

Line 5 Wisconsin Segment Relocation Project  
Storm Water Pollution Prevention Plan

**Attachment 3**  
**Soil Loss and Sediment Discharge Calculations**



# Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin



WDNR Version 2.0 (06-29-2017)

**YEAR 1**

Developer: Enbridge

Project: Line 5 - Bayside Yard

Date: 08/31/20

County: Ashland

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	03/01/21	03/15/21	1.0%	100	Loam	0.37	1.0%	1500	0.29	1.00	0.1	0.652	Silt Fence	0.0
Land Applied Additive	03/15/21	05/01/21	6.3%	100	Loam	0.37	1.0%	1500	0.29	0.50	0.3	0.652	Silt Fence	0.1
Seeding	05/01/21	07/01/21	30.6%	100	Loam	0.37	1.0%	1500	0.29	0.40	1.3	0.652	Silt Fence	0.5
End	07/01/21	----	----	----	-----	----	1.0%	1500	0.29	-----	----	0.000		0.0
		----	----	----	-----	----	1.0%	0	----	-----	----	0.000		0.0
		----	----	----	-----	----	0.0%	0	----	-----	----	0.000		0.0
<b>TOTAL</b>											<b>1.8</b>		<b>TOTAL</b>	<b>0.7</b>
													<b>% Reduction Required</b>	<b>NONE</b>

**Notes:**

See Help Page for further descriptions of variables and items in drop-down boxes.  
 The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.  
 For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

**Recommended Permanent Seeding Dates:**

5/1-6/15 and 7/15-8/10 Turf, introduced grasses and legumes  
 Thaw-7/15 Native Grasses, forbs, and legumes

Designed By:	
Date	



# Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin



WDNR Version 2.0 (06-29-2017)

**YEAR 1**

Developer: Enbridge

Project: Line 5 - Gurney

Date: 08/31/20

County: Iron

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	03/01/21	03/15/21	1.0%	100	Loamy Sand	0.17	1.0%	1350	0.28	1.00	0.0	0.725	Silt Fence	0.0
Land Applied Additive	03/15/21	05/01/21	6.3%	100	Loamy Sand	0.17	1.0%	1350	0.28	0.50	0.2	0.725	Silt Fence	0.1
Seeding	05/01/21	07/01/21	30.6%	100	Loamy Sand	0.17	1.0%	1350	0.28	0.40	0.6	0.725	Silt Fence	0.3
End	07/01/21	----	----	----	-----	----	1.0%	1350	0.28	-----	----	0.000		0.0
		----	----	----	-----	----	1.0%	0	----	-----	----	0.000		0.0
		----	----	----	-----	----	0.0%	0	----	-----	----	0.000		0.0
<b>TOTAL</b>											<b>0.8</b>		<b>TOTAL</b>	<b>0.3</b>
													<b>% Reduction Required</b>	<b>NONE</b>

**Notes:**

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 The last land disturbing activity on each sheet must be 'End'. This is either 12 months from the start of construction or final stabilization.  
 For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

**Recommended Permanent Seeding Dates:**

5/1-6/15 and 7/15-8/10 Turf, introduced grasses and legumes  
 Thaw-7/15 Native Grasses, forbs, and legumes

Designed By:	
Date	



# Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin



WDNR Version 2.0 (06-29-2017)

**YEAR 1**

Developer: Enbridge

Project: Line 5 - Peters

Date: 08/31/20

County: Ashland

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	03/01/21	03/15/21	1.0%	100	Silt Loam	0.43	1.0%	675	0.23	1.00	0.1	0.693	Silt Fence	0.0
Land Applied Additive	03/15/21	05/01/21	6.3%	100	Silt Loam	0.43	1.0%	675	0.23	0.50	0.3	0.693	Silt Fence	0.1
Seeding	05/01/21	07/01/21	30.6%	100	Silt Loam	0.43	1.0%	675	0.23	0.40	1.2	0.693	Silt Fence	0.5
End	07/01/21	----	----	----	-----	----	1.0%	675	0.23	-----	----	0.000		0.0
		----	----	----	-----	----	1.0%	0	----	-----	----	0.000		0.0
		----	----	----	-----	----	0.0%	0	----	-----	----	0.000		0.0
<b>TOTAL</b>											<b>1.6</b>		<b>TOTAL</b>	<b>0.7</b>
													<b>% Reduction Required</b>	<b>NONE</b>

**Notes:**

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 For periods of construction that exceed 12 months, please demonstrate that 5 tons/acre/year is not exceeded in any given 12 month period.

NOTE: THIS TOOL ONLY ADDRESSED SOIL EROSION DUE TO SHEET FLOW. MEASURES TO CONTROL CHANNEL EROSION MAY ALSO BE REQUIRED TO MEET SEDIMENT DISCHARGE REQUIREMENTS.

**Recommended Permanent Seeding Dates:**

5/1-6/15 and 7/15-8/10 Turf, introduced grasses and legumes  
 Thaw-7/15 Native Grasses, forbs, and legumes

Designed By:	
Date	



# Soil Loss & Sediment Discharge Calculation Tool

for use on Construction Sites in the State of Wisconsin



WDNR Version 2.0 (06-29-2017)

**YEAR 1**

Developer: Enbridge

Project: Line 5 - South Yard

Date: 08/31/20

County: Douglas

Version 1.0

Activity (1)	Begin Date (2)	End Date (3)	Period % R (4)	Annual R Factor (5)	Sub Soil Texture (6)	Soil Erodibility K Factor (7)	Slope (%) (8)	Slope Length (ft) (9)	LS Factor (10)	Land Cover C Factor (11)	Soil loss A (tons/acre) (12)	SDF (13)	Sediment Control Practice (14)	Sediment Discharge (t/ac) (15)
Bare Ground	03/01/21	03/15/21	1.0%	110	Clay	0.32	1.0%	375	0.19	1.00	0.1	0.631	Silt Fence	0.0
Land Applied Additive	03/15/21	05/01/21	6.3%	110	Clay	0.32	1.0%	375	0.19	0.50	0.2	0.631	Silt Fence	0.1
Seeding	05/01/21	07/01/21	30.6%	110	Clay	0.32	1.0%	375	0.19	0.40	0.8	0.631	Silt Fence	0.3
End	07/01/21	----	----	----	-----	----	1.0%	375	0.19	-----	----	0.000		0.0
		----	----	----	-----	----	1.0%	0	----	-----	----	0.000		0.0
		----	----	----	-----	----	0.0%	0	----	-----	----	0.000		0.0
<b>TOTAL</b>											<b>1.1</b>		<b>TOTAL</b>	<b>0.4</b>
													<b>% Reduction Required</b>	<b>NONE</b>

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Designed By:	
Date	