



Michigan Department of Natural Resources  
Forest Management Division  
**FOREST TREATMENT PROPOSAL**

Check if applicable:  Burning  Planting  Seeding

Location (State Forest, Game Area, etc.) Atlanta Forest Management Unit						Proposal No. P54-1229	
County Alpena	Township 31N	Range 08E	Section 31	Subdivision SW	1/4 Twp NE	Comp. No. 106	Stand No. 61, 64, 67
Additional Stand Numbers (if applicable)							

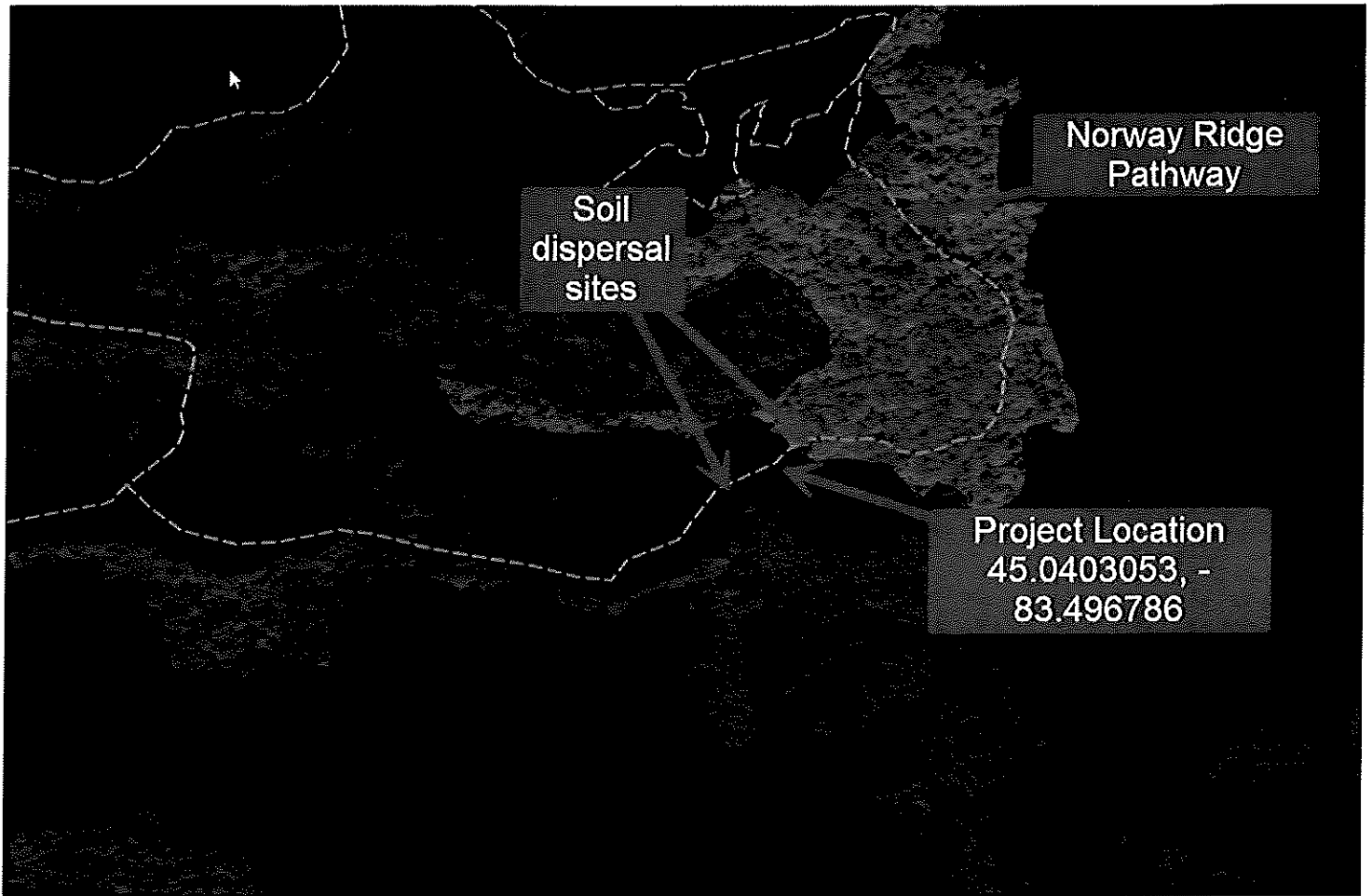

(Scale 1 inch = \_\_\_\_\_ chains) Indicate forest cover type, roads, trails, water features and boundary of area to be treated: x-x-x, After completion, cross hatch area treated.

Materials Needed (chemicals, planting stock, etc.)				
Item	Units	# Per Acre	Total Units	Cost
ESTIMATED COSTS:		\$/acre	Total	

Treatment Proposed: Spreading of soils to support a PRD trail culvert removal project				
Cover Type Objective: NA	Wildlife SPP Objective: NA	Acres to Treat: NA		
Recommended Methods: Spread soils out enough so soils are < 1ft deep.				
Job Specifications: Seed unvegetated soils in accordance with Exhibit B attached.				
Present Conditions				
Cover Type:	Soil Type:	Site Index - SPP:	Yr of Stand Origin:	
Ground Cover SPP:		Topography: <input checked="" type="checkbox"/> Level <input type="checkbox"/> Rolling <input type="checkbox"/> Steep		
	Light	Med.	Heavy	Basal Area Summary
				B.A. SPP.
Stumps				
Slash				Saps
Rocks				Poles
Brush				Saw
				TOTAL
Burn Prescription (for burning only)				
Air Temp	Wind Speed -Direction	10-Hr Stick Moisture %	Fuel Load (tons/A)	Relative Humidity:
Season to Burn (months)	Likely to Achieve Objectives? <input type="checkbox"/> Yes <input type="checkbox"/> No		Date of Prescription	
By:	Title			Date
Plantation Pest Risk Rating (for planting only)				
Indicate Ground Cover Types on Map: Gb = Blueberry      Gs = Sweetfern      Gw - Other Weeds Grb = Bracken      Gr - Grasses      ⊗ = Sand Blows				
Nearest Pine Plantation (Northern LP Only): <input type="checkbox"/> < 1/8 mi <input type="checkbox"/> 1/8 - 1/4 <input type="checkbox"/> 1/4 - 1/2 <input type="checkbox"/> 1/2 - 1 <input type="checkbox"/> > 1 mi				
Pine Species in Nearest Plantation _____				
Pine Root Collar Weevil Present? <input type="checkbox"/> Yes <input type="checkbox"/> No				
Prepared by: Matt Foster			Title: Unit Manager	Date: 2-19-2025

Comments (attach additional pages if necessary): See map in attached email. Dispersed soil should be less than 1ft deep and revegetated with seeds in accordance with Exhibit B. No trees are to be cut.

Approvals			
Area Forester <i>[Signature]</i>	Date 3/6/25	Forest Mgt. Supervisor <i>[Signature]</i>	Date <i>[Signature]</i>
Habitat Biologist <i>[Signature]</i>	Date <i>[Signature]</i>	District Biologist <i>[Signature]</i>	Date <i>[Signature]</i>
Fisheries Biologist <i>[Signature]</i>	Date <i>[Signature]</i>	Fisheries Supervisor <i>[Signature]</i>	Date <i>[Signature]</i>





Michigan Department of Natural Resources – Forest Resources Division

## VEGETATION RESTORATION OF RIGHTS-OF-WAY, WELL SITES, AND OTHER CLEARED SITES ON STATE FOREST LAND - NORTHERN LOWER PENINSULA -

All areas must be satisfactorily re-vegetated as specified by these guidelines except areas that are required to be kept cleared of vegetation under Part 615, Supervisor of Wells, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

All topsoil must be saved as the first action in development in order to provide the best guarantee of success for future site restoration. The saving and stockpiling of topsoil, however thin the layer may be, contains the nutrients, organic matter, and other elements that favor germination and growth of vegetative cover.

If only subsoil remains after site development, it contains fewer nutrients, and the site will be very difficult to restore.

If abandoned, a soil test is mandatory and the pH of the pad and/or pipeline must be adjusted to match that of adjacent stands.

Upon completion of drilling, flowline, pipeline, utility installation, or other type of installation; and also upon abandonment/cessation of use, the access road, drilling pad, pipeline, utility right-of-way, or leased premises must be re-vegetated and restored as detailed below to the satisfaction of the Forest Unit Manager (Department/Grantor's/Lessor's representative).

The entire site must be returned to original contours as much as possible. All perimeter slopes shall not exceed a 1:4 slope.

The topsoil which has been saved and stockpiled prior to site development must be evenly distributed over the area to be re-vegetated. It will be smoothed and tillage tools used as necessary to provide at least 3 inches of firm (rolled or culti-packed at least twice) but friable seedbed, free of large clumps and stones.

On mineral soils, soil tests are recommended but, in lieu of a soil test, fertilizer will be applied at a rate of 500 pounds per acre of 12-12-12 or equivalent. Fertilizer will be tilled into the soil during the final seedbed preparation. All clover seed shall be treated with the proper inoculant.

Seeding should take place in frost free conditions, excluding the months of June, July, and August, unless otherwise approved by the Department/Grantor's/Lessor's representative. Vegetation restoration must be completed within 9 months of the initial clearing of the easement or site, unless otherwise specified by the Department/Grantor's/Lessor's representative.

All planting equipment and machinery must be cleaned to remove possible invasive plants before moving or arriving at the site to be planted.

Cover all seed 1/4 to 1/2 inch deep. The area may be seeded by hydro-seeder.

After seeding on mineral soils, the area must be mulched within 24 hours of seeding with weed-free straw at a rate of 2 tons per acre; or a rate of 2 to 3 small rectangular bales per 1,000 square feet. Other commercially prepared mulch may be used, if approved in writing by the Department/Grantor's representative. It is recommended that mulch be mechanically applied. **Under NO circumstances may hay be used.**

The following seeding mixtures are for application on various soils:

<b>Mineral Soils (Good Soil), Clays, Loams, Loamy Sands</b>	
June Grass ( <i>Koeleria micrantha</i> )	0.5 lbs./acre
White Dutch Clover ( <i>Trifolium repens</i> )	2 lbs./acre
Medium Red Clover ( <i>Trifolium pratense</i> )	2 lbs./acre
Butterflyweed ( <i>Asclepias tuberosa</i> )	1 lb./acre
Annual Rye or Oats Cover Crop	2 bushel/ac.
<b>Mineral Soils (Medium Soil), Sandy Loams</b>	
June Grass ( <i>Koeleria micrantha</i> )	0.4 lbs./acre
Little Blue Stem ( <i>Schizachyrium scoparium</i> )	4 lbs./acre
Medium Red Clover ( <i>Trifolium pratense</i> )	2 lbs./acre
Round-headed Bush Clover ( <i>Lespedeza capitata</i> )	2 lbs./acre
Butterflyweed ( <i>Asclepias tuberosa</i> )	1 lb./acre
<b>Mineral Soils (Critical Area/Very Poor Soil, e.g. Grayling Sand, Jack Pine Barrens &amp; Prairies)</b>	
Big Blue Stem ( <i>Andropogon gerardii</i> )	3 lbs./acre
Indian Grass ( <i>Sorghastrum nutans</i> )	1 lbs./acre
Little Blue Stem ( <i>Schizachyrium scoparium</i> )	5 lbs./acre
June Grass ( <i>Koeleria micrantha</i> )	0.2 lbs./acre
Medium Red Clover ( <i>Trifolium pratense</i> )	2 lbs./acre
Lance-leaved coreopsis ( <i>Coreopsis lanceolata</i> )	1 lb./acre
<b>Organic Soils</b>	
Alsike Clover ( <i>Trifolium hybridum</i> )	2 lbs./acre
White Dutch Clover ( <i>Trifolium repens</i> )	2 lbs./acre
Little Blue Stem ( <i>Schizachyrium scoparium</i> )	5 lbs./acre
June Grass ( <i>Koeleria micrantha</i> )	0.3 lbs./acre
<b>Dunes/Unstable Sand Blow Areas</b>	
Big Blue Stem ( <i>Andropogon gerardii</i> )	3 lbs./acre
American Beach Grass ( <i>Ampophila breviligulata</i> )	2 to 3 culms
(A culm is the stem portion of the plant)	every 18"

In addition, tree and/or shrub seedlings may be required on certain sites because of special resource values. Up to 600 shrubs or tree seedlings may be required per acre on the site to be re-vegetated. If needed, these will be planted at a spacing and design as directed by the Department/Grantor's/Lessor's representative.

The entire well site or right-of-way must be inspected yearly by the Permittee/Grantee and any erosion or bare area repaired, re-seeded, and fertilized immediately.

The entire area must be re-fertilized, as necessary and to the satisfaction of the Department/Grantor's/Lessor's representative, until natural vegetation is fully re-established. Upon abandonment, vegetative cover must be successfully established to the satisfaction of the Department/Grantor's/Lessor's representative.