

ORDER NUMBER
Co. Code/Seq. No./Yr. of Entry 70-011-2020

State of Wisconsin Dept. of Natural Resources
MANAGED FOREST LAW MAP
 Form 2450-133 (R 1/14)

Acreage Entered

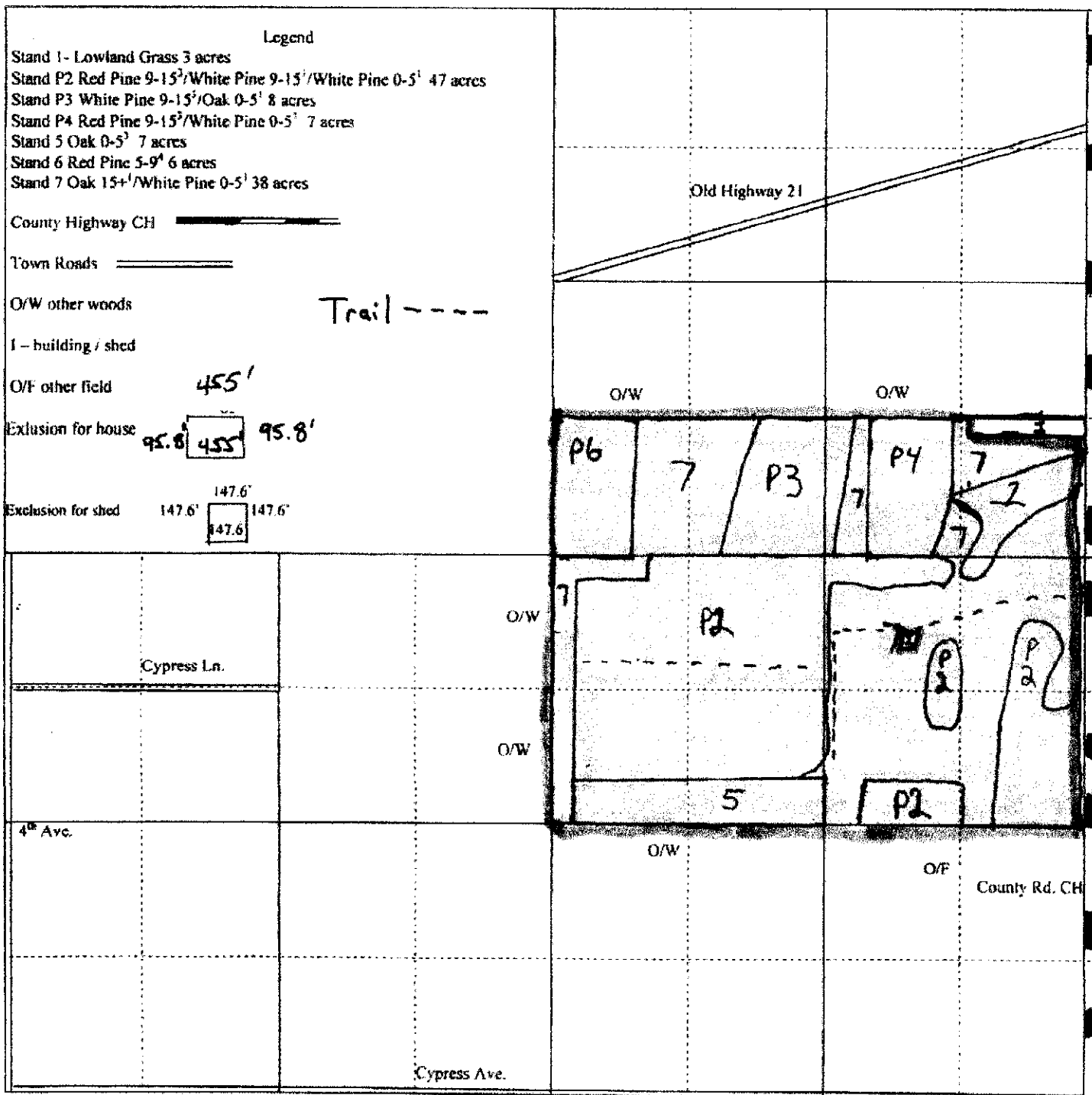
Owner's Name Pine Oak Hills LLC		☐ Multiple Owners	Municipality Name Coloma		County Waushara
Township #18 N	Range # 08	☒ East ☐ West	Section 22	Open Acres 116.32	Closed Acres

Closed Area  Open Area 
 Section Diagram 8" = 1 Mile



Prepared By:
Adam Fuehrer

Date: 3/28/19



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MANAGED FOREST LANDS STEWARDSHIP FORESTRY PLAN

Landowner(s) as Shown on Deed:

PINE OAK HILLS LLC

Name and Address of Contact Person:

PINE OAK HILLS LLC, ATTN: RICK EBERHARDT

1619 CYPRESS TRL
MIDDLETON, WI 53562-3357

Entry Period: 50 years

Starting January 1, 2020 **Ending** December 31, 2069

Municipality(s): Town of Coloma (Waushara County)

Total Acres: 116.320

Attached map(s) show the location of Managed Forest Lands and the areas open or closed to public access.

Purpose and Expectations of the MFL Program

The purpose of the Managed Forest Land Law is to encourage the management of private forestlands for the production of future forest crops for commercial use through sound forestry practices, recognizing the objectives of individual property owners, compatible recreational uses, watershed protection, and development of wildlife habitat and accessibility of private property to the public for recreational purposes. Landowners who enroll in the MFL program pay a reduced property tax (acreage share tax). Landowners who close lands to public access pay an additional closed acreage fee. The Wisconsin Department of Natural Resources (WDNR) adjusts acreage share taxes and closed acreage fees every five years.

"Sound forestry practices" means timber cutting, transporting and forest cultural methods, recommended or approved by the department for the effective propagation and improvement of the various timber types common to Wisconsin.

"Sound Forestry Practices" also may include, where consistent with landowner objectives and approved by the department, the management of forest resources other than trees including wildlife habitat, watersheds, aesthetics and endangered and threatened plant and animal species. The law prohibits the use of Managed Forest Lands for commercial recreation, industry, human residence, grazing of domestic livestock, or other uses the WDNR deems incompatible with the practice of forestry.

Management Plan

Your management plan identifies important program requirements and management practices prescribed for your property. The plan writer determines management practices based on stand conditions of your timber and site capability of your land. The plan writer prescribes a completion year for each mandatory practice. WDNR enters that year into their computer system and will remind you of mandatory practices one year prior to the completion date. The plan writer also recommends approved practices (non-mandatory), which you may complete at your discretion.

Your management plan is just one component of Wisconsin's strategy to promote, support and monitor sustainable forestry practices on privately owned lands. Other resources are available to provide you with the most current information available on natural resources management. You can access those resources on the WDNR public website using the addresses referenced in this plan. You are encouraged to consult this information regularly.

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Contact your local Tax Law Forest Specialist for information about:

- **Requirements of the Managed Forest Law.**
- **The sale or transfer of Managed Forest Law lands to other owners.**

Management Plan Amendment

Your Tax Law Forestry Specialist will monitor your management plan throughout the MFL entry period to address concerns that are newly present or newly identified since the effective date of your plan. Management plan amendments may be recommended to maintain compliance with the provisions of subch. VI of ch. 77, Stats. and ch. NR 46 and in accordance with sound forestry. Amendments could be needed for a number of reasons, not limited to, changes in tree species, tree stocking, damage from weather (wind, ice, snow), insects and disease, forest fire, flooding, land management goals, new management information (silvicultural science), invasive species, fire management, riparian management zones, or presence of endangered, threatened or high conservation value species or communities. Amendments may include additional management activities or monitoring to ensure successful regeneration after a harvest. Amendments must be mutually agreed upon by you and the WDNR.

Landowner Goals

Your management plan blends your goals with site capabilities and MFL program requirements to guide your land management. You identified the following as your goals:

- To maintain a healthy and diverse forest through periodic timber harvest conducted for profit.

Mandatory Practices

Mandatory practices must be completed or in progress by the end of the year listed below. You are encouraged to work with a cooperating forester to establish and administer timber sales. Use the [Forestry Assistance Locator](#) to find a cooperating forester; go to <http://dnr.wi.gov> and search 'Forest Landowner'.

Mandatory Practices Summary

YEAR	STAND(S)	ACRES	TIMBER TYPE	PRACTICE
2035	2	47	Red Pine	CLEARCUT WITH ARTIFICIAL REGENERATION
2035	3	8	White Pine	THINNING
2035	4	7	Red Pine	THINNING
2035	6	6	Red Pine	THINNING
2038	2	47	Red Pine	MACHINE PLANT
2050	3	8	White Pine	THINNING
2050	4	7	Red Pine	THINNING
2050	6	6	Red Pine	THINNING
2062	2	47	Red Pine	THINNING
2062	4	7	Red Pine	CLEARCUT WITH ARTIFICIAL REGENERATION
2065	4	7	Red Pine	MACHINE PLANT
2068	3	8	White Pine	THINNING
2068	6	6	Red Pine	CLEARCUT WITH ARTIFICIAL REGENERATION

Cutting Notice

A Cutting Notice and Report (Form 2450-032) is required to be submitted to the Tax Law Forestry Specialist at least 30 days before a timber harvest occurs. This notice and report ensures that the harvesting of trees complies with the landowner's forest management plan and is consistent with sound forestry practices that are within the guidelines of the Department of Natural Resources Silviculture Handbook and the Forest Management Guidelines. To read these publications go to <http://dnr.wi.gov> and search "Forest Management".

Additionally, landowners must file a separate county cutting notice with the county clerk prior to any harvest.

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Cutting Report

A Cutting Notice and Report (Form 2450-032) is required to be submitted to the DNR within 30 days of completing a timber harvest.

Approved (Non-Mandatory) Practices

There are many optional management practices to enhance the growth rate and species composition of your forest; improve wildlife habitat and recreational activities; increase carbon sequestration; reduce fire hazards on your property; to improve access; and to help you meet other goals. Many of these practices may be eligible for cost-share assistance under the Wisconsin Forest Landowner Grant Program (WFLGP). Listed below are practices common to all timber stands:

- Seeding and mowing of trails and openings – Please contact your local WDNR Wildlife Biologist for information about seed mixtures
- Maintaining snags, den trees, and “wolf” trees – Retain trees during timber harvests and improvement cuts
- Controlling invasive species

Summarized in the table below are approved practices that are specific to individual timber stands. To learn more wildlife friendly ideas, go to <http://dnr.wi.gov> and search ‘Wildlife’.

Approved (non-mandatory) Practices Summary for Individual Stands

YEAR	STAND(S)	ACRES	PRIMARY TYPE	PRACTICE
2022	7	38	Oak	SURVIVAL CHECK

General Description of Areas Identified on Your MFL Property

Foresters combine areas of land with similar vegetative and non-vegetative characteristics for management purposes and call these areas “stands”. The plan describes these stands and you can view the stands on the MFL map(s). Listed below are the descriptions of forest and non-forest areas on your MFL property.

Lowland Grass

Lowland Grass areas predominantly consist of reed canary grass, bluejoint, redtop, cordgrass, and other grasses that grow in wet or periodically flooded conditions. Lowland grasses can grow in a variety of soils, but usually grow in wetter silt and clay soils that retain a lot of water.

Oak Forest

Oak Forests are composed of over 50% oak. In Wisconsin, red oak, black oak, pin oak, white oak, and bur oak are common types of oak trees. Aspen, red maple, hickory, white pine, white birch, basswood, black cherry, sugar maple, elm, and jack pine commonly grow in oak forests. Oak forests are abundant, occurring throughout the state and growing on most soil types. Composition of oak forests varies depending on their location within Wisconsin and on site quality. On nutrient-poor, dry sites, oak forests might include black oak, white oak, northern pin oak, and bur oak. On dry sites, hickories, black cherry, aspen, red maple, and paper birch commonly grow with oak. In northern Wisconsin, pines may also grow in dry oak forests. Sites with a better nutrient and moisture supply may support mixtures of red and white oak, or may be dominantly red oak. On sites with more nutrients, basswood, hickories, ironwood, black cherry, elms, red maple, or white pine may grow with oak. On the richest sites, sugar maple or white ash might also grow with oak. While oaks are still very common trees in Wisconsin, the abundance of high-quality red and white oaks on nutrient-rich sites has declined considerably due to forest succession and failed regeneration. In general, oaks grow best on well-drained loamy soils. All oaks require drastic disturbance of the forest, both overstory and understory, in order to regenerate. On richer sites, oak forests are particularly difficult to regenerate and competition control is essential. Fire is one tool that facilitates the regeneration and maintenance of oak forests. To regenerate oak, foresters commonly mimic the effects of fire using mechanical tools or chemical application.

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Red Pine Forest

Red Pine Forests are composed of more than 50% red pine. White and jack pine, aspen, oak and other native trees commonly grow with red pine. Red pine has been a common tree in plantations.

Red pine grows best in well-drained loamy sands and sandy loams within its range in northern and central Wisconsin. It can grow well on a wide range of other soil conditions if introduced by planting.

White Pine Forest

White Pine Forests consist of more than 50% white pine. Red and jack pine, aspen, paper birch, red maple, oak, balsam fir, white spruce, eastern hemlock and other native trees commonly grow with white pine. White pine is a long-lived tree species that was common in Wisconsin's historic forests. Heavy logging during the cutover made white pine scarce for a time. As trees are becoming old enough to be good seed producers, its numbers are increasing.

White pine grows in almost all soil conditions in Wisconsin but does best on loamy sands, sandy loams, and loam soils.

Resource Protection and Management

Special records and inventories identify important natural, historical or archeological resources on or near your property. The plan writer designed your management practices to protect these resources from disturbance.

You can go to the WDNR website to find information used to evaluate stand conditions and determine management practices for your property. Go to <http://wi.dnr.gov> and search using the keywords shown.

- To learn about Ecological Landscapes of Wisconsin, search for 'Landscapes'.
- To learn about Wildlife Management, Habitat and Natural Communities, search for 'Wildlife' and 'Biodiversity'.
- To see the Wisconsin Wildlife Action Plan, and from there Explore Species Profiles, search for 'ER' or 'Wildlife'.

Your lands lie within a landscape known as Central Sand Hills. You can find an overview of the landscape, species of greatest conservation need, management opportunities and much more. Go to: <http://dnr.wi.gov> and search Landscapes.

Endangered, Threatened and Special Concern Species and Plant Communities

Natural Heritage Inventory (NHI) searches determine if your plan may affect endangered, threatened, or special concern animals, plants or plant communities. To learn about rare plants, animals and natural plant communities in Wisconsin visit <http://dnr.wi.gov> and search for 'NHI'.

The Natural Heritage Inventory (NHI) review showed that there are known Endangered, Threatened or Special Concern Species or Natural Communities on or in the area surrounding your property but suitable habitat for them is not found on your property.

When implementing management practices, mitigation is recommended to minimize potential legal liability arising out of the management practices, for example:

- Best management practices that protect water quality and habitat for rare or aquatic species
- Harvest limits or restrictions to avoid impacts to nesting birds or NHI Working List species
- Surveys for rare species prior to timber sale establishment

Members of the MFL certified group must follow NHI procedures.

Archeological and Historical Resources

State Historical Society records searches determine if your plan may affect archeological and historical sites. These sites require protection from disturbance, including road building, grading or gravelling. Contact your local Tax Law Forestry Specialist for additional information on archaeological and historical sites.

The Archeological Resources Inventory lists no archeological resources within this MFL property.

The Historical Resources Inventory lists no historical resources within this MFL property.

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Invasive Plant Species

Invasive plants may decrease the productivity, regeneration, wildlife habitat, and recreational value of your property. It is essential to identify and control small populations of invasive plants to minimize their spread. The individual stand descriptions list any invasive plant species identified on your property. If you will be conducting a timber harvest on your MFL property, especially one focused on establishing or releasing small seedlings, you may be required to control the invasive plants or other competing vegetation to ensure that desired tree species have room to grow. For information on invasive plant control, consult Wisconsin Council on Forestry's [Forestry Best Management Practices for Invasive Species](#); go to <http://dnr.wi.gov> and search 'Forest Management' to review all BMPs for invasive species.

Best Management Practices for Water Quality (BMPs)

To protect the water quality in Wisconsin's lakes, streams and wetlands and to prevent soil erosion, it is recommended that you implement *Wisconsin's Forestry Best Management Practices for Water Quality* during all forest management activities, such as road building or timber harvesting. However, you are required to implement soil erosion controls during all forest management activities. Specific BMPs will be included in detailed practice or harvest plans. You may require water regulations permits to cross wetlands and streams. Please go to <http://dnr.wi.gov> and search 'Forest Management' to review all BMPs for water quality.

Members of the MFL certified group must follow best management practices for water quality.

Forest Health

Over time, your forest may suffer from insects, disease, windstorm, fire, flooding or drought, etc. These problems may alter your management prescriptions. If you are concerned about forest health, please contact your local Tax Law Forestry Specialist or go to <http://dnr.wi.gov> and search 'Forest health'.

STAND NUMBER 1		3 Acres
Primary Type:	Lowland Grass	
Secondary Type:		

Stand Information

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a muck soil. Muck soils usually occur in wetlands, and have a surface layer of decomposed plant material at least 16" thick. The extent of decomposition of plant parts prevents identification of the original vegetation. Muck soils are wet, so organic matter decomposes slowly and nutrients may not always be available for tree growth. Trees that grow on muck soils are adapted to wet conditions and are typically slow growing. Take care to prevent compaction and rutting when using equipment on these soils. In general, conduct management activities only when the ground is well frozen. These soils may be unsuitable for whole-tree harvesting and the harvesting of fine woody material because of their potential for nutrient depletion.

This area does not grow at the minimum rate of 20 cubic feet of timber per acre per year. Under the Managed Forest Law Program, you can enter areas like this under the non-productive category. This area, as well as other non-productive areas, cannot exceed 20% of any enrolled parcel. If you harvest timber products from this area, you must file a cutting notice and report.

Stand Conditions, Special Features or Characteristics

This is a seasonally wet marsh that fluctuates with water table levels.

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Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

NO SILVICULTURAL SYSTEM APPLICABLE -- This stand has been designated as non-productive. If you choose to passively manage this stand, it will be subject to natural processes like forest succession, wildlife and insect activity, tree aging and decay, windstorms, fire, etc. If you choose to actively manage this stand, in the future a new silvicultural system and management practices must be prescribed.

STAND NUMBER 2		47 Acres
Primary Type:	Red Pine Forest -- Small Sawtimber	
Secondary Type:	White Pine Forest -- Small Sawtimber	

Stand Information

The most abundant tree species in this stand include Red Pine (91%) and White Pine (9%).

These trees make up an even aged stand that originated about 1956. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

Stand Conditions, Special Features or Characteristics

Stand was established between 1955-1957 with 1.5 acres planted in 1965. Overall health is good with the exception of three pocket decline areas. After 2035 cut is complete site should be evaluated for natural regeneration, if it is adequately stocked with Oak and White Pine the 2038 planting may not be needed. The site at that point will be managed for Oak.

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

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FORCED CONVERSION -- Force a conversion of this stand to red pine after harvesting or completing your prescribed management treatments. Natural conversion is not expected because this tree species is not present as younger trees. Some action on your part, such as planting trees or developing the proper seedbed, light and crown conditions for self-seeding, is required in order for this tree species to become established.. Periodically thin the stand throughout the life of the stand to improve quality and vigor. Cutting will remove the old stand to provide the necessary open conditions and sunlight to allow regeneration practices to occur.

Year Scheduled	Mandatory Practice
2035	CLEARCUT WITH ARTIFICIAL REGENERATION. Harvest all trees except designated reserve trees. This clearcut regeneration method allows full sunlight to reach the young trees planted or directly seeded into the opening. Variations of clearcut regeneration include uniform, alternate strip or patch, progressive strip or patch, and without reserve trees. For most Wisconsin forest types, adequate tree reproduction will be established in 3-5 years following the regeneration practice or additional management practices may be required to ensure successful tree reproduction. Some forest stands may need a longer regeneration period, but these situations must be documented and closely monitored to ensure success. Examples of additional management may include hand planting, controlling competing vegetation, or providing tree protection. As the landowner, you should be aware of the need for these potential follow-up actions, and that they may be required in order to complete this mandatory practice.
2038	MACHINE PLANT. Machine plant Red Pine at a rate of 900 trees per acre. Please contact your local WDNR forester for spacing recommendations. Custom planting crews may be available for hire to complete your tree planting project. Check this stand for successful regeneration. If this stand has not adequately regenerated three years after machine planting, additional management practices will be required. For most Wisconsin forest types, adequate tree reproduction will be established in 3-5 years following the regeneration practice or additional management practices may be required to ensure successful tree reproduction. Some forest stands may need a longer regeneration period, but these situations must be documented and closely monitored to ensure success. Examples of additional management may include hand planting, controlling competing vegetation, or providing tree protection. As the landowner, you should be aware of the need for these potential follow-up actions, and that they may be required in order to complete this mandatory practice.
2062	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.

STAND NUMBER 3		8 Acres
Primary Type:	White Pine Forest -- Small Sawtimber	
Secondary Type:	Oak Forest -- Seedlings and Saplings	

Stand Information

The most abundant tree species in this stand is White Pine (88%). In addition to the poletimber and/or sawlog-sized trees, there is an understory of seedlings and/or saplings in the stand, including Other Oak.

These trees make up an even aged stand that originated about 1965. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

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Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

Your plan writer found the following invasive plant species during the forest inventory process:

- Bush Honeysuckle Spp.

Stand Conditions, Special Features or Characteristics

Stand consists of widely spaced White Pine rows. The Oak and Scotch Pine between the rows was cut out in 2018 harvest. On the far east end there are 8-10 rows of 30 year old Red Pine planted.

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

NATURAL EVEN-AGED REGENERATION OF TIMBER TYPE WITH FUTURE THINNING -- Manage the stand through its rotation (the period between initial regeneration and the stand's final cutting) as a single aged forest. Periodically thin the stand throughout the life of the stand to improve quality and vigor. Regeneration cutting will remove the old stand to provide the necessary open conditions and sunlight to regenerate the stand naturally.

Year Scheduled	Mandatory Practice
2035	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2050	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2068	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.

STAND NUMBER 4		7 Acres
Primary Type:	Red Pine Forest -- Small Sawtimber	
Secondary Type:	White Pine Forest -- Seedlings and Saplings	

Stand Information

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The most abundant tree species in this stand is Red Pine (100%). In addition to the pole timber and/or sawlog-sized trees, there is an understory of seedlings and/or saplings in the stand, including White Pine.

These trees make up an even aged stand that originated about 1979. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

Stand Conditions, Special Features or Characteristics

Stand is in overall good health in 2065 stand will be evaluated to see if White Pine and Oak regeneration is sufficient if so the planting mandatory practice could be eliminated.

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

FORCED CONVERSION -- Force a conversion of this stand to red pine after harvesting or completing your prescribed management treatments. Natural conversion is not expected because this tree species is not present as younger trees. Some action on your part, such as planting trees or developing the proper seedbed, light and crown conditions for self-seeding, is required in order for this tree species to become established.. Periodically thin the stand throughout the life of the stand to improve quality and vigor. Cutting will remove the old stand to provide the necessary open conditions and sunlight to allow regeneration practices to occur.

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Year Scheduled	Mandatory Practice
2035	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2050	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2062	CLEARCUT WITH ARTIFICIAL REGENERATION. Harvest all trees except designated reserve trees. This clearcut regeneration method allows full sunlight to reach the young trees planted or directly seeded into the opening. Variations of clearcut regeneration include uniform, alternate strip or patch, progressive strip or patch, and without reserve trees. For most Wisconsin forest types, adequate tree reproduction will be established in 3-5 years following the regeneration practice or additional management practices may be required to ensure successful tree reproduction. Some forest stands may need a longer regeneration period, but these situations must be documented and closely monitored to ensure success. Examples of additional management may include hand planting, controlling competing vegetation, or providing tree protection. As the landowner, you should be aware of the need for these potential follow-up actions, and that they may be required in order to complete this mandatory practice.
2065	MACHINE PLANT. Machine plant Red Pine at a rate of 1000 trees per acre. Please contact your local WDNR forester for spacing recommendations. Custom planting crews may be available for hire to complete your tree planting project. Check this stand for successful regeneration. If this stand has not adequately regenerated three years after machine planting, additional management practices will be required. For most Wisconsin forest types, adequate tree reproduction will be established in 3-5 years following the regeneration practice or additional management practices may be required to ensure successful tree reproduction. Some forest stands may need a longer regeneration period, but these situations must be documented and closely monitored to ensure success. Examples of additional management may include hand planting, controlling competing vegetation, or providing tree protection. As the landowner, you should be aware of the need for these potential follow-up actions, and that they may be required in order to complete this mandatory practice.

STAND NUMBER 5		7 Acres
Primary Type:	Oak Forest – Seedlings and Saplings	
Secondary Type:		

Stand Information

The most abundant tree species in this stand include Black Oak, White Oak and Jack Pine seedlings and/or saplings.

These trees make up an even aged stand that originated about 2002. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

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This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

Stand Conditions, Special Features or Characteristics

Stand is young and vigorous, Oak came in with scattered Jack Pine after 2002 clearcut. When pine is done in adjacent stands in 2050 one might consider cutting the Jack Pine as they will be mature at that point.

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

NATURAL EVEN-AGED REGENERATION OF TIMBER TYPE WITHOUT FUTURE THINNING --
Manage the stand through its rotation (the period between initial regeneration and the stand's final cutting) as a single aged forest. Regeneration cutting will remove the old stand to provide the necessary open conditions and sunlight to regenerate the stand naturally.

Year Scheduled

Mandatory Practice

NONE. No Mandatory Practices expected on this stand for the remainder of the plan.

STAND NUMBER 6		6 Acres
Primary Type:	Red Pine Forest -- Poletimber	
Secondary Type:		

Stand Information

The most abundant tree species in this stand is Red Pine (100%).

These trees make up an even aged stand that originated about 1988. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

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Stand Conditions, Special Features or Characteristics

Stand is in good condition currently. There is a windrow of larger White Pine in the eastern end of this stand. This stand could be rotated in conjunction with 2062 Red Pine thinning (if that site needs planting) or 2068 White Pine thinning.

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

FORCED CONVERSION -- Force a conversion of this stand to red pine after harvesting or completing your prescribed management treatments. Natural conversion is not expected because this tree species is not present as younger trees. Some action on your part, such as planting trees or developing the proper seedbed, light and crown conditions for self-seeding, is required in order for this tree species to become established. Periodically thin the stand throughout the life of the stand to improve quality and vigor. Cutting will remove the old stand to provide the necessary open conditions and sunlight to allow regeneration practices to occur.

Year Scheduled	Mandatory Practice
2035	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2050	THINNING. Remove trees to reduce stand density thereby improving tree growth and enhancing forest health, or to utilize trees that are at risk of mortality. Thin the stand to reduce stocking and concentrate growth on trees that are more desirable by following the order of removal and tree retention guidelines.
2068	CLEARCUT WITH ARTIFICIAL REGENERATION. Harvest all trees except designated reserve trees. This clearcut regeneration method allows full sunlight to reach the young trees planted or directly seeded into the opening. Variations of clearcut regeneration include uniform, alternate strip or patch, progressive strip or patch, and without reserve trees. For most Wisconsin forest types, adequate tree reproduction will be established in 3-5 years following the regeneration practice or additional management practices may be required to ensure successful tree reproduction. Some forest stands may need a longer regeneration period, but these situations must be documented and closely monitored to ensure success. Examples of additional management may include hand planting, controlling competing vegetation, or providing tree protection. As the landowner, you should be aware of the need for these potential follow-up actions, and that they may be required in order to complete this mandatory practice.

STAND NUMBER 7		38 Acres
Primary Type:	Oak Forest – Large Sawtimber	
Secondary Type:	White Pine Forest – Seedlings and Saplings	

Stand Information

The most abundant tree species in this stand is Other Oak (100%). In addition to the poletimber and/or sawlog-sized trees, there is an understory of seedlings and/or saplings in the stand, including White Pine.

These trees make up an even aged stand that originated about 1916. Tree ages in even-aged stands may vary slightly, but the trees began growing in relatively the same period.

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Soil type, moisture and nutrient availability affect site quality, which limits the kind of tree species that will grow on a site, as well as the growth rate and quality of individual trees. Soil productivity also determines the amount of timber harvesting sustainable over time. It also affects other forest attributes, such as wildlife habitat and biodiversity.

This stand has a sandy soil. Sand-sized particles make up 85% or more of this soil, along with up to 15% silt plus clay. Sand particles are larger than silt or clay particles, making these soils drain rapidly. Sandy soils tend to be droughty and nutrient-poor. Trees that are adapted to grow on sandy soils can be either short- or long-lived, and must be able to tolerate extended periods of drought. These soils may be unsuitable for whole-tree harvesting and the harvest of fine woody material because of their potential for nutrient depletion.

Your plan writer found the following invasive plant species during the forest inventory process:

- Bush Honeysuckle Spp.

Stand Conditions, Special Features or Characteristics

Stand was harvested in 2019, White Pine regeneration was spotty, with a long term management goal of Oak. There is a small area in the north west portion of this stand that was damaged by a storm and as a result has a fairly good understory of honeysuckle. This area as well as the area that was salvage cut for oak wilt in 2002 located east of the shed may need some invasive treatment depending on Oak recruitment. There is a small pothole marsh located in the southeast corner of this stand (.4 acres).

Management (Silvicultural) System

Manage and regenerate this stand within generally accepted silvicultural guidelines for the primary type according to the following management system.

NATURAL EVEN-AGED REGENERATION OF TIMBER TYPE WITHOUT FUTURE THINNING --
Manage the stand through its rotation (the period between initial regeneration and the stand's final cutting) as a single aged forest. Regeneration cutting will remove the old stand to provide the necessary open conditions and sunlight to regenerate the stand naturally.

Year Scheduled

Mandatory Practice

NONE. No Mandatory Practices expected on this stand for the remainder of the plan.

Year Scheduled

Approved (Non-Mandatory) Practice

2022

SURVIVAL CHECK. Conduct a follow-up field survey to determine the success of regeneration in a stand. Plan your next steps with your local WDNR Forester after obtaining results.

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ADDITIONAL INFORMATION FOR MANAGEMENT OF YOUR PROPERTY

Cost Share on Forest Management or Tree Planting

Lands enrolled in the MFL program must be maintained at 400 trees per acre for plantations and 800 trees per acre for natural stands.

Programs are available to help share the cost of implementing certain forest management or tree planting projects. You can find more information about financial help and cost share programs; go to <http://dnr.wi.gov> and search 'Forest Landowner'.

You can purchase seedlings through the state nursery program. To learn more about tree availability or to create your own tree planting plan visit: <http://dnr.wi.gov> and search 'Tree planting'.

Timber Harvest Contracts

It is very important that you and your logging contractor have a written and signed contract to guide the harvesting process before starting any harvesting. For more information on writing contracts for timber sales please visit <http://dnr.wi.gov> and search 'Forest Landowner'.

Non-Timber Forest Products

You may harvest non-timber products, including but not limited to mushrooms, berries, ferns, evergreen boughs, cones, nuts, seeds, maple sap, bark, twigs, moss, and edible and/or medicinal plants. Wisconsin statutes may regulate some of these non-timber products, such as ginseng. Others might be threatened or endangered species, and protected by law. Follow all applicable laws when harvesting non-timber products. You must take care to prevent over-harvesting and reducing biological diversity and ecosystem functions. For additional information on how harvesting of non-timber forest products will affect management of your forestland please contact your local Tax Law Forestry Specialist using the Forestry Assistance Locator; go to <http://dnr.wi.gov> and search 'Forest Landowner'.

Forest Certification

Lands entered into the MFL program may be included in the MFL Certified Group. The MFL program is certified under the American Tree Farm System® (ATFS®) and the Forest Stewardship Council® (FSC®). Regardless of whether lands are included in the MFL Certified Group, all rules and regulations of the MFL program must be followed.

This certification is voluntary and at no additional cost. You can choose to be included in the MFL Certified Group when enrolling your land in MFL, if you purchase MFL lands, or at any time during your enrollment. If you wish to apply or depart from the MFL Certified Group, you must file the Managed Forest Law Certified Group Application/Departure Request (form 2450-192). Departure from the MFL Certified Group does not affect your MFL designation.

Third party certification is beneficial in many ways, some of which are the ability to sell to the certified marketplace; future ability to participate in carbon markets; and an opportunity to educate the public about the importance of well managed private forests.

Specific group member duties include:

1. Petitioning for MFL designation
2. Agreeing to follow a WDNR-approved forest management plan
3. Conforming to MFL statutes and regulations
4. Conforming to ATFS® and FSC® certification standards, including any measures that might go beyond those stipulated in MFL statutes or administrative rules or other state, federal or local laws – Some features that are emphasized in the ATFS® or FSC® standards include:
 - a. Allowing access for MFL Group forest certification field audits
 - b. When needed, using pesticides not prohibited by FSC®. You can find a list of FSC® prohibited pesticides on the MFL Certification page; go to <http://dnr.wi.gov> and search 'Forest Certification'. Landowners should self-report pesticide use on their lands using the online form on the same webpage.
 - c. Not planting Genetically Modified Organisms (GMO) in the forest

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- d. Keeping forest products harvested from MFL Group land separate from products harvested from non-MFL Group land during commercial harvest operations
- e. Endeavoring to adhere to Wisconsin Forestry Best Management Practices
- f. Striving to consider appropriate liability insurance and safety requirements in timber sales and other contracts
- g. Using the ATFS® and FSC® logos in conformance with their trademark policies
- h. Resolving disputes with easement holders, lien holders and holders of management rights in an expeditious manner.

For more information about forest certification, please contact your Tax Law Forestry Specialist or visit <http://dnr.wi.gov> and search for 'Forest Certification'

Wildfire Prevention and Planning

Every year in Wisconsin, thousands of wildfires occur, destroying dozens of structures and threatening to burn hundreds more. An increasing number of people living and recreating in Wisconsin's wildland-urban interface is creating a growing need for fire prevention and planning for fires that will inevitably occur.

Because of their proximity to forested lands, there is the potential for homes and property to be at significant risk of damage or destruction in the event of a wildfire. As part of the landscape planning process, it is important to determine the level of danger to properties and learn how to mitigate those dangers.

You can take action to reduce the exposure of your home or property to fire. Use fire resistant building materials, incorporate fuel breaks into the landscape, and know the local burning restrictions.

For more information on fire danger and burning permit restrictions, go to <http://dnr.wi.gov> and search 'Fire'. For more information on making your home and property more survivable in the event of a wildfire, go to <http://dnr.wi.gov> and search 'Firewise'.

Forest Carbon

Forests are a significant piece of the global carbon cycle because of their ability to absorb and sequester carbon dioxide. Learn how your forest adds to the global carbon balance and be aware of the rules affecting your participation in forest carbon markets. For information, visit the US Forest Service website: <http://www.na.fs.fed.us/ecosystemservices/carbon/>.

Lands Enrolled in the MFL Program

In conjunction with your MFL maps and air photos, this land information helps you to identify your lands enrolled in the MFL program.

Town/Range/Section	Legal Description	Tax Parcel ID No.	Certified Survey Map Information	Enrolled Acreage	
				Open to Public Access	Closed to Public Access
County: Waushara		Municipality: Town of Coloma			
18N-08E-22	SWNE, PART OF	00602213-0200		20.000	0.000
18N-08E-22	SENE, PART OF	006022140200		17.100	0.000
18N-08E-22	NESE, PART OF	006022410100		39.220	0.000
18N-08E-22	NWSE	006022420000		40.000	0.000
Total Acreage:				116.320	0.000

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Forester Contact Information

Contact your local Tax Law Forestry Specialist for information about:

- Requirements of the Managed Forest Law.
- The sale or transfer of Managed Forest Law lands to other owners.

Plan Preparer Contact Information

FUEHRER, ADAM
VERSO CORPORATION
N2284 6TH AVE.
COLOMA, WI 54930
(715) 213-1273
ADAM.FUEHRER@VERSOCO.COM

Tax Law Forestry Specialist Contact Information

SIGLINSKY, MACKENZIE
DEPARTMENT OF NATURAL RESOURCES
427 E TOWER DR STE 100
WAUTOMA, WI 54982-6945
(715) 281-7371
MACKENZIE.SIGLINSKY@WISCONSIN.GOV

Owners Acceptance and Agreement to the Management Plan

All owners must read and complete the following

Note: These certifications do not supersede or in any way affect certifications on any application or transfer form associated with this order and signed by the landowner.

I/We have read and understand the management plan I/we are agreeing to follow.

I/We understand and agree that I/we are responsible for and intend to comply with the management plan and all other requirements of the MFL program including: (i) Subchapter VI of Chapter 77, Wis. Stats., (ii) Subchapter III of Chapter NR 46, Wis. Adm. Code.

All Owners must sign, including life estate holders if applicable.

Name (please print)	Signature	Date Signed	Initial and Date for Changes
PINE OAK HILLS LLC			