



WETLAND DETERMINATION DATA FORM
Midwest Region

Project/Site: **Indiana Line 6B**

Wetland ID: **W-499a** Sample Point **1w**

VEGETATION (Species identified in all uppercase are non-native species.)				
Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	% Cover	Dominant	Ind. Status
1.	<i>Fraxinus pennsylvanica</i>	10	Y	FACW
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		10		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	<i>Cephalanthus occidentalis</i>	30	Y	OBL
2.	--	--	--	--
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		30		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Lemna minor</i>	20	Y	OBL
2.	<i>Pilea pumila</i>	5	N	FACW
3.	<i>Ambrosia trifida</i>	5	N	FAC
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		30		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
Total Cover =		0		
Remarks: --				

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index Worksheet

Total % Cover of:	Multiply by:
OBL spp. <u>50</u>	x 1 = <u>50</u>
FACW spp. <u>15</u>	x 2 = <u>30</u>
FAC spp. <u>5</u>	x 3 = <u>15</u>
FACU spp. <u>0</u>	x 4 = <u>0</u>
UPL spp. <u>0</u>	x 5 = <u>0</u>
 Total <u>70</u> (A)	 <u>95</u> (B)
Prevalence Index = B/A = <u>1.357</u>	

Hydrophytic Vegetation Indicators:

Yes No Rapid Test for Hydrophytic Vegetation

Yes No Dominance Test is > 50%

Yes No Prevalence Index is ≤ 3.0 *

Yes No Morphological Adaptations (Explain) *

Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft. tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Additional Remarks:

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WETLAND DETERMINATION DATA FORM
Midwest Region

Stantec

Project/Site: Indiana Line 6B
Applicant: Enbridge
Investigator #1: B. Kuykendahl
Investigator #2: A. Binkowski
Date: 11/09/11
County: La Porte
State: Indiana
Wetland ID: W-499a
Sample Point: 2u
Community ID: Upland
Section: 27
Township: 37 N
Range: 4 Dir: W

SUMMARY OF FINDINGS
Hydrophytic Vegetation Present?
Wetland Hydrology Present?
Hydric Soils Present?
Is This Sampling Point Within A Wetland?
Remarks: 5 ft higher in elevation than wetland point. Soils are sandy and therefore naturally problematic.

HYDROLOGY
Wetland Hydrology Indicators (Check here if indicators are not present):
Primary: A1 - Surface Water, A2 - High Water Table, A3 - Saturation, B1 - Water Marks, B2 - Sediment Deposits, B3 - Drift Deposits, B4 - Algal Mat or Crust, B5 - Iron Deposits, B7 - Inundation Visible on Aerial Imagery, B8 - Sparsely Vegetated Concave Surface
Secondary: B6 - Surface Soil Cracks, B10 - Drainage Patterns, C2 - Dry-Season Water Table, C8 - Crayfish Burrows, C9 - Saturation Visible on Aerial Imagery, D1 - Stunted or Stressed Plants, D2 - Geomorphic Position, D5 - FAC-Neutral Test

Field Observations:
Surface Water Present?
Water Table Present?
Saturation Present?
Wetland Hydrology Present?

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks: No primary hydrology indicators were observed; only the FAC-Neutral test was met.

SOILS
Map Unit Name: Tracy sandy Loam
Series Drainage Class: well drained
Taxonomy (Subgroup): Ultic Hapludalfs
Field Observations Confirm Mapped Type?
Profile Description table with columns: Top Depth, Bottom Depth, Horizon, Matrix (Color, %), Mottles (Color, %, Type, Location), Texture (e.g. clay, sand, loam)

NRCS Hydric Soil Field Indicators (check here if indicators are not present):
Indicators for Problematic Soils
A1 - Histosol, A2 - Histic Epipedon, A3 - Black Histic, A4 - Hydrogen Sulfide, A5 - Stratified Layers, A10 - 2 cm Muck, A11 - Depleted Below Dark Surface, A12 - Thick Dark Surface, S1 - Sandy Muck Mineral, S3 - 5 cm Mucky Peat or Peat, S4 - Sandy Gleyed Matrix, S5 - Sandy Redox, S6 - Stripped Matrix, F1 - Loamy Muck Mineral, F2 - Loamy Gleyed Matrix, F3 - Depleted Matrix, F6 - Redox Dark Surface, F7 - Depleted Dark Surface, F8 - Redox Depressions, A16 - Coast Prairie Redox, F12 - Iron-Manganese Masses, Other (Explain in Remarks)

Restrictive Layer (If Observed) Type: N/A Depth: N/A
Hydric Soil Present?
Remarks: --

1 Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.



WETLAND DETERMINATION DATA FORM
Midwest Region

Project/Site: **Indiana Line 6B**

Wetland ID: **W-499a** Sample Point **2u**

VEGETATION (Species identified in all uppercase are non-native species.)				
Tree Stratum (Plot size: 10 meter radius)				
	<u>Species Name</u>	<u>% Cover</u>	<u>Dominant</u>	<u>Ind. Status</u>
1.	<i>Quercus rubra</i>	20	Y	FACU
2.	<i>Quercus palustris</i>	20	Y	FACW
3.	<i>Acer negundo</i>	5	N	FACW
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		45		
Sapling/Shrub Stratum (Plot size: 5 meter radius)				
1.	<i>Fraxinus pennsylvanica</i>	10	Y	FACW
2.	<i>Quercus rubra</i>	5	Y	FACU
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
Total Cover =		15		
Herb Stratum (Plot size: 2 meter radius)				
1.	<i>Solidago canadensis</i>	5	Y	FACU
2.	<i>Toxicodendron radicans subsp. negunc</i>	5	Y	FACW
3.	--	--	--	--
4.	--	--	--	--
5.	--	--	--	--
6.	--	--	--	--
7.	--	--	--	--
8.	--	--	--	--
9.	--	--	--	--
10.	--	--	--	--
11.	--	--	--	--
12.	--	--	--	--
13.	--	--	--	--
14.	--	--	--	--
15.	--	--	--	--
Total Cover =		10		
Woody Vine Stratum (Plot size: 10 meter radius)				
1.	--	--	--	--
2.	--	--	--	--
3.	--	--	--	--
5.	--	--	--	--
4.	--	--	--	--
Total Cover =		0		
Remarks: While the Prevalence Index is less than 3, the dominance test does not exceed 50% and the rapid test was not met. In addition, the lack of primary hydrology indicators and hydric soil supports an upland determination.				

Dominance Test Worksheet

Number of Dominant Species that are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)

Prevalence Index Worksheet

<u>Total % Cover of:</u>	<u>Multiply by:</u>
OBL spp. <u>0</u>	x 1 = <u>0</u>
FACW spp. <u>40</u>	x 2 = <u>80</u>
FAC spp. <u>0</u>	x 3 = <u>0</u>
FACU spp. <u>30</u>	x 4 = <u>120</u>
UPL spp. <u>0</u>	x 5 = <u>0</u>
Total <u>70</u> (A)	<u>200</u> (B)
Prevalence Index = B/A = <u>2.857</u>	

Hydrophytic Vegetation Indicators:

Yes No Rapid Test for Hydrophytic Vegetation

Yes No Dominance Test is > 50%

Yes No Prevalence Index is ≤ 3.0 *

Yes No Morphological Adaptations (Explain) *

Yes No Problem Hydrophytic Vegetation (Explain) *

* Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

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Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft. tall

Woody Vines - All woody vines greater than 3.28 ft. in height.

Hydrophytic Vegetation Present Yes No

Additional Remarks:
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