

Example Application



Site is in the "Coteau" Agro Eco Region

Example Application

Management Condition Examples	Poor	Average	Best
Fall Tillage	Moldboard Plow	Chisel/heavy disk	Light Disk
Fertilizer Rate*	125% Average Farmer Surveyed Rates*	Average Farmer surveyed Rates*	U of M Recommendations*
Fertilizer Incorporation	Broadcast/not incorporated	Disk large	Chisel
Manure Incorporation	Broadcast/not incorporated	Disk large	Chisel
Residue cover	<5%	5-20%	>20%
Tillage orientation	Up and down slope	Cross Slope	Cross Slope

All Management is the "Best"
Except Tillage Orientation
Tool Input is "Poor"

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Soils are Mostly Sandy Clay with
some areas of Sandy Clay Loam

Soils are "Fine"

Example Application

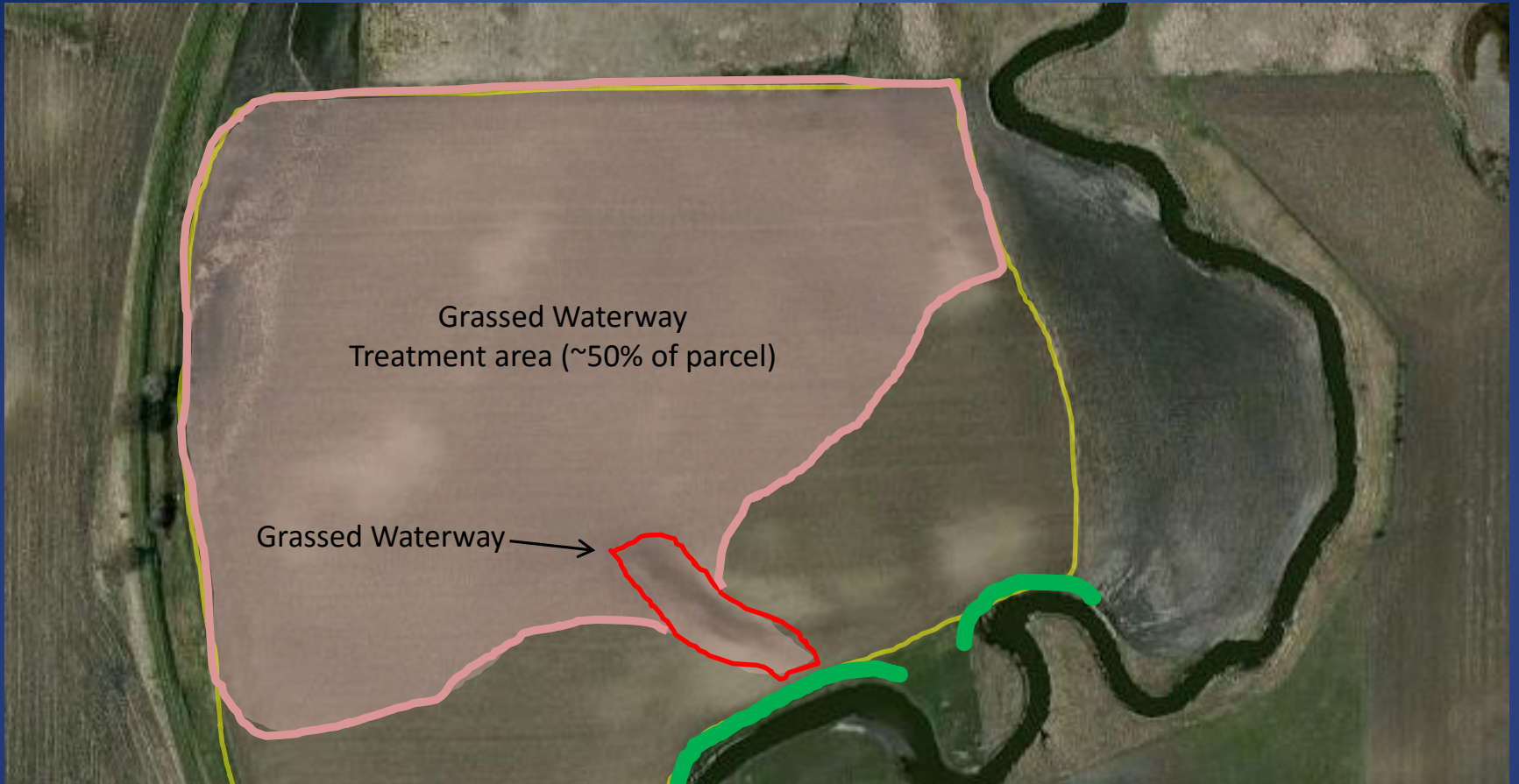


Option 1-Install Required 50' buffer

Pending other areas of Buffer maybe
30' minimum is all that is needed

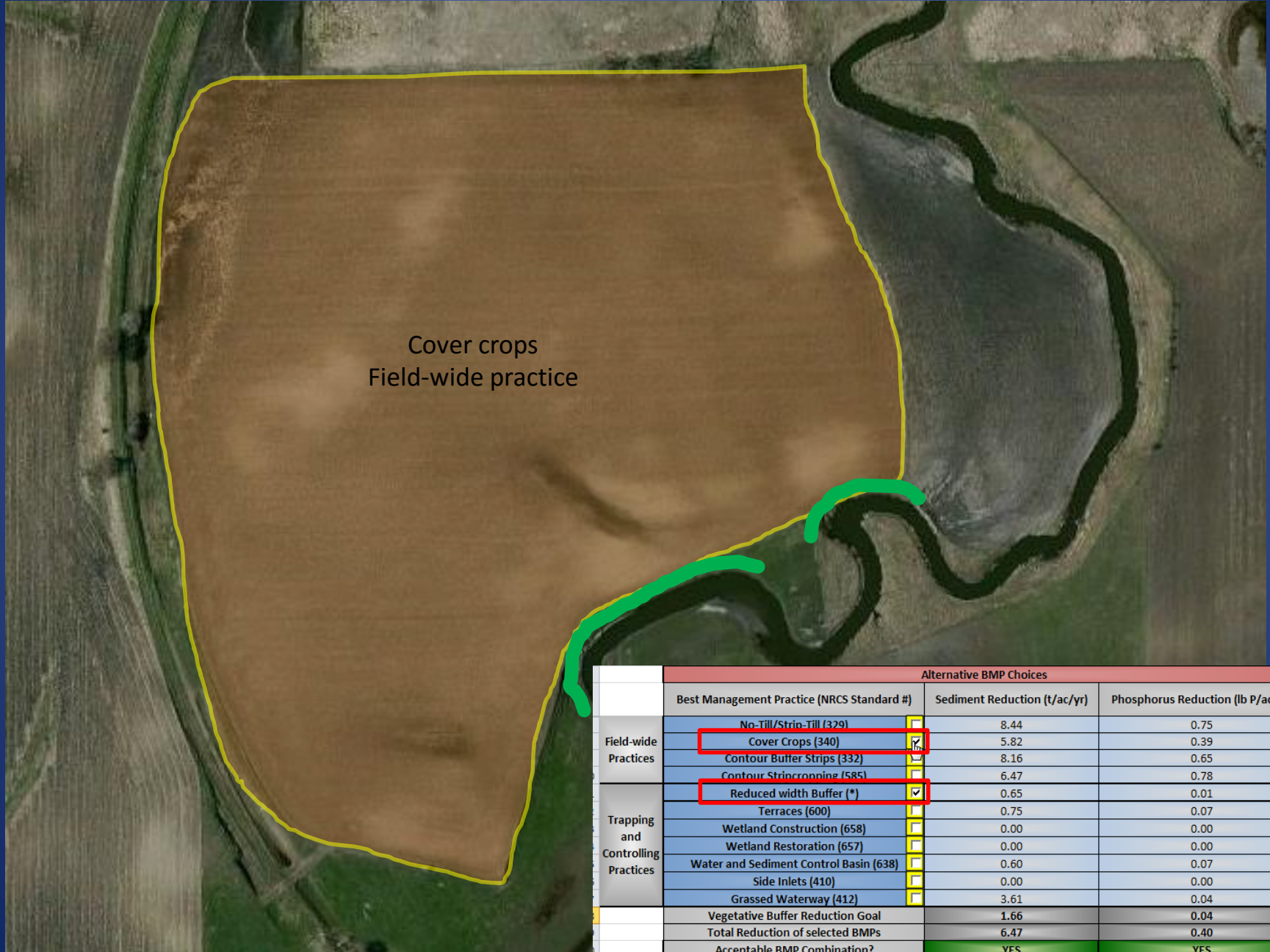
Baseline Site Conditions without Vegetative Buffer	
Agroecoregion	Coteau
Current Management Condition	Poor
Are riparian berms present that interrupt sheet flow?	No
Baseline Sediment Export (t/ac/yr)	9.38
Baseline Phosphorus Export (lbs P/ac/yr)	1.00
Vegetative Buffer Water Quality Improvement Goals	
Buffer Width Required	50' (Public Water)
Average field Slope	5% - 7.5%
Soil Texture	Fine (Clay Loam, Silty Clay Loam, Silt)
Vegetative Buffer Sediment Reduction Goal (t/ac/yr)	1.66
Vegetative Buffer Phosphorus Reduction Goal (lbs P/ac/yr)	0.04

Option 2-Reduced 16.5' buffer and grassed waterway



Alternative BMP Choices					
	Best Management Practice (NRCS Standard #)		Sediment Reduction (t/ac/yr)	Phosphorus Reduction (lb P/ac/yr)	
7	No-Till/Strip-Till (329)	<input type="checkbox"/>	8.44	0.75	
8	Cover Crops (340)	<input type="checkbox"/>	5.82	0.39	
9	Contour Buffer Strips (332)	<input type="checkbox"/>	8.16	0.65	
10	Contour Stripcropping (585)	<input type="checkbox"/>	6.47	0.78	
11	Reduced width Buffer (*)	<input checked="" type="checkbox"/>	0.65	0.01	16.5
12	Terraces (600)	<input type="checkbox"/>	0.75	0.07	10
13	Wetland Construction (658)	<input type="checkbox"/>	0.00	0.00	10
14	Wetland Restoration (657)	<input type="checkbox"/>	0.00	0.00	10
15	Water and Sediment Control Basin (638)	<input type="checkbox"/>	0.60	0.07	10
16	Side Inlets (410)	<input type="checkbox"/>	0.00	0.00	10
17	Grassed Waterway (412)	<input checked="" type="checkbox"/>	3.61	0.04	50
18	Vegetative Buffer Reduction Goal		1.66	0.04	
19	Total Reduction of selected BMPs		4.27	0.05	
20	Acceptable BMP Combination?		YES	YES	

Option 3-Reduced 16.5' buffer and cover crops



Alternative BMP Choices			
	Best Management Practice (NRCS Standard #)	Sediment Reduction (t/ac/yr)	Phosphorus Reduction (lb P/ac/yr)
Field-wide Practices	No-Till/Strip-Till (329)	8.44	0.75
	Cover Crops (340)	5.82	0.39
	Contour Buffer Strips (332)	8.16	0.65
	Contour Stripcropping (585)	6.47	0.78
Trapping and Controlling Practices	Reduced width Buffer (*)	0.65	0.01
	Terraces (600)	0.75	0.07
	Wetland Construction (658)	0.00	0.00
	Wetland Restoration (657)	0.00	0.00
	Water and Sediment Control Basin (638)	0.60	0.07
	Side Inlets (410)	0.00	0.00
	Grassed Waterway (412)	3.61	0.04
	Vegetative Buffer Reduction Goal	1.66	0.04
Total Reduction of selected BMPs		6.47	0.40
Acceptable BMP Combination?		YES	YES

16.5	10	10	10	10	10	50
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