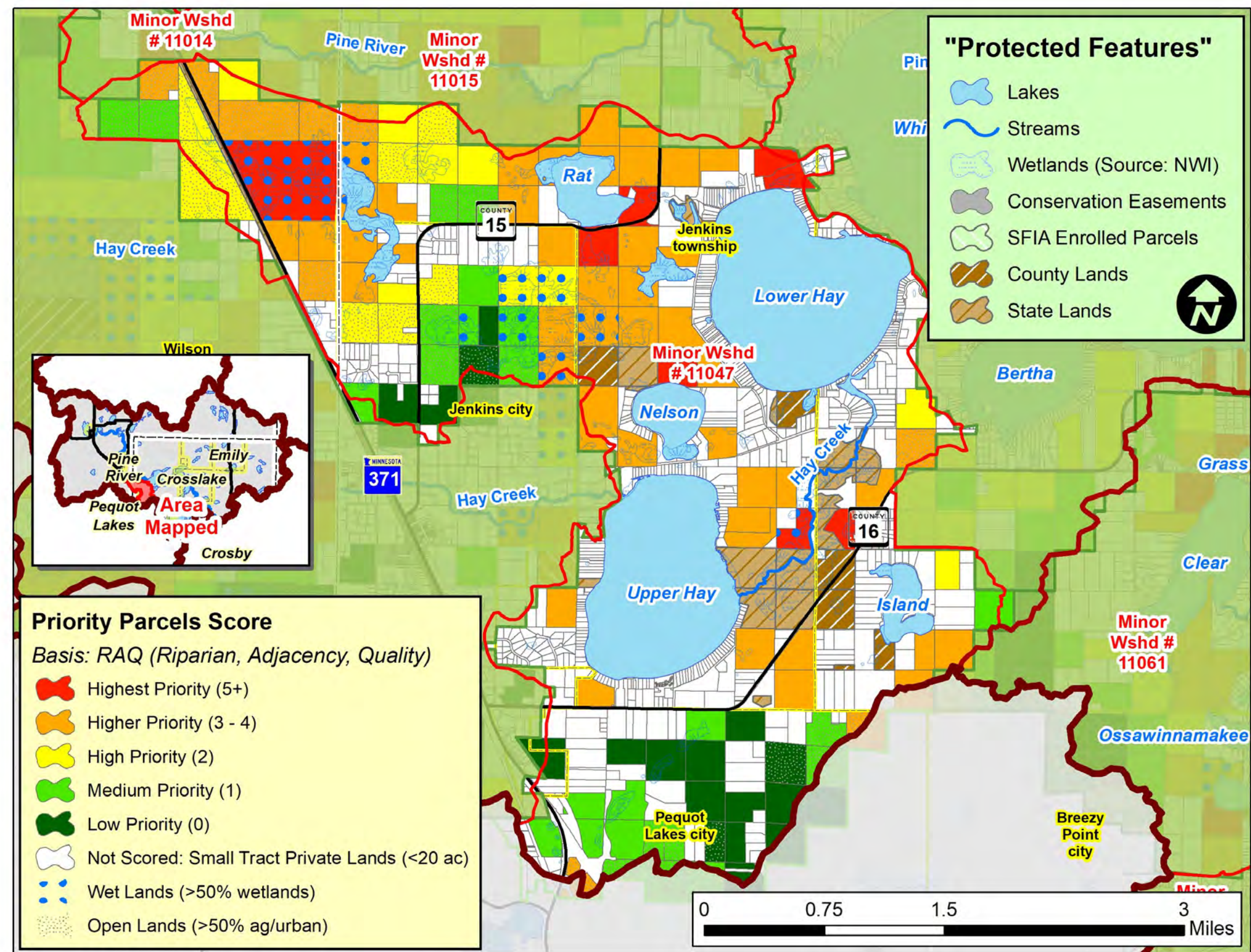
Implementation Toolbox



What is the Potential to Protect the Upper / Lower Hay L. Minor Watershed (Minor 11047) ?



RAQ Scoring for Parcels in the Upper / Lower Hay Lakes Minor Watershed (Minor #11047)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

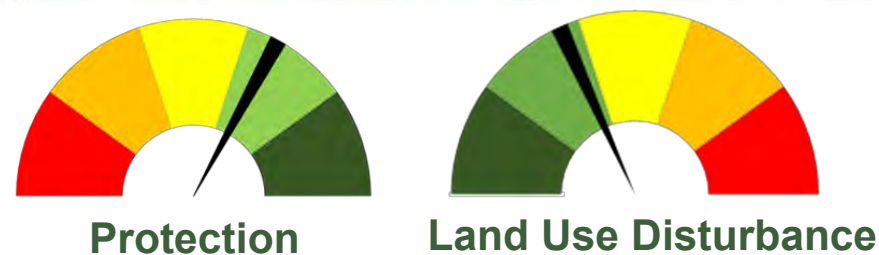
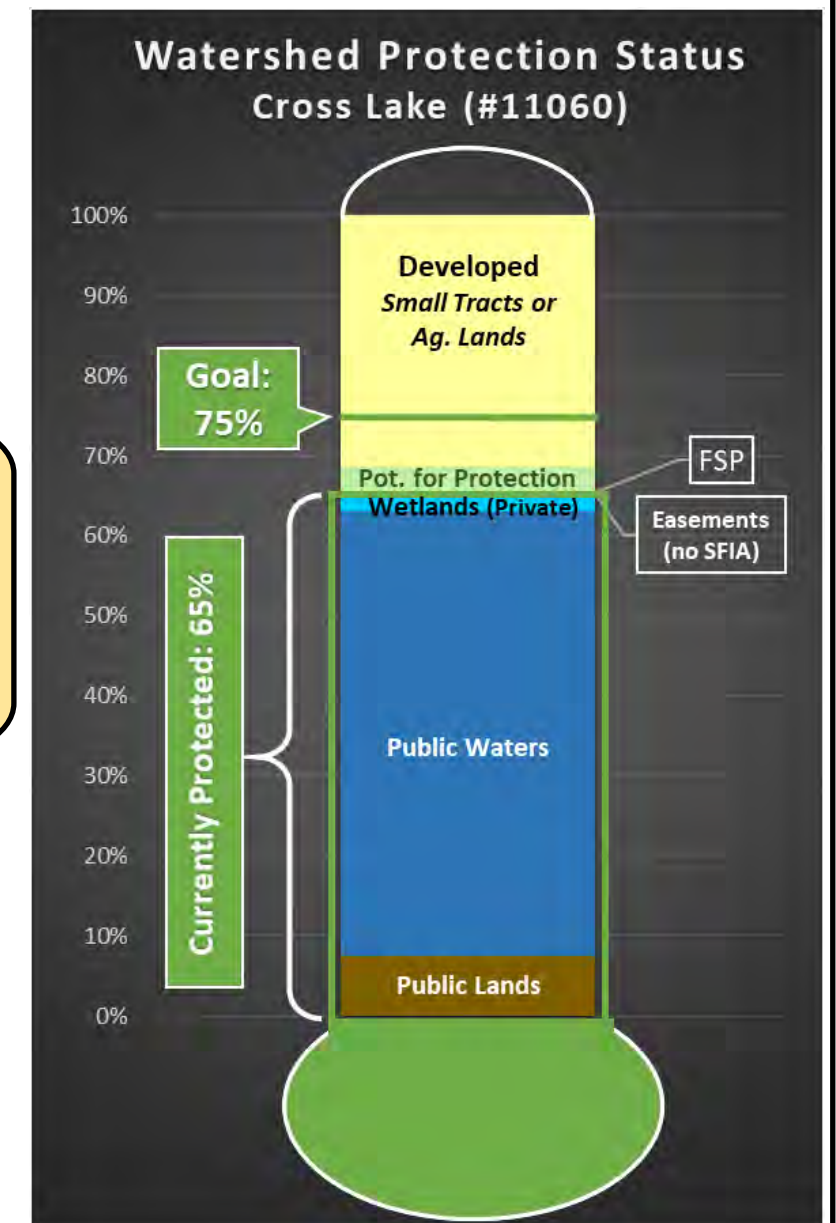
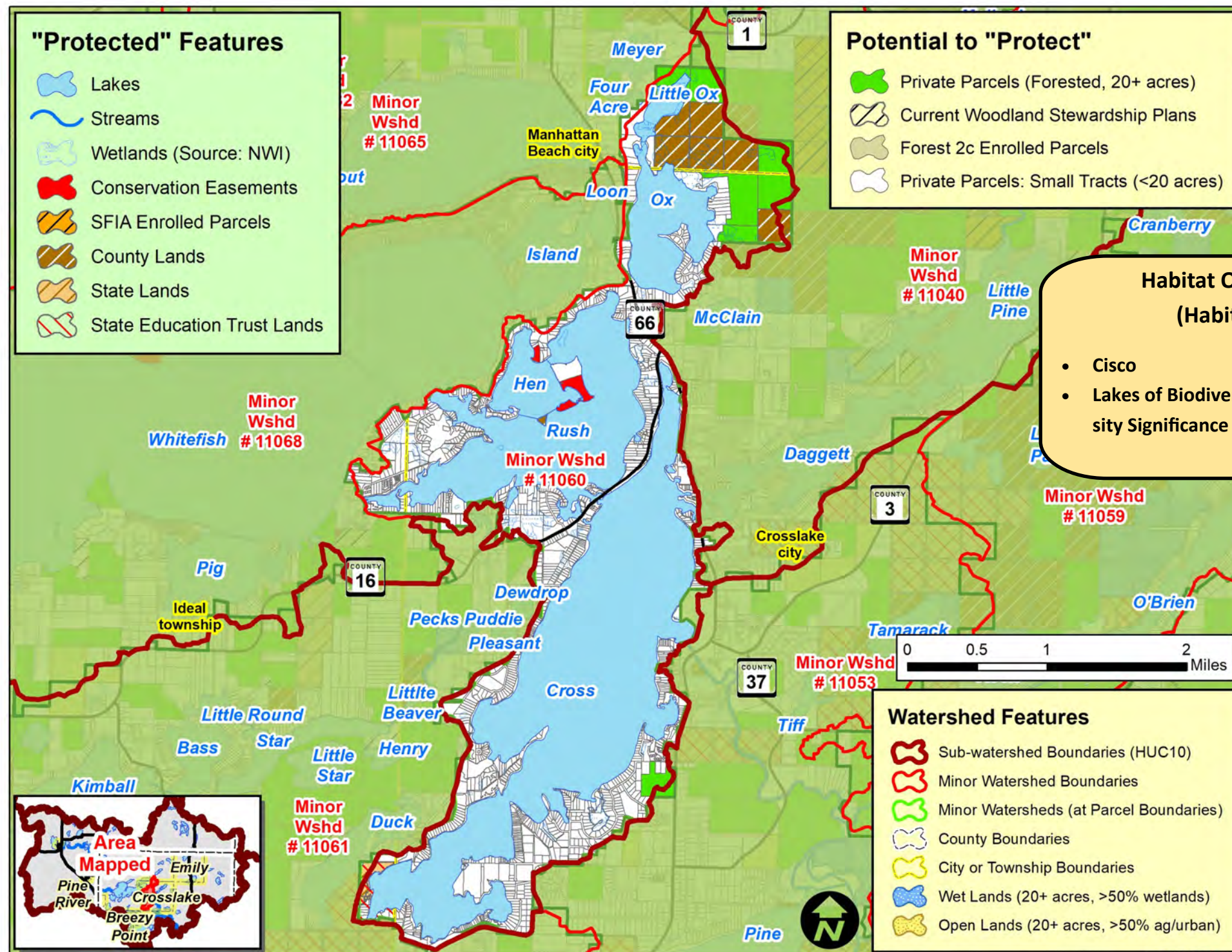
* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance <ul style="list-style-type: none">FactsheetsPoster / MailersWorkshopsWebsite / Social Media	Specific Advice & Assistance <ul style="list-style-type: none">Site VisitsPlansLandscape StewardshipForest Stewardship Projects	Grants & Cost-share Projects <ul style="list-style-type: none">Tree PlantingBud CappingTimber Stand Improvement (Thinning) Forest Management <ul style="list-style-type: none">Timber SalesHigh Priority AreasClean Water/Habitat Fund	Local Land Use <ul style="list-style-type: none">Riparian BuffersVoluntary Site Level GuidelinesZoning & Official Controls Incentive Programs to Enroll Land <ul style="list-style-type: none">SFIA2C ForestCRP Conservation Easements <ul style="list-style-type: none">DonatedPurchased Fee Title Public Land Acquisition <ul style="list-style-type: none">FederalStateCounty
Options			
Lower Costs, Less Permanent		Higher Costs, More Permanent	

What is the Potential to Protect the Cross Lake Minor Watershed (Minor 11060) ?

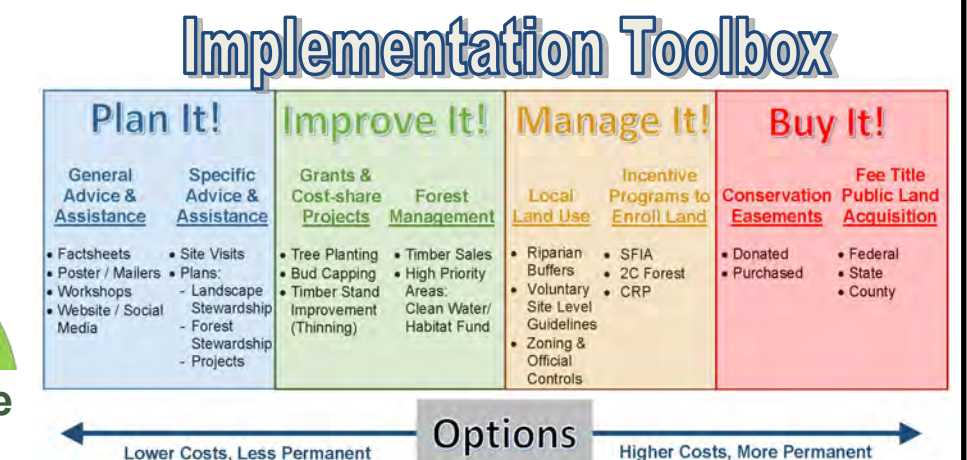


Water Quality Trends / Impairments:

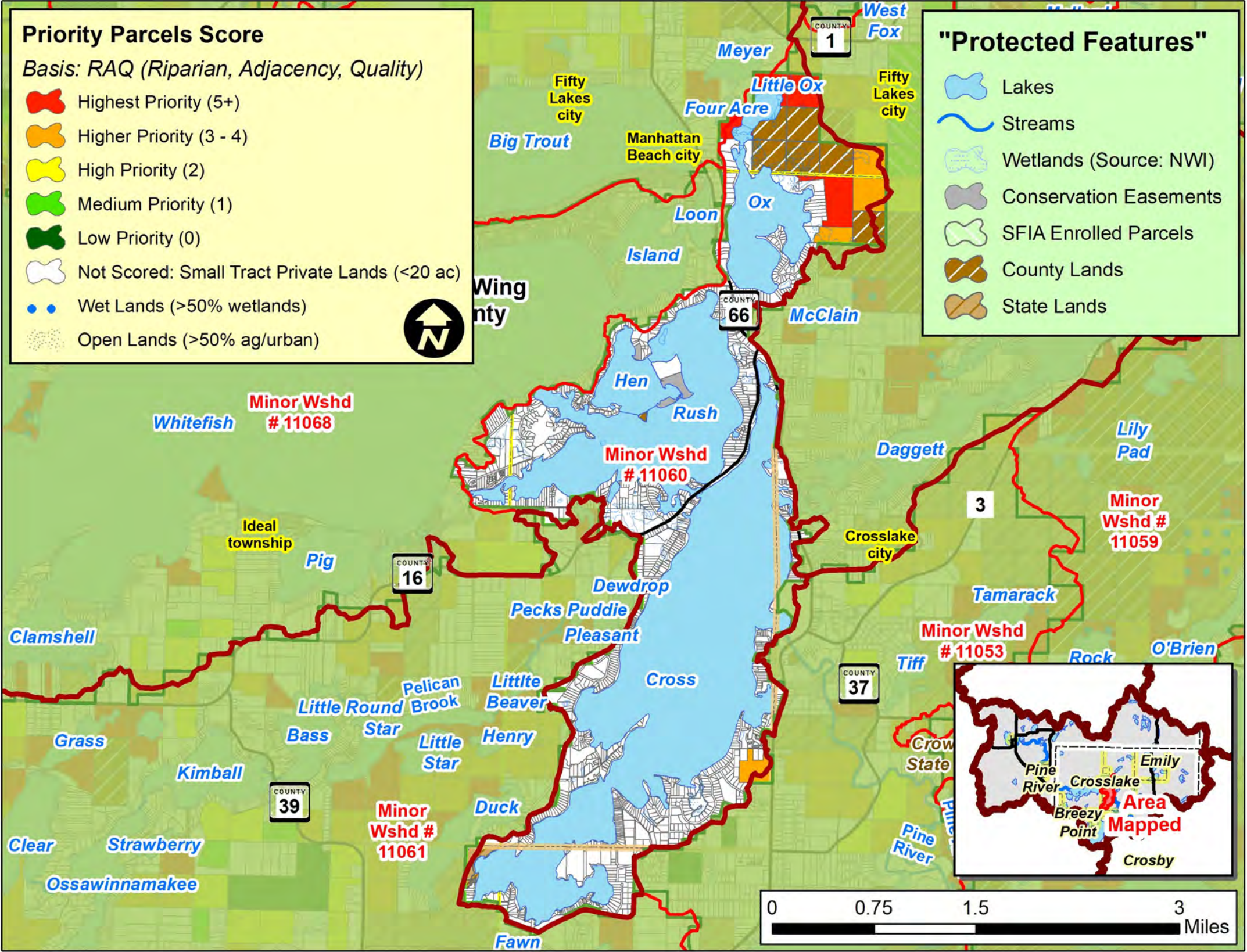
Improving: Ox Lake

Declining: Hen L., **Impaired:** None

Stable (No Trend): Rush L., Cross L.



RAQ Scoring for Parcels in the Cross Lake Minor Watershed (Minor #11060)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

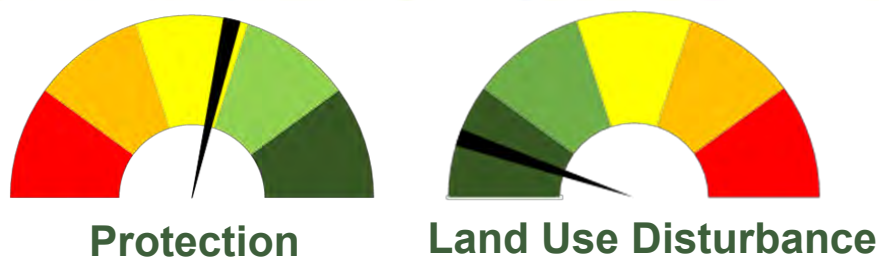
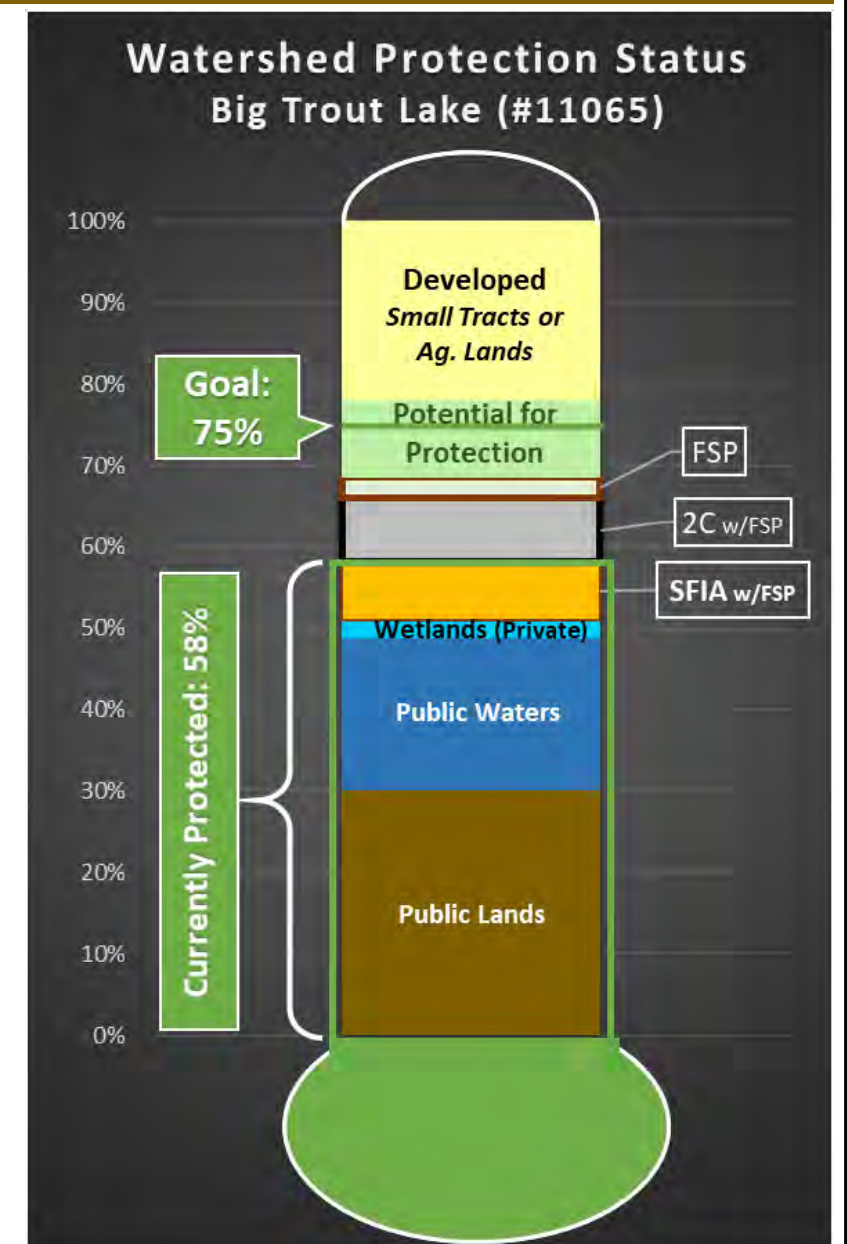
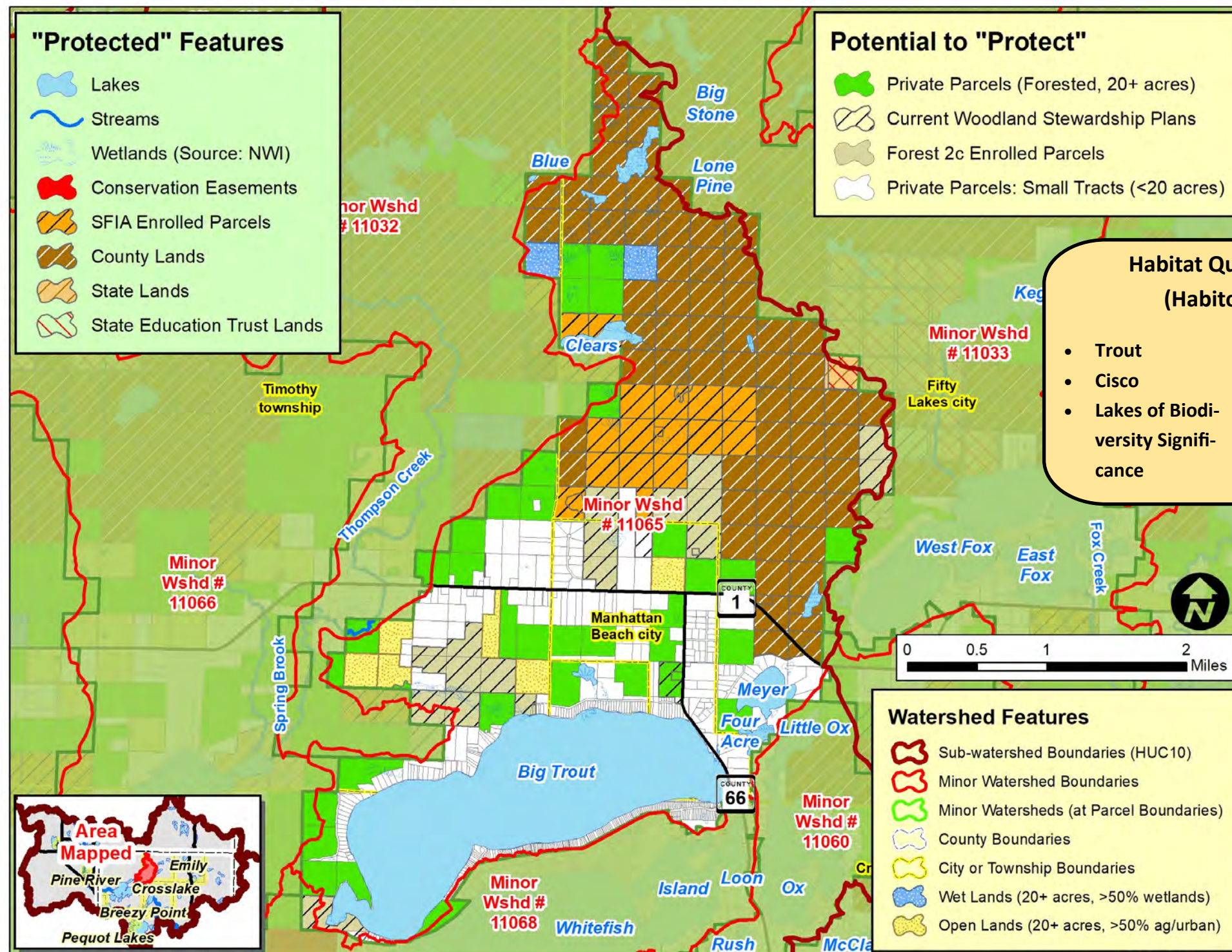
- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance	Specific Advice & Assistance	Grants & Cost-share Projects	Local Land Use
Factsheets Poster / Mailers Workshops Website / Social Media	Site Visits Plans Landscape Stewardship Forest Stewardship Projects	Tree Planting Bud Capping Timber Stand Improvement (Thinning) Timber Sales High Priority Areas Clean Water/Habitat Fund	Incentive Programs to Enroll Land Riparian Buffers Voluntary Site Level Guidelines Zoning & Official Controls
			Conservation Easements Fee Title Public Land Acquisition
			Donated Purchased Federal State County

Lower Costs, Less Permanent Options Higher Costs, More Permanent

What is the Potential to Protect the Big Trout Lake Minor Watershed (Minor 11065) ?

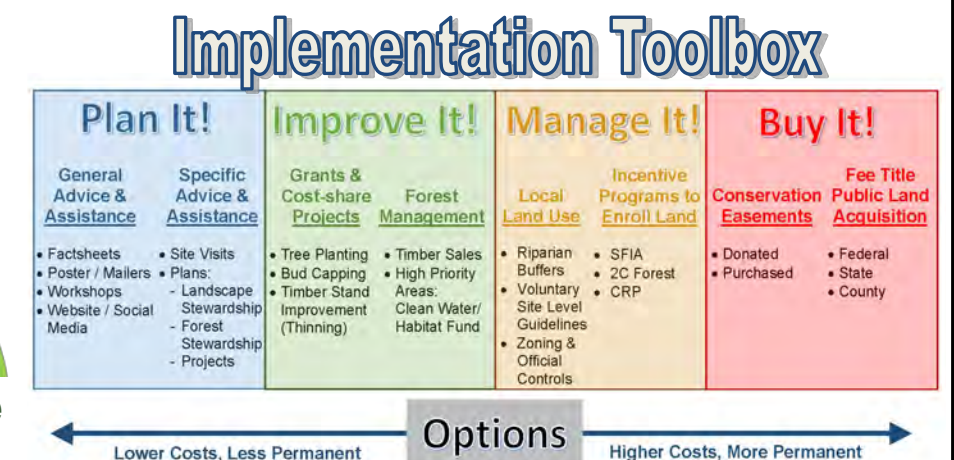
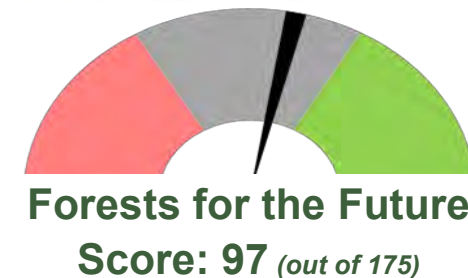


Water Quality Trends / Impairments:

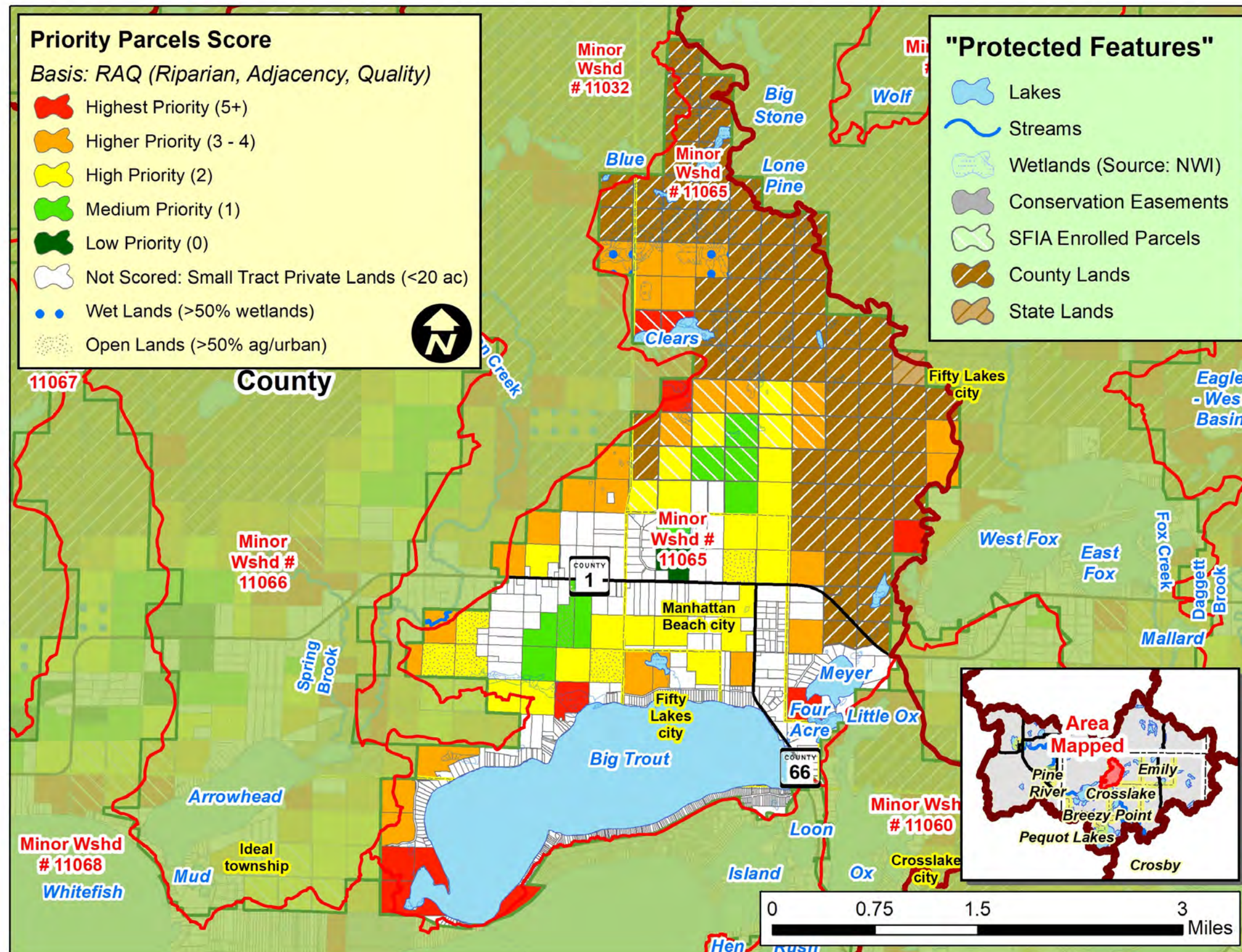
Improving: None

Declining: Big Trout L, Impaired: None

Stable (No Trend): None



RAQ Scoring for Parcels in the Big Trout Lake Minor Watershed (Minor #11065)



Scoring Criteria:		
<u>Riparian</u>	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
<u>Adjacency</u>	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
<u>Quality*</u>	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

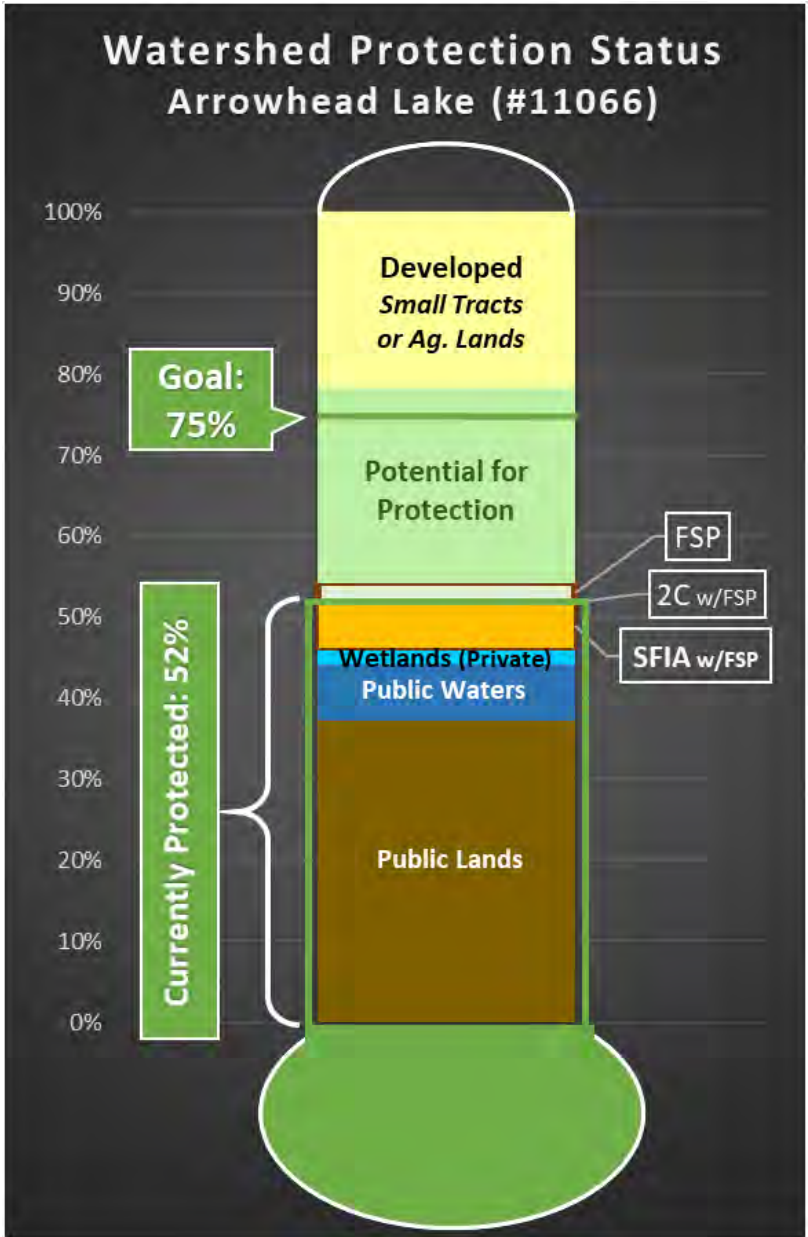
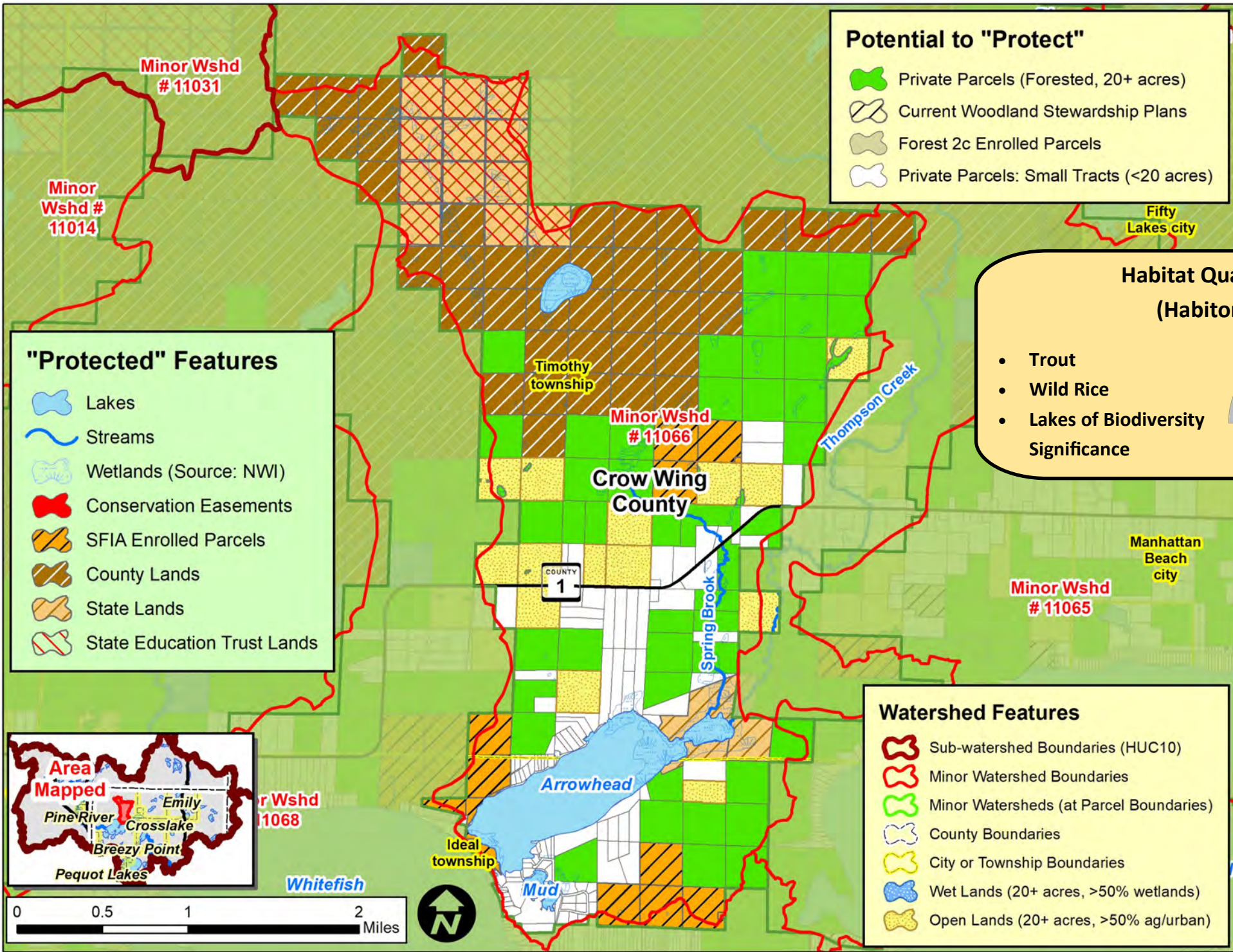
Plan It!		Improve It!		Manage It!		Buy It!	
General Advice & Assistance	Specific Advice & Assistance	Grants & Cost-share Projects	Forest Management	Local Land Use	Incentive Programs to Enroll Land	Conservation Easements	Fee Title Public Land Acquisition
<ul style="list-style-type: none"> • Factsheets • Poster / Mailers • Workshops • Website / Social Media 	<ul style="list-style-type: none"> • Site Visits • Plans: <ul style="list-style-type: none"> - Landscape Stewardship - Forest Stewardship - Projects 	<ul style="list-style-type: none"> • Tree Planting • Bud Capping • Timber Stand Improvement (Thinning) 	<ul style="list-style-type: none"> • Timber Sales • High Priority Areas: Clean Water/ Habitat Fund 	<ul style="list-style-type: none"> • Riparian Buffers • Voluntary Site Level Guidelines • Zoning & Official Controls 	<ul style="list-style-type: none"> • SFIA • 2C Forest • CRP 	<ul style="list-style-type: none"> • Donated • Purchased 	<ul style="list-style-type: none"> • Federal • State • County

Options

Lower Costs, Less Permanent

Higher Costs, More Permanent

What is the Potential to Protect the Arrowhead Lake Minor Watershed (Minor 11066) ?

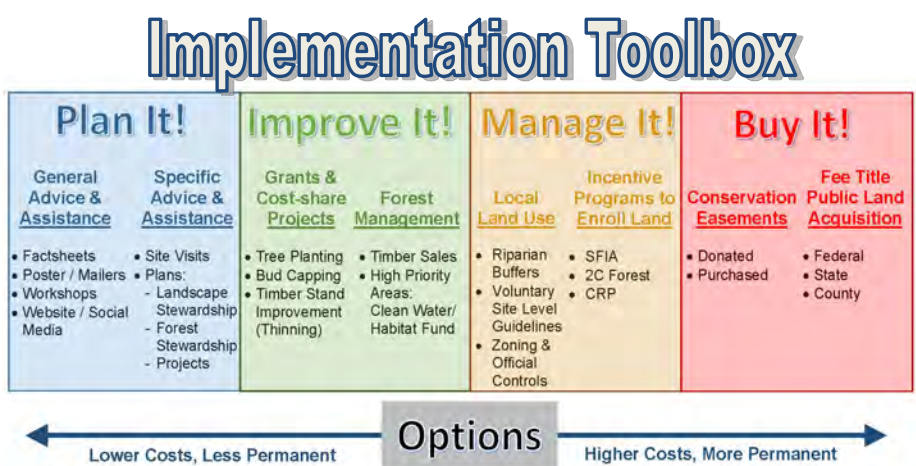
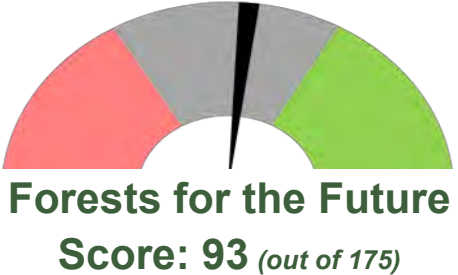


Water Quality Trends / Impairments:

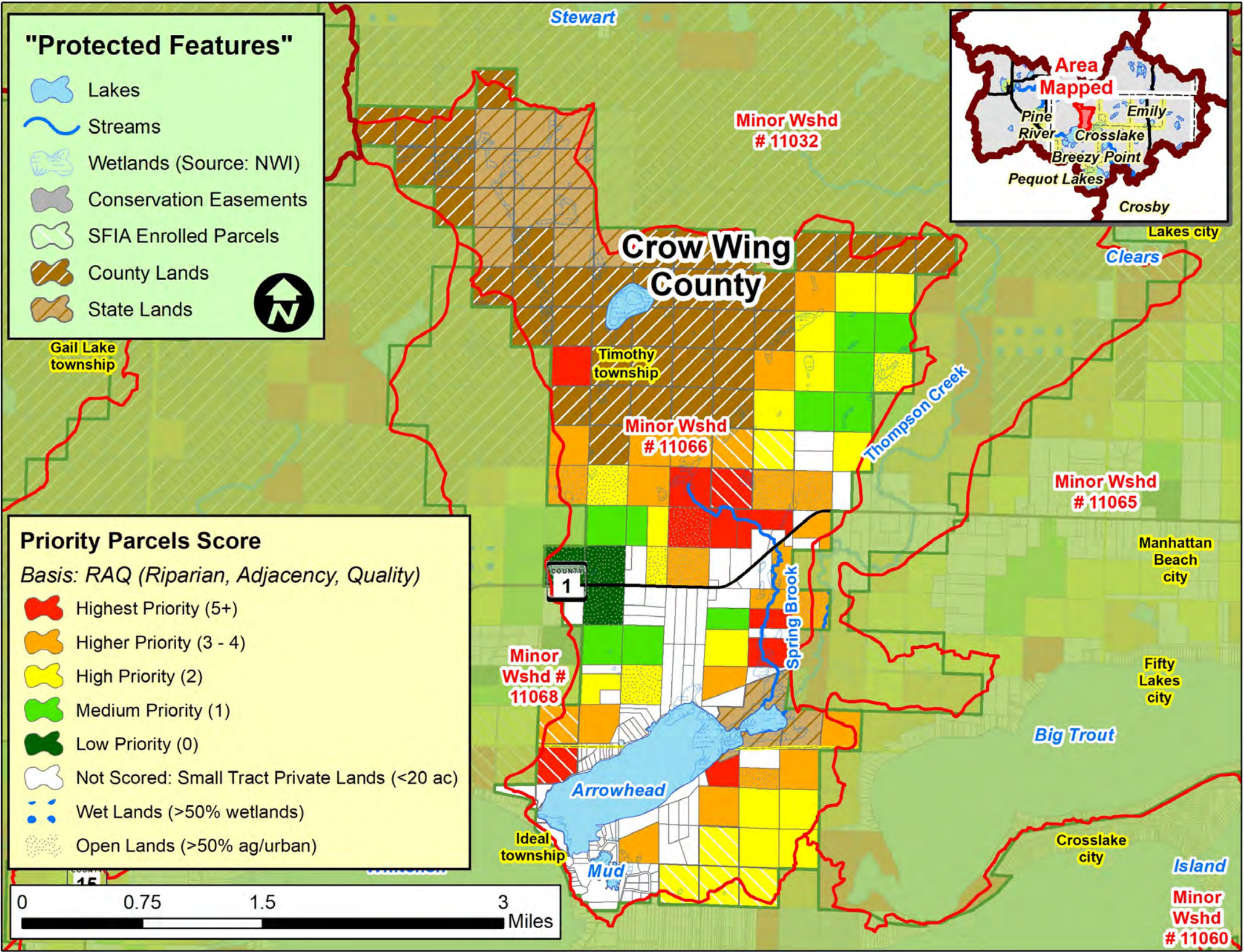
Improving: None

Declining: None, Impaired: None

Stable (No Trend): None



RAQ Scoring for Parcels in the Arrowhead Lake Minor Watershed (Minor #11066)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

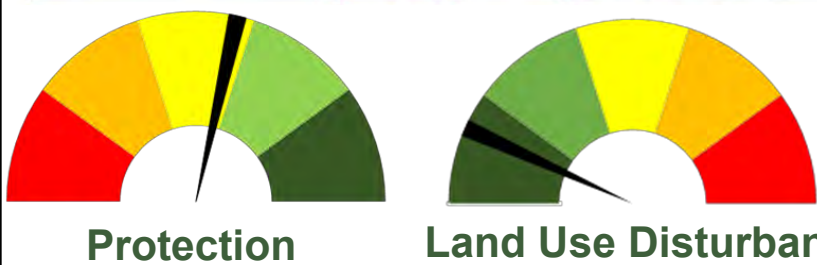
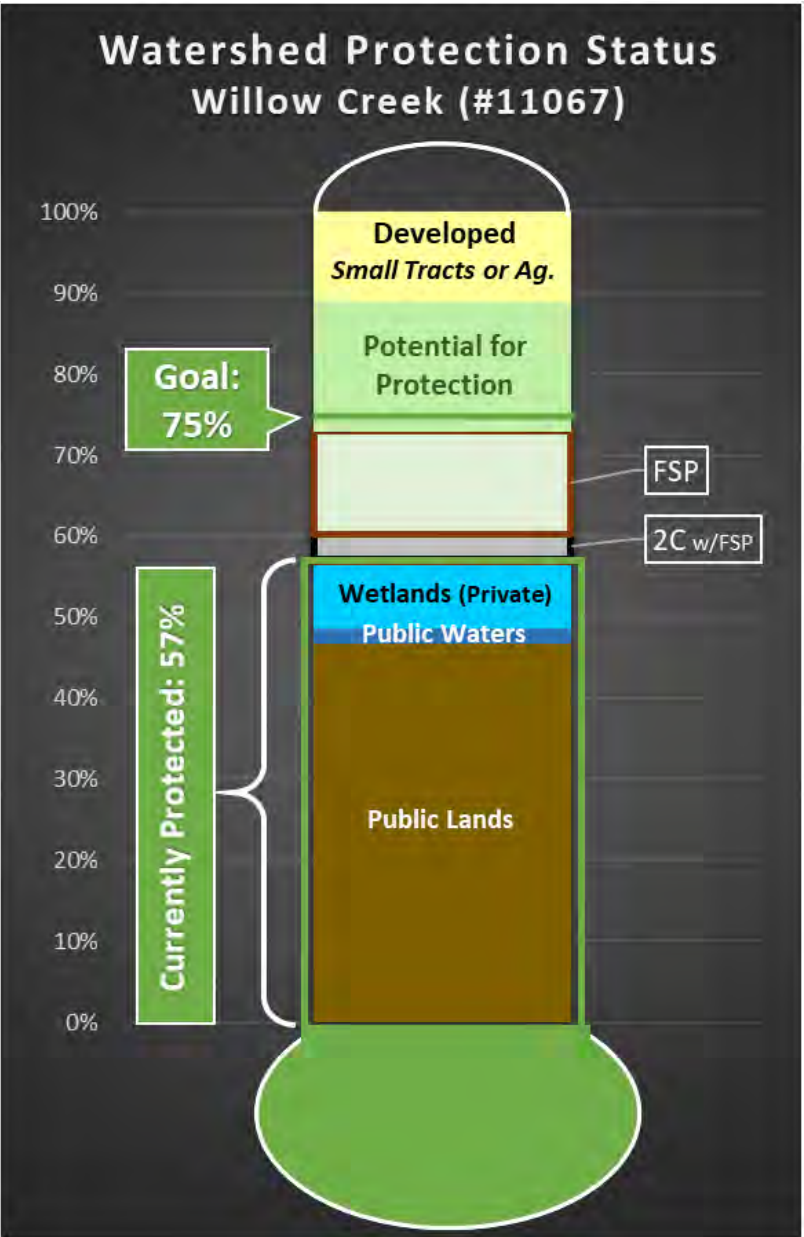
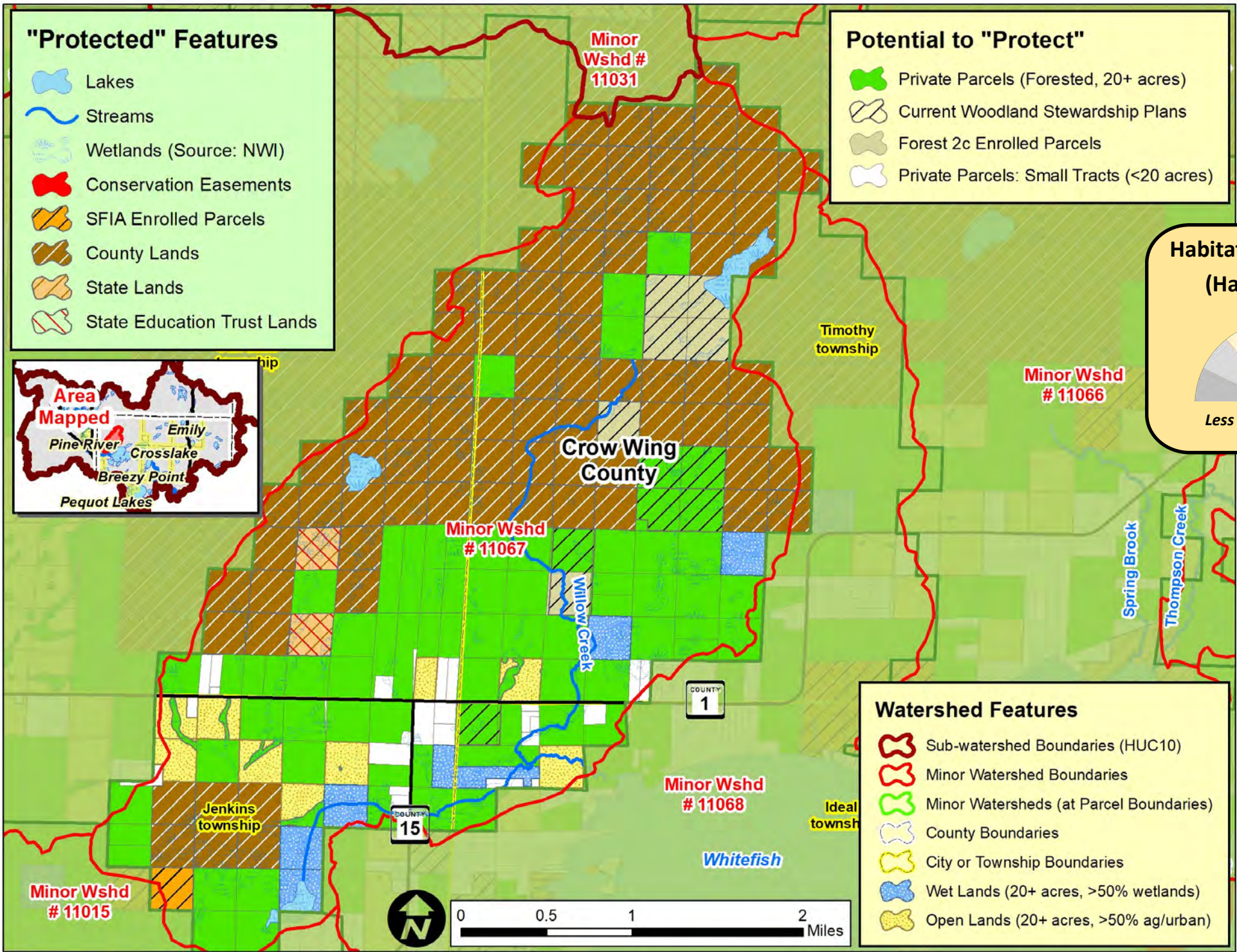
- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance	Specific Advice & Assistance	Grants & Cost-share Projects	Local Land Use
Factsheets Poster / Mailers Workshops Website / Social Media	Site Visits Plans Landscape Stewardship Forest Stewardship Projects	Forest Management Tree Planting Bud Capping Timber Stand Improvement (Thinning) Timber Sales High Priority Areas Clean Water/Habitat Fund	Incentive Programs to Enroll Land Riparian Buffers Voluntary Site Level Guidelines Zoning & Official Controls
			Conservation Easements Fee Title Public Land Acquisition
			Donated Purchased Federal State County

Options: Lower Costs, Less Permanent → Higher Costs, More Permanent

What is the Potential to Protect the Willow Creek Minor Watershed (Minor 11067) ?

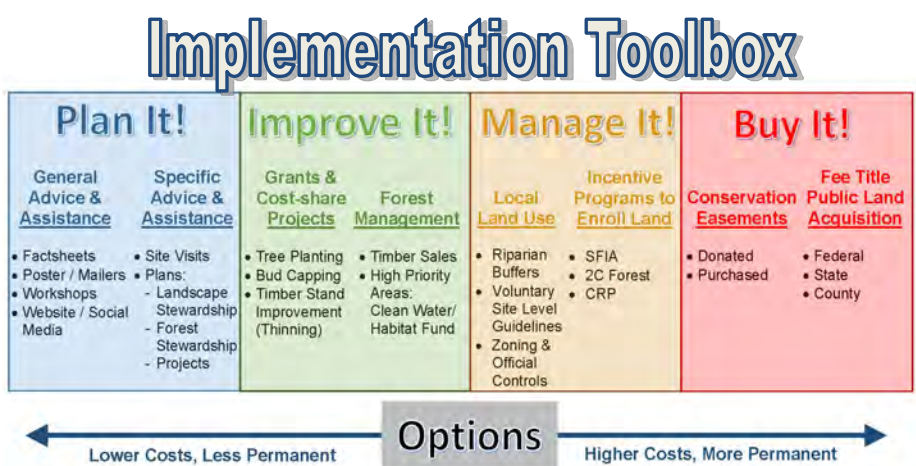


Water Quality Trends / Impairments:

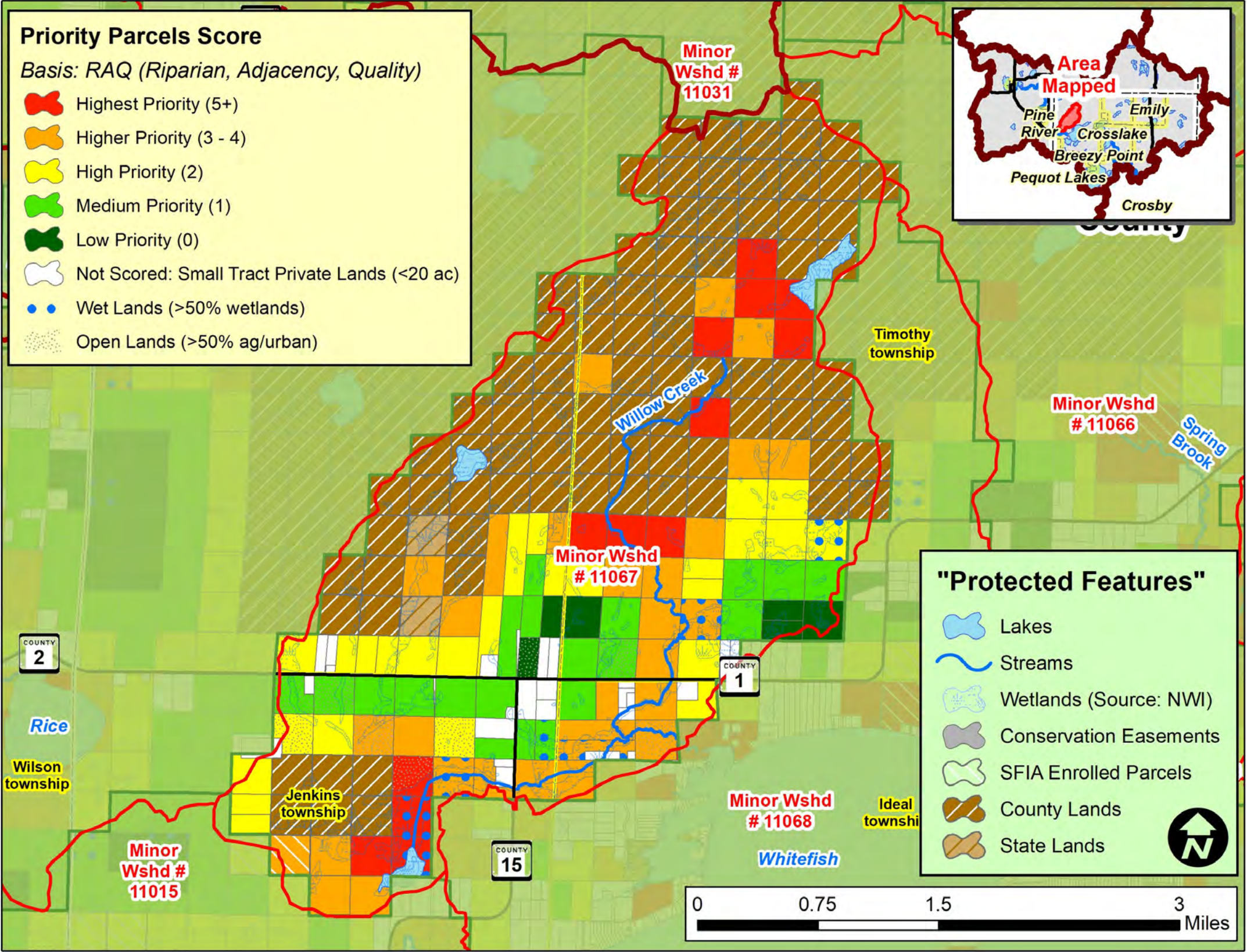
Improving: None

Declining: None, Impaired: Willow Cr.

Stable (No Trend): None



RAQ Scoring for Parcels in the Willow Creek Minor Watershed (Minor #11067)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

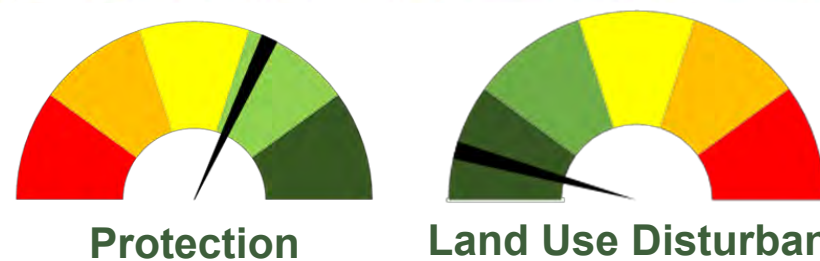
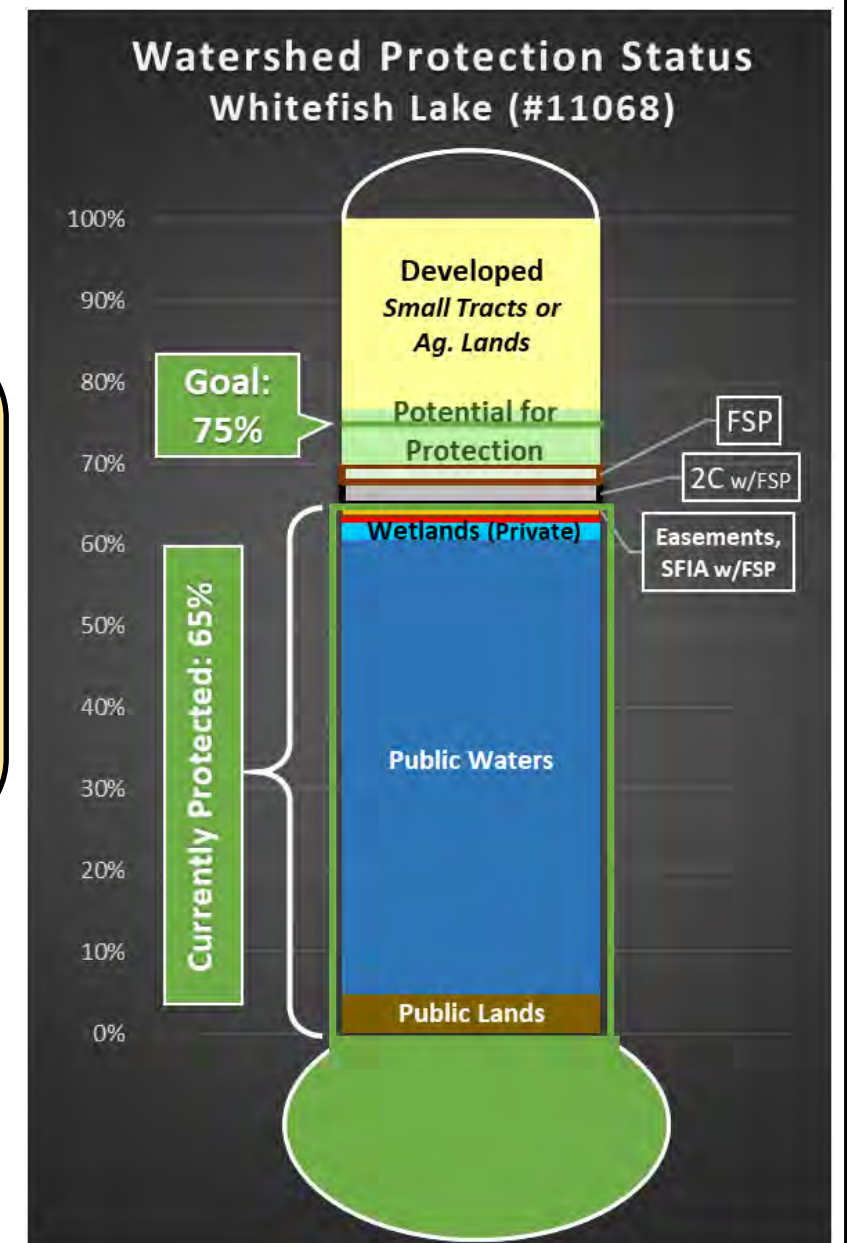
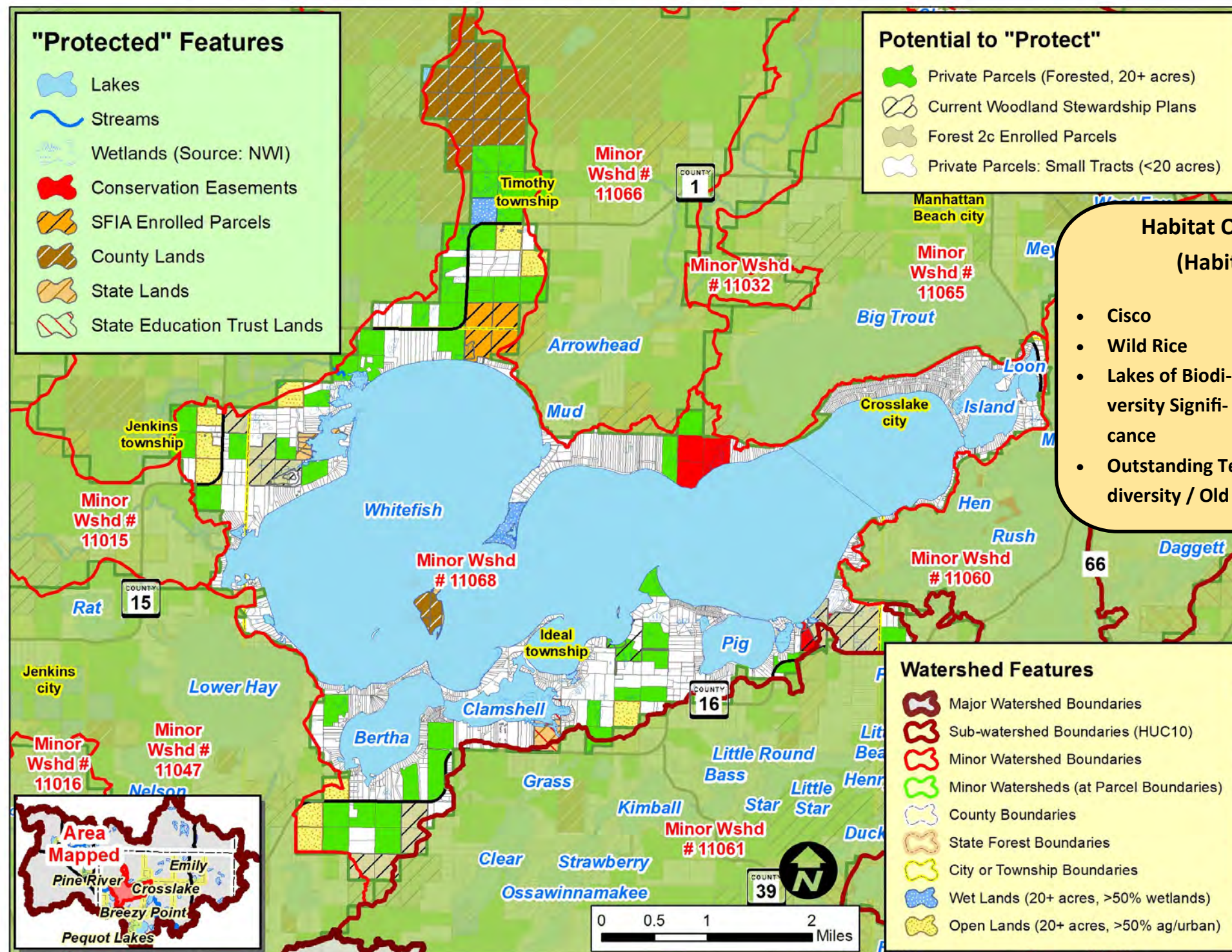
- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance	Specific Advice & Assistance	Grants & Cost-share Projects	Local Land Use
Factsheets Poster / Mailers Workshops Website / Social Media	Site Visits Plans Landscape Stewardship Forest Stewardship Projects	Tree Planting Bud Capping Timber Stand Improvement (Thinning) Timber Sales High Priority Areas Clean Water/Habitat Fund	Incentive Programs to Enroll Land Riparian Buffers Voluntary Site Level Guidelines Zoning & Official Controls
			Fee Title Conservation Public Land Acquisition
			Donated Purchased Federal State County

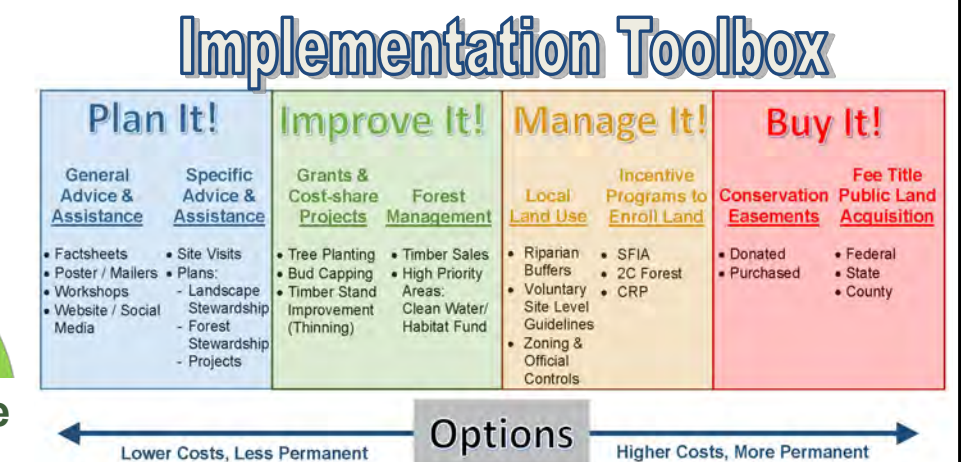
Options: Lower Costs, Less Permanent → Higher Costs, More Permanent

What is the Potential to Protect the Whitefish Lake Minor Watershed (Minor 11068) ?

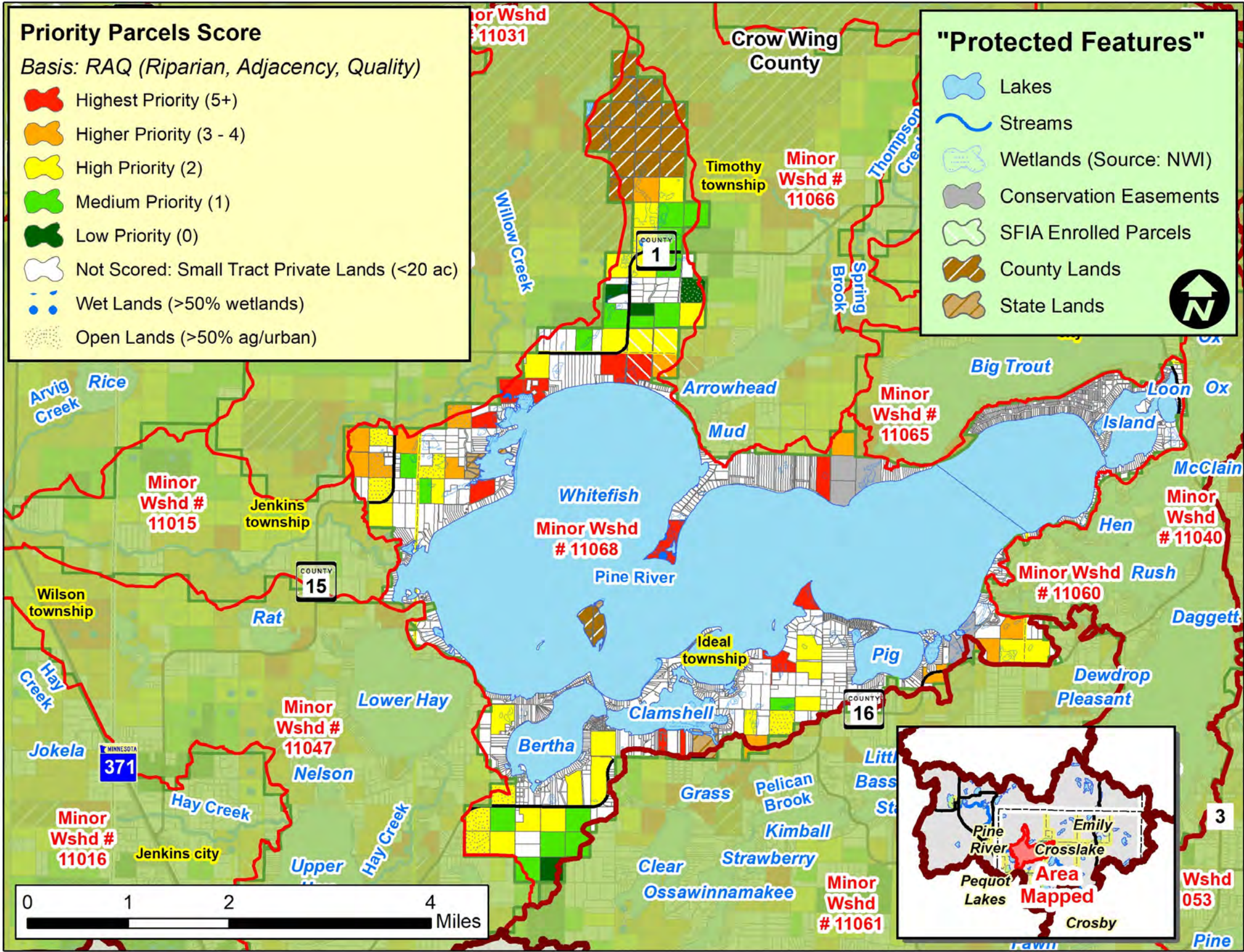


Water Quality Trends / Impairments:

Improving: None
Declining: Whitefish L., Clamshell L., Bertha L, Pig L., Island L.
Impaired: None **Stable (No Trend):** None



RAQ Scoring for Parcels in the Whitefish Lake Minor Watershed (Minor #11068)



Scoring Criteria:		
Riparian	3	Riparian
	2	Non-riparian: Shoreland (1 parcel back)
	1	2 parcels back
Adjacency	3	2 sides touching public land
	2	1 side touching public land
	1	One parcel removed from public land or touching parcel with SFIA or Easement
Quality*	3	1 point for each feature that the parcel touches: such as High or Outstanding Biodiversity (upl. or aqu.), Wild Rice L, Cisco L, Trout L/Streams, etc.
	2	
	1	

* Quality is locally determined and can include other features, including groundwater resources. For this project, quality also included:

- Outstanding Resource Value Resources (MPCA)
- Old Growth Forests (DNR)
- Lakes with Exceptional IBI Scores (DNR)
- Drinking Water Supply Management Areas (MDH)
- High or Outstanding Wildlife Action Network Score (DNR)

Implementation Toolbox

Plan It!	Improve It!	Manage It!	Buy It!
General Advice & Assistance • Factsheets • Poster / Mailers • Workshops • Website / Social Media	Specific Advice & Assistance • Site Visits • Plans • Landscape Stewardship • Forest Stewardship Projects	Grants & Cost-share Projects • Tree Planting • Bud Capping • Timber Stand Improvement (Thinning) • Forest Management • Timber Sales • High Priority Areas • Clean Water/Habitat Fund	Local Land Use • Incentive Programs to Enroll Land • Riparian Buffers • Voluntary Site Level Guidelines • Zoning & Official Controls
• Donated • Purchased	• SFIA • 2C Forest • CRP	• Fee Title • Conservation Easements • Public Land Acquisition	• Federal • State • County
Options			
Lower Costs, Less Permanent		Higher Costs, More Permanent	