

Revision History

SUBMITTAL VERSION	DATE	AUTHOR	APPROVER
PRELIMINARY	NOVEMBER 11, 2019	ADAM HEROLD PLAKUT	SCOTT McDONALD
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Introduction

This Blasting Plan, (herein referred to as “Plan”), describes the procedures and conditions that Enbridge Energy, Limited Partnership (herein referred to as “Enbridge”) would use where blasting is required for the Line 5 Wisconsin Segment Relocation Project (Herein referred to as “Project”).

Enbridge has developed the proposed Project, which will replace the existing Line 5 pipeline that traverses through the Reservation with new, 30-inch-diameter pipe to be located entirely outside the Reservation. Figure 1 shows the location of the proposed reroute with construction mileposts.

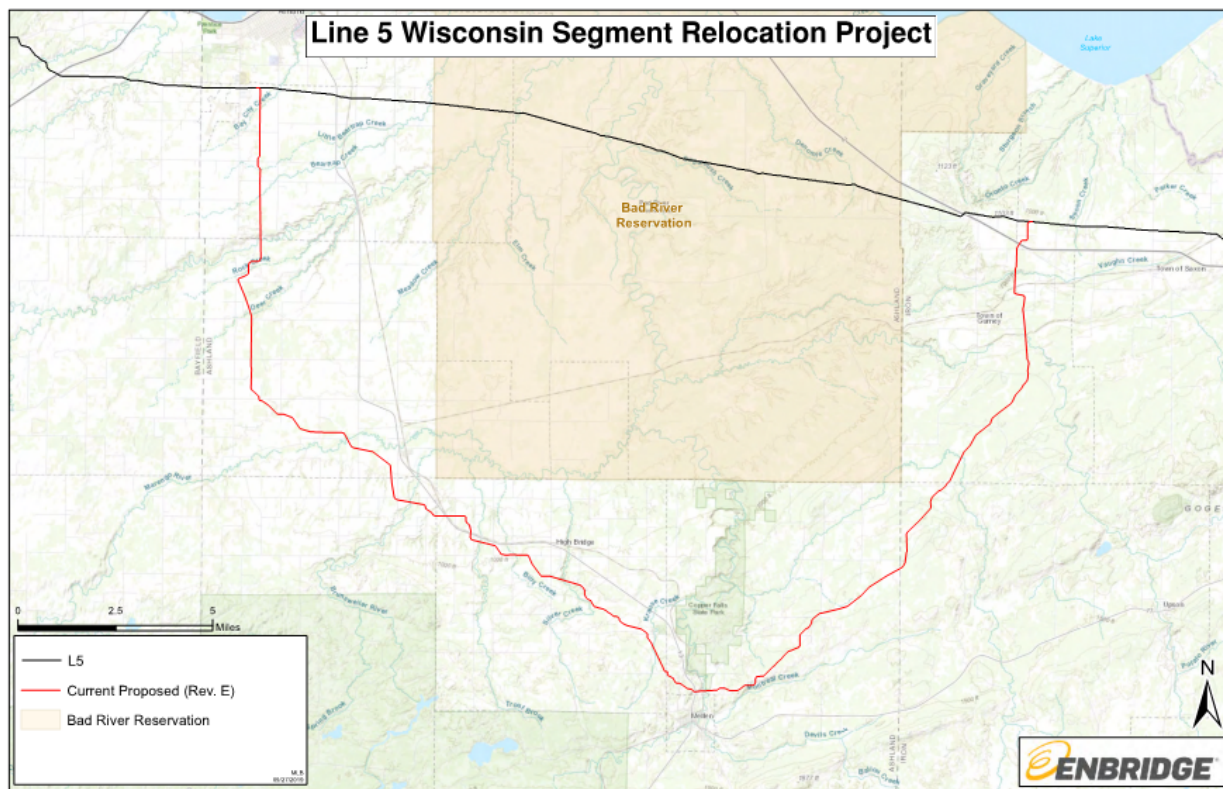


Figure 1 – Project Overview

Preliminary desktop reviews have been completed to identify subsurface conditions along the proposed route including soil types, rock outcrops, and bedrock formations. Upon review of these subsurface conditions, there have been locations identified where conventional trenching techniques will likely be inadequate, and blasting would potentially be required to install the pipeline. These locations are

subject to change based on additional on-site geotechnical investigation, and Enbridge will make every reasonable effort to reduce the extent of blasting required on the Project.

Locations identified to potentially require blasting are based on construction mileposts ranges and are shown in Table 1.

Table 1 – Potential Blasting Mileposts

Route	Milepost Begin	Milepost End
Preferred	19.30	21.95
Preferred	22.35	23.90
Preferred	24.20	29.55
Preferred	29.82	31.45
Preferred	31.82	33.70
Preferred	34.00	37.15
Preferred	37.85	39.21
Preferred	39.44	42.00

With the exception of proposed horizontal directional drills (HDD), installation of the proposed pipeline and construction grading from milepost 19.30 – 42.00 may require blasting. A more accurate prediction of potential blasting locations will be available once on-site geotechnical data is gathered and analyzed.

Purpose of Blasting Plan

This plan will provide guidelines and general requirements for blasting activities that may occur during the Project. This Plan will be supplemental to Enbridge’s blasting contractor(s) blasting plans. The blasting contractor(s) are required to develop their own blasting procedures and site-specific blasting plans for each blasting location as required; which will be more project and site specific than the requirements listed in this Plan and are to be submitted to Enbridge prior to any blasting activities.

This Plan is intended to identify general blasting procedures, including safety, use, storage, and transportation of explosives that meet or exceed the minimum safety requirements as defined by federal, state, and local regulations. Regulations include Code of Federal Regulations (herein referred to as “CFR”) Title 49 Part 177 – Carriage by Public Highway, CFR Title 29 Part 1910.109 – Occupational Safety and Health Standards– Explosives and Blasting Agents, CFR Title 29 Part 1926 Subpart U – Safety and Health Regulations for Construction - Blasting and the Use of Explosives, Wis. Administrative Code SPS 305.20 – Blasting and Fireworks - Blasters, and National Fire Prevention Association 495, Explosive Materials Code, Chapter 11. Additionally, this plan is intended to address environmental aspects of blasting activities and to identify areas of concern along the proposed Project route.

General Blasting Requirements

All blasting operations must be conducted under the direction and constant supervision of personnel certified and legally licensed to perform such activity in the jurisdiction where blasting occurs. Prior to blasting activities, the blasting contractor(s) will provide Enbridge with the experience, certifications, licenses, and permits associated with the blasting personnel. The Contractor will not use explosives to

excavate any section of the proposed pipeline without a minimum 60 days advanced written notice and the written approval of Enbridge.

All blasting-related operations, including obtaining, transporting, storing, handling, loading, detonating, and disposing of blasting material, as well as ground-motion monitoring shall comply with all applicable federal, state, and local regulations, permit stipulations, and contracts. Blasting for excavation or grading purposes is to be used only when deemed necessary by a construction expert after examination of the site and other reasonable means of excavation have been attempted and are unsuccessful in achieving the required results. Enbridge may specify locations where the proposed pipeline crosses foreign utilities and/or structures in which consolidated rock must be removed by approved mechanical equipment such as rock-trenching, hydraulic rams, jack hammers, or rock saws in lieu of blasting.

Before blasting, site-specific blasting plans consistent with the provisions of this Plan must be submitted by the blasting contractor(s) to Enbridge for approval and review by a licensed Enbridge engineer. Should there be an existing pipeline within 50 feet of an area proposed for blasting, the blasting contractor will complete a stress calculation to propose the allowable pounds of explosive per delay interval and determine the combined stress level of each affected pipeline. These recommendations must be reviewed by Enbridge and approved before blasting can commence.

Site-Specific Blasting Plans

The blasting contractor(s) will create a site-specific blasting plan for any area determined to require blasting. Each site-specific blasting plan will include details and calculations regarding environmental variables that will be recorded closer to the time of the blast. The site-specific blasting plan will take into account environmental/site-specific conditions that exist, as well as methods, materials, and locations of all explosives to be used for blasting.

Each plan will include a pre-blast risk assessment and must include at a minimum the following:

- Blasting contractor's name, company, copy of license, qualifications;
- Seismograph company, names, equipment, and sensor location;
- Copies of all permits;
- Materials including explosive type, product name and size, weight per unit, and density;
- Methods including tamping method, blasting sequence, non-electrical initiation systems, magazine type, and storage locations;
- Site dimensions, explosive depth, distribution, maximum charge/weight per delay;
- Hole depth, diameter, pattern, and number of holes per delay;
- Dates and hours that blasting will be conducted, distance and orientation to nearest above/below grade structures, and schedule identifying when blasting would occur within each waterbody greater than 10 feet wide or within any designated coldwater fishery;
- The distance within which above/below grade structures will be affected by the blast and all structures located within that distance;
- Blasting procedures for:
 - Storing, handling, transporting, loading, and activating explosives;

- Prevention measures for misfires, flyrock, fire, noise, and stray current accidental detonation;
- Signs, flagging, flagmen, and warning signals prior to each blast;
- Pre-blast inspections;
- Locations in which the pipeline route and construction workspace:
 - Parallels or crosses an above or below grade electrical transmission line;
 - Parallels or crosses a highway or road;
 - Is within or adjacent to treed areas;
 - Approaches any potable water source, residence, building, occupied structure, or recreational area (distance to be determined by blasting contractor based on site-specific conditions and blasting specifications);
- Timing and method(s) of notification of any affected residences, buildings, and occupied structures within the distances determined by the blasting contractor's pre-blast surveys.
- Post-blast inspections; and
- Disposal methods of blasting material waste.

Pre-Blasting Requirements

Prior to blasting, the blasting contractor(s) must:

- Provide all aforementioned documentation (site-specific blasting plan, qualifications, permits, etc.);
- Make all necessary "one call" notifications 48 hours prior to blasting as required;
- Complete all necessary pre-blasting notifications, surveys, and tests for the protection of above/below grade structures; and
- Verify to Enbridge that all property owners have been notified of the impending construction.

Monitoring

During blasting operations, the blasting contractor(s) will monitor operations as specified by the approved Blasting Plan and applicable regulations. A seismograph will be provided to record peak particle velocity of all blasts in the vertical, longitudinal, and transverse directions. Seismic monitoring shall continue unless written authorization is explicitly given by an Enbridge representative.

An independent third-party contractor will monitor the seismographs and provide Blasting Log records to Enbridge. All seismographs will be deployed and calibrated per the standards outlined by the International Society of Explosive Engineers. The peak particle velocity will be measured at adjacent pipeline(s), potable water sources, and aboveground structure within the distance established by the blasting contractor.

A Blast Report will be completed immediately after each blast. A copy of all Blast Reports, and all other required documentation, will be provided to Enbridge and applicable agencies as required.

● Protection of Aboveground and Underground Structures

Where blasting is required, Enbridge will identify any municipal water mains and will consult the local water authority. Reports of identified crossings will include location by milepost, owner, and status and results of contacts with the water authority.

The blasting contractor(s) will exercise control to prevent damage to aboveground and underground structures, including buildings, pipelines, utilities, springs, and water wells. The Contractor will implement the following procedures:

- Any potable water source and/or associated pipe system within the distance established by the blasting contractor would be tested for yield and water quality before blasting. If damaged, Enbridge will repair or otherwise restore any damage, or Enbridge will compensate the owner for damages. Enbridge will provide an alternative potable water supply to the landowner until repairs occur. Locations of potable sources and/or associated pipe systems within the distance established by the blasting contractor will be indicated on Enbridge's construction alignment sheets.
- A third-party vibration monitor and an Enbridge representative Enbridge will inspect all aboveground structures within the distance established by the blasting contractor before and after blasting. In the unlikely event that damage occurs to the aboveground structure, the owner will be compensated.
- The blasting contractor(s) is responsible for the ultimate resolution of all damage claims resulting from blasting.
- Blasting will not be allowed within 15 feet of an existing pipeline, unless specifically authorized by Enbridge.
- Holes that have contained explosive material shall not be re-drilled. Holes must not be drilled where danger exists of intersecting another hole containing explosive material.
- Blasting mats or padding will be used on all shots where necessary to prevent scattering of loose rock onto adjacent property and to prevent damage to nearby structures and overhead utilities.
- Blasting cannot begin until occupants of nearby buildings, stores, residences, places of business, places of public gathering, administrators of public recreation areas, and farmers have been notified by the blasting contractor(s) sufficiently in advance to protect personnel, property, and livestock. The blasting contractor(s) must notify all such parties at least 48 hours prior to blasting; the specifics of how this notification will occur will be in the site-specific Blasting Plan.
- Blasting in or near environmentally sensitive areas such as streams and wildlife areas may include additional restrictions.
- All blasting is subject to the following limitations.

- Maximum PPV of 12.0 inches per second in any of three mutually perpendicular axes, measured at the lesser distance of the nearest facility or the edge of the permanent easement.
- Maximum diameter of explosive may be no larger than 2 inches unless approved by Enbridge.
- Maximum quantity of explosive per delay is governed by the recorded measurements as influenced by work site conditions.
- Explosive agents and ignition methods shall be approved by Enbridge.
- Clean, crushed ¼ - 3/8 inch angular stemming material is to be used in all holes.
- Holes are to be covered with a form of protective matting or cover to prevent flyrock as directed by Enbridge.
- The drilling pattern must be set in a manner to achieve smaller rock fragmentation (maximum 1 foot in diameter) in order to use as much as possible of the blasted rock as backfill material after the pipe has been padded in accordance with the specifications. The blasting contractor(s) must submit the proposed drilling pattern to Enbridge for approval.
- Under pipeline crossings and all other areas where drilling and blasting is required within 15 feet of existing facilities:
 - Enbridge approval must be given prior to blasting.
 - Drill holes must be reduced to a maximum of 2 inches or less in diameter.
 - The number of holes shot at one time is limited to three unless otherwise approved by Enbridge.
 - Appropriate delay between charges to attain desired fragmentation.
- **Protection of Personnel**

The blasting contractor(s) must include in its procedures all federal, state, county, and local safety requirements for blasting. The procedures must address, at a minimum, the following requirements:

- The employer shall permit only authorized and qualified persons to handle and use explosives.
- All explosives shall be accounted for at all times.
- Employees authorized to prepare explosive charges or conduct blasting operations shall use every reasonable precaution including, but not limited to, visual and audible warning signals, flags, or barricades, to ensure employee safety.
- All blasting activities must be conducted only during daylight hours.
- Adequate signs, warning against the use of mobile radio transmitters, are to be prominently displayed on all roads within 1,000 feet of blasting operations.

- Explosives, blasting agents, and blasting supplies that are obviously deteriorated or damaged shall not be used.
- Tamping shall be done only with wood rods or plastic tamping poles without exposed metal parts, but non-sparking metal connectors may be used for jointed poles. Violent tamping shall be avoided. The primer shall never be tamped.
- No explosives or blasting agents shall be left unattended at the blast site.
- No activity of any nature other than that which is required for loading holes with explosives shall be permitted in a blast area.
- No explosive shall be loaded or used underground in the presence of combustible gases or combustible dusts.
- No loaded holes shall be left unattended or unprotected.
- All loading and blasting activity must cease and personnel in and around the blast area will retreat to a position of safety during the approach and progress of an electrical storm irrespective of the type of explosives or initiation system used.
- Fly-rock leaving the right-of-way must be collected immediately and disposed of at disposal sites approved by Enbridge. This work shall not be left to the cleanup crew.

● Protection of Threatened and Endangered Species

The blasting contractor will be required to coordinate with Enbridge's environment staff during initial planning to determine the potential to effect threatened and endangered species, as well as to implement measures to avoid impacts to identified species.

● Lightning Hazard

A risk of accidental detonation caused by lightning strikes exists at any time the workplace is experiencing an electrical storm and there are loaded holes on site. If this hazard is judged to exist by the Enbridge representative, work will discontinue at all operations and workers will be moved to secure positions away from the loaded holes. Furthermore, workers cannot return to the work site until the storm has passed and the Enbridge representative has indicated it is clear to return.

Enbridge's blasting contractor(s) must have on site approved lightning detectors capable of measuring the degree of electrical activity as a storm approaches, and the distance from the storm to the instrument.

In-Water Blasting

Based on Enbridge’s review of the geologic conditions present along the route, there are currently locations that may require in-stream blasting. Enbridge will explore every possibility to avoid the use of blasting in these areas, and instead use other methods to fracture bedrock adequately. The extent of bedrock present on either side of the stream crossing may deem traditional methods of construction non-feasible but will depend on on-site geotechnical investigation. Using the blasting method would allow the Project to minimize the amount of time required working in the stream and overall disturbance to the feature.

At such locations, the blasting contractor(s) will furnish the necessary labor and equipment to employ best management practices required by regulatory agencies to protect the feature. Following any blasting activities, stream channels will be restored to near pre-construction contours, alignment, and conditions through post-construction restoration activities. Enbridge will monitor this crossing following construction as part of its Post Construction Monitoring Plan.

Table 2 shows list of identified stream crossings along the preferred route that may require in-stream blasting. In-water blasting locations are subject to change based on on-site geotechnical investigation.

Table 2 – Potential In-Water Blasting Locations

Crossing	Crossing Milepost
Unnamed Creek	20.4
Unnamed Creek	21.49
Unnamed Creek	27.77
Unnamed Creek	28.21
Unnamed Creek	28.48
Unnamed Creek	38.36
Unnamed Creek	38.86
Vaughn Creek	Vaughn Creek
Unnamed Creek	39.78

Storage Requirements

Explosives and related materials shall be stored in approved facilities required under the applicable provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 55, Commerce in Explosives. Additional storage provisions include, but are not limited to the following:

- Blasting caps, electric blasting caps, detonating primers, and primed cartridges shall not be stored in the same magazine with other explosives or blasting agents.
- Smoking and open flames shall not be permitted within 50 feet of explosives and detonator storage magazine.
- Explosives not being used shall be kept in a locked magazine, unavailable to persons not authorized to handle them. The employer shall maintain an inventory and use record of all explosives. Appropriate authorities shall be notified of any loss, theft, or unauthorized entry into

a magazine. Magazines will be marked in minimum 3-inch high letters with the words “DANGER – EXPLOSIVES” prominently displayed on all sides and roof.

- When explosive materials are taken from the storage magazine, they must be kept in the original containers until used. Small quantities of explosive materials may be placed in day boxes, powder chests, or detonator boxes. Any explosive material not used at the blast site must be returned to the storage magazine and replaced in the original container as soon as possible.

- **Contact Us**

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The logo for Lake Superior Consulting features a stylized white graphic of a building or structure on the left, followed by the text "LAKE SUPERIOR" in a large, serif font, and "CONSULTING" in a smaller, sans-serif font below it. The entire logo is set against a gold-colored background.

LAKE SUPERIOR
CONSULTING





Line 5 Wisconsin Segment Relocation Project

Ashland, Bayfield, Douglas, and Iron Counties Wisconsin

Water Resources Application for Project Permits

Environmental Impact Report

Revised August 2020

EIR Attachment F

Invasive Species List

Enbridge
Noxious and Invasive Species

County	Species	Noxious Common Name	Scientific Name	Regulatory Classification
WISCONSIN				
Statewide	Animal	Feral domestic swine	<i>Sus domestica</i>	Prohibited
		Russian boar & other wild swine	<i>Sus scrofa</i>	Prohibited
Statewide	Aquatic Fish and Invertebrate Invasives	Faucet snail	<i>Bithynia tentaculata</i>	Prohibited
		Asian clam	<i>Corbicula fluminea</i>	Prohibited
		Cylindro (cyanobacteria)	<i>Cylindrospermopsis raciborskii</i>	Prohibited
		Water flea	<i>Daphnia lumholzi</i>	Prohibited
		Didymo or rock snot	<i>Didymosphenia geminata</i>	Prohibited
		Chinese mitten crabs	<i>Eriocheir sinensis</i>	Prohibited
		Bloody shrimp	<i>Hemimysis anomala</i>	Prohibited
		Starry stonewort (alga)	<i>Nitellopsis obtusa</i>	Prohibited
		Red swamp crayfish	<i>Procambarus clarkii</i>	Prohibited
		Golden alga	<i>Prymnesium parvum</i>	Prohibited
		Novel cyanobacterial epiphyte of the order Stigonematales linked with avian vacuolar myelinopathy	<i>Stigonematales spp.</i>	Prohibited
Ashland Co		Fishhook water flea	<i>Cercopagis pengoi</i>	Prohibited
		Zebra mussel	<i>Dreissena polymorpha</i>	Restricted
		Quagga mussel	<i>Dreissena rostriformis</i>	Prohibited
		New Zealand mud snail	<i>Potamopyrgus antipodarum</i>	Prohibited
Ashland Co, Iron Co		Spiny water flea	<i>Bythotrephes cederstroemi</i>	Prohibited
		Chinese mystery snail	<i>Cipangopaludina chinensis</i>	Restricted
		Rusty crayfish	<i>Orconectes rusticus</i>	Restricted
Statewide	Aquatic species	Killer algae	<i>Caulerpa taxifolia</i> (Vahl) C. Agardh1	NW, Prohibited
		Water hyacinth, floating	<i>Eichhornia crassipes</i>	Prohibited
		Anchored waterhyacinth	<i>Eichhornia azurea</i> (Sw.) Kunth	NW, Prohibited
		Floating marsh pennywort	<i>Hydrocotyle ranunculoides</i>	Prohibited
		Indian swampweed	<i>Hygraphila polysperma</i>	Prohibited
		Water spinach, swamp morning-glory	<i>Ipomoea aquatica</i>	Prohibited
		Asian marshweed	<i>Limnophila sessiliflora</i>	Prohibited
		Malaysian trumpet snail	<i>Melanoides tuberculata</i>	Prohibited
		Spiny naiad	<i>Najas marina</i>	Restricted
		Java waterdropwort or Vietnamese parsley	<i>Oenanthe javanica</i>	Prohibited
		duck-lettuce	<i>Ottelia alismoides</i> (L.) Pers.	NW, Prohibited
		Water lettuce	<i>Pistia stratiotes</i>	Prohibited
		Giant salvinia	<i>Salvinia molesta</i>	Prohibited
		Sterlet	<i>Acipenser ruthenus</i>	Restricted
		Asiatic clam	<i>Alosa pseudoharengus</i>	Restricted
		Mosquito fern	<i>Azolla pinnata</i>	Prohibited
		Goldfish	<i>Carassius auratus</i>	Restricted
		Snakehead family	<i>Channidae</i>	Prohibited
		Japanese trapdoor snail or Japanese mystery snail	<i>Cipangopaludina japonica</i>	Restricted
		Grass carp	<i>Ctenopharyngodon idella</i>	Prohibited
		Red shiner	<i>Cyprinella lutrensis</i>	Prohibited
		Common carp, Koi carp	<i>Cyprinus carpio</i>	Restricted
		Killer Shrimp	<i>Dikerogammarus villosus</i>	Prohibited
		Western mosquitofish	<i>Gambusia affinis</i>	Restricted
		Eastern mosquitofish	<i>Gambusia holbrooki</i>	Restricted
		Three-spine stickleback	<i>Gasterosteus aculeatus</i>	Restricted
		Mudmat	<i>Glossostigma cleistanthum</i>	Prohibited
		Redear sunfish	<i>Lepomis microlophus</i>	Restricted
		Ide	<i>Leuciscus idus</i>	Restricted
		Golden mussel	<i>Limnoperna fortunei</i>	Prohibited
		Weather loach	<i>Misgurnus anguillicaudatus</i>	Restricted
		White perch	<i>Morone americana</i>	Restricted
		Black carp	<i>Mylopharyngodon piceus</i>	Prohibited
		Forget-me-not, Aquatic forget-me-not	<i>Myosotis scorpiodes</i>	Restricted
		Chinese hi-fin banded shark	<i>Myxocyprinus asiaticus</i>	Restricted
		Sacred Lotus	<i>Nelumbo nucifera</i>	Prohibited
		Pink salmon	<i>Oncorhynchus gorbuscha</i>	Restricted
		Coho salmon	<i>Oncorhynchus kisutch</i>	Restricted
		Rainbow trout	<i>Oncorhynchus mykiss</i>	Restricted
		Chinook salmon	<i>Oncorhynchus tshawytscha</i>	Restricted
		Tubenose Goby	<i>Proterorhinus marmoratus</i>	Restricted
		Bitterling	<i>Rhodeus spp.</i>	Restricted
		Atlantic salmon	<i>Salmo salar</i>	Restricted
		Brown trout	<i>Salmo trutta</i>	Restricted
		Arctic char	<i>Salvelinus alpinus</i>	Restricted
		Tiger trout	<i>Salvelinus fontinalis x Salmo trutta</i>	Restricted
		Giant Salvinia	<i>Salvinia herzogii</i>	Prohibited
		Rudd	<i>Scardinius erythrophthalmus</i>	Prohibited
		Water Soldiers	<i>Stratiotes aloides</i>	Prohibited
		Tilapia	<i>Tilapia spp.</i>	Restricted
		Tench	<i>Tinca tinca</i>	Prohibited
		Ulva species, including species previously known as Enteromorpha species	<i>Ulva (Enteromorpha) species</i>	Prohibited
		European valve snail	<i>Valvata piscinalis</i>	Restricted
Ashland Co		Ruffe	<i>Gymnocephalus cernuus</i>	Restricted
		Silver carp	<i>Hypophthalmichthys molitrix</i>	Prohibited
		Bighead carp	<i>Hypophthalmichthys nobilis</i>	Prohibited
		Round goby	<i>Neogobius melanostomus</i>	Restricted
		Sea lamprey	<i>Petromyzon marinus</i>	Restricted

**Enbridge
Noxious and Invasive Species**

County	Species	Noxious Common Name	Scientific Name	Regulatory Classification
		Zander	<i>Sander lucioperca</i>	Prohibited
Iron Co		Rainbow smelt	<i>Osmerus mordax</i>	Restricted
Ashland Co, Iron Co		Banded mystery snail	<i>Viviparus georgianus</i>	Restricted
		Freshwater jellyfish		
Statewide	Aquatic Weed	Fanwort, Carolina Fanwort	<i>Cabomba caroliniana</i>	Prohibited
		Australian swamp crop or New Zealand pygmyweed	<i>Crassula helmsii</i>	Prohibited
		European frog-bit	<i>Hydrocharis morsus-ranae</i>	Prohibited
		Oxygen-weed, African elodea or African waterweed	<i>Lagarosiphon major</i>	Prohibited
		Parrot feather	<i>Myriophyllum aquaticum</i>	Prohibited
		Brittle naiad, or lesser, bushy, slender, spiny or minor naiad or waternymph	<i>Najas minor</i>	Prohibited
		Yellow water heart, floating heart	<i>Nymphoides peltata</i>	Prohibited
		Water chestnut	<i>Trapa natans</i>	Prohibited
		Brazilian waterweed or wide-leaf anacharis	<i>Egeria densa</i>	Prohibited
		hydrilla	<i>Hydrilla verticillata (L. f.) Royle</i>	NW, Prohibited
Ashland Co, Iron Co		Eurasian watermilfoil	<i>Myriophyllum spicatum L.</i>	Restricted
		Curly-leaf pondweed	<i>Potamogeton crispus</i>	Restricted
Statewide	Bird	Monk or Quaker parakeet or parrot	<i>Myiopsitta monachus</i>	Prohibited
Statewide	Forbs	Japanese chaff flower	<i>Achyranthes japonica</i>	Prohibited
		Wormwood	<i>Artemisia absinthium</i>	Restricted
		Narrow leaf bittercress	<i>Cardamine impatiens</i>	Prohibited
		Diffuse knapweed	<i>Centaurea diffusa</i>	Prohibited
		Brown knapweed, Black knapweed	<i>Centaurea jacea, Centaurea nigra</i>	Restricted
		Tyrol knapweed	<i>Centaurea nigrescens</i>	Restricted
		Russian knapweed	<i>Centaurea repens</i>	Prohibited
		Lily-of-the-valley	<i>Convallaria majalis</i>	
		field bindweed, creeping Jenny	<i>Convolvulus arvensis L.</i>	NW
		Crown vetch	<i>Coronilla varia</i>	Restricted
		Cheat grass	<i>Crepis tectorum</i>	
		wild carrot; Queen Anne's-lace	<i>Daucus carota</i>	
		Bohemian knotweed	<i>Fallopia x bohemicum or F. x bohémica or Polygonum x bohemicum</i>	Prohibited
		Queen of the meadow	<i>Filipendula ulmaria</i>	Restricted
		White bedstraw	<i>Galium mollugo</i>	Restricted
		Creeping Charlie	<i>Glechoma hederacea</i>	
		Orange daylily	<i>Hemerocallis fulva</i>	
		Orange hawkweed	<i>Hieracium aurantiacum</i>	
		Yellow hawkweed	<i>Hieracium caespitosum</i>	
		St. John's wort	<i>Hypericum perforatum</i>	
		Balfour's touch-me-not	<i>Impatiens balfourii</i>	Restricted
		Policeman's Helmet	<i>Impatiens glandulifera</i>	Prohibited
		Field scabiosa	<i>Knautia arvensis</i>	Restricted
		Motherwort	<i>Leonurus cardiaca</i>	
		Dalmatian toadflax	<i>Linaria dalmatica</i>	Prohibited/ Restricted
		Bird's-foot trefoil	<i>Lotus corniculatus</i>	
		Moneywort	<i>Lysimachia nummularia (or L. nummelaria)</i>	Restricted
		Garden yellow loosestrife	<i>Lysimachia vulgaris</i>	Restricted
		Wanded looserife	<i>Lythrum virgatum</i>	Prohibited
		White sweet clover	<i>Melilotus alba</i>	
		Yellow sweet clover	<i>Melilotus officinalis</i>	
		woodland forget-me-not	<i>Myosotis sylvatica (or M. sylvaticum)</i>	Restricted
		Butterfly Dock	<i>Petasites hybridus</i>	Prohibited
		Scarlet pimpernel or Burnet saxifrage	<i>Pimpinella saxifraga</i>	Restricted
		Lesser celandine	<i>Ranunculus ficaria</i>	Prohibited
		Sheep sorrel	<i>Rumex acetosella</i>	
		Climbing nightshade	<i>Solanum dulcamara</i>	
		Seaside goldenrod	<i>Solidago sempervirens</i>	Prohibited/ Restricted
		Colt's foot	<i>Tussilago farfara</i>	Prohibited
		Common periwinkle	<i>Vinca minor</i>	
		Garden heliotrope or Valerian	<i>Valeriana officinalis</i>	Restricted
Iron Co		Yellow iris	<i>Iris pseudacorus</i>	Restricted
Statewide	Forest	Soapwort	<i>Saponaria officinalis</i>	
		Red clover	<i>Trifolium pratense</i>	
		White clover	<i>Trifolium repens</i>	
Statewide	Fungus	Thousand cankers disease of walnut	<i>Geosmithia morbida</i>	Prohibited
	Fungus	Sudden oak death pathogen	<i>Phytophthora ramorum</i>	Prohibited
	Fungus	White-nose syndrome fungal pathogen	<i>Pseudogymnoascus destructans</i>	Prohibited
Statewide	Grass	Giant reed	<i>Arundo donax</i>	Prohibited
		Smooth brome	<i>Bromus inermis</i>	
		Quackgrass	<i>Elytrigia repens</i>	
		Tall fescue	<i>Festuca arundinacea</i>	
		Wavy leaf basket grass	<i>Oplismenus hirtellus ssp. Undulatifolius</i>	Prohibited
		Reed canary grass (nn)	<i>Phalaris arundinacea (nn)</i>	
		Common reed grass (nn)	<i>Phragmites australis (nn)</i>	
		Canada bluegrass	<i>Poa compressa</i>	
		Kentucky bluegrass	<i>Poa pratensis</i>	
		Johnson grass	<i>Sorghum halepense</i>	Prohibited
		Medusahead	<i>Taeniatherum caput-medusae</i>	Prohibited
		Southern cattail	<i>Typha domingensis</i>	Prohibited
		Graceful cattail	<i>Typha laxmannii</i>	Prohibited

Enbridge
Noxious and Invasive Species

County	Species	Noxious Common Name	Scientific Name	Regulatory Classification
		ribbon grass or gardener's garters and other ornamental variegated varieties and cultivars.	<i>Phalaris arundinacea var. picta</i>	Restricted
Statewide	Insect	Hemlock woolly adelgid	<i>Adelges tsugae</i>	Prohibited
		Emerald ash borer	<i>Agrilus planipennis</i>	Restricted
		Jumping worm	<i>Amyntas</i> or <i>Amyntus species</i>	Restricted
		Asian longhorned beetle	<i>Anoplophora glabripennis</i>	Prohibited
		Mountain Pine Beetle	<i>Dendroctonus ponderosae</i>	Prohibited
		European Gypsy moth	<i>Lymantria dispar</i>	Restricted
		Asian Gypsy moth	<i>Lymantria dispar (Asian race)</i>	Prohibited
		Walnut twig beetle	<i>Pityophthorus juglandis</i>	Prohibited
Statewide	plant	goutweed; bishops weed; (also called snow-on-the-mountain). Bishop's goutweed	<i>Aegopodium podagraria</i>	
		elecampane	<i>Inula helenium</i>	
		common reed; giant reed-grass	<i>Phragmites australis(=Phragmites communis)</i>	
		burnet-saxifrage	<i>Pimpinella saxifraga</i>	
		Woods bluegrass	<i>Poa nemoralis</i>	
		Grecian foxglove	<i>Digitalis lanata</i>	Prohibited
		Indian yam	<i>Dioscorea oppositifolia</i>	Prohibited
		Sawtooth oak	<i>Quercus acutissima</i>	Prohibited
		Seaside goldenrod	<i>Solidago sempervirens</i>	Prohibited/ Restricted
Statewide	Shrub	Japanese barberry	<i>Berberis thunbergii</i>	Restricted
		Common barberry	<i>Berberis vulgaris</i>	Prohibited
		Siberian peashrub	<i>Caragana arborescens</i>	Restricted
		Burning bush	<i>Euonymus alatus</i>	Restricted
		Common, european buckthorn	<i>Rhamnus cathartica</i>	Restricted
		Rose acacia or Bristly locust	<i>Robinia hispida</i>	Restricted
		Himalayan blackberry	<i>Rubus armeniacus</i>	Prohibited
Statewide	Terrestrial Weed	Tree of heaven	<i>Ailanthus altissima</i>	Restricted
		Garlic mustard	<i>Alliaria petiolata</i>	Restricted
		Porcelain berry	<i>Ampelopsis brevipedunculata</i>	Prohibited
		Wild chervil	<i>Anthriscus sylvestris</i>	Prohibited/ Restricted
		Common burdock	<i>Arctium minus</i>	
		Hill mustard	<i>Bunias orientalis</i>	Prohibited/ Restricted
		Creeping bellflower	<i>Campanula rapunculoides</i>	Restricted
		Plumeless thistle	<i>Carduus acanthoides</i>	Restricted
		Musk thistle or Nodding thistle	<i>Carduus nutans</i>	Restricted
		Oriental bittersweet	<i>Celastrus orbiculatus</i>	Restricted
		Spotted knapweed	<i>Centaurea biebersteinii, Centaurea maculosa or Centaurea stoebe</i>	Restricted
		Yellow star thistle	<i>Centaurea solstitialis</i>	Prohibited
		Celandine	<i>Chelidonium majus</i>	Restricted
		Canada thistle	<i>Cirsium arvense (L.) Scop.</i>	NW, Restricted
		swamp thistle, European marsh thistle	<i>Cirsium palustre</i>	Prohibited/ Restricted
		poison-hemlock	<i>Conium maculatum</i>	Prohibited/ Restricted
		Hound's tongue	<i>Cynoglossum officinale</i>	Restricted
		Scotch broom	<i>Cytisus scoparius</i>	Prohibited
		Chinese yam	<i>Dioscorea batatas or Dioscorea polystacha</i>	Prohibited
		Cut-leaved teasel	<i>Dipsacus laciniatus</i>	Restricted
		Common teasel	<i>Dipsacus sylvestris or Dipsacus fullonum</i>	Restricted
		Russian olive	<i>Elaeagnus angustifolia</i>	Restricted
		Autumn olive	<i>Elaeagnus umbellata</i>	Restricted
		Helleborine orchid	<i>Epipactis helleborine</i>	Restricted
		Hairy willow herb	<i>Epilobium hirsutum</i>	Prohibited/ Restricted
		Cypress spurge	<i>Euphorbia cyparissias</i>	Restricted
		Leafy spurge	<i>Euphorbia esula L.</i>	NW, Restricted
		Japanese knotweed	<i>Fallopia japonica or Polygonum cuspidatum</i>	Restricted
		Giant knotweed	<i>Fallopia sachalinensis or Polygonum sachalinense</i>	Prohibited
		Hemp nettle, brittlestem hemp nettle	<i>Galeopsis tetrahit</i>	Restricted
		Tall or reed mannagrass	<i>Glyceria maxima</i>	Prohibited/ Restricted
		Giant hogweed	<i>Heracleum mantegazzianum</i>	Prohibited
		Perennial peppergrass or broadleaved pepperweed	<i>Lepidium latifolium</i>	Prohibited
		Sericea or Chinese lespedeza	<i>Lespedeza cuneata or Lespedeza sericea</i>	Prohibited
		Lyme grass or sand ryegrass	<i>Leymus arenarius or Elymus arenarius</i>	Prohibited/ Restricted
		Japanese honeysuckle	<i>Lonicera japonica</i>	Prohibited
		Amur honeysuckle	<i>Lonicera maackii</i>	Prohibited/ Restricted
		Morrow's honeysuckle	<i>Lonicera morrowii</i>	Restricted
		Tartarian honeysuckle	<i>Lonicera tatarica</i>	Restricted
		Bell's or showy bush honeysuckle	<i>Lonicera x bella</i>	Restricted
		Japanese stilt grass	<i>Microstegium vimineum</i>	Prohibited
		wild parsnip	<i>Pastinaca sativa</i>	Restricted
		Princess tree	<i>Paulownia tomentosa</i>	Prohibited
		Mile-a-minute vine	<i>Polygonum perfoliatum or Persicaria perfoliata</i>	Prohibited
		Kudzu	<i>Pueraria montana or P. lobata</i>	Prohibited
		Glossy buckthorn	<i>Rhamnus frangula or Frangula alnus</i>	Restricted
		Multiflora rose	<i>Rosa multiflora Thunb.</i>	NUW, Restricted species
		Wineberry or wine raspberry	<i>Rubus phoenicalasius</i>	Prohibited
		Tansy	<i>Tanacetum vulgare</i>	Restricted
		Spreading hedgeparsley	<i>Torilis arvensis</i>	Prohibited
		Japanese hedgeparsley or erect hedgeparsley	<i>Torilis japonica</i>	Prohibited/ Restricted
		Narrow-leaf cattail	<i>Typha angustifolia</i>	Restricted
		Cattail, hybrid	<i>Typha x glauca</i>	Restricted
		Black or Louise's swallow-wort	<i>Vincetoxicum nigrum or Cynanchum louiseae</i>	Prohibited/ Restricted

**Enbridge
Noxious and Invasive Species**

County	Species	Noxious Common Name	Scientific Name	Regulatory Classification
		Pale or European swallow-wort	<i>Vincetoxicum rossicum</i> or <i>Cynanchum rossicum</i>	Prohibited
Ashland Co		Japanese hops	<i>Humulus japonicus</i>	Prohibited/ Restricted
		purple loosestrife	<i>Lythrum salicaria</i> , <i>Lythrum L.</i>	NUW, Restricted species
		Phragmites or Common reed non-native ecotype	<i>Phragmites australis non-native ecotype</i>	Prohibited/ Restricted
		Japanese knotweed	<i>Polygonum cuspidatum</i>	
Statewide	Tree	Norway maple	<i>Acer platanoides</i>	
		Amur maple	<i>Acer tataricum subsp. Ginnala</i>	Restricted
		Black (European) alder	<i>Alnus glutinosa</i>	Restricted
		White mulberry	<i>Morus alba</i>	Restricted
		Amur cork tree	<i>Phellodendron amurense</i>	Prohibited
		Scotch pine	<i>Pinus sylvestris</i>	
		White poplar	<i>Populus alba</i>	Restricted
		Black locust	<i>Robinia pseudoacacia</i>	Restricted
		Siberian elm	<i>Ulmus pumila</i>	Restricted
Statewide	Vine	Chocolate vine, Fiveleaf akebia	<i>Akebia quinata</i>	Prohibited
		Asian loeseneri bittersweet	<i>Celastrus loeseneri</i>	Prohibited
		Japanese/ Chinese wisteria	<i>Wisteria floribunda/ sinensis</i>	Prohibited
Statewide	Wetland Invasive species	Dame's rocket	<i>Hesperis matronalis</i>	Restricted
		Nutria	<i>Myocastor coypus</i>	Prohibited
		Hawaii arrowhead	<i>Sagittaria sagittifolia</i>	Prohibited
Ashland Co		Flowering rush	<i>Butomus umbellatus</i>	Restricted

Abbreviations:
 NW = Noxious Weed
 NUW = Nuisance Weed



Line 5 Wisconsin Segment Relocation Project

Ashland, Bayfield, Douglas, and Iron Counties Wisconsin

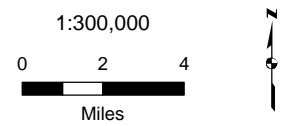
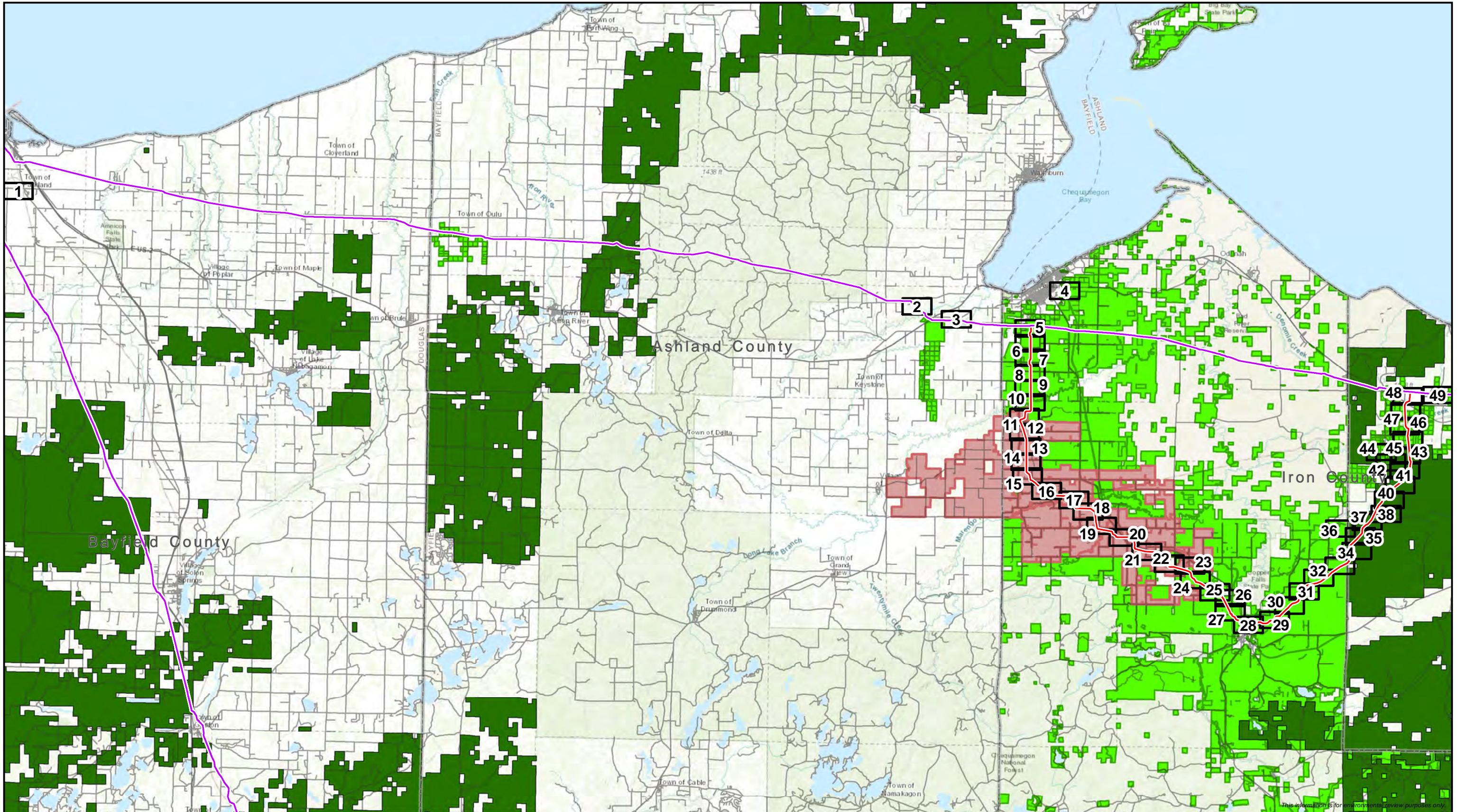
Water Resources Application for Project Permits

Environmental Impact Report

Revised August 2020

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Land Cover Data

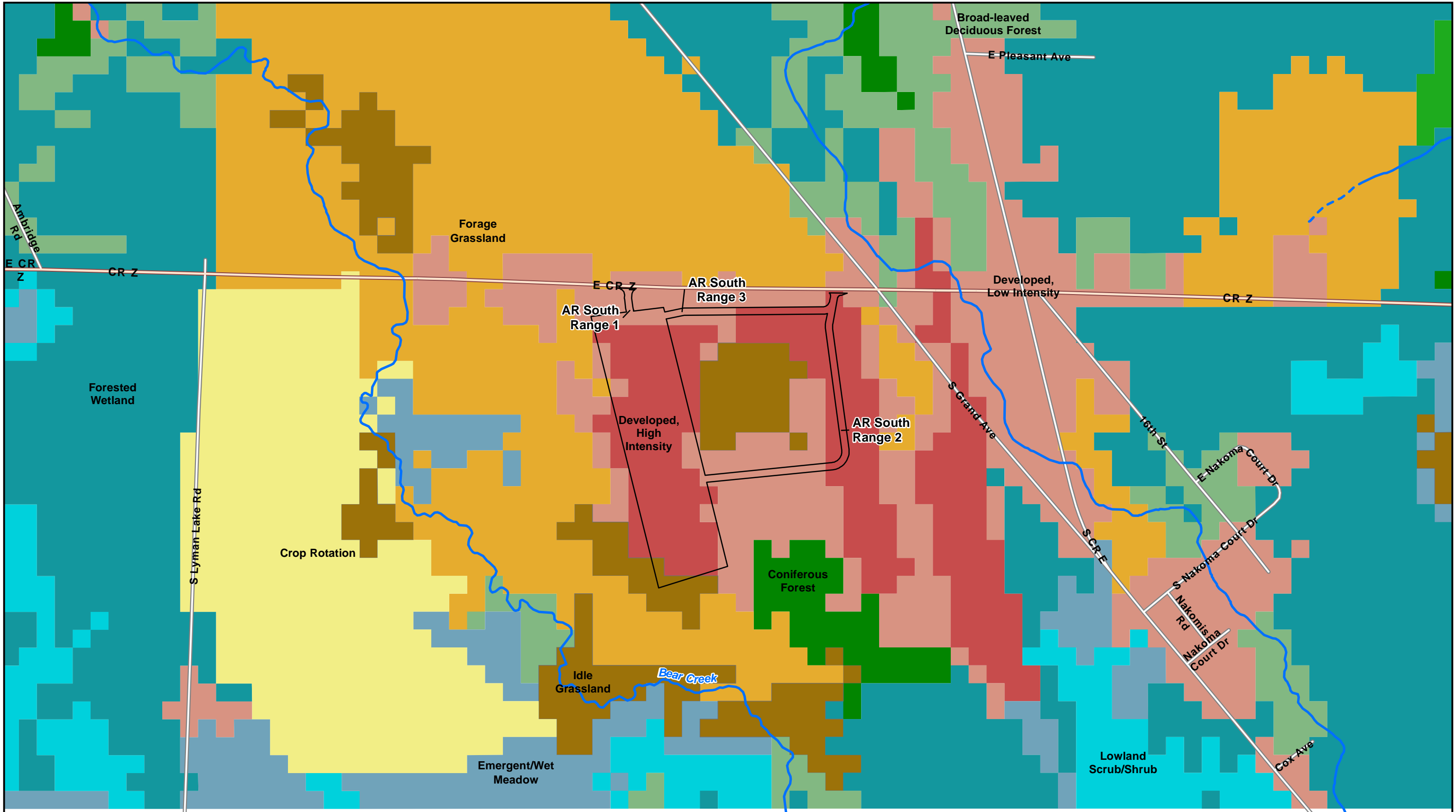


- Proposed Centerline
- Existing Enbridge Pipeline
- Page Extent
- Agricultural Enterprise Area
- Farmland Preservation Area
- County Forest

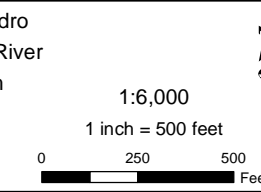


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Wisconsin Land Use/Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy
 Bayfield, Ashland, and Iron Counties, Wisconsin



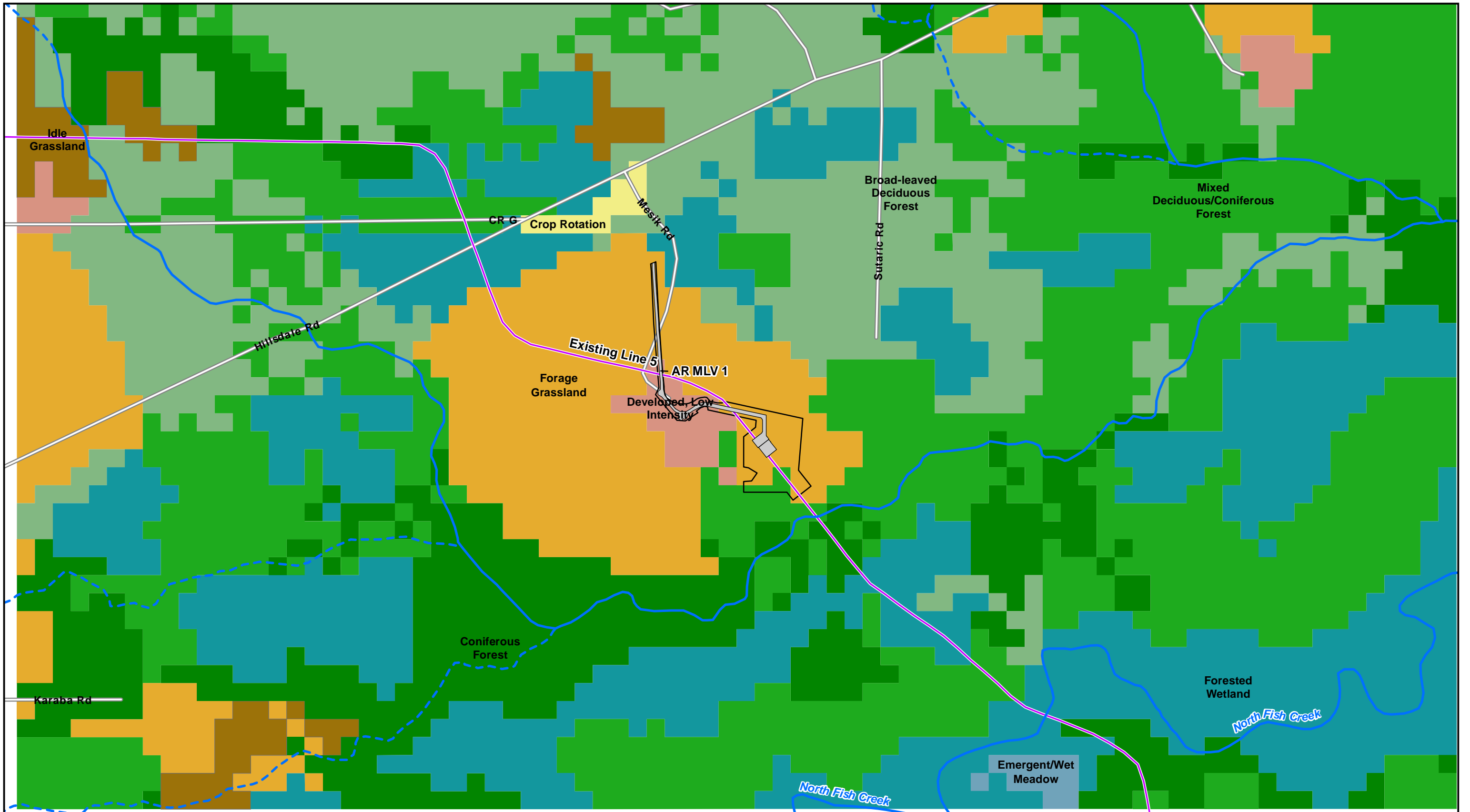


○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Lowland Scrub/Shrub	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Emergent/Wet Meadow	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation	■ Developed, High Intensity	
	■ Idle Grassland		

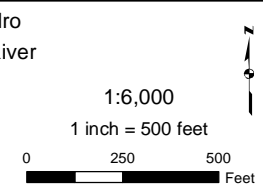


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 Wisconsin Land Use / Land Cover
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 Enbridge Energy, L.P.
 Douglas County, Wisconsin



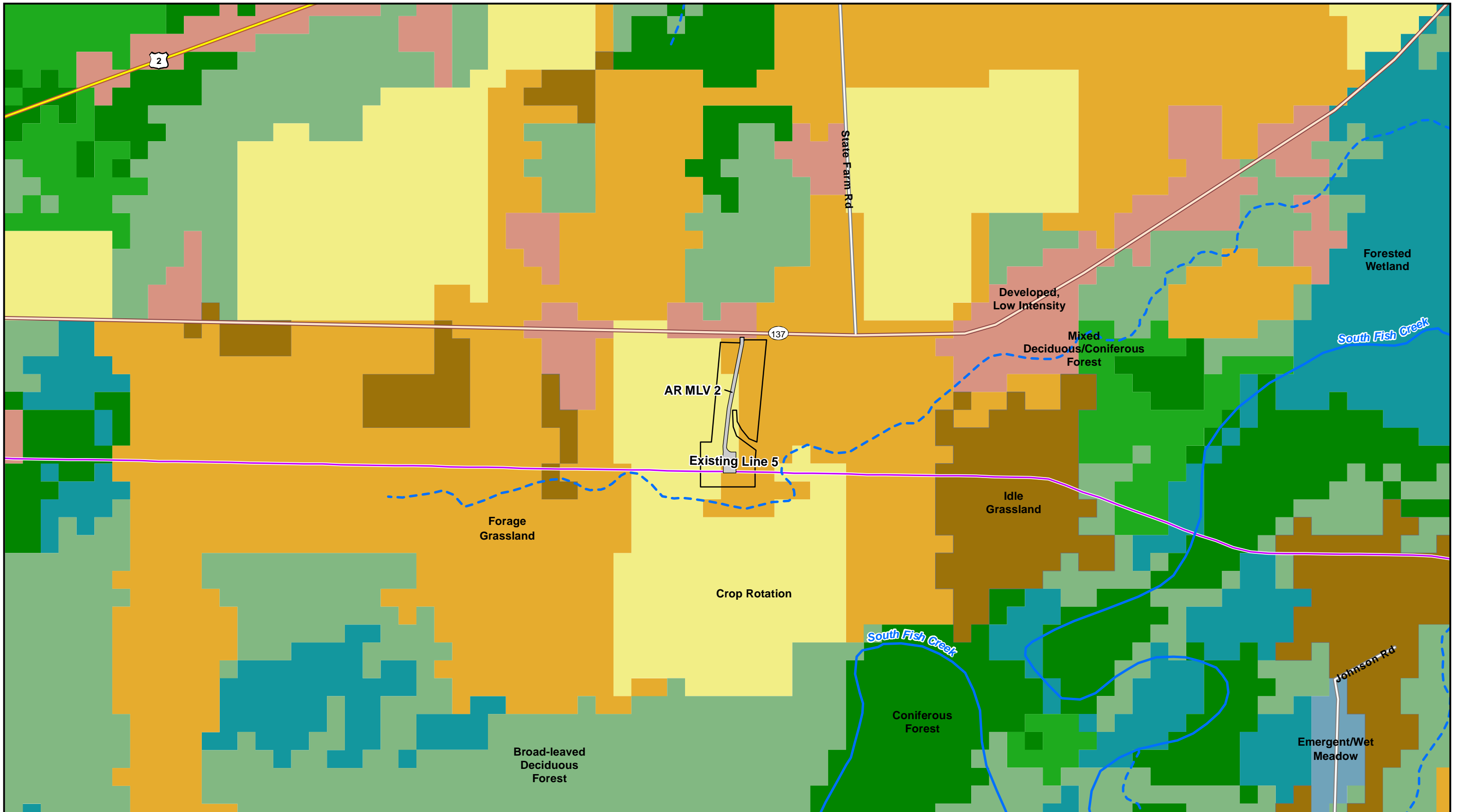


Existing Enbridge Pipeline	Broad-leaved Deciduous Forest	Idle Grassland	Wisconsin DNR 24K Hydro
Proposed Centerline	Coniferous Forest	Forested Wetland	Perennial Stream/River
Mainline Valve and Road	Mixed Deciduous/Coniferous Forest	Emergent/Wet Meadow	Intermittent Stream
Workspace (LOD)	Forage Grassland	Developed, Low Intensity	
Conservation Easement	Crop Rotation		

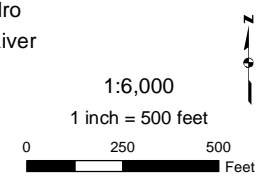


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 Wisconsin Land Use / Land Cover
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 Enbridge Energy, L.P.
 Bayfield County, Wisconsin



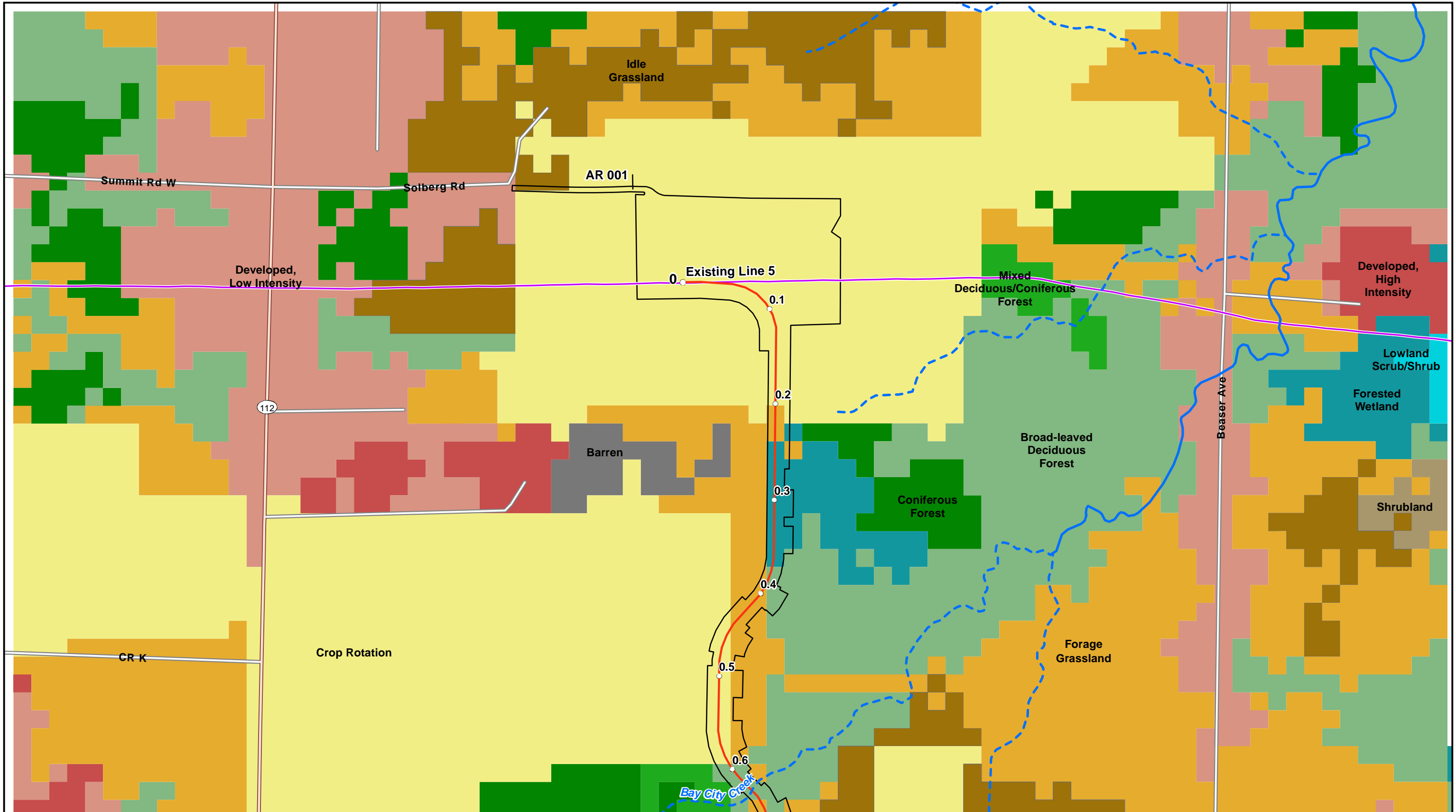


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Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Bayfield County, Wisconsin





Existing Enbridge Pipeline	Broad-leaved Deciduous Forest	Forested Wetland	Wisconsin DNR 24K Hydro
Proposed Centerline	Coniferous Forest	Lowland Scrub/Shrub	Perennial Stream/River
Mainline Valve and Road	Mixed Deciduous/Coniferous Forest	Developed, Low Intensity	Intermittent Stream
Workspace (LOD)	Forage Grassland	Developed, High Intensity	
Conservation Easement	Crop Rotation	Barren	
	Idle Grassland	Shrubland	

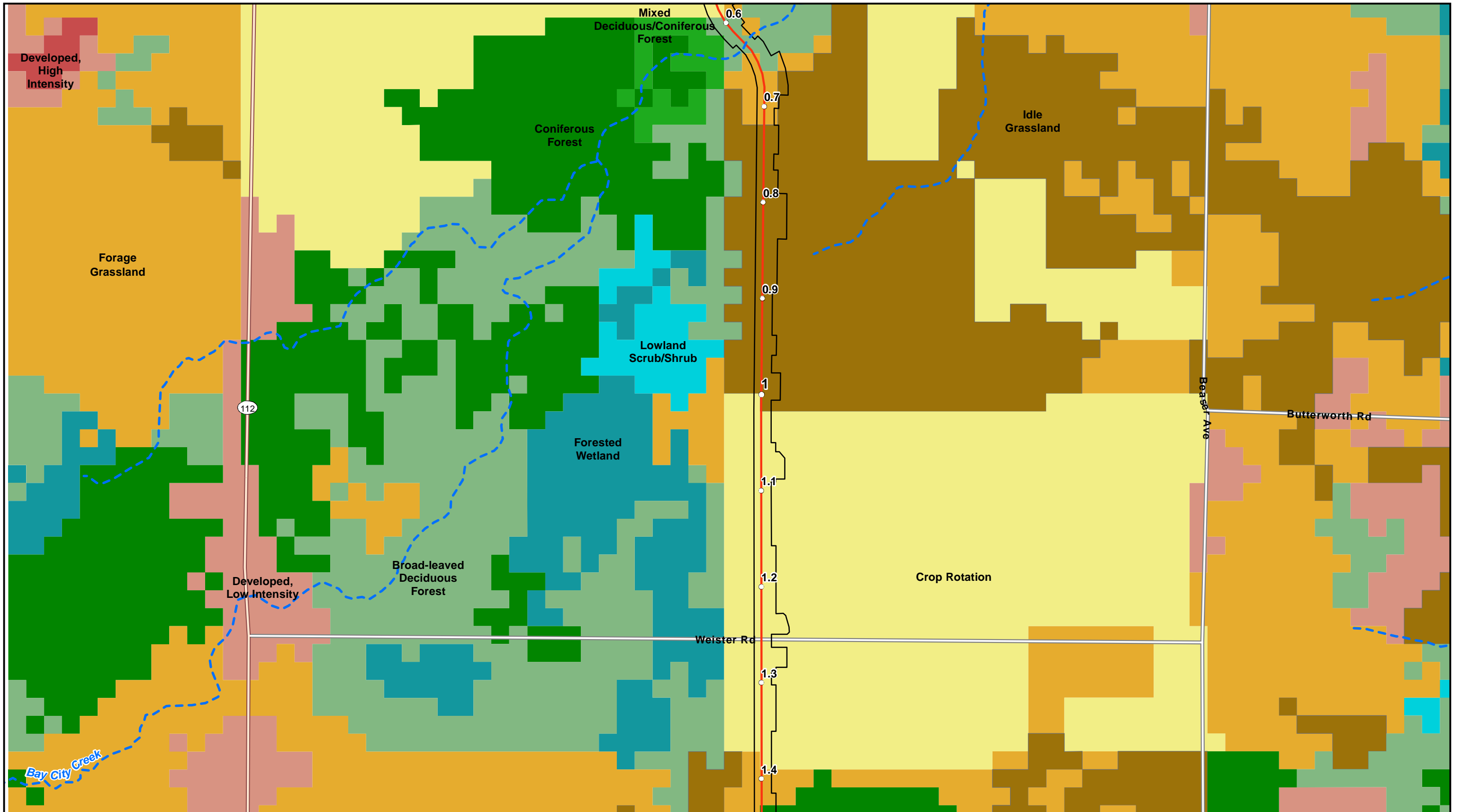
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1 inch = 500 feet

0 250 500 Feet



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Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.
Ashland County, Wisconsin





○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
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1 inch = 500 feet

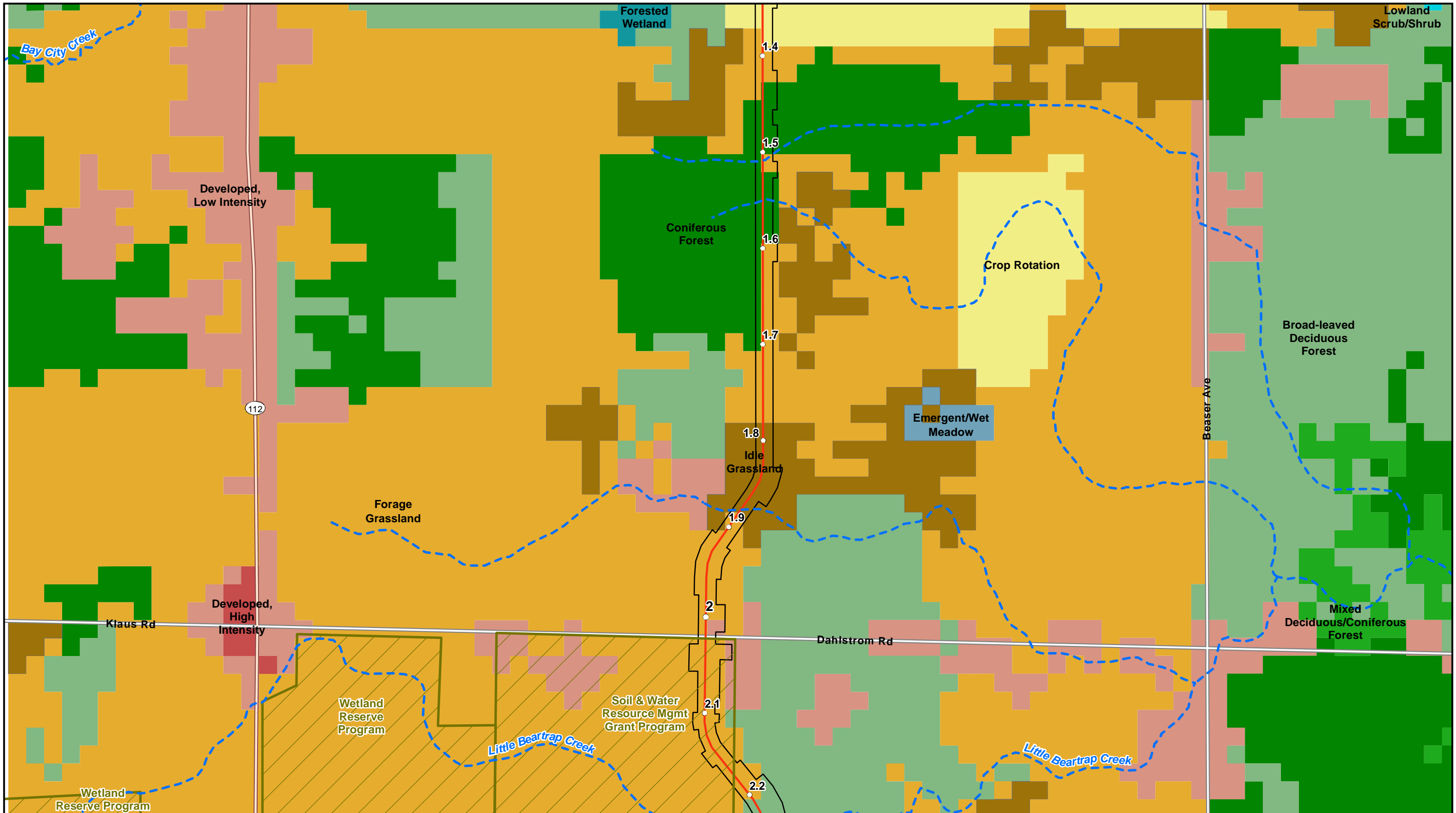
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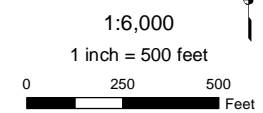
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 Ashland County, Wisconsin

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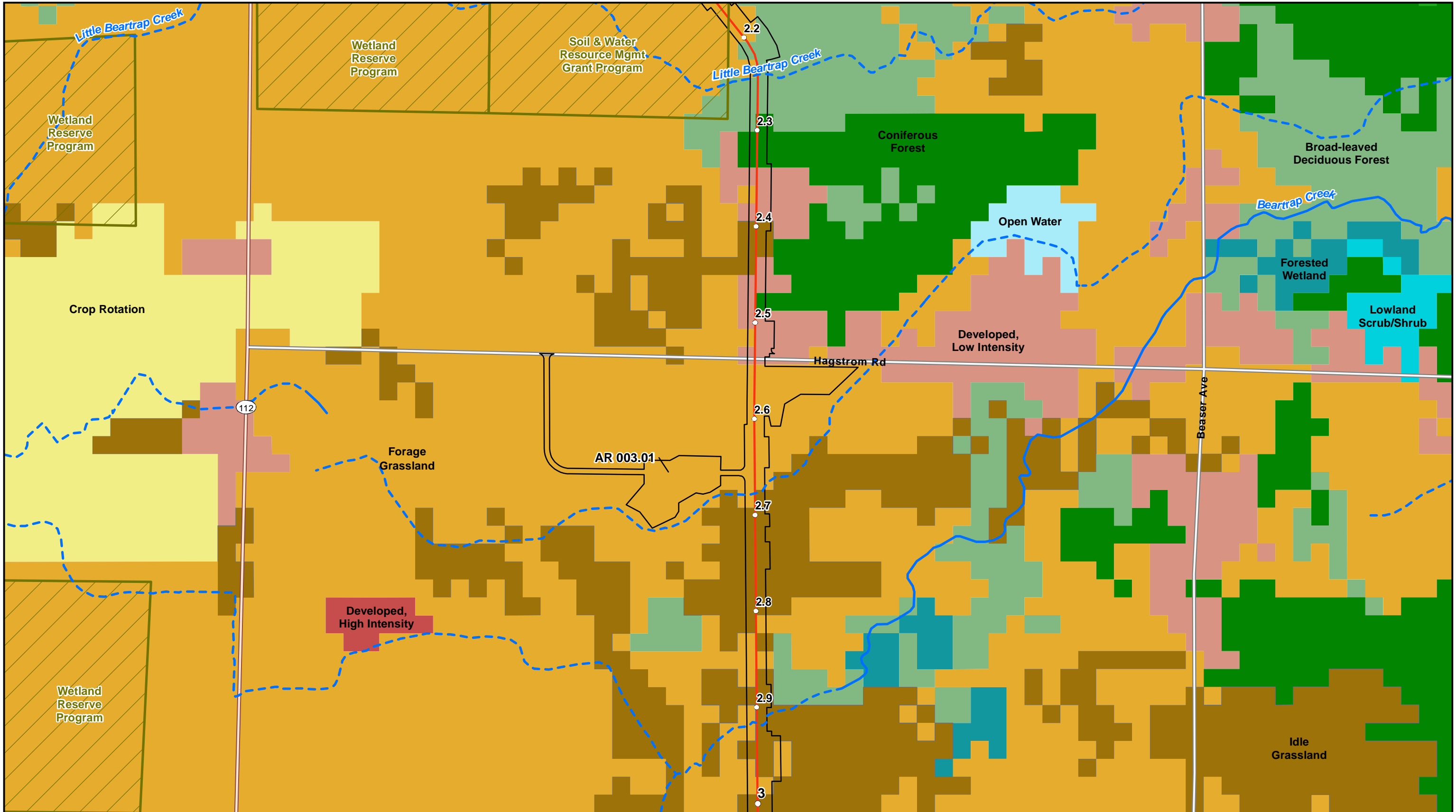


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■ Conservation Easement	■ Crop Rotation	■ Developed, High Intensity	
	■ Idle Grassland		

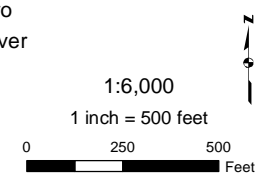


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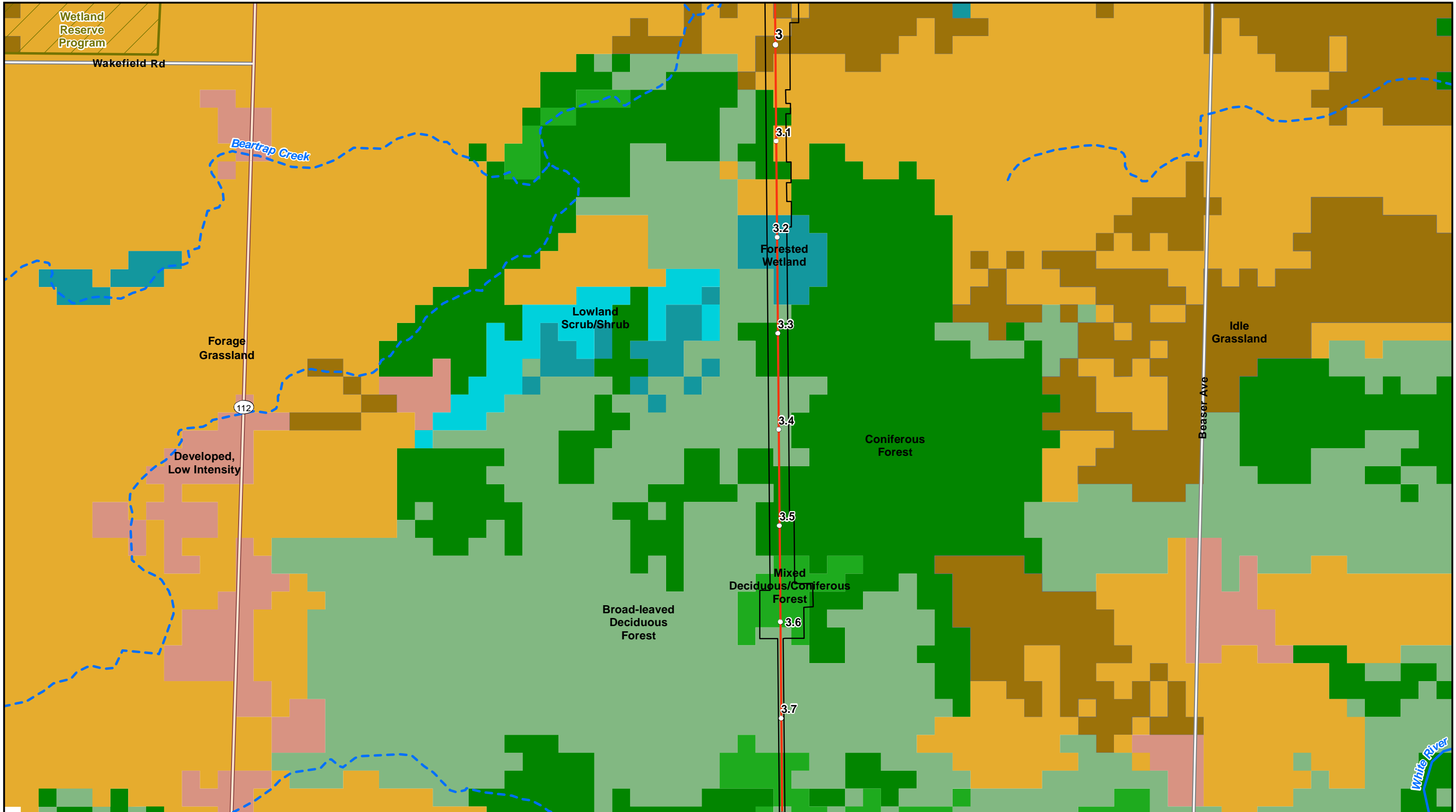


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□ Workspace (LOD)	■ Forage Grassland	■ Developed, High Intensity	
■ Conservation Easement	■ Crop Rotation	■ Open Water	
	■ Idle Grassland		



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 Ashland County, Wisconsin

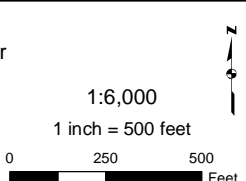




- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement

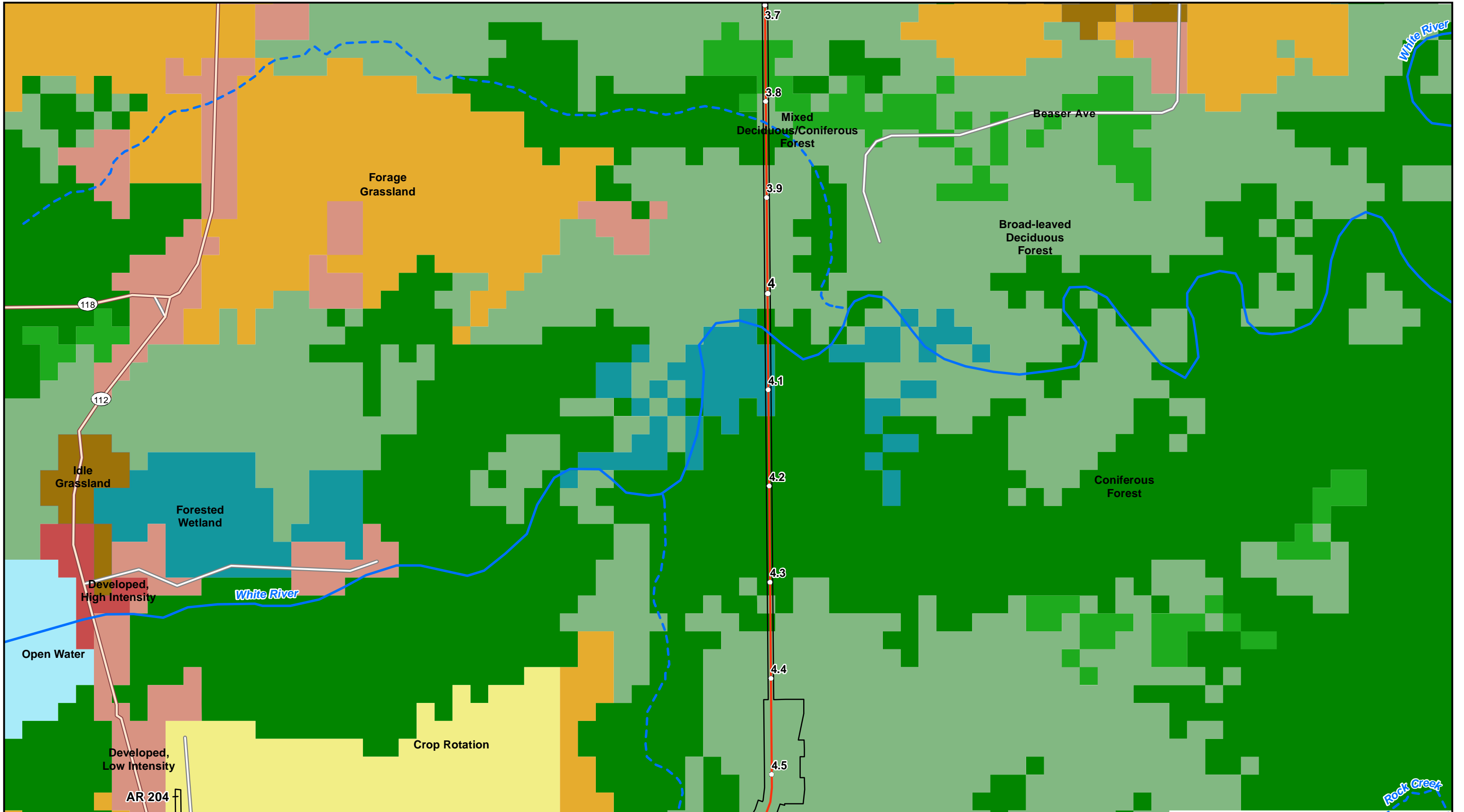
- Broad-leaved Deciduous Forest
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- Mixed Deciduous/Coniferous Forest
- Forage Grassland
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- Wisconsin DNR 24K Hydro
- Perennial Stream/River
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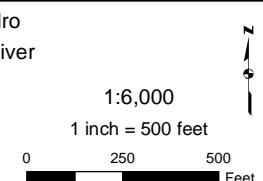


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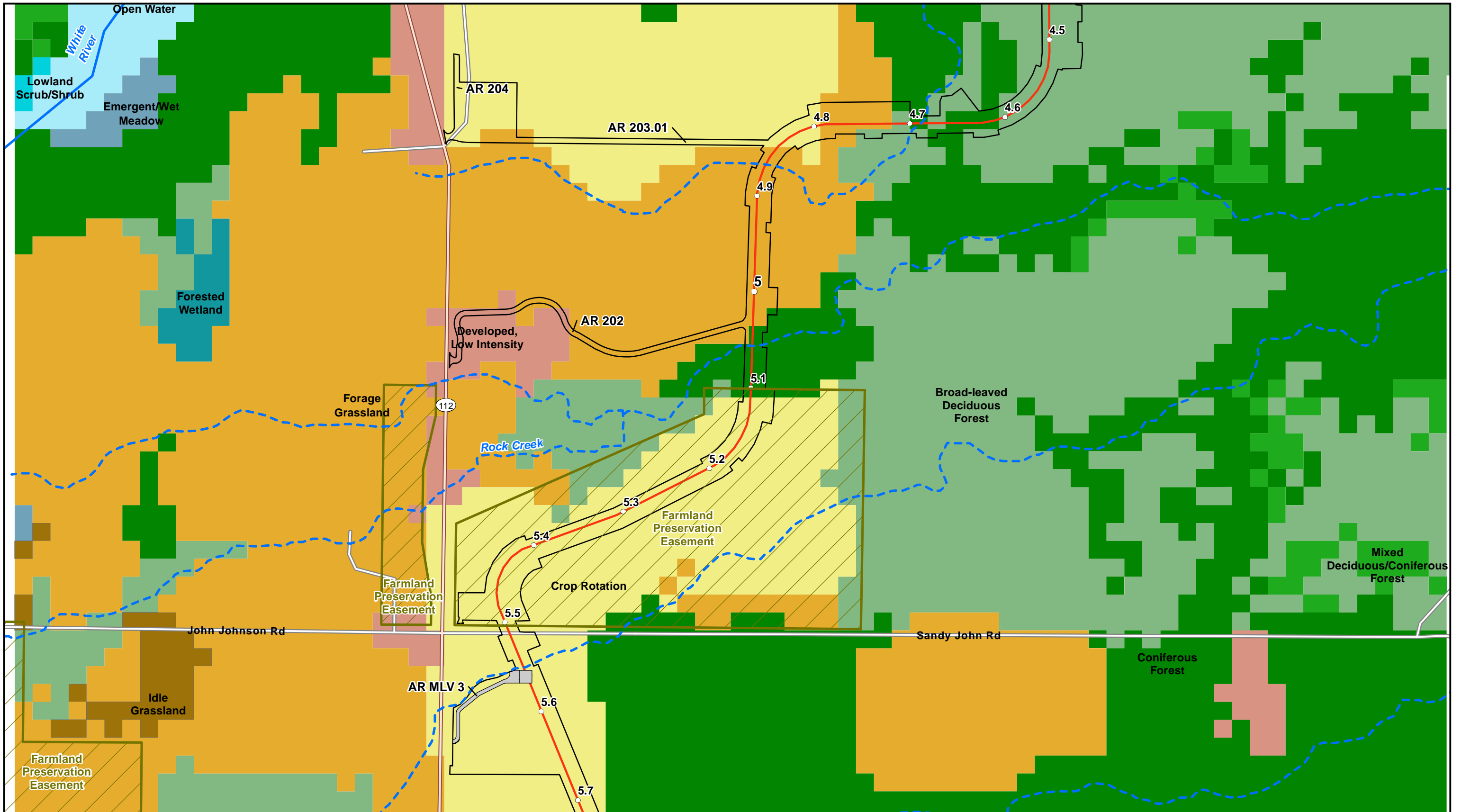


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
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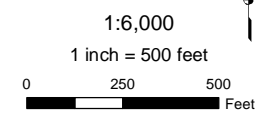


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 Ashland County, Wisconsin



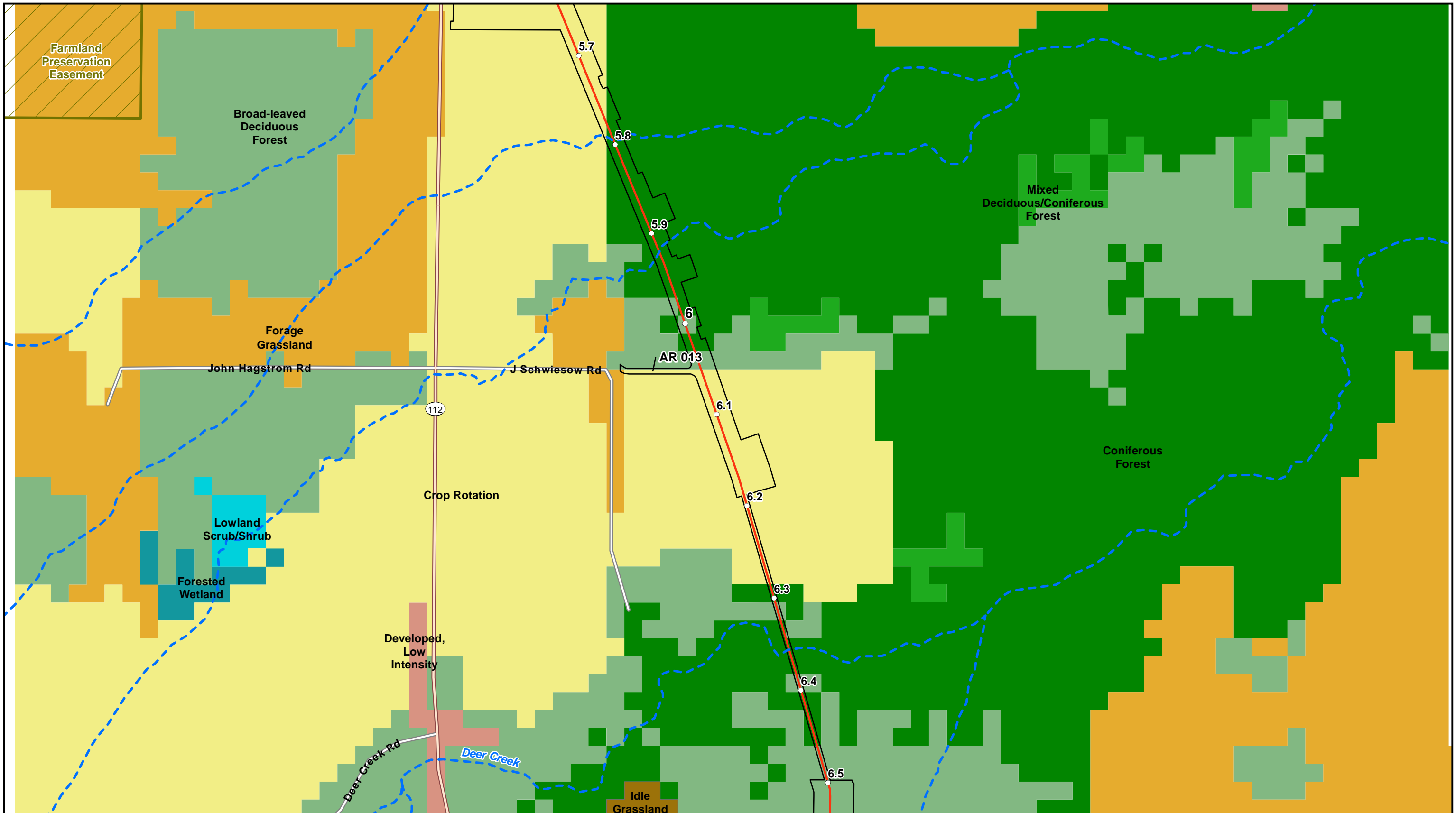


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□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation	■ Open Water	
	■ Idle Grassland		

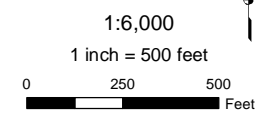


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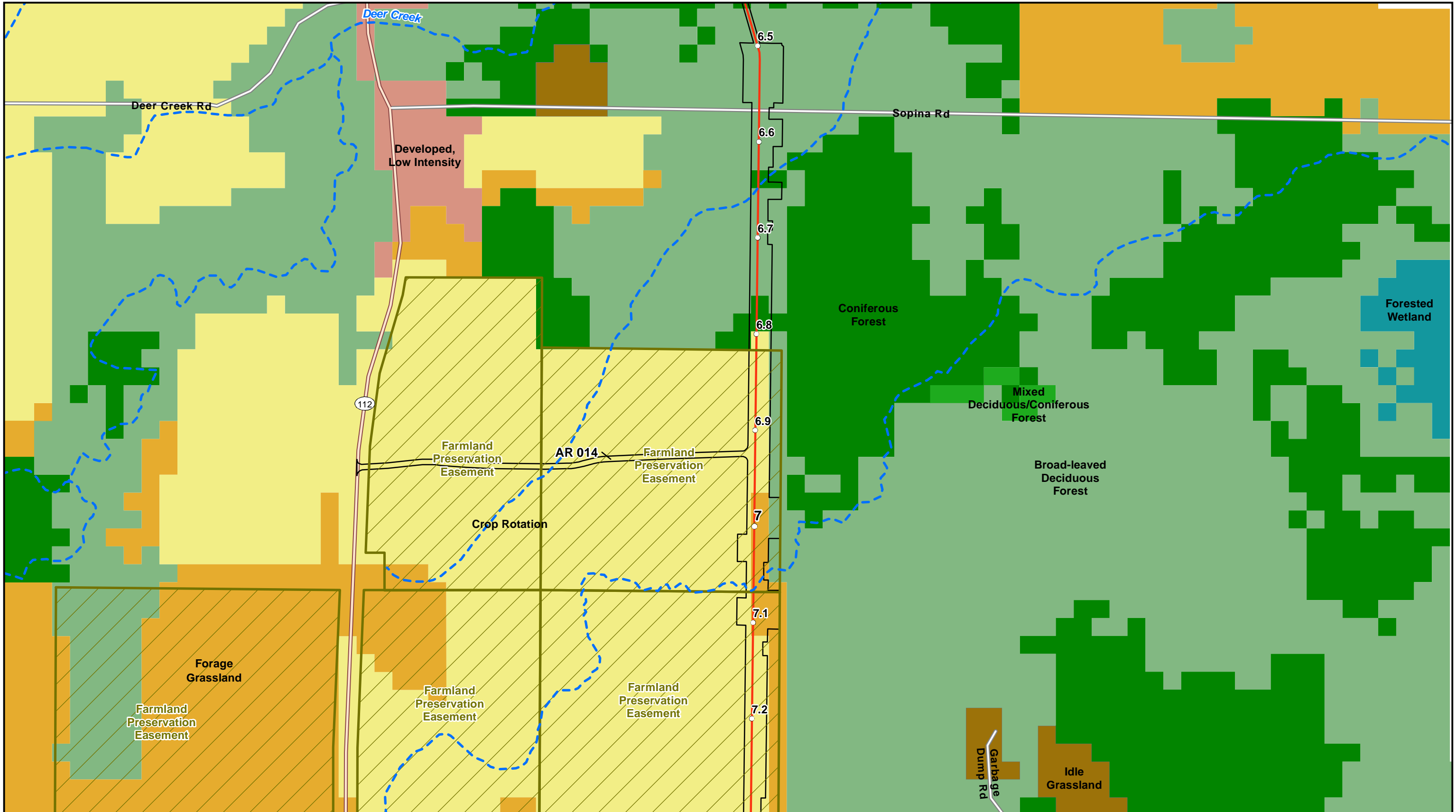


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— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
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□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation		

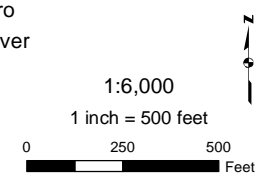


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 Wisconsin Land Use / Land Cover
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 Enbridge Energy, L.P.
 Ashland County, Wisconsin



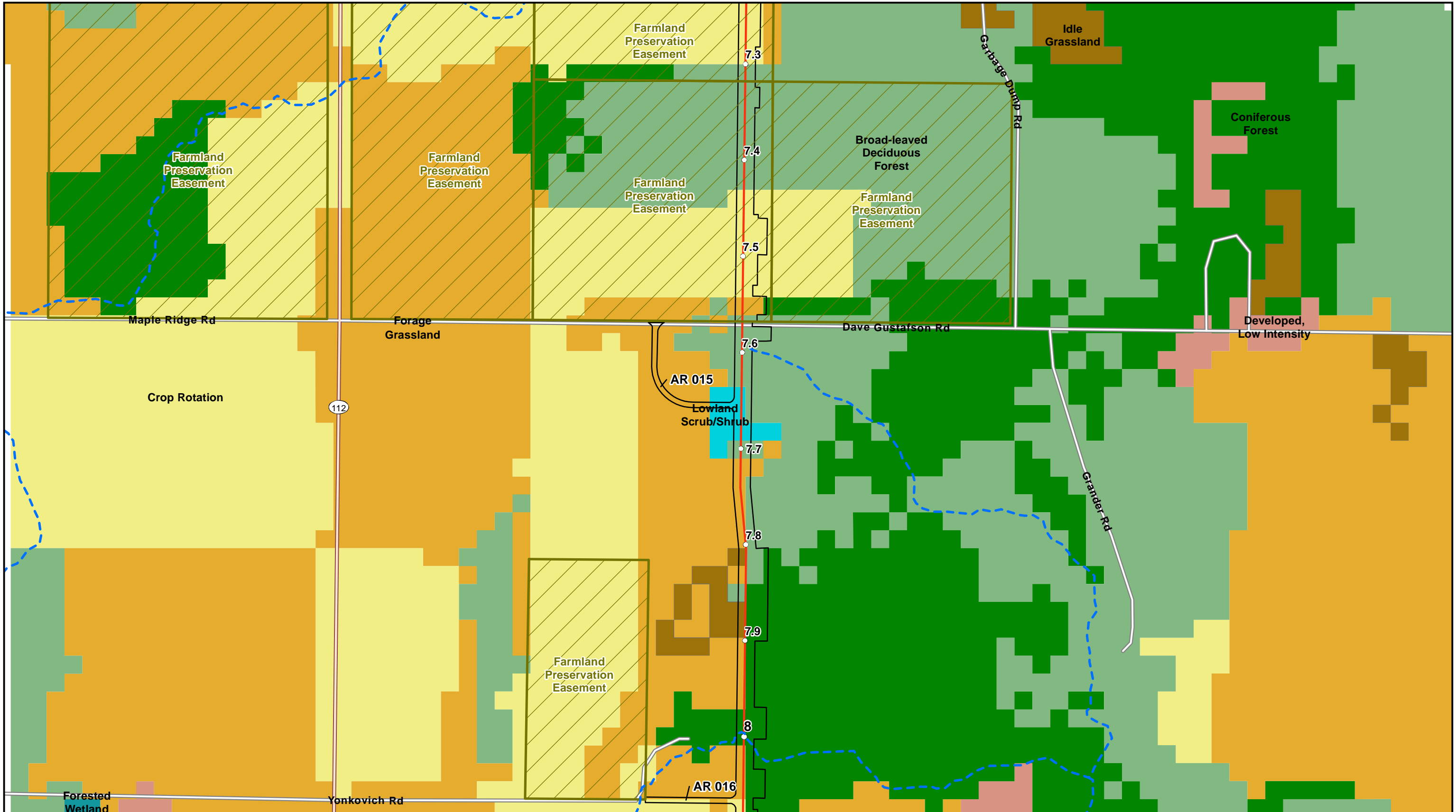


○ Milepost	■ Broad-leaved Deciduous Forest	■ Crop Rotation	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Idle Grassland	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Forested Wetland	- - - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
▨ Conservation Easement			

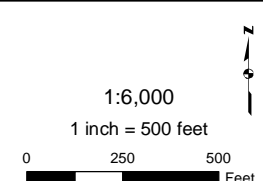


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 Ashland County, Wisconsin

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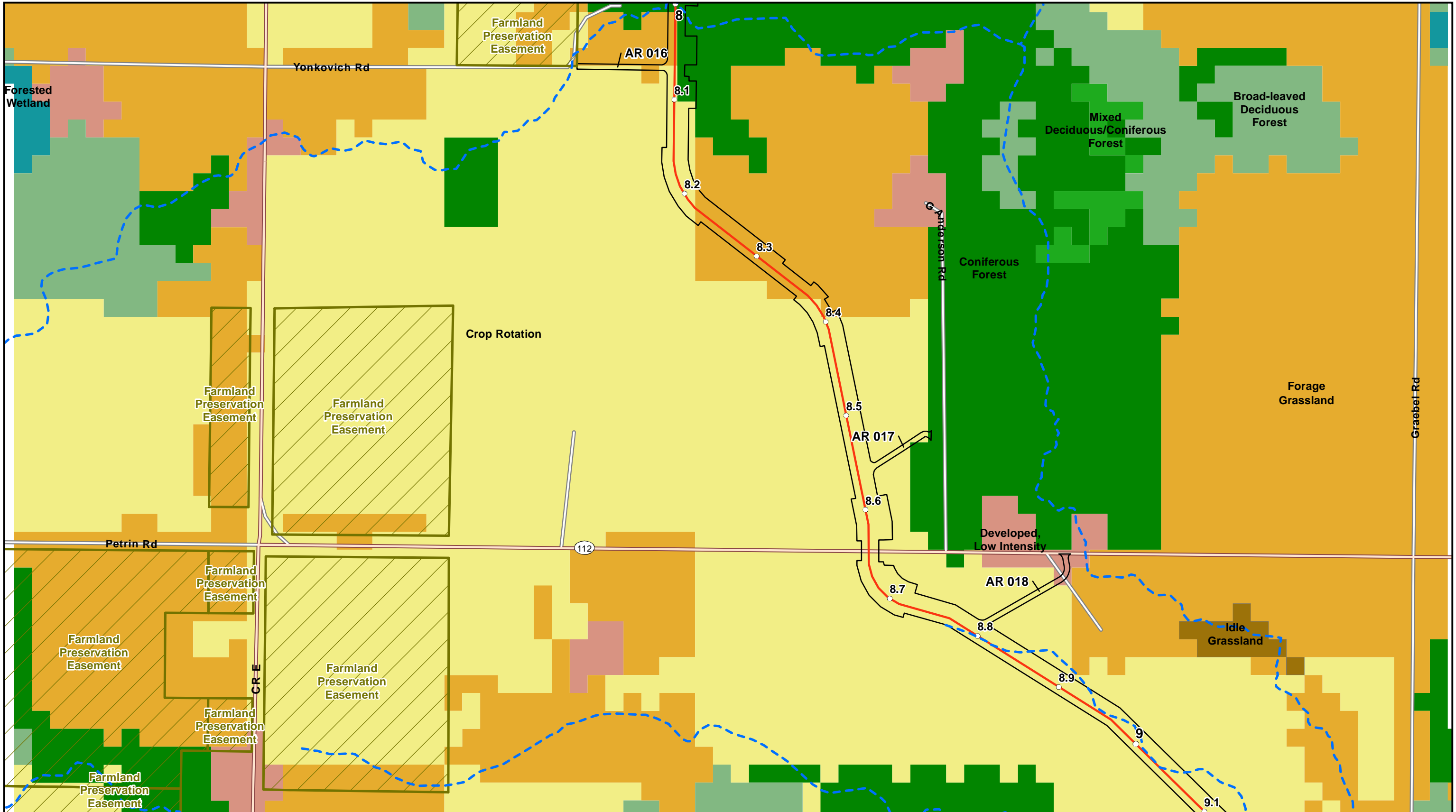


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Foraged Grassland
- Crop Rotation
- Idle Grassland
- Forested Wetland
- Lowland Scrub/Shrub
- Developed, Low Intensity
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- Intermittent Stream

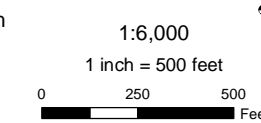


EIR Attachment G
Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



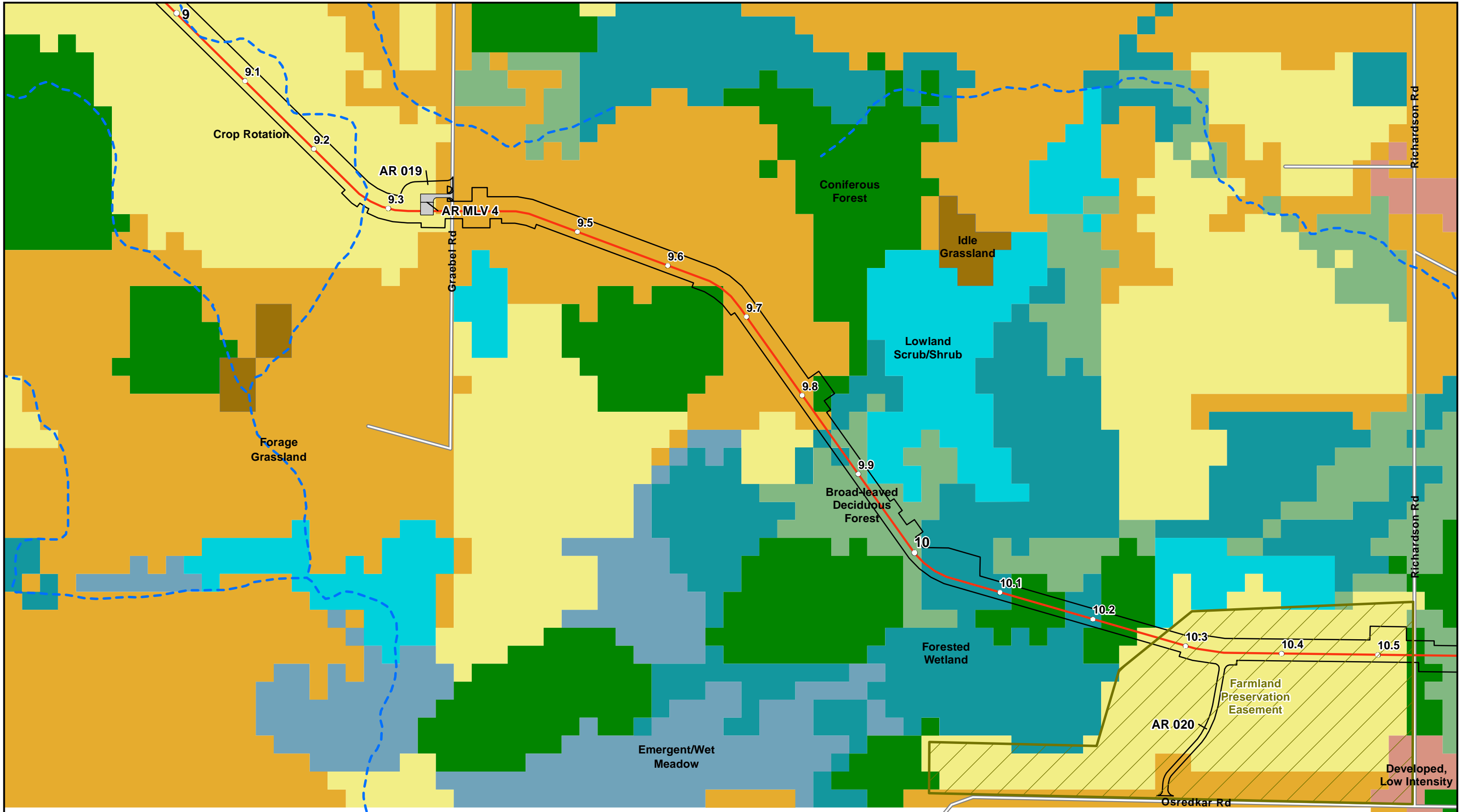


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Mixed Deciduous/Coniferous Forest
- Forage Grassland
- Crop Rotation
- Idle Grassland
- Forested Wetland
- Developed, Low Intensity
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

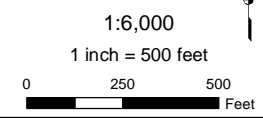


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



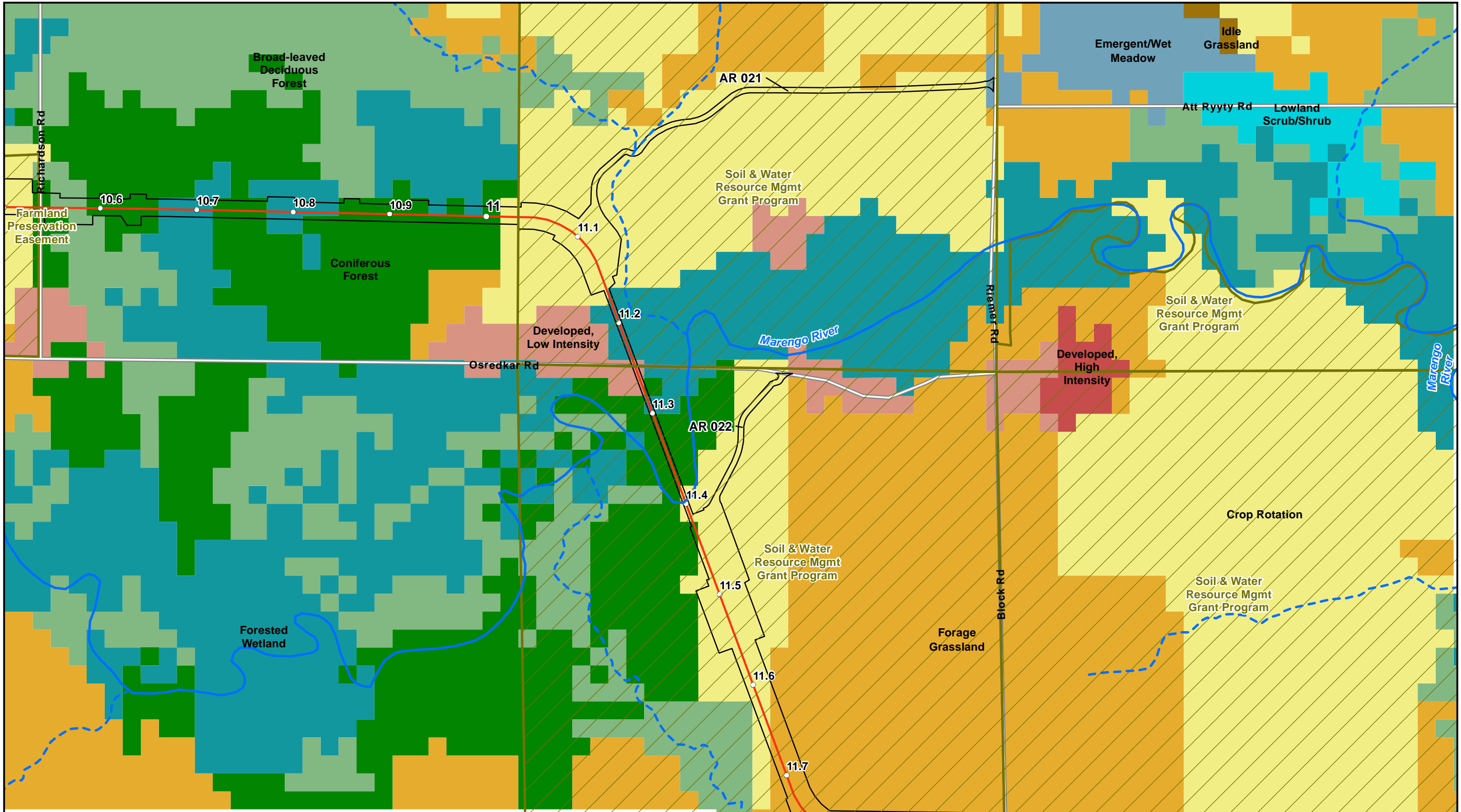


○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Lowland Scrub/Shrub	— Perennial Stream/River
■ Mainline Valve and Road	■ Forage Grassland	■ Emergent/Wet Meadow	- - Intermittent Stream
□ Workspace (LOD)	■ Crop Rotation	■ Developed, Low Intensity	
■ Conservation Easement	■ Idle Grassland		

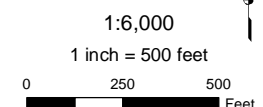


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 Line 5 Wisconsin Segment Relocation Project
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 Ashland County, Wisconsin



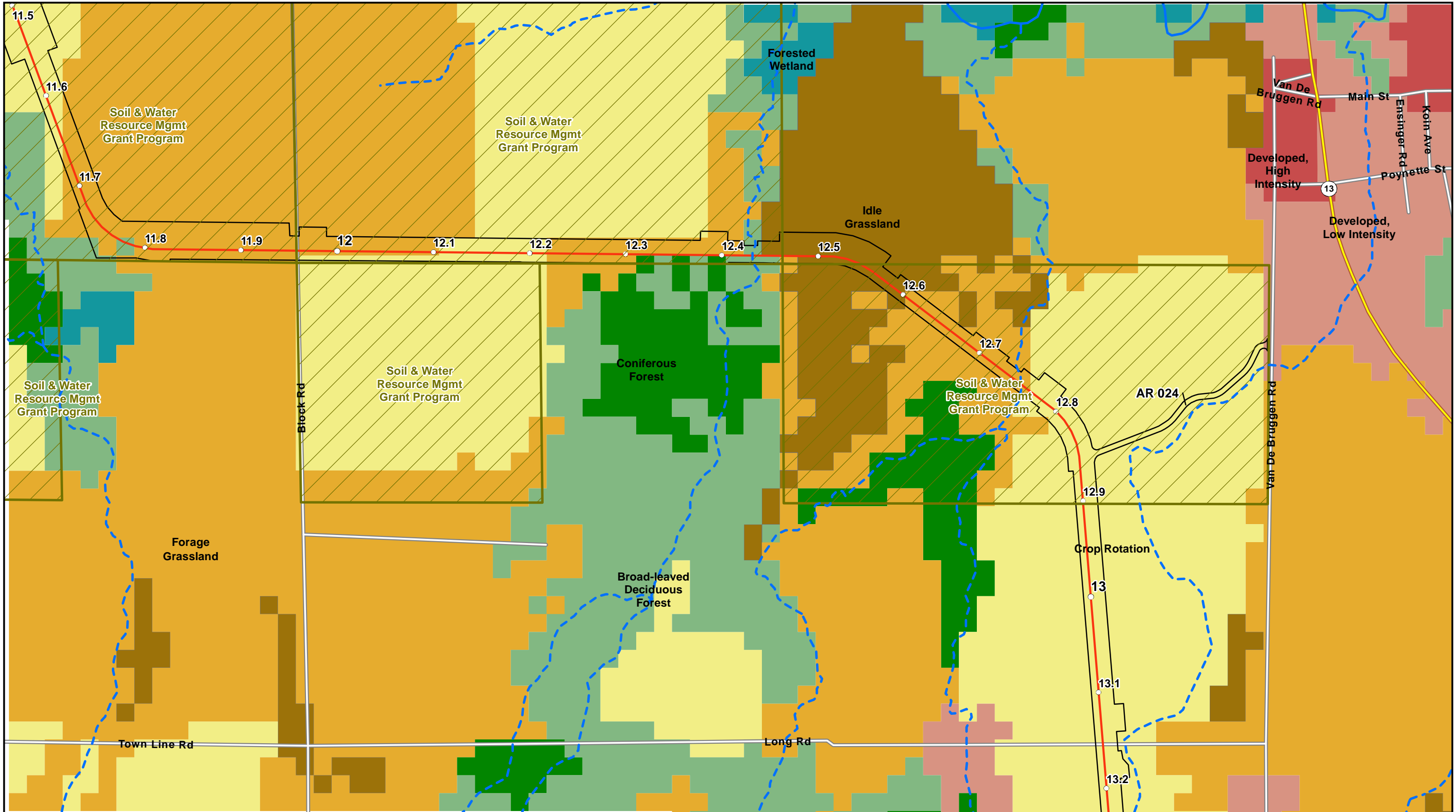


○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Lowland Scrub/Shrub	— Perennial Stream/River
■ Mainline Valve and Road	■ Forage Grassland	■ Emergent/Wet Meadow	- - - Intermittent Stream
□ Workspace (LOD)	■ Crop Rotation	■ Developed, Low Intensity	
■ Conservation Easement	■ Idle Grassland	■ Developed, High Intensity	

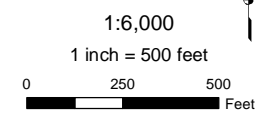


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



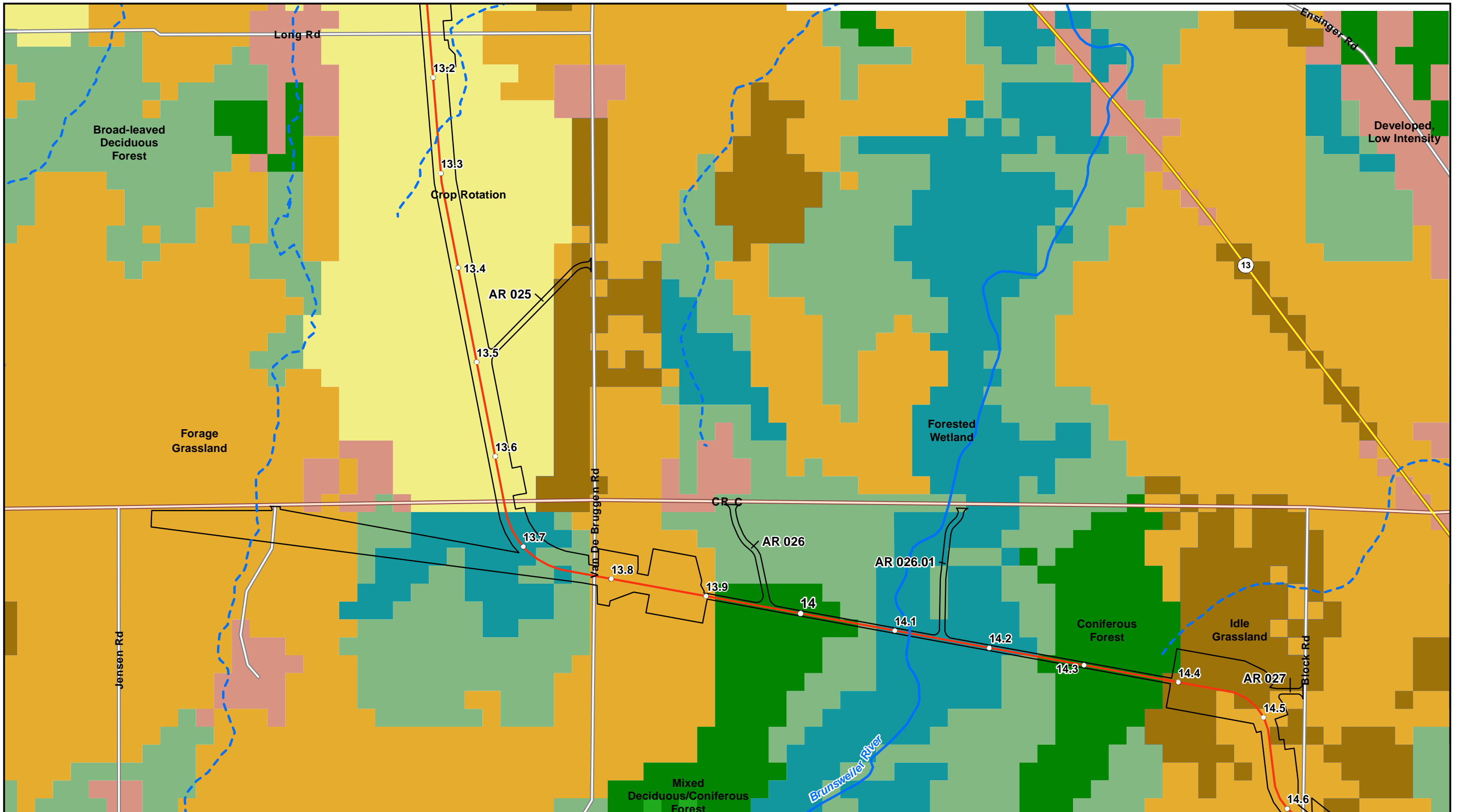


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Foraged Grassland	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Crop Rotation	■ Developed, High Intensity	
■ Conservation Easement			



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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



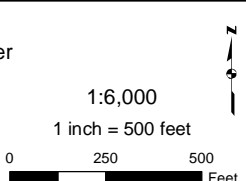


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement

- Broad-leaved Deciduous Forest
- Coniferous Forest
- Mixed Deciduous/Coniferous Forest
- Forage Grassland

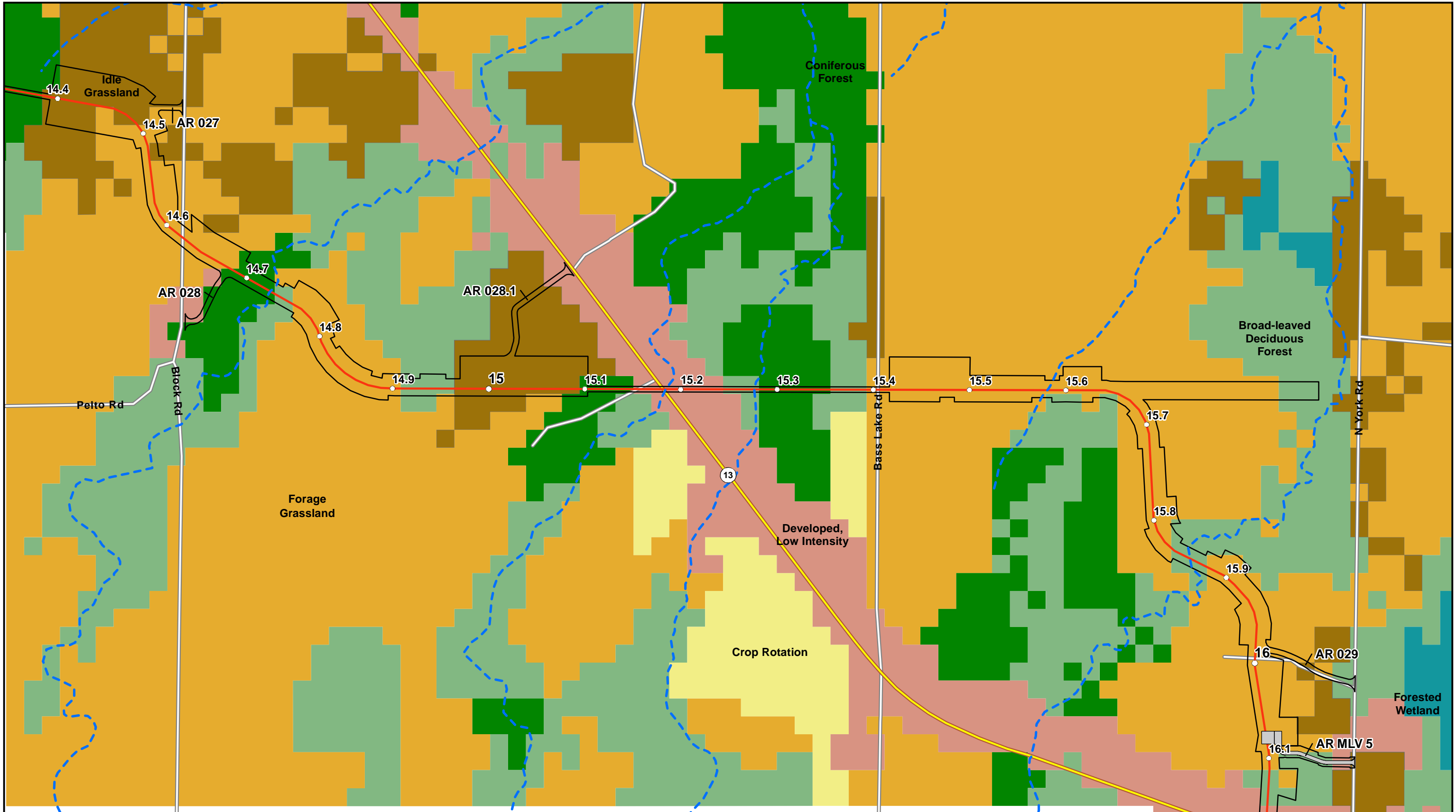
- Crop Rotation
- Idle Grassland
- Forested Wetland
- Developed, Low Intensity

- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

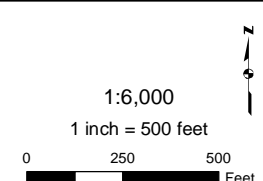


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 Ashland County, Wisconsin



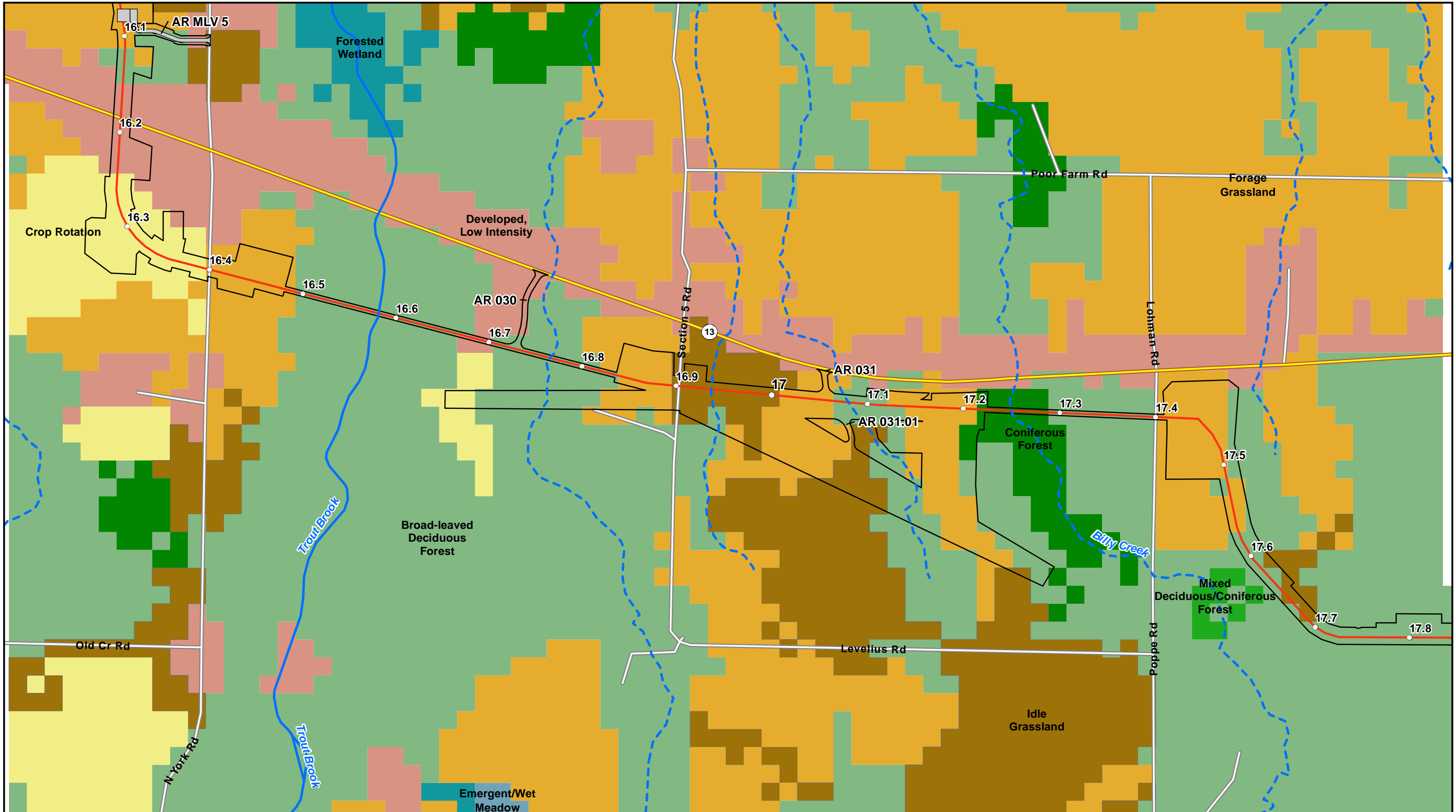


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Forage Grassland
- Crop Rotation
- Idle Grassland
- Forested Wetland
- Developed, Low Intensity
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream



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Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



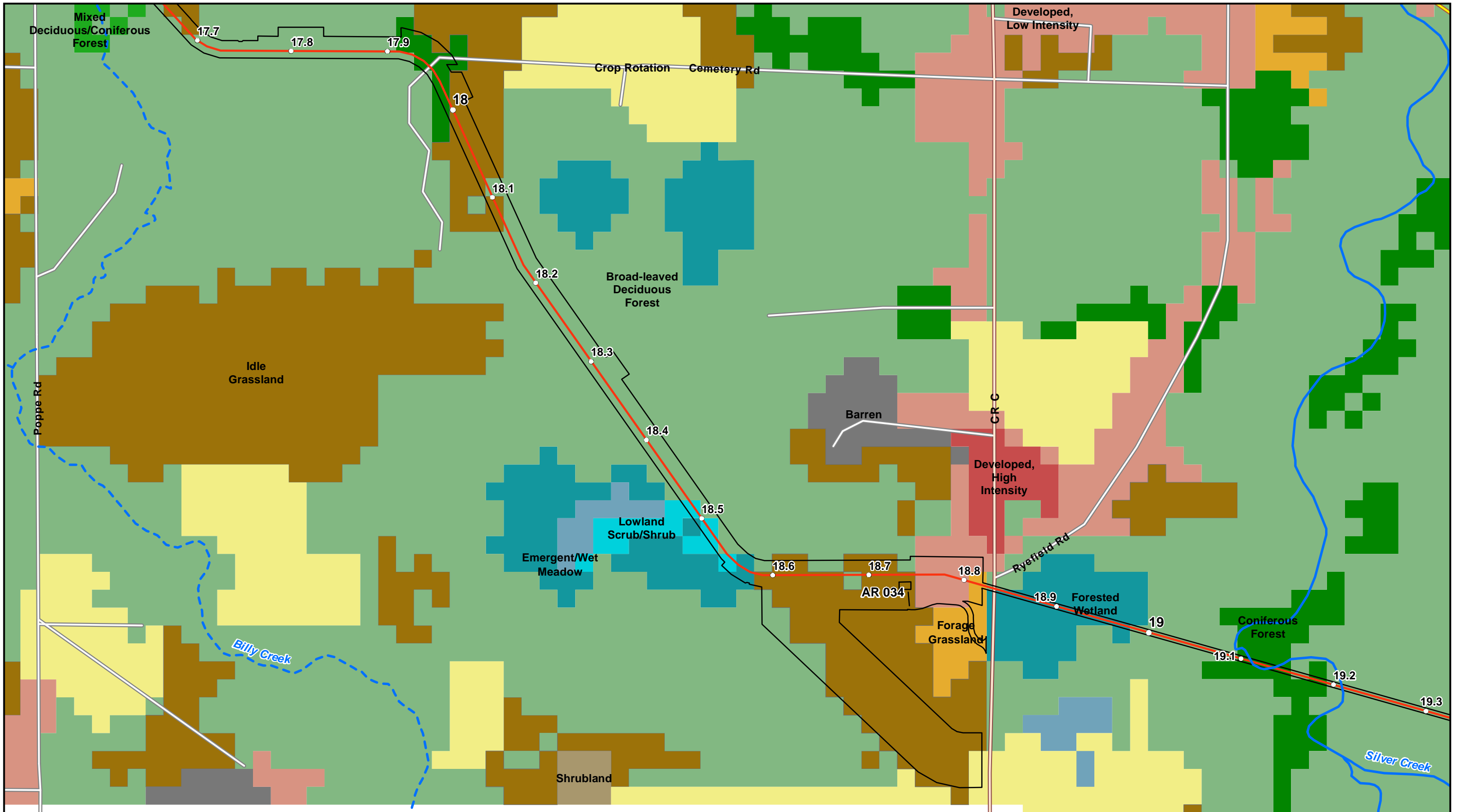


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Emergent/Wet Meadow	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation		

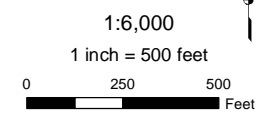
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1 inch = 500 feet

EIR Attachment G
Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
Enbridge Energy, L.P.
Ashland County, Wisconsin

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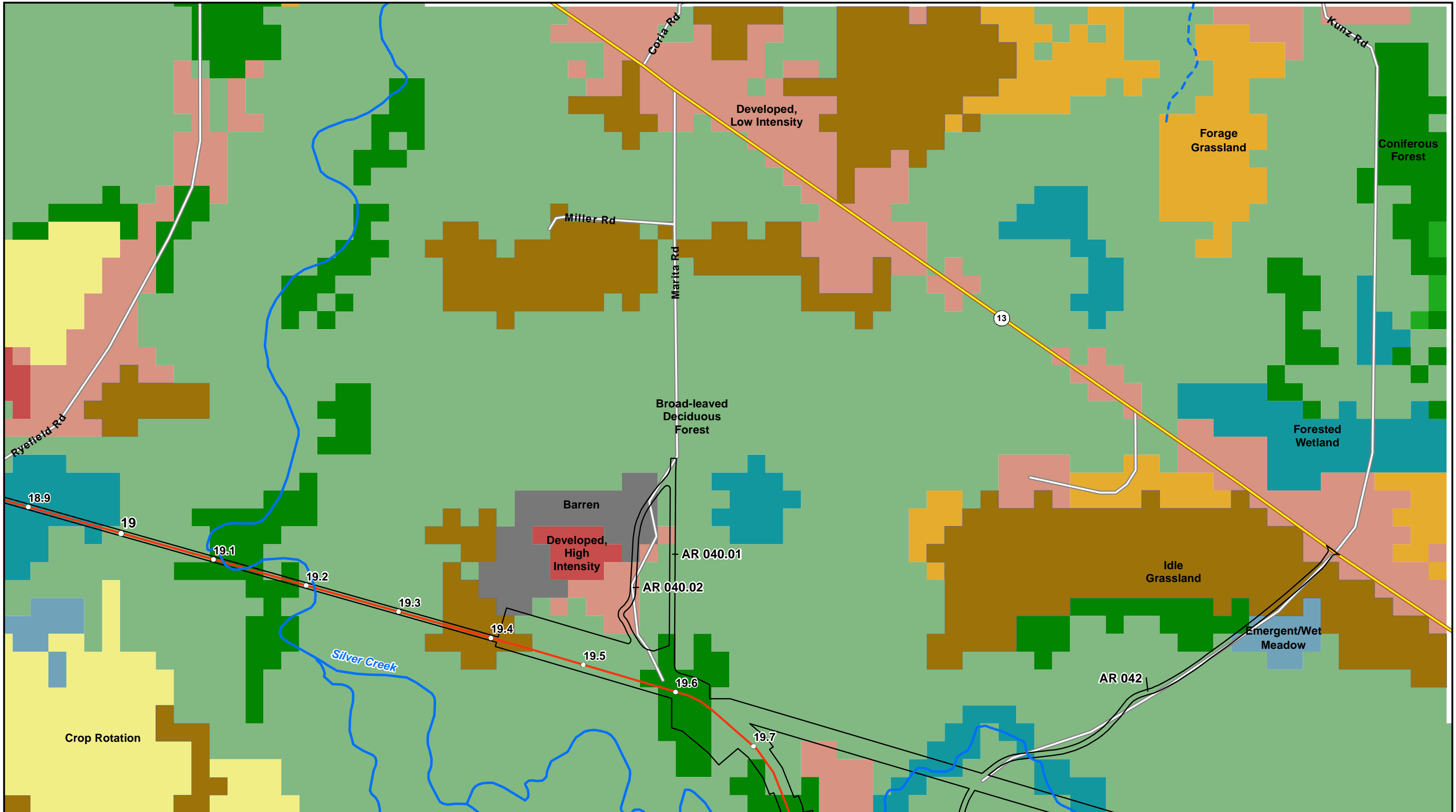


○ Milepost	■ Broad-leaved Deciduous Forest	■ Lowland Scrub/Shrub	■ Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Emergent/Wet Meadow	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Developed, Low Intensity	— Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, High Intensity	
■ Conservation Easement	■ Crop Rotation	■ Barren	
	■ Idle Grassland	■ Shrubland	
	■ Forested Wetland		

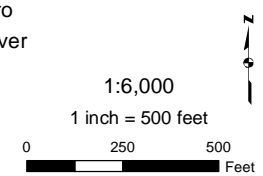


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



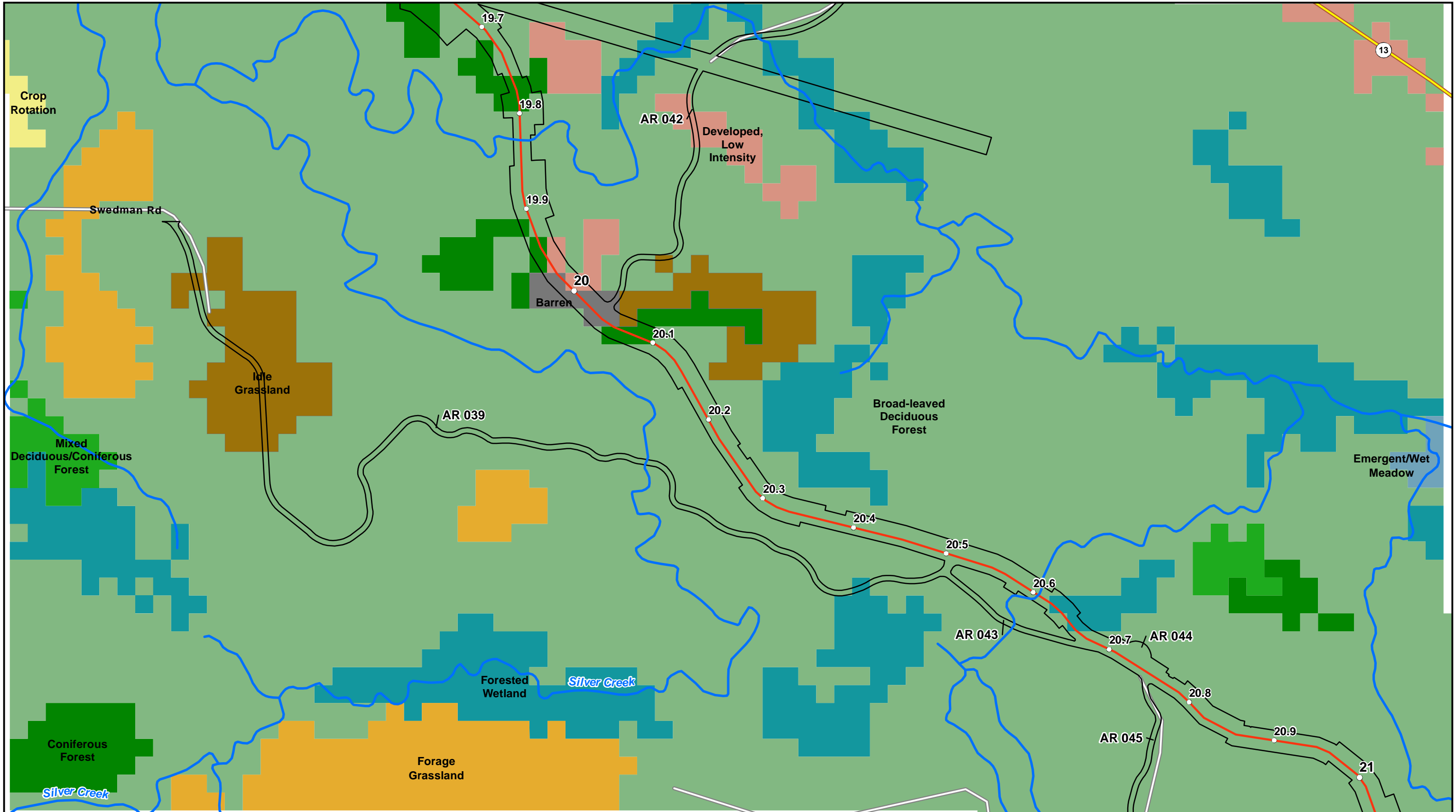


○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Emergent/Wet Meadow	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, High Intensity	
■ Conservation Easement	■ Crop Rotation	■ Barren	
	■ Idle Grassland		

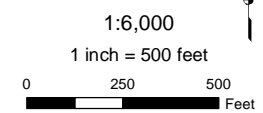


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



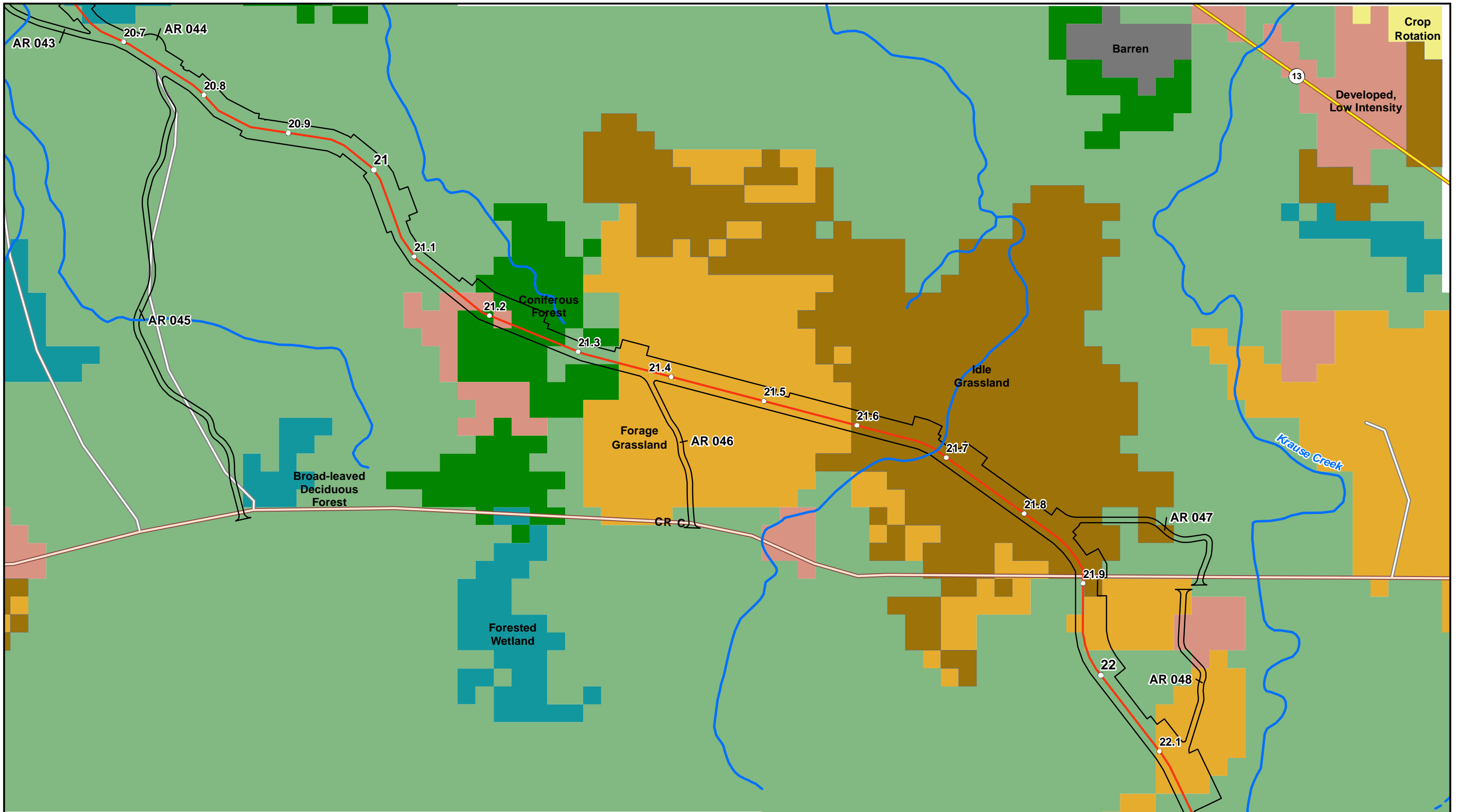


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Emergent/Wet Meadow	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation	■ Barren	

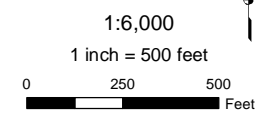


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 Enbridge Energy, L.P.
 Ashland County, Wisconsin



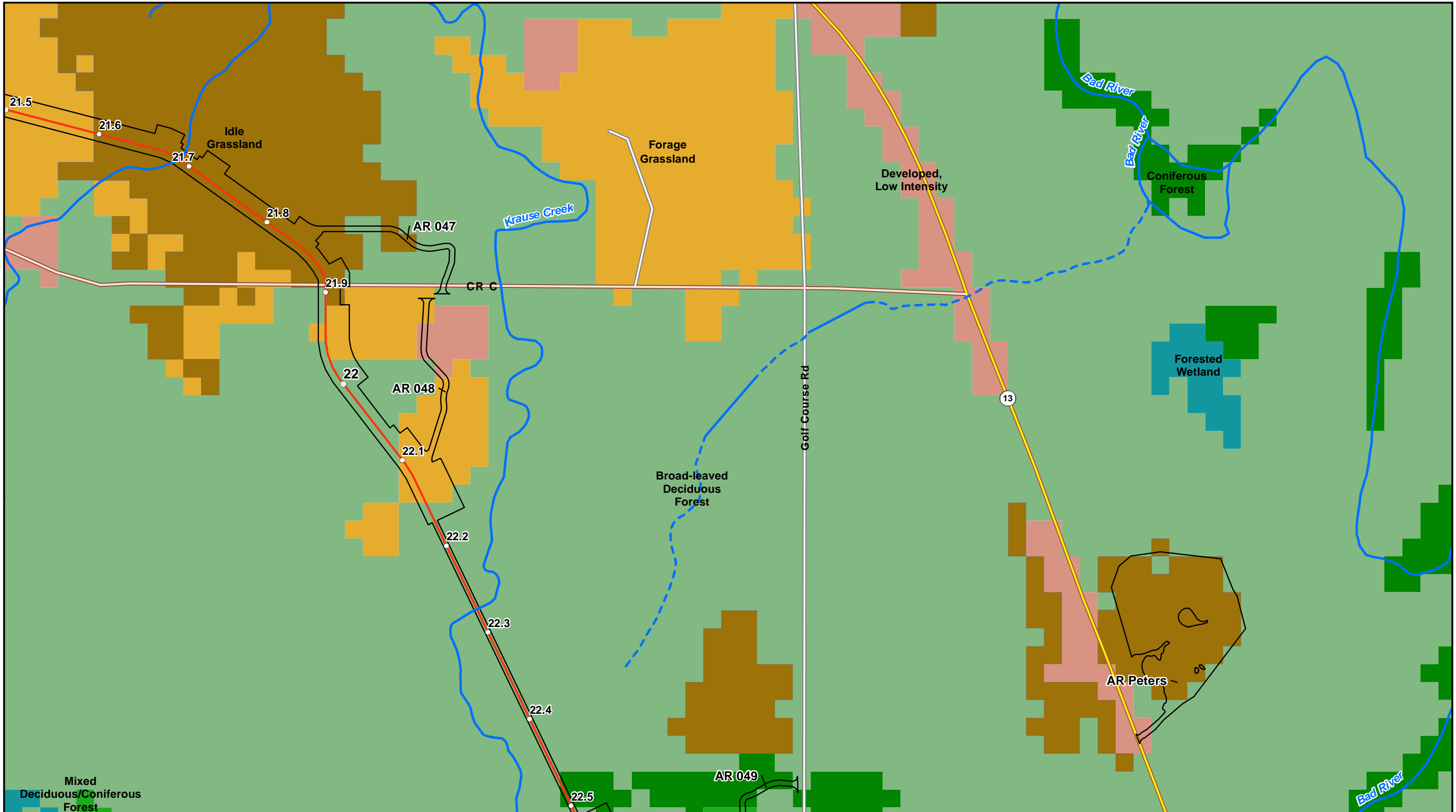


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Forage Grassland
- ▭ Crop Rotation
- ▭ Idle Grassland
- ▭ Forested Wetland
- ▭ Developed, Low Intensity
- ▭ Barren
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

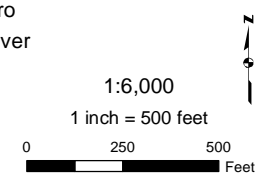


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 Enbridge Energy, L.P.
 Ashland County, Wisconsin



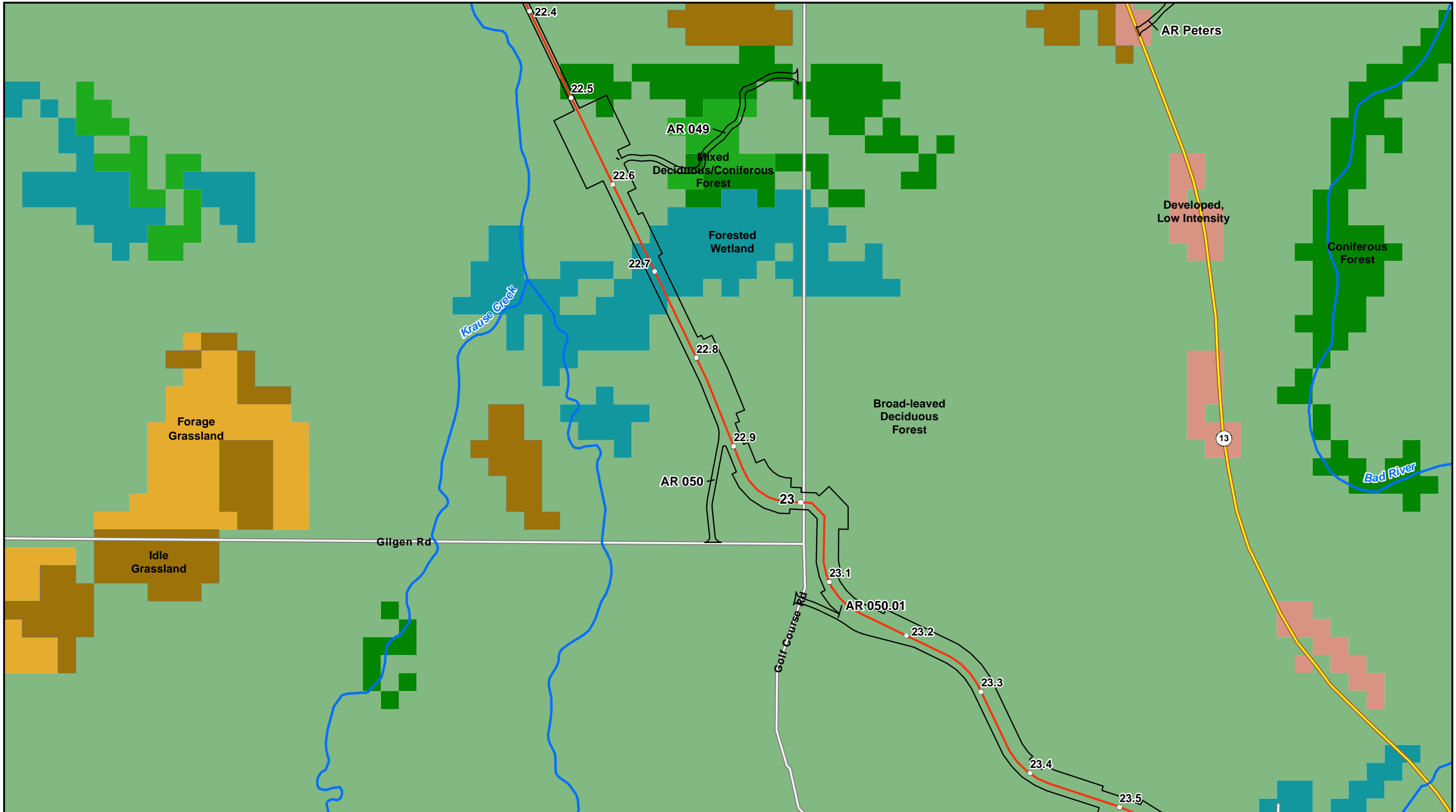


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland		
■ Conservation Easement			



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 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



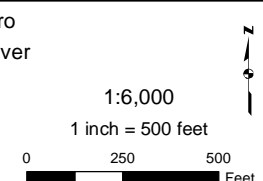


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement

- Broad-leaved Deciduous Forest
- Coniferous Forest
- Mixed Deciduous/Coniferous Forest
- Forage Grassland

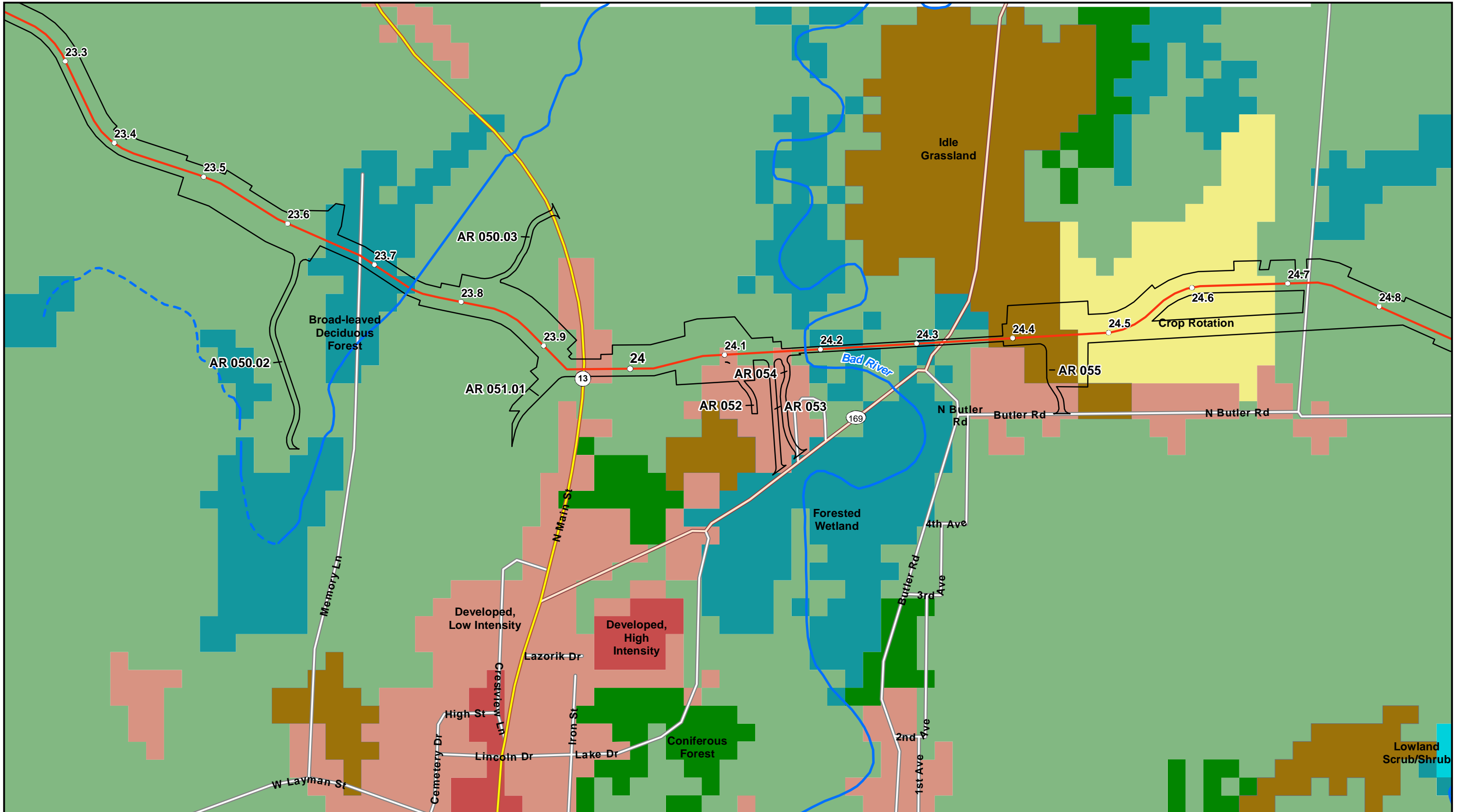
- Idle Grassland
- Forested Wetland
- Developed, Low Intensity

- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - Intermittent Stream

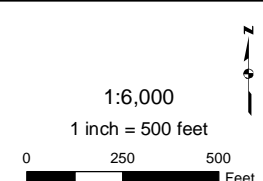


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



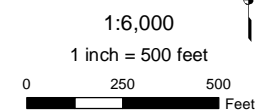
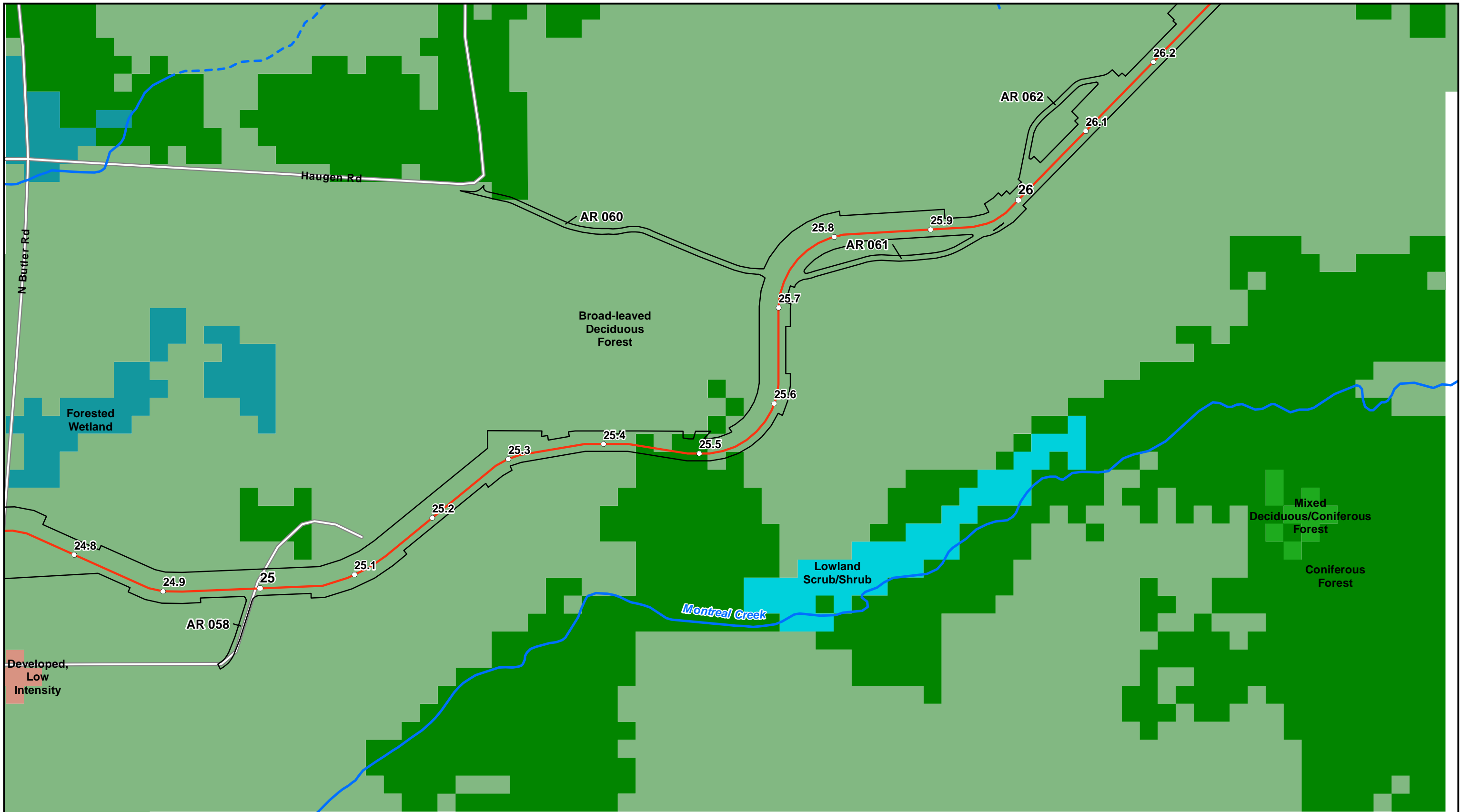


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Crop Rotation
- Idle Grassland
- Forested Wetland
- Lowland Scrub/Shrub
- Developed, Low Intensity
- Developed, High Intensity
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream



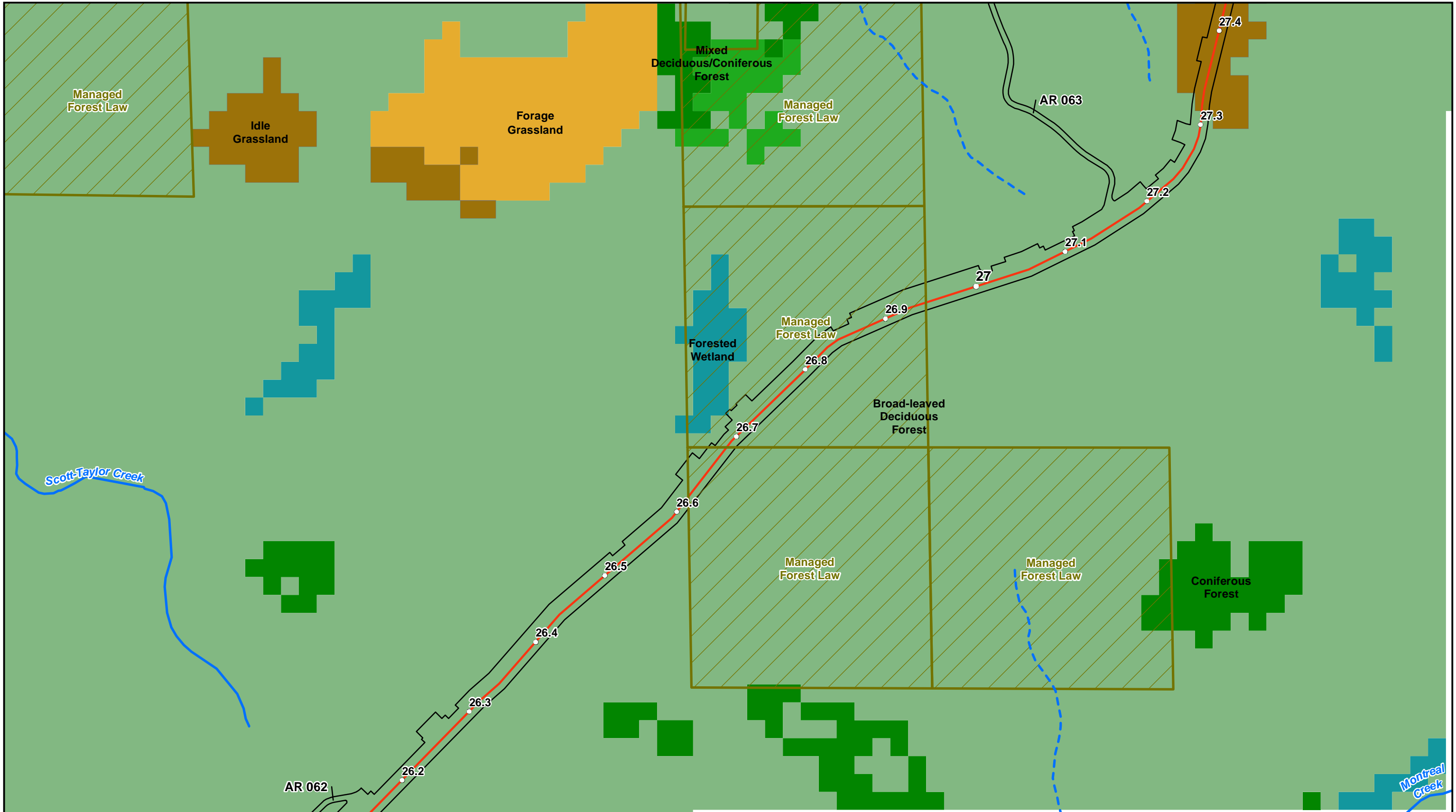
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Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



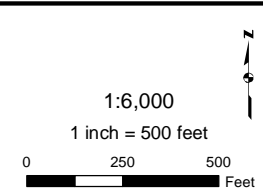


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 Wisconsin Land Use / Land Cover
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 Enbridge Energy, L.P.
 Ashland County, Wisconsin



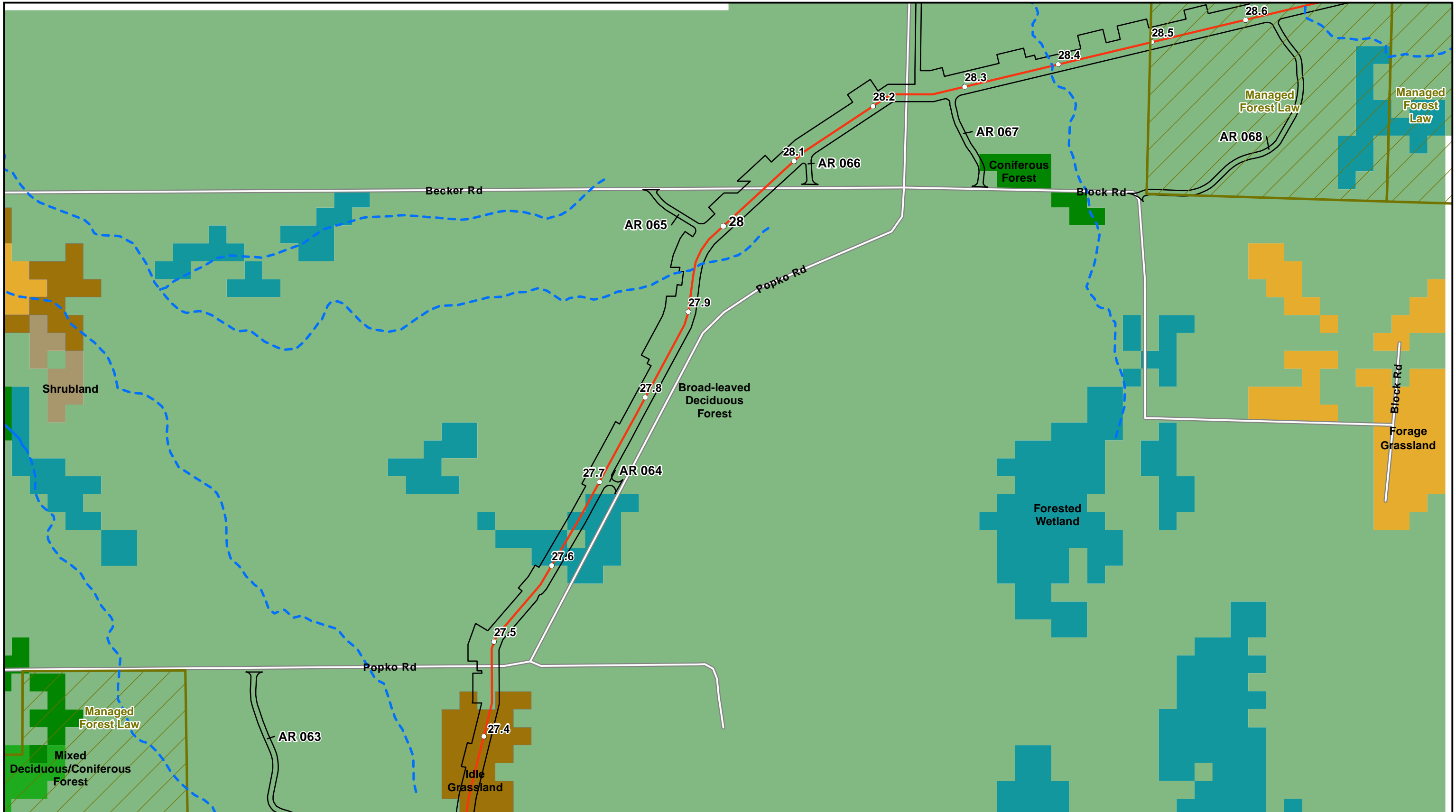


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Mixed Deciduous/Coniferous Forest
- ▭ Forage Grassland
- ▭ Idle Grassland
- ▭ Forested Wetland
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- Intermittent Stream

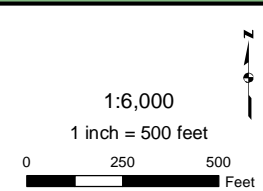


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Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



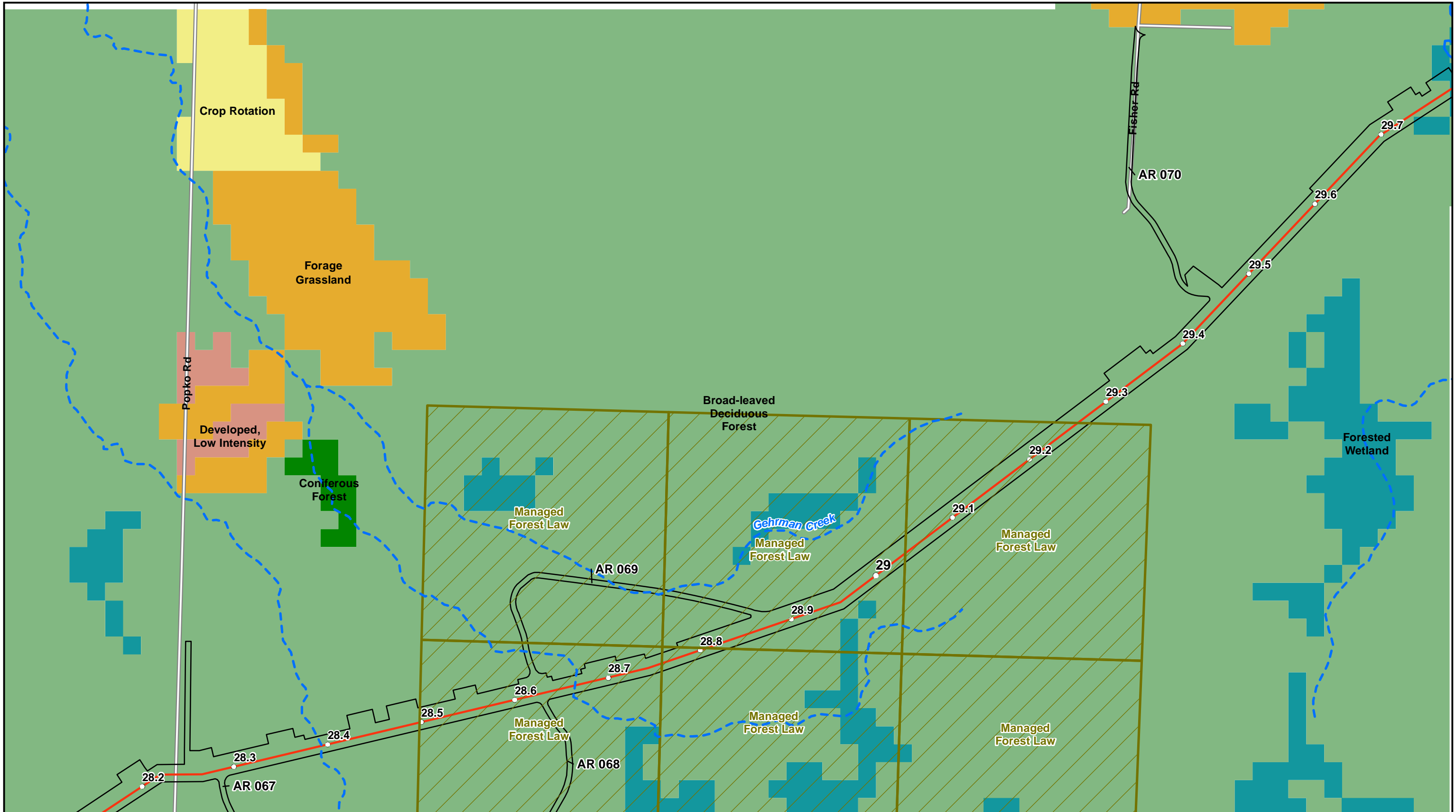


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Mixed Deciduous/Coniferous Forest
- ▭ Forage Grassland
- ▭ Idle Grassland
- ▭ Forested Wetland
- ▭ Shrubland
- ▭ Wisconsin DNR 24K Hydro
- ▭ Perennial Stream/River
- ▭ Intermittent Stream



EIR Attachment G
 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland County, Wisconsin



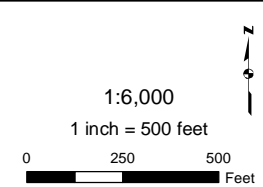


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Forage Grassland
- ▭ Crop Rotation
- ▭ Developed, Low Intensity

- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Forage Grassland
- ▭ Crop Rotation
- ▭ Developed, Low Intensity

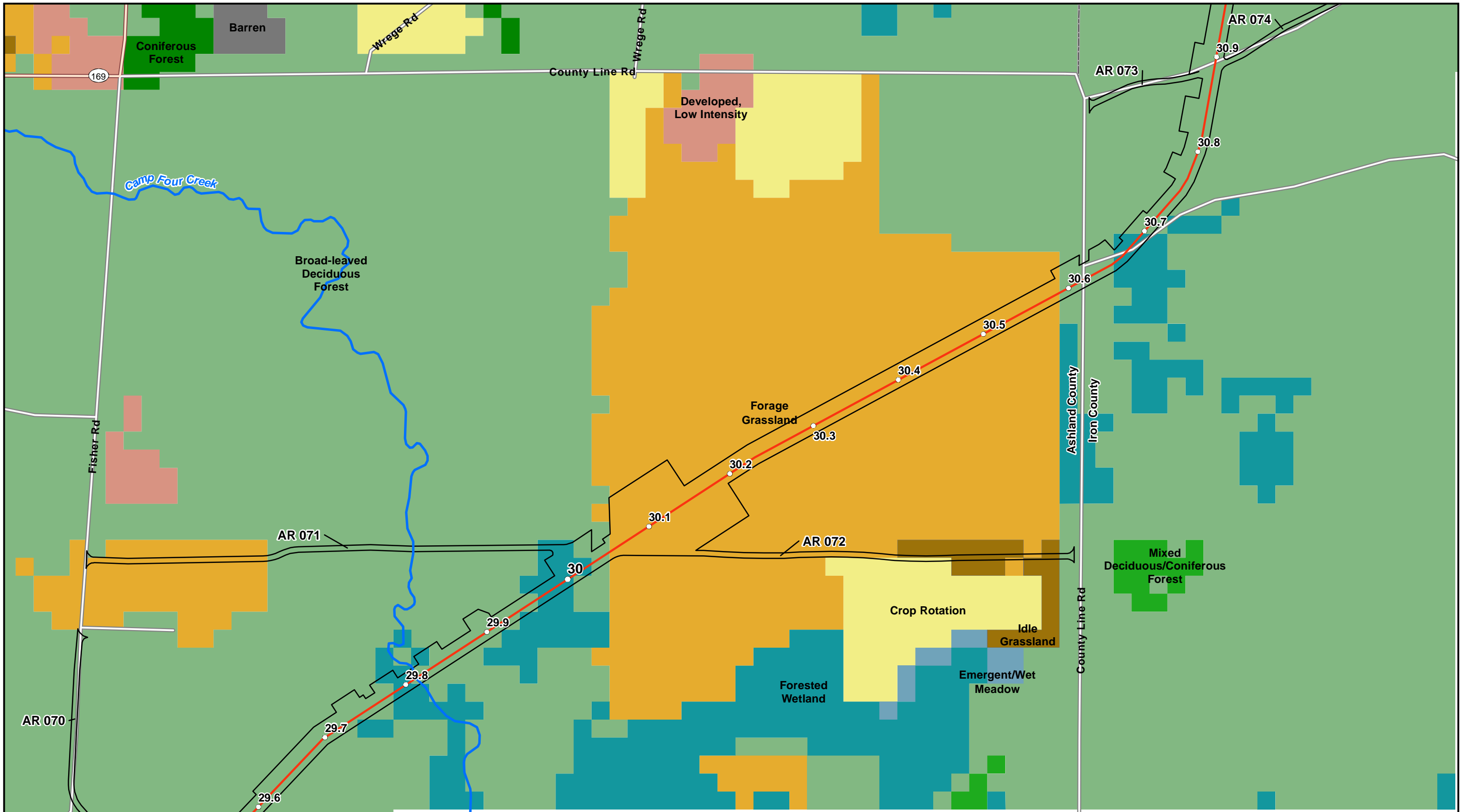
- ▭ Forested Wetland
- ▭ Developed, Low Intensity

- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

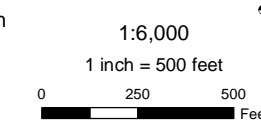


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 Wisconsin Land Use / Land Cover
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 Enbridge Energy, L.P.
 Ashland County, Wisconsin



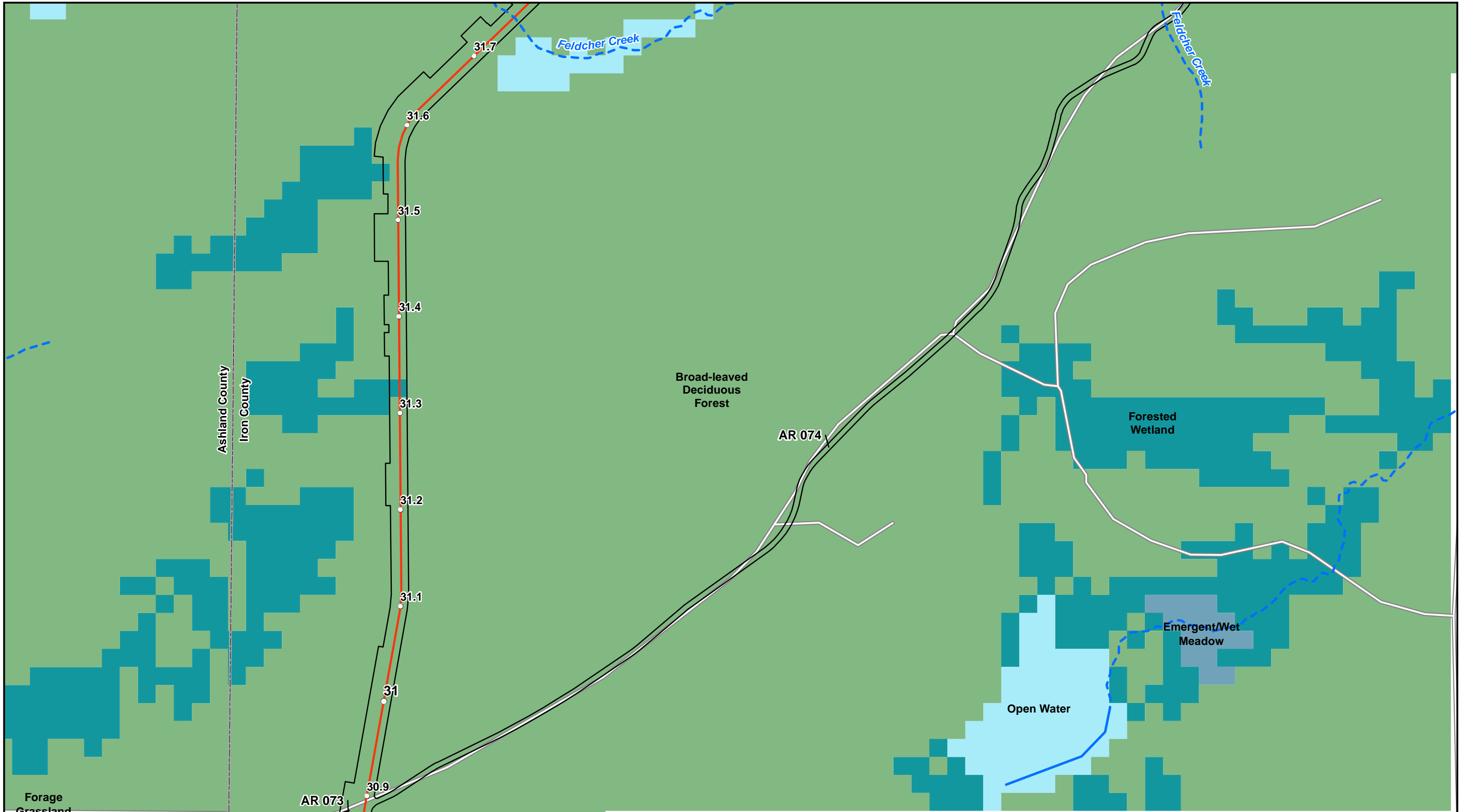


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Emergent/Wet Meadow	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, Low Intensity	
■ Conservation Easement	■ Crop Rotation	■ Barren	

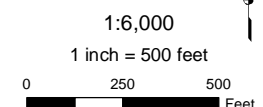


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Ashland and Iron Counties, Wisconsin



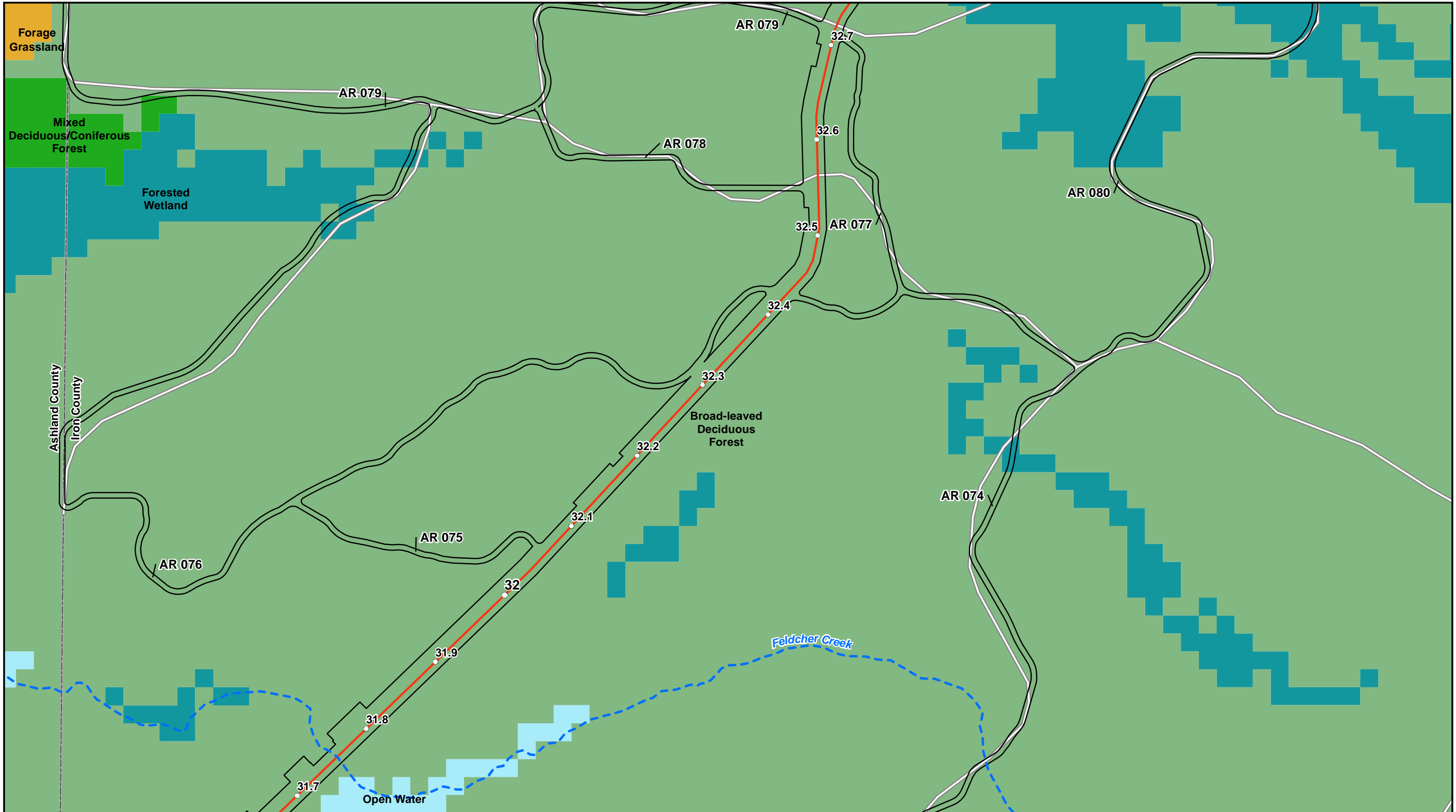


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Forage Grassland
- ▭ Crop Rotation
- ▭ Forested Wetland
- ▭ Emergent/Wet Meadow
- ▭ Open Water
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream



EIR Attachment G
Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Iron County, Wisconsin



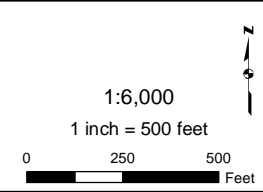


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement

- ▭ Broad-leaved Deciduous Forest
- ▭ Mixed Deciduous/Coniferous Forest
- ▭ Forage Grassland

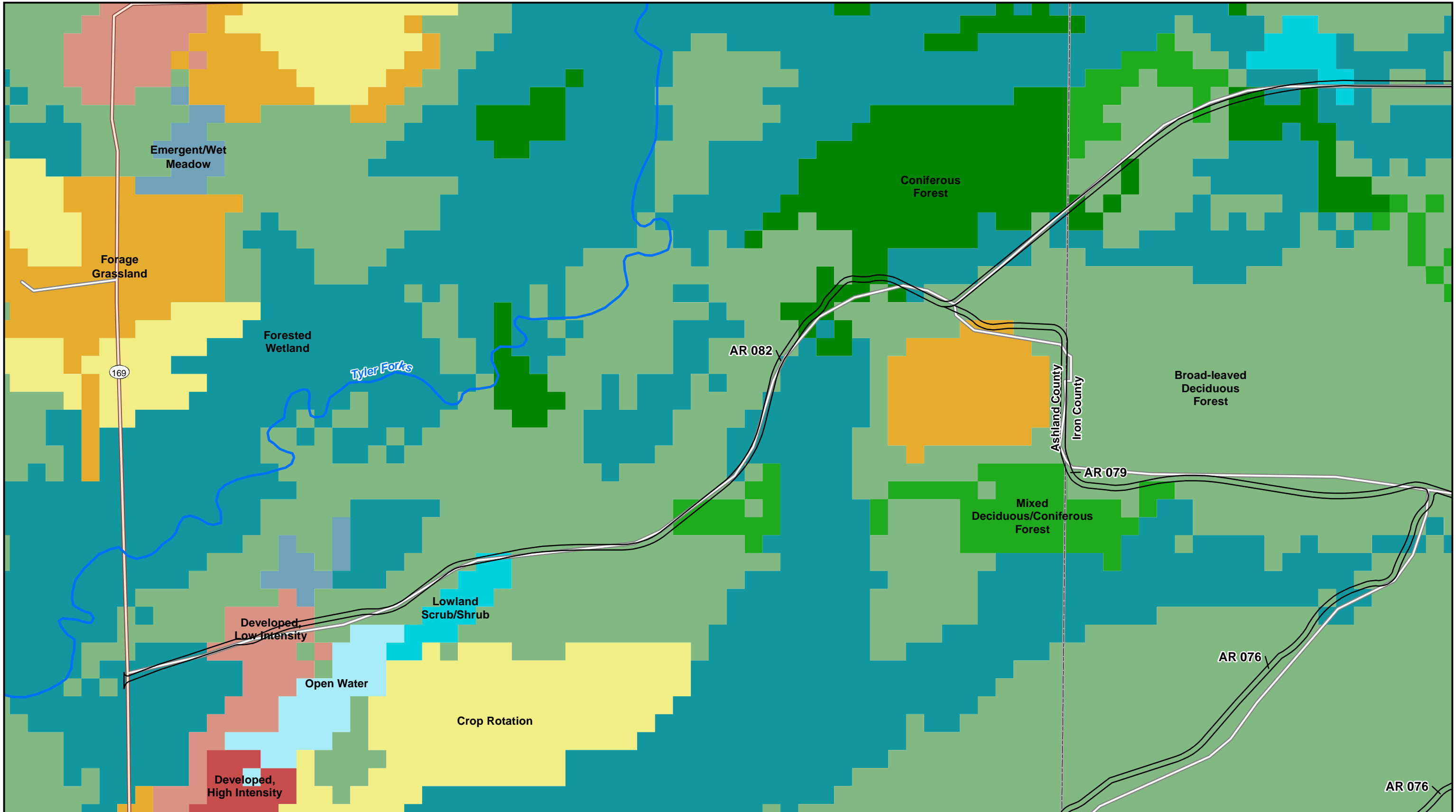
- ▭ Forested Wetland
- ▭ Open Water

- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

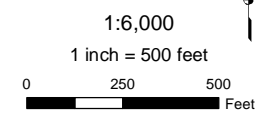


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Wisconsin Land Use / Land Cover
Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Iron County, Wisconsin



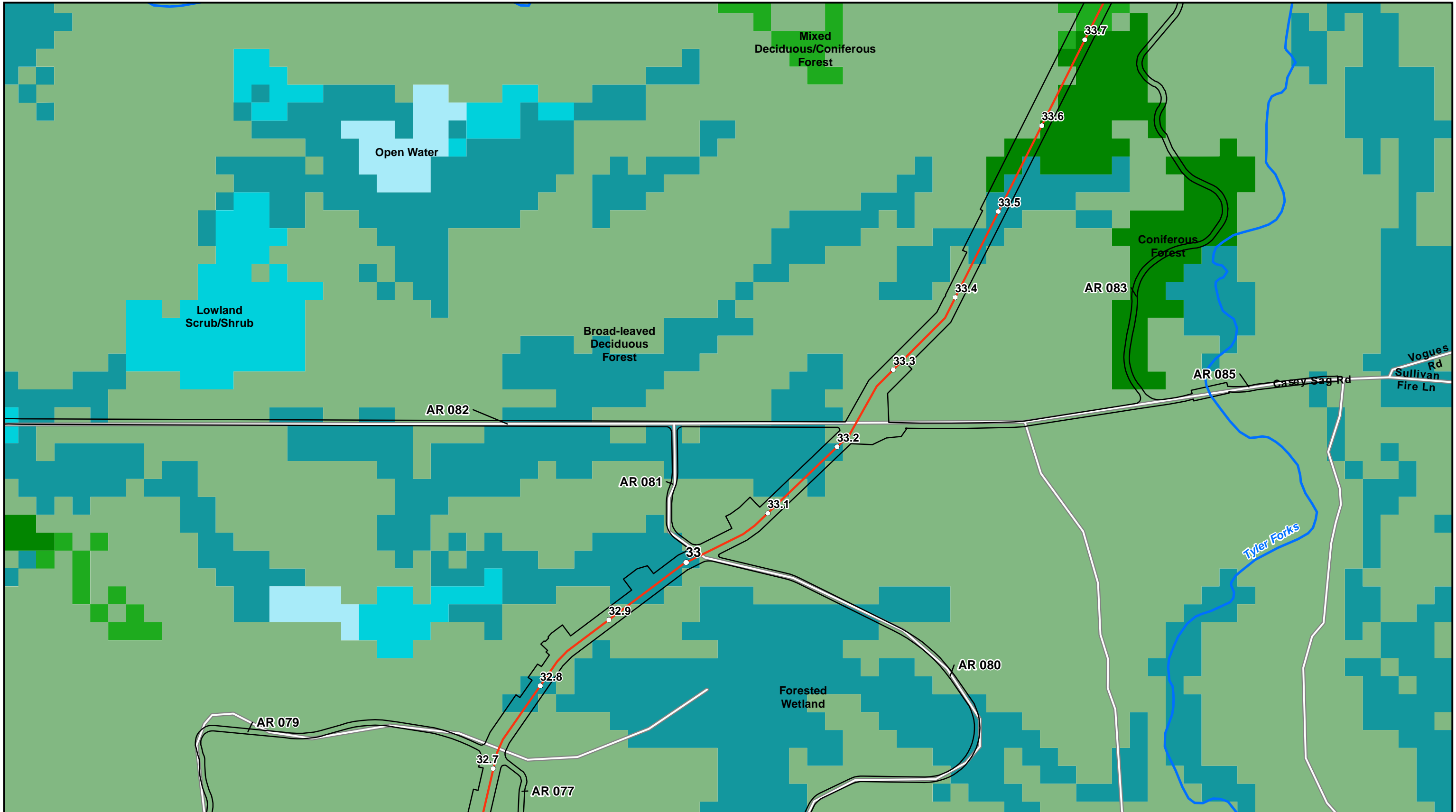


○ Milepost	■ Broad-leaved Deciduous Forest	■ Lowland Scrub/Shrub	■ Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Emergent/Wet Meadow	— Perennial Stream/River
■ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Forage Grassland	■ Developed, High Intensity	
■ Conservation Easement	■ Crop Rotation	■ Open Water	
	■ Forested Wetland		

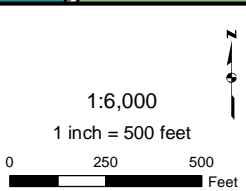


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
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 Ashland and Iron Counties, Wisconsin



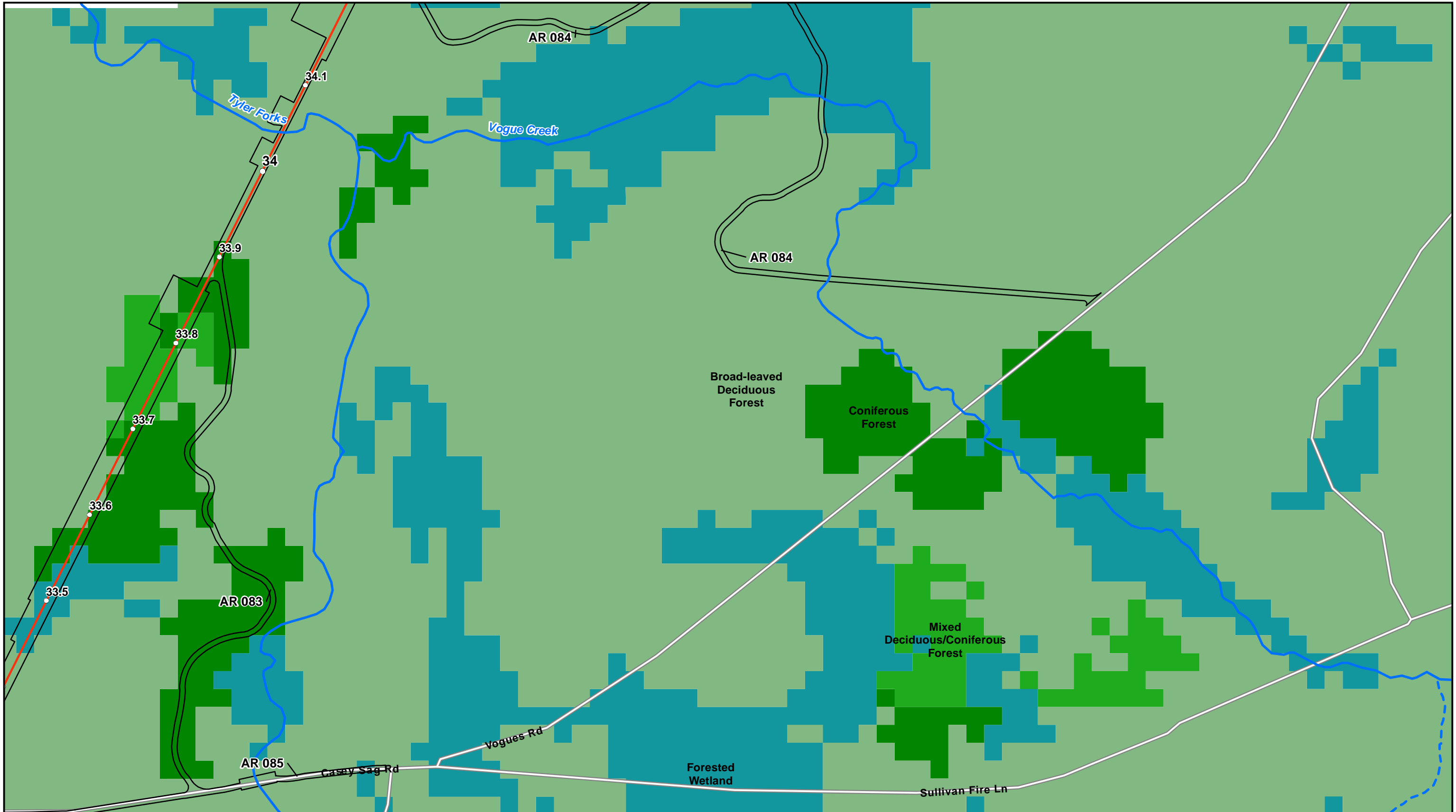


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Mixed Deciduous/Coniferous Forest
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 Enbridge Energy, L.P.
 Iron County, Wisconsin





- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement

- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Mixed Deciduous/Coniferous Forest
- ▭ Forested Wetland

Wisconsin DNR 24K Hydro

- Perennial Stream/River
- - - Intermittent Stream

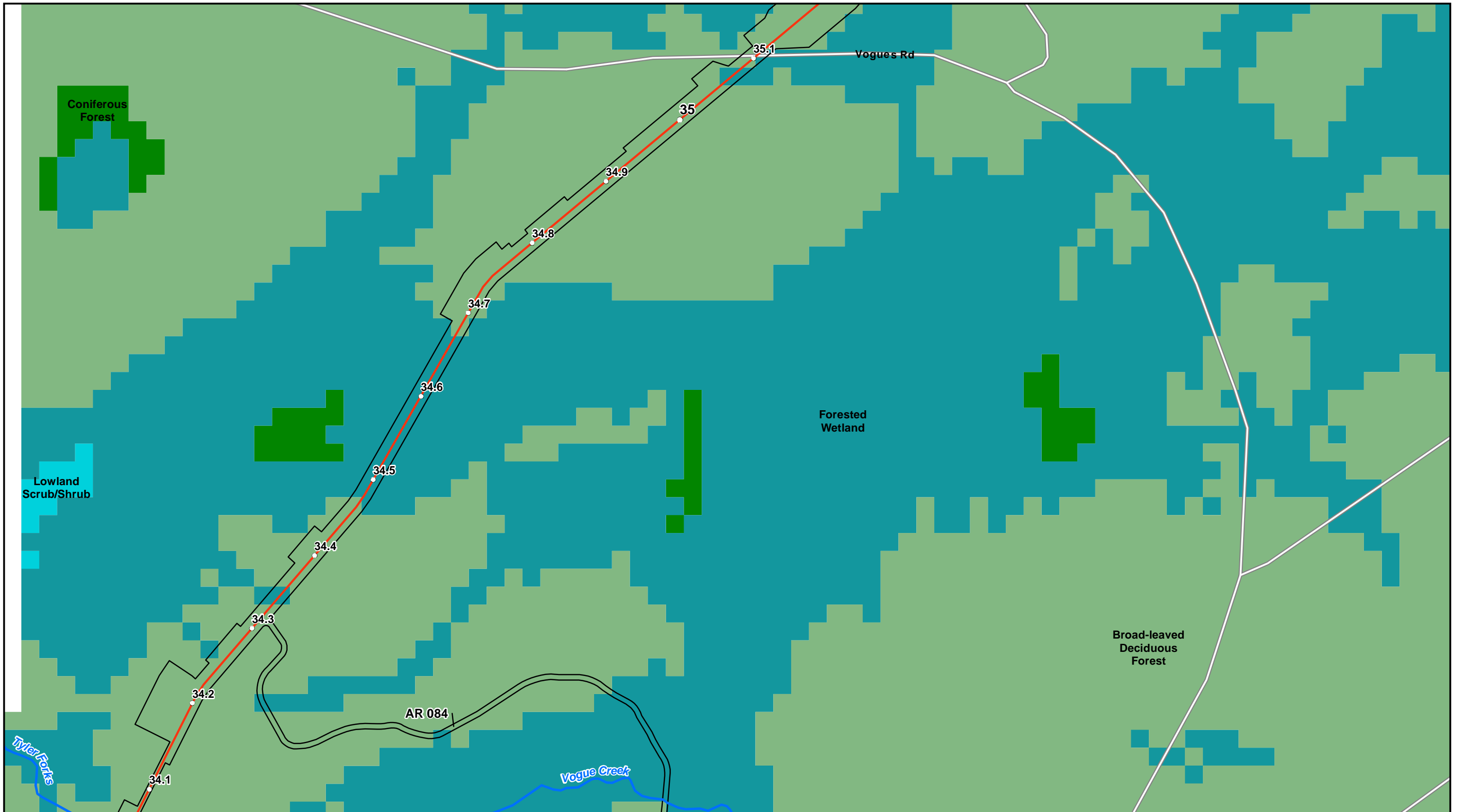
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1 inch = 500 feet

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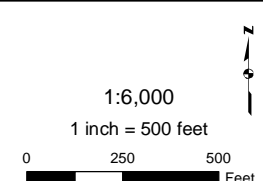


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 Wisconsin Land Use / Land Cover
 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Iron County, Wisconsin



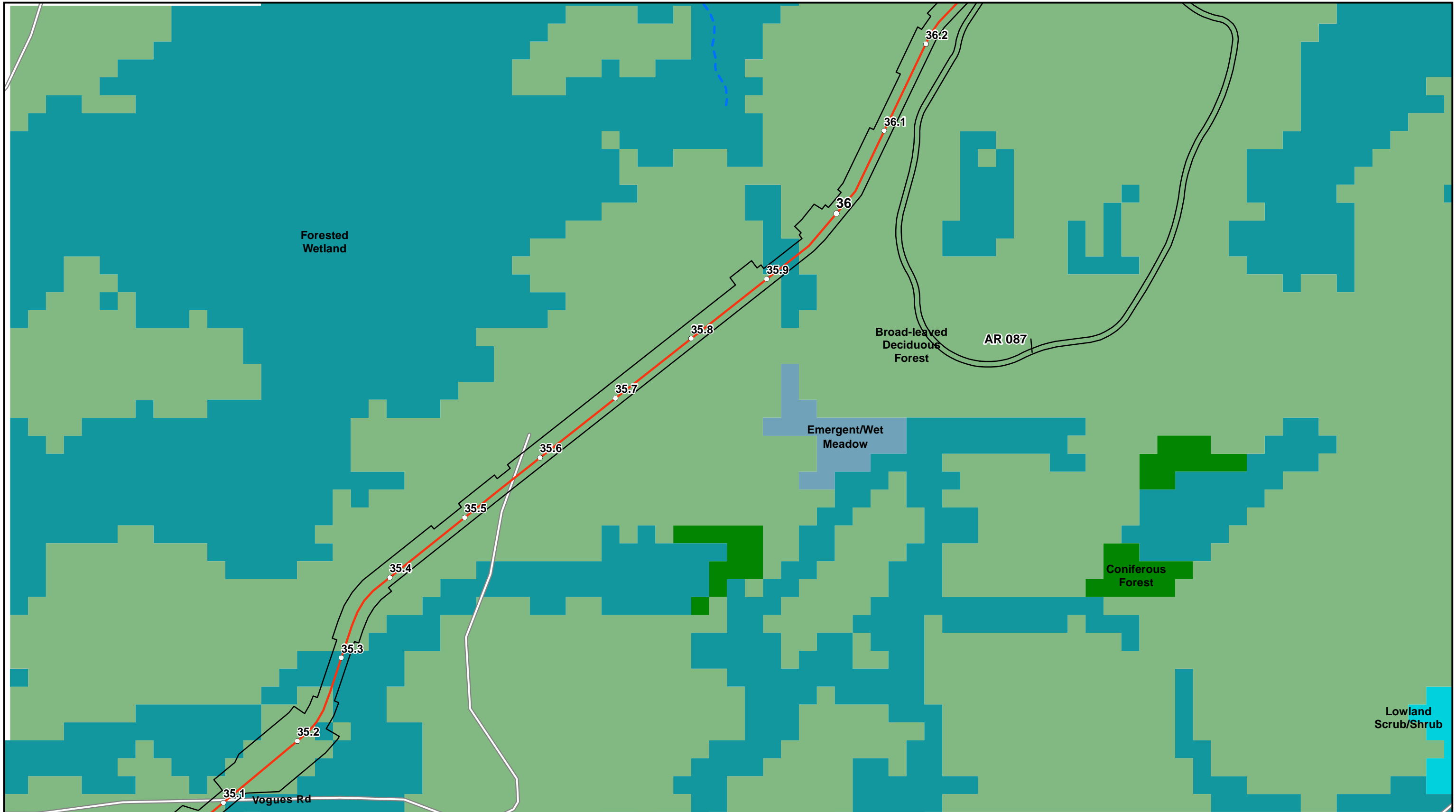


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Forested Wetland
- ▭ Lowland Scrub/Shrub
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- Intermittent Stream



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○ Milepost	■ Broad-leaved Deciduous Forest	■ Lowland Scrub/Shrub	■ Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Emergent/Wet Meadow	— Perennial Stream/River
■ Mainline Valve and Road	■ Forested Wetland	— Intermittent Stream	
□ Workspace (LOD)			
■ Conservation Easement			

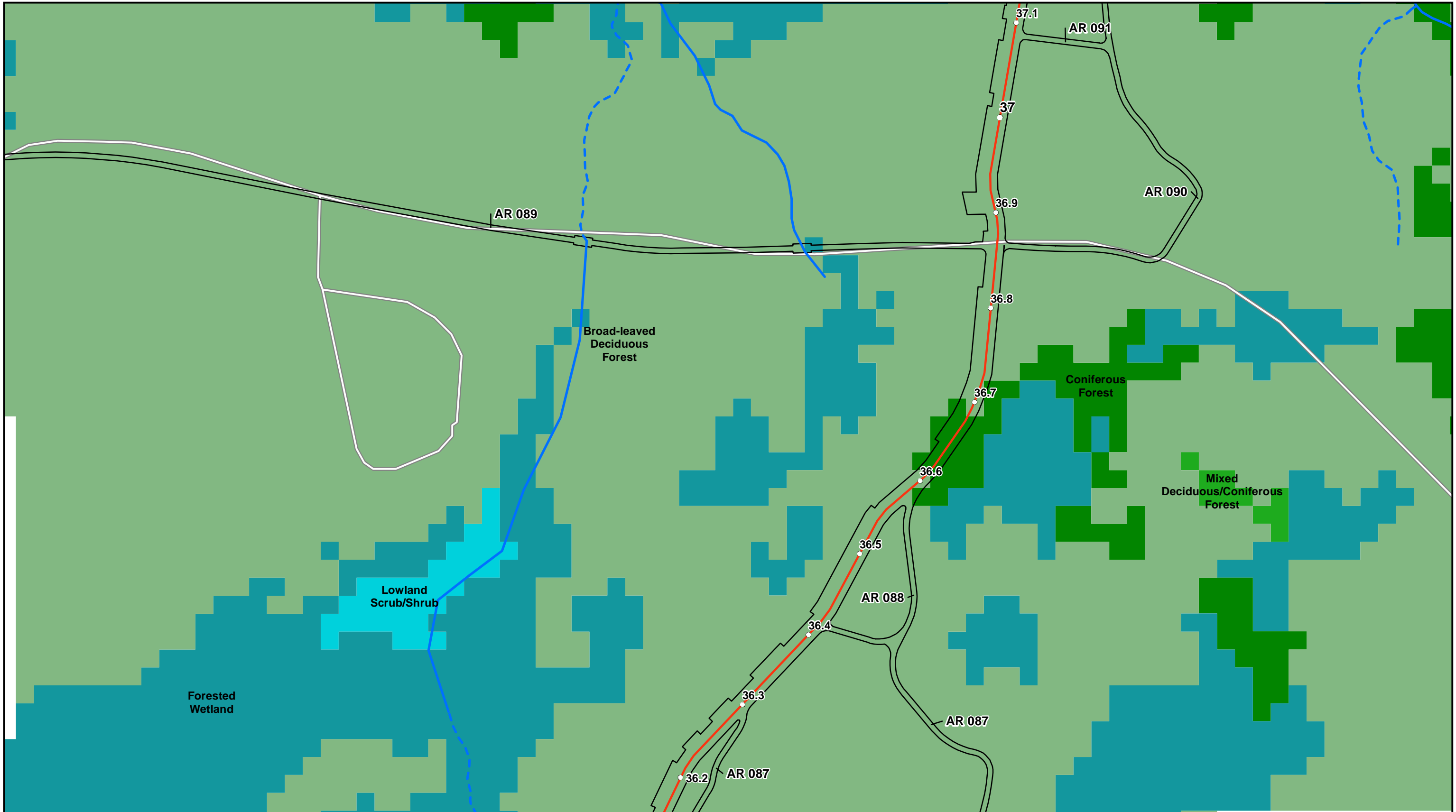
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ENBRIDGE

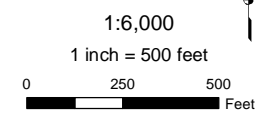
EIR Attachment G
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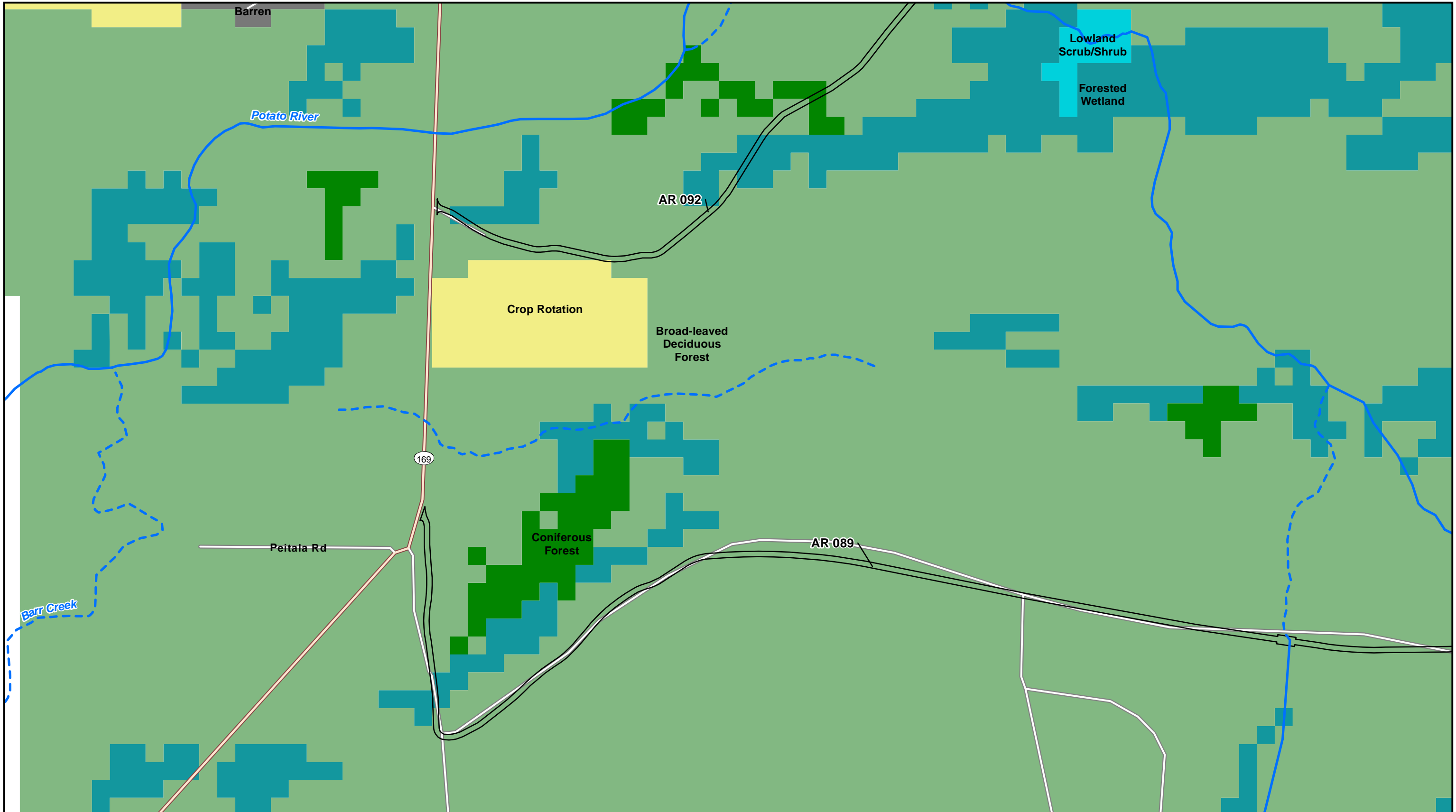


○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Lowland Scrub/Shrub	— Perennial Stream/River
▭ Mainline Valve and Road	■ Mixed Deciduous/Coniferous Forest	— Intermittent Stream	
▭ Workspace (LOD)			
▭ Conservation Easement			

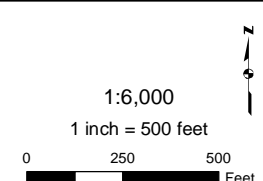


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 Iron County, Wisconsin



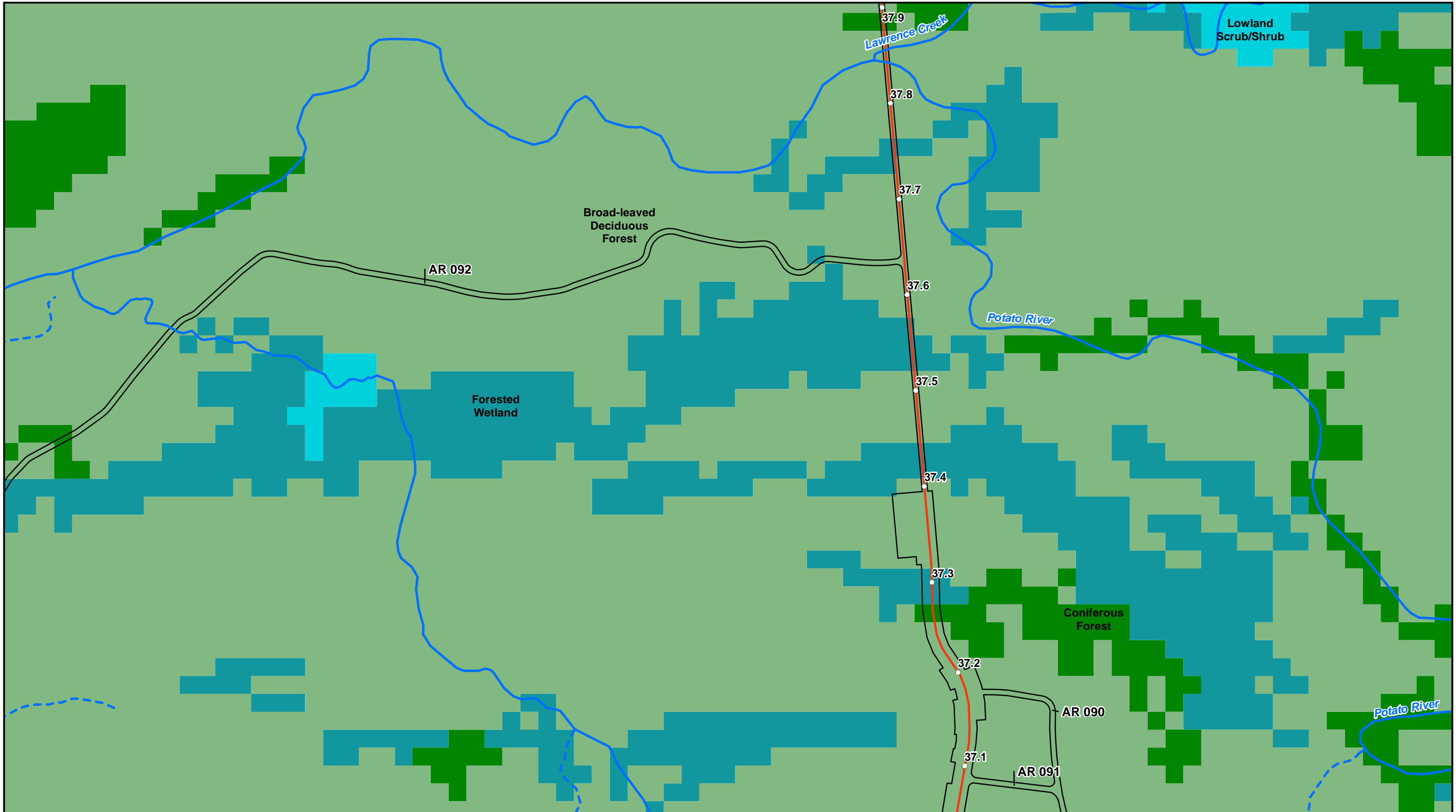


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Crop Rotation
- Forested Wetland
- Lowland Scrub/Shrub
- Barren
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

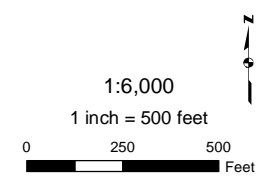


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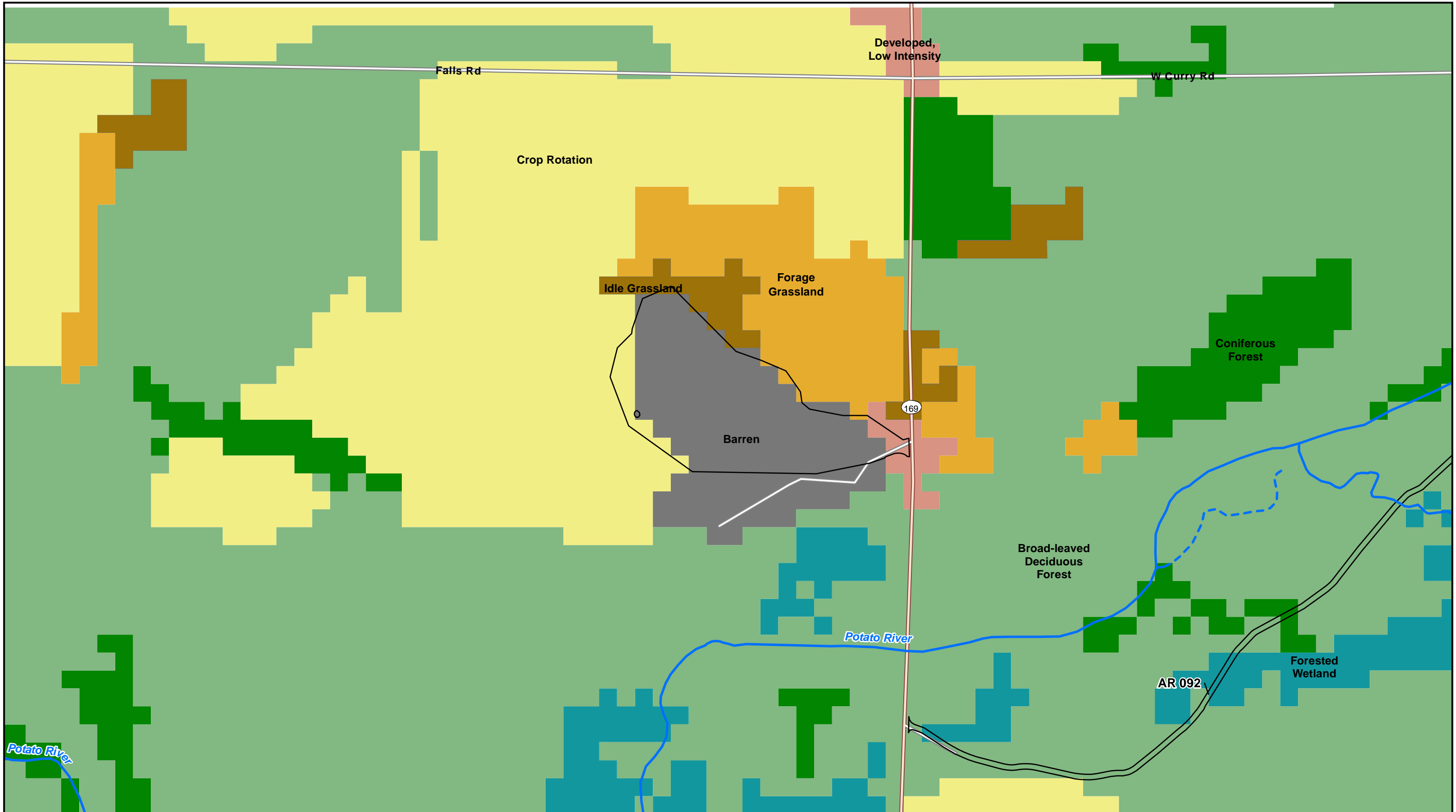




○ Milepost	■ Broad-leaved Deciduous Forest	■ Forested Wetland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Lowland Scrub/Shrub	— Perennial Stream/River
■ Mainline Valve and Road			- - - Intermittent Stream
□ Workspace (LOD)			
■ Conservation Easement			



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○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Forage Grassland	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Crop Rotation	■ Barren	
□ Conservation Easement			

1:6,000
1 inch = 500 feet

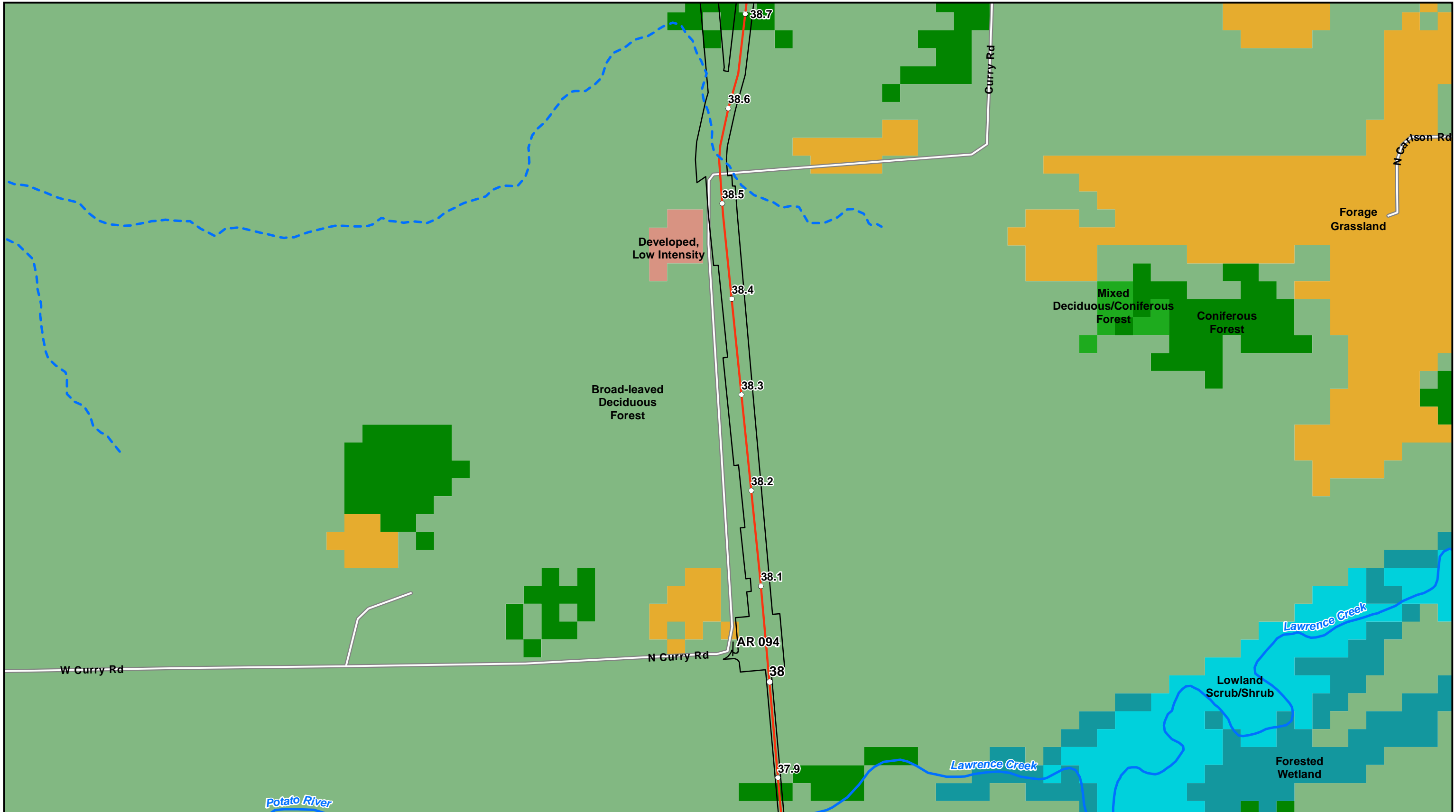
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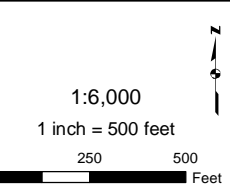
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Wisconsin Land Use / Land Cover
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ERM

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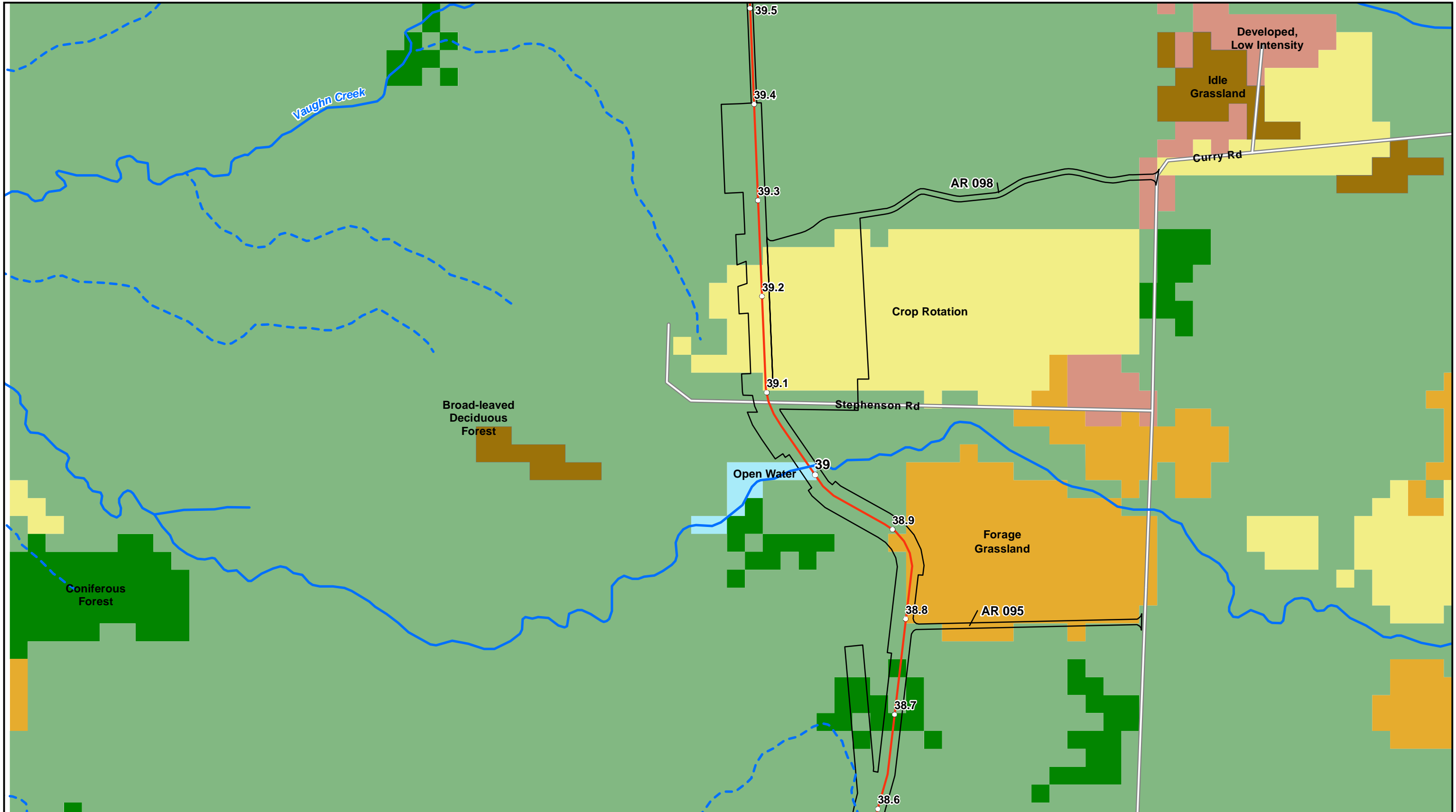


- Milepost
- Proposed Centerline
- ▭ Mainline Valve and Road
- ▭ Workspace (LOD)
- ▭ Conservation Easement
- ▭ Broad-leaved Deciduous Forest
- ▭ Coniferous Forest
- ▭ Mixed Deciduous/Coniferous Forest
- ▭ Forage Grassland
- ▭ Forested Wetland
- ▭ Lowland Scrub/Shrub
- ▭ Developed, Low Intensity
- ▭ Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

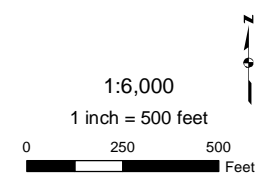


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 Line 5 Wisconsin Segment Relocation Project
 Enbridge Energy, L.P.
 Iron County, Wisconsin



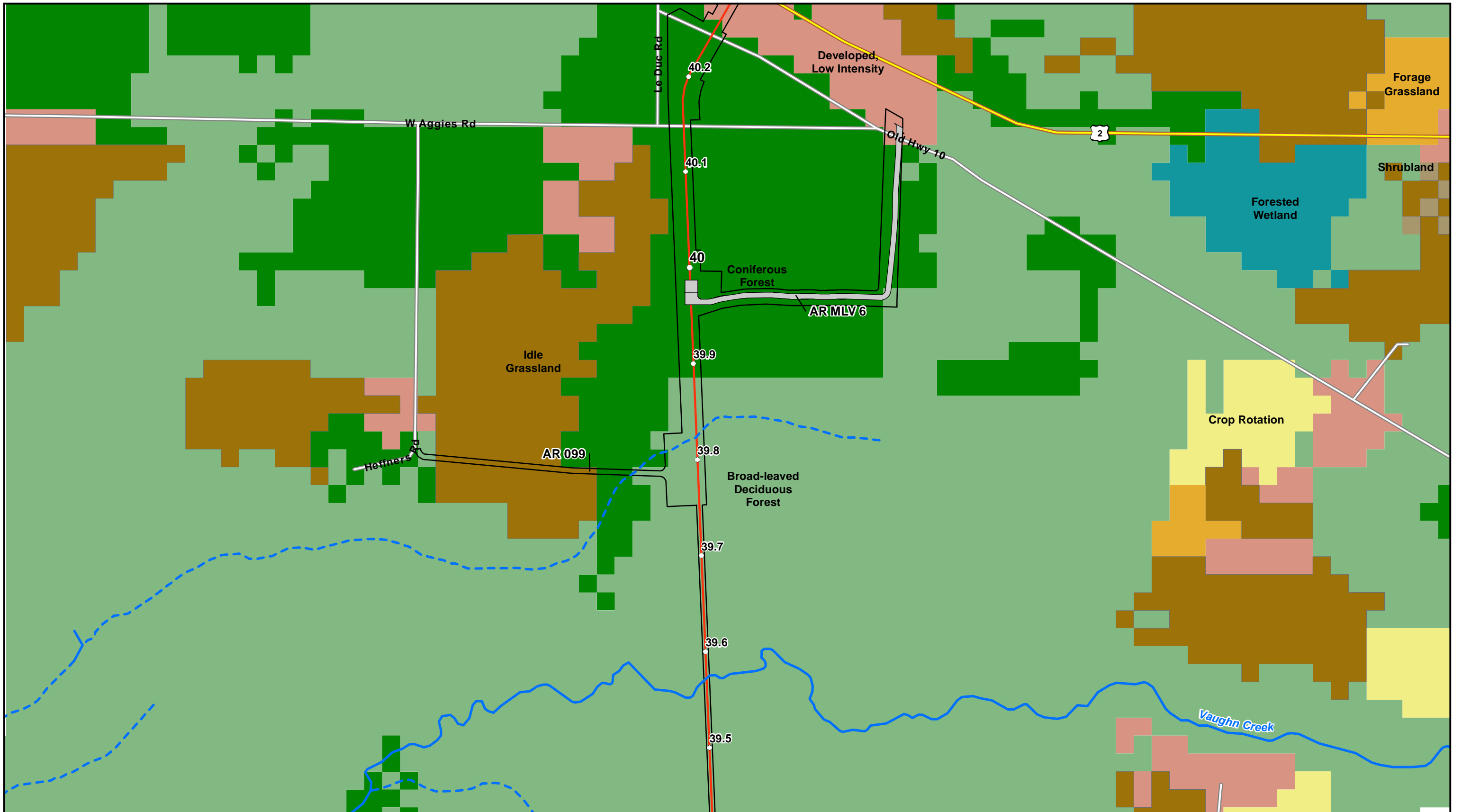


- Milepost
- Proposed Centerline
- Mainline Valve and Road
- Workspace (LOD)
- ▭ Conservation Easement
- Broad-leaved Deciduous Forest
- Coniferous Forest
- Forage Grassland
- Crop Rotation
- Idle Grassland
- Developed, Low Intensity
- Open Water
- Wisconsin DNR 24K Hydro
- Perennial Stream/River
- - - Intermittent Stream

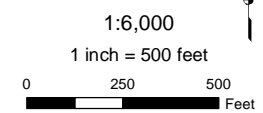


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 Wisconsin Land Use / Land Cover
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 Iron County, Wisconsin



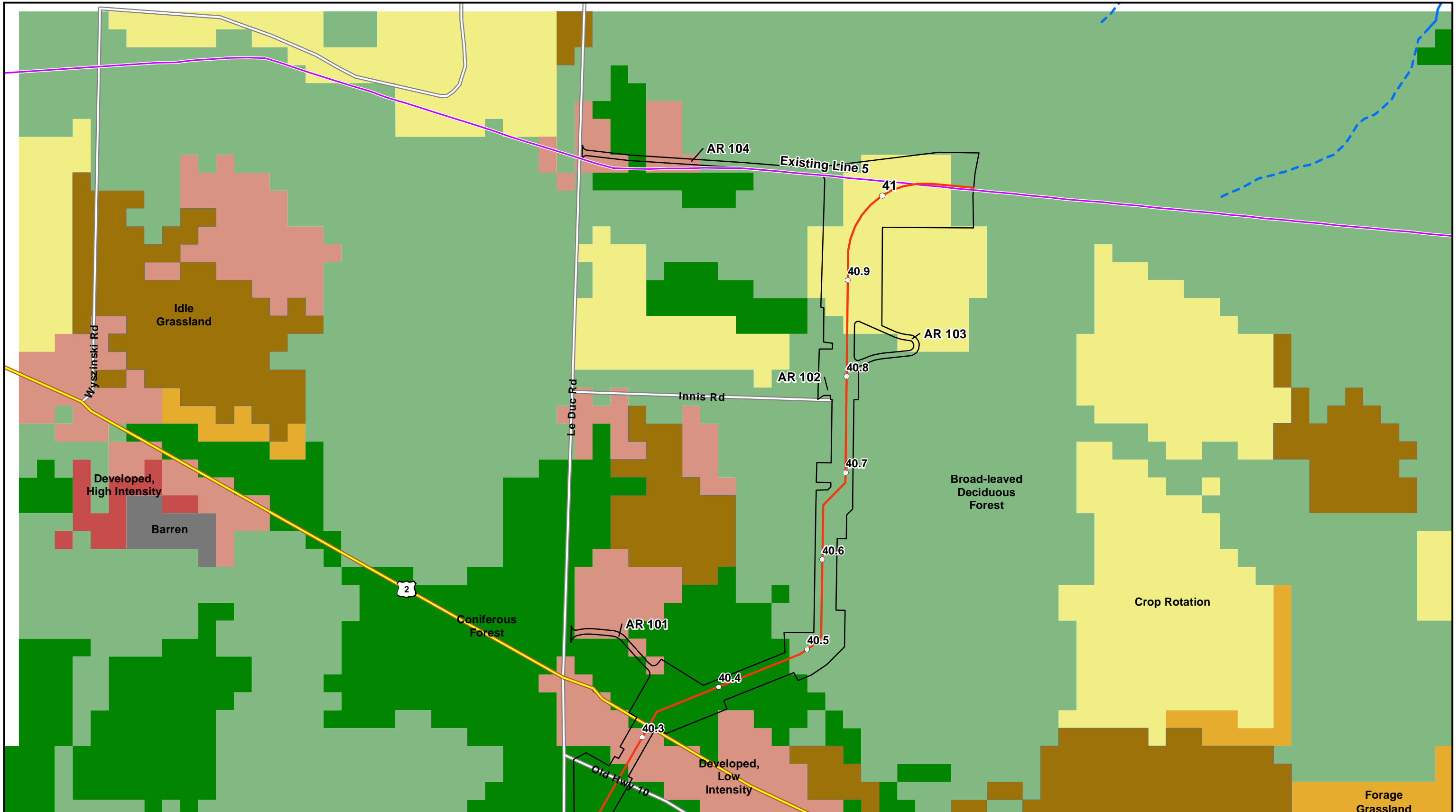


○ Milepost	■ Broad-leaved Deciduous Forest	■ Idle Grassland	Wisconsin DNR 24K Hydro
— Proposed Centerline	■ Coniferous Forest	■ Forested Wetland	— Perennial Stream/River
■ Mainline Valve and Road	■ Foraged Grassland	■ Developed, Low Intensity	- - Intermittent Stream
□ Workspace (LOD)	■ Crop Rotation	■ Shrubland	
■ Conservation Easement			



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<ul style="list-style-type: none"> — Existing Enbridge Pipeline ○ Milepost — Proposed Centerline Mainline Valve and Road Workspace (LOD) Conservation Easement 	<ul style="list-style-type: none"> Broad-leaved Deciduous Forest Coniferous Forest Forage Grassland Crop Rotation 	<ul style="list-style-type: none"> Idle Grassland Developed, Low Intensity Developed, High Intensity Barren 	<ul style="list-style-type: none"> — Wisconsin DNR 24K Hydro — Perennial Stream/River — Intermittent Stream
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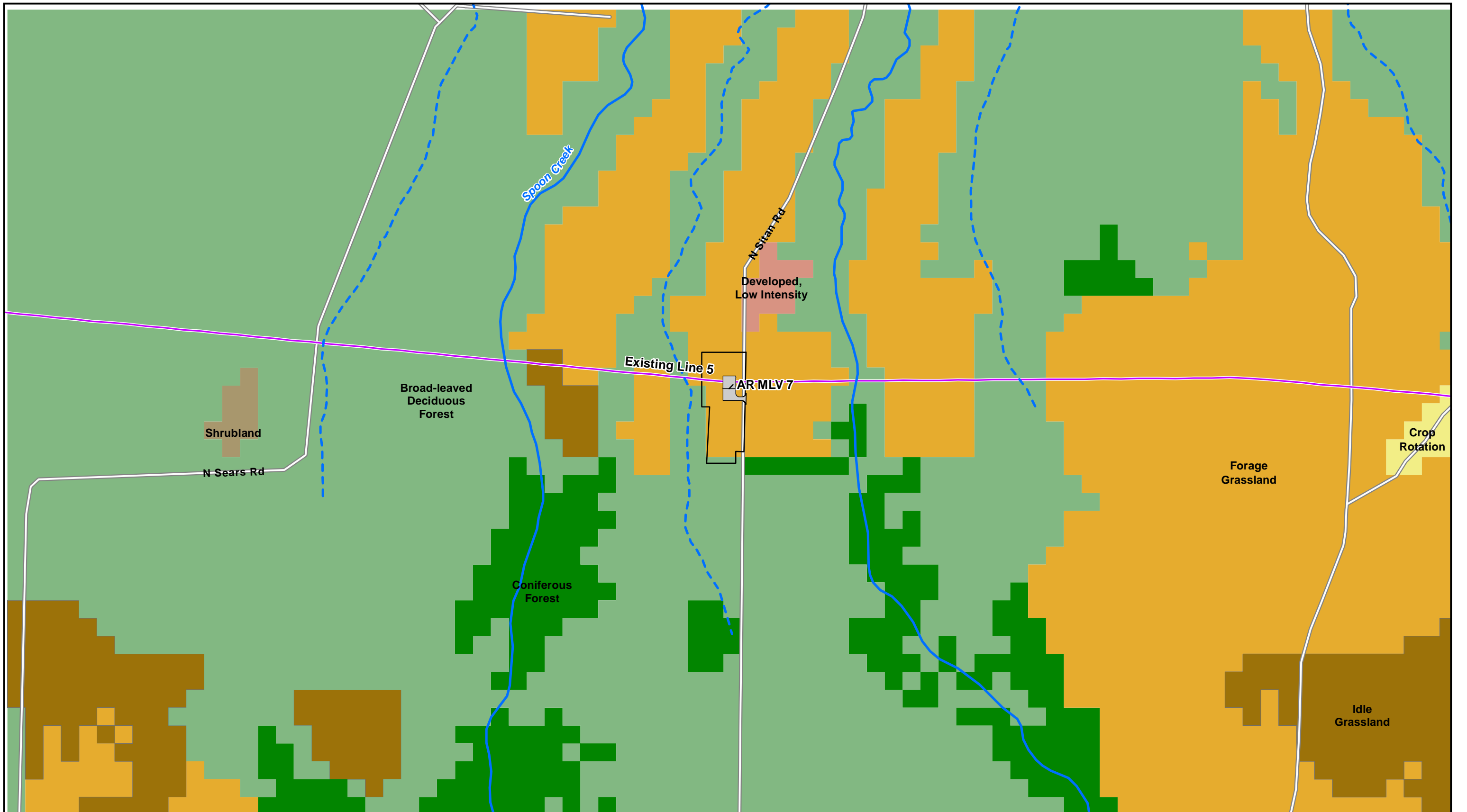
1:6,000
1 inch = 500 feet

Feet

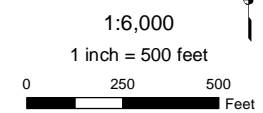


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 Iron County, Wisconsin





Existing Enbridge Pipeline	Broad-leaved Deciduous Forest	Idle Grassland	Wisconsin DNR 24K Hydro
Milepost	Coniferous Forest	Developed, Low Intensity	Perennial Stream/River
Proposed Centerline	Forage Grassland	Shrubland	Intermittent Stream
Mainline Valve and Road	Crop Rotation		
Workspace (LOD)			
Conservation Easement			



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