



Compartment Review Presentation

Gaylord Forest Management Unit

Compartment 52041

Entry Year 2017

Acreage: 1,726

County Charlevoix

Management Area: Chandler Hills

Revision Date: 2015-05-11

Stand Examiner: Zach Crew

Legal Description:

T33N R04W Sections: 31, 32, and 33

Identified Planning Goals:

To provide for the protection, integrated management and responsible use of a healthy, productive and undiminished forest resource base for the social, recreational, environmental and economic benefit of the State of Michigan.

Soil and topography:

Kalkaska and Leelanau Sands. Chandler Hills are a very steep glacial feature with hills up to 70% slope and elevation changes of 300+ feet. Level terrain associated with Springbrook Swamp.

Ownership Patterns, Development, and Land Use in and Around the Compartment:

Area is frequently subjected to dispersed camping and associated resource damage concerns. Dispersed recreation is evident throughout the compartment.

Unique Natural Features:

Potential for red-shouldered hawk and goshawk. Potential for massasauga, Blanding's turtle and wood turtle along Springbrook Creek. Potential for great blue heron rookery, eagle, and osprey. Potential for calypso orchid, ram's head orchid, and limestone oak fern in conifer swamp. Central portion of the compartment contains Chandler Hills Lower Bear River PLU.

Archeological, Historical, and Cultural Features:

There are HAL concerns in section 33.

Special Management Designations or Considerations:

Purchased by State Game Fund prior to Act 325.

Watershed and Fisheries Considerations:

This compartment is in the Spring Brook watershed. Spring Brook is a high quality, naturally reproducing brook trout stream, arguable one of the best brook trout streams in the Lower Peninsula. Many small intermittent streams that connect to the North Branch of Spring Brook are located in near treatment areas. Though none of the treatments proposed appear as though they will have direct impacts, the small tributaries found within the swampy lowland areas should be protected with the appropriate BMP's.

Wildlife Habitat Considerations:

Treatments in this compartment will maintain age class diversity in aspen and oak while creating early successional habitat benefiting deer, grouse, wild turkey and woodcock. Oak clumps and/or large crowned oak will be left where appropriate for hard mast. Openings are prescribed to be maintained and supplemented with hard and soft mast plantings benefiting deer, grouse, wild turkey, and woodcock.

Mineral Resource and Development Concerns and/or Restrictions

Surface sediments consist of an end moraine of coarse-textured till and glacial outwash sand and gravel and postglacial alluvium. The glacial drift thickness varies between 200 and 400 feet. Beneath the glacial drift is the Antrim Shale. The Antrim is quarried for cement products elsewhere in the state. A gravel pit is located in Section 33 (Chandler Hill Rd Pit) and potential is good. This area may be too far north for development of the Antrim Shale, as the Antrim Shale is nearing its subcrop limit. There is Antrim production in Section 34. Much of State minerals in the compartment are currently under lease.

Vehicle Access:

LAND USE ORDERS OF THE DIRECTOR 4.12 Certain state-owned lands, Charlevoix county, wheeled motorized vehicles, camping, prohibited conduct. A person shall not operate a motorized vehicle upon the E½ of the E¼ of section

16, any part of section 21, the N½ of section 28, and the NW¼ of section 33, T33N R4W.

Parcels east of the power line have excellent access in areas of up land. Slashing and Chandler Hill Roads have recently been resurfaced. Forest roads provide adequate but hilly access. Erosion concerns on forest roads are valid. Western portions of the compartment are accessed by a seasonal county road and forest roads. Vehicles are not capable of using the power line to cross the compartment.

Survey Needs:

None at this time.

Recreational Facilities and Opportunities:

The Springbrook walking trail and The North Country Trail are found in this compartment. A MCCCT trail and snowmobile trail #76 are also present. This area is heavily used by dispersed campers spring through fall. Many forms of outdoor recreation evident throughout.

Fire Protection:

Cover types are not prone to large fire events. Topography will be equipment limiting. If a fire does occur potential for large project fire exists due to access limitations.

Additional Compartment Information:

The following reports from the Inventory are attached:

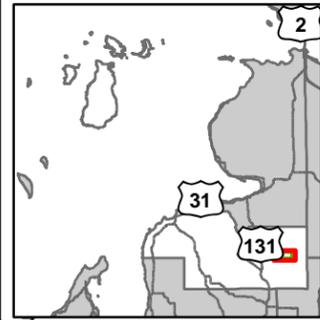
- Total Acres by Cover Type and Age Class**
- Cover Type by Harvest Method**
- Proposed Treatments – No Limiting Factors**
- Proposed Treatments – With Limiting Factors**
- Stand Details (Forested and Nonforested)**
- Dedicated and Proposed Special Conservation Areas**
- Site Condition Details**

The following information is displayed, where pertinent, on the attached compartment maps:

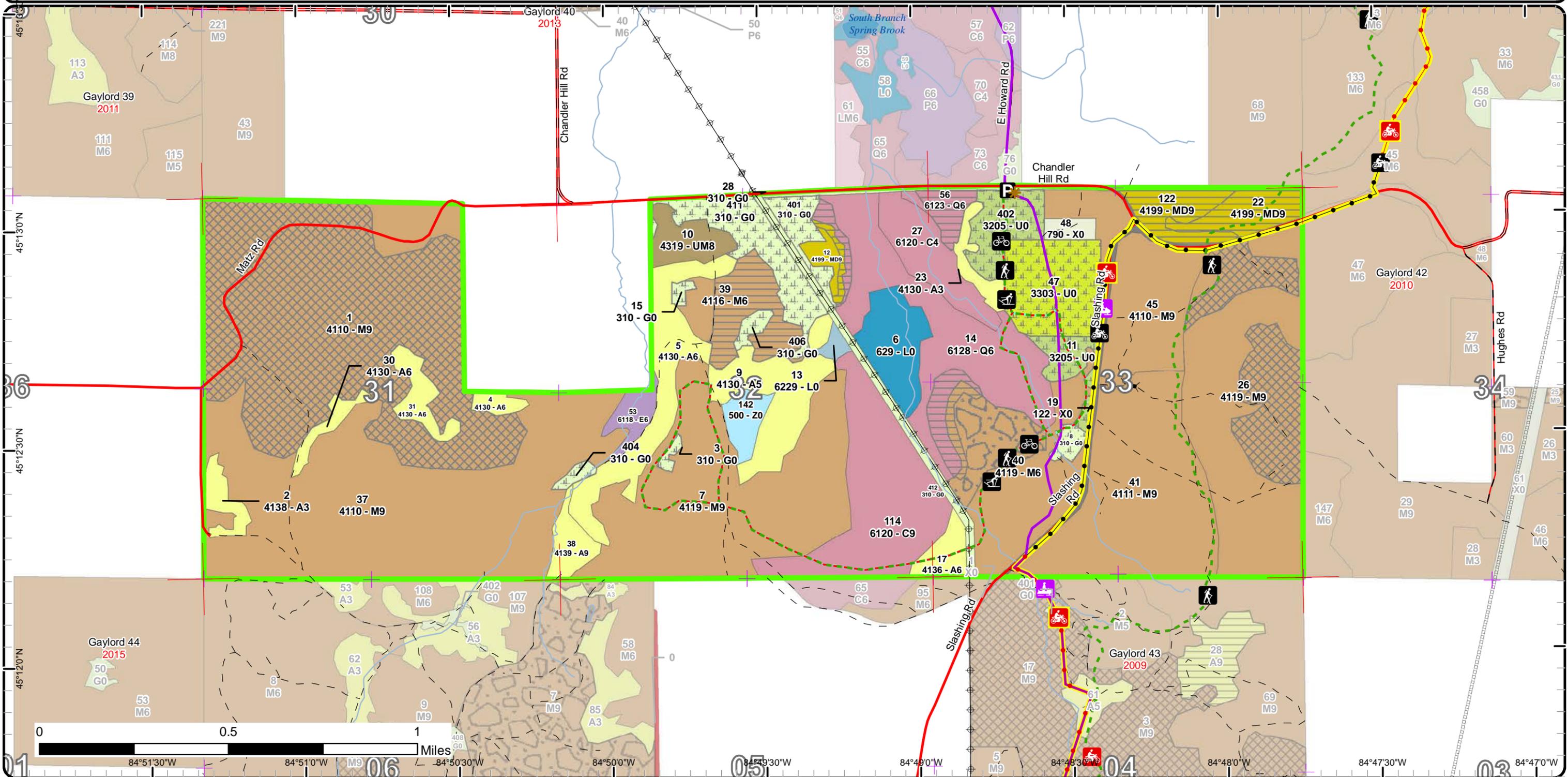
- Base feature information, stand boundaries, cover types, and numbers**
- Proposed treatments**
- Site condition boundaries**
- Details on the road access system**

Cover Type & Treatments

Compartment: 41
 T33N,R04W, Sec. 31-33
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2017
 Acres: 1726 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 5/21/2015
 Map Phase: Pre-Review

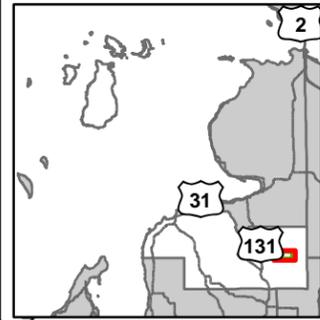


- ✦ Remonumented Section Corners
- Miris Corners
- County Paved Roads
- County Gravel Roads
- Gravel Roads
- Poor Dirt Roads
- County Poor Dirt Roads
- Bridges
- P** Parking Lot
- ★ Trailhead
- 🚲 Bike Trails
- 🏍️ Motorcycle Trails (SOS License)
- 🏍️ Motorcycle Trails (DNR License)
- 🚶 Hiking Trails
- 🚲 MCCCT Trails
- 🏂 Ski Trails
- 🚙 Snowmobile Trails
- Designated Hiking Pathways
- Designated Bicycle Trails
- Designated Ski Trails
- ORV License
- ORV License & Trail Permit
- Yes
- Designated MCCCT Trails
- Rivers
- 🌊 Lakes
- Pipeline
- ⚡ Powerline
- Treatments**
- ▨ Selection (Group, Single Tree)
- ▨ Clearcut (w/Reserves)
- ▨ Other Treatment - See Comments
- ▨ Regeneration Survey
- Forest Coverture**
- 411 - Northern Hardwood
- 413 - Aspen
- 419 - Mixed Upland Deciduous
- 430 - Upland Mixed Fores
- 611 - Lowland Deciduous Forest
- 612 - Lowland Coniferous Forest
- Non-Forest Coverture**
- 122 - Roads/Parking Lot
- 310 - Herbaceous Openland
- 320 - Upland Shrub
- 330 - Low Density Trees
- 500 - Water
- 622 - Lowland Shrub
- 629 - Mixed non-forested wetland
- 790 - Other Bare/Sparsely Vegetated

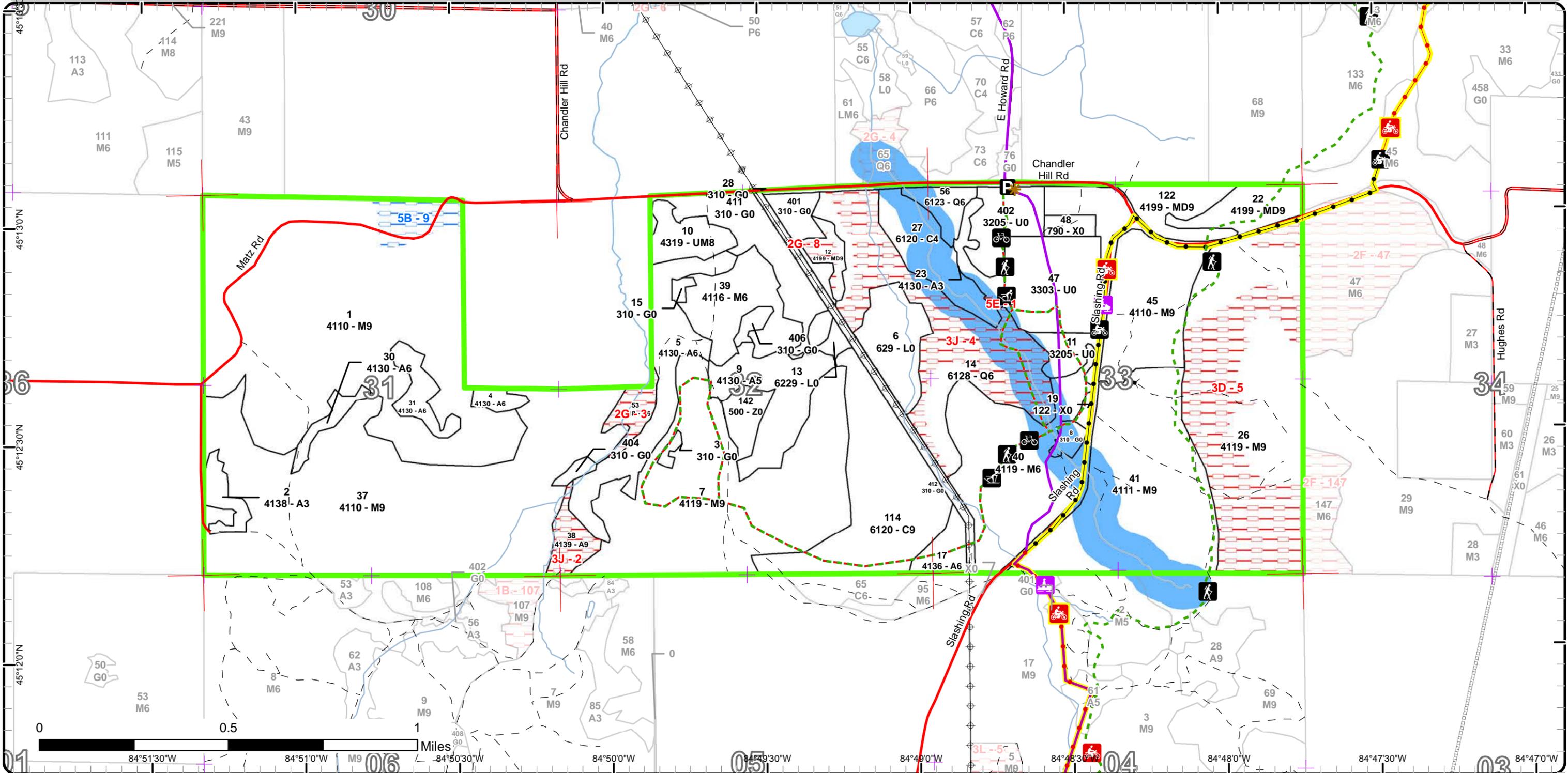


Special Conservation Areas & Site Conditions Map

Compartment: 41
 T33N,R04W, Sec. 31-33
 County: Charlevoix
 Unit: Gaylord
 Mgmt Area: Chandler Hills
 YOE: 2017
 Acres: 1726 GIS Calculated
 Examiner: Zach Crew
 Map Revised: 5/21/2015
 Map Phase: Pre-Review



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|---|---|---|---|
| <ul style="list-style-type: none"> ✦ Remonumented Section Corners — Miris Corners — County Paved Roads — County Gravel Roads — Gravel Roads — Poor Dirt Roads — County Poor Dirt Roads — Bridges Ⓟ Parking Lot ★ Trailhead 🚲 Bike Trails 🏍️ Motorcycle Trails (SOS License) 🏍️ Motorcycle Trails (DNR License) | <ul style="list-style-type: none"> 🚶 Hiking Trails 🚲 MCCCT Trails 🏂 Ski Trails 🚙 Snowmobile Trails — Designated Hiking Pathways — Designated Bicycle Trails — Designated Ski Trails ● ORV License ● ORV License & Trail Permit — Yes — Designated MCCCT Trails — Rivers | <ul style="list-style-type: none"> — Pipeline ⚡ Powerline ▭ Stand Boundaries Site Condition — Available w/ Constraints — Unavailable Available Factors W/ Constraints 5B: Maintain for regeneration purposes Unavailable Factors 2G: Too wet (sensitive soils, does not include access issues) 3D: Recreational / Scenic values 3J: Water quality / BMPs (stream, river, or lake) | <ul style="list-style-type: none"> 5E: Long-Term Retention Special Conservation Areas — Cold Water Streams — Cold Water Lakes — High Priority Trout Stream Buffer |
|---|---|---|---|



Report 1 – Total Acres by Cover Type and Age Class



Age Class

	Non-Forest	0-9	10-19	20-29	30-39	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119	120-129	130-139	140-149	150+	Uneven-Aged	Total
Aspen	0	8	8	43	22	47	0	11	0	0	0	0	0	0	0	0	0	0	139
Bare/Sparsely Vegetated	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Cedar	0	0	0	0	0	0	0	0	0	77	27	0	0	0	0	0	0	0	104
Herbaceous Openland	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	78
Low-Density Trees	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40
Lowland Conifers	0	0	0	0	0	0	0	0	0	0	10	0	90	0	0	0	0	0	100
Lowland Deciduous	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0	9
Lowland Shrub	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	29
Mixed Upland Deciduous	0	0	0	0	0	0	0	0	0	37	7	0	0	0	0	0	0	0	44
Northern Hardwood	0	0	0	0	35	0	0	0	0	460	611	0	0	0	0	0	0	0	1106
Upland Mixed Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15
Upland Shrub	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33
Urban	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14
Water	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total	209	8	8	43	57	47	0	11	0	574	664	0	90	0	0	0	0	15	1726



Report 2 – Treatment Summary

Gaylord Mgt. Unit

Compartment 41

Year of Entry: 2017

Acres of Harvest

Total Compartment Acres: 1,726

Commercial Harvest - 406
 Harvests with Site Condition - 0
 Next Step Harvest - 0
 Habitat Cut - 154

Cover Type by Harvest Method

	Clearcut	Selection	Patch Clearcut	Seed Tree	Shelterwood	Thinning	Overstory Removal	Salvage	Other	Total Acres
Lowland Conifers	22	0	0	0	0	0	0	0	0	22
Mixed Upland Deciduous	39	0	0	0	0	0	0	0	0	39
Northern Hardwood	32	313	0	0	0	0	0	0	0	345
Total	93	313	0	0	0	0	0	0	0	406

Proposed and Next Step Treatments by Harvest Method

	Harvest	Site Prep	Planting	Seeding	Burning	Pesticide	Monitoring	Other	Non-Forest Mgt.	Total Acres
Current	406	0	0	0	0	0	25	0	129	559
Next Step	0	0	57	0	0	0	349	0	0	406
Total	406	0	57	0	0	0	373	0	129	965



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
1	52041001-Cut	255.7	4110 - Sugar Maple Association	Sawtimber Well	92	111- 140	Harvest	Single Tree Selection	411 - Northern Hardwood	Even-Aged	Proposal

Habitat Cut: No **Site Condition: None**

Prescription Thin stand with a target residual BA of 80. Establish regen gaps at least 75 feet in diameter where appropriate. Some hills may be left
Specs: unmarked due to slope conditions.

Next Step
Treatments:

Acceptable A mix of deciduous species similar to the parent stand that results in well stocked regen.
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

3	52041003-NF	1.8	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes **Site Condition: None**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

8	52041008-NF	4.0	310 - Herbaceous Openland	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes **Site Condition: None**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016

11	52041011-NF	12.1	3205 - Mixed Upland Shrub	Nonstocked		Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes **Site Condition: None**

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.
Specs:

Next Step
Treatments:

Acceptable
Regen:

Other Old next step comments:
Comment:

Proposed Start Date: 10/1 /2016



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Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
12	52041012-Cut	2.6	4199 - Other Mixed Upland Deciduous	Sawtimber Well	94	81-110	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal

Habitat Cut: No **Site Condition: None**

Prescription Final harvest all trees 2" and up.

Specs:

Next Step

Treatments:

Acceptable maple, birch, basswood, ironwood, elm, aspen, fir, spruce, cedar, and hemlock at minimum stocking.

Regen:

Other Set sale up with adjacent q-type cut to create a transition zone between upland and lowland. Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

14	52041014-4-New	4.1	6128 - Lowland Deciduous	Poletimber Well	111	111-140	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: None**

Prescription Final harvest all trees 2" and up except for hemlock. Have red line boundary trees dropped into sale area to create rabbit habitat. Mark 1-2

Specs: cedar an acre to leave as a potential seed source or for future potential horizontal structure.

Next Step

Treatments:

Acceptable Fir, cedar, black spruce, hemlock, white pine, red maple, birch, and aspen at minimum stocking is acceptable.

Regen:

Other Buffer flowing feeder creeks by 50 feet at a minimum. Use islands to protect pockets with hemlock and yellow birch. Mark trees adjacent to

Comment: hemlock pockets to drop and leave as nurse logs (large diameter fir or spruce is preferred). Old next step comments:

Proposed Start Date: 10/1 /2016

14	52041014-5-New	9.1	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	111	111-140	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
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Habitat Cut: No **Site Condition: None**

Prescription Final harvest all trees 2" and up except for hemlock. Have red line boundary trees dropped into sale area to create rabbit habitat. Mark 1-2

Specs: cedar an acre to leave as a potential seed source or for future potential horizontal structure.

Next Step

Treatments:

Acceptable Fir, cedar, black spruce, hemlock, white pine, red maple, birch, and aspen at minimum stocking is acceptable.

Regen:

Other Buffer flowing feeder creeks by 50 feet at a minimum. Use islands to protect pockets with hemlock and yellow birch. Mark trees adjacent to

Comment: hemlock pockets to drop and leave as nurse logs (large diameter fir or spruce is preferred). Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
15	52041015-NF	1.8	310 - Herbaceous Openland	Nonstocked	0	Unspec ified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes**Site Condition: None**

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

22	52041022-Cut	17.9	4199 - Other Mixed Upland Deciduous	Sawtimber Well	87	141- 170	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**

Prescription Clearcut stand, any slopes that are too steep to operate on should be utilized as retention. Mark oak to leave outside of the retention areas,

Specs: target 1 per acre.

Next Step

Treatments:

Acceptable Any mix of deciduous species that results in a moderately stocked stand with a component of Red Oak.

Regen:

Other If oak wilt is confirmed in this stand, do not leave any oak within the infection area. Be sure to use retention to effectively buffer the North

Comment: Country Pathway. Old next step comments:

Proposed Start Date: 10/1 /2014

26	52041026-Cut- Ridgetop	38.5	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	81-110	Harvest	Group Selection	4119 - Mixed Northern Hardwoods	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**

Prescription Cut all ash. Identify regen gaps around areas with high oak densities. These gaps should be at a minimum 200 feet in diameter. Cut all trees 2

Specs: inches and up in these gaps.

Next Step

Treatments:

Acceptable Any mix of deciduous northern hardwood species that results in a moderate stocked stand.

Regen:

Other With the removal of all ash there should be enough room for equipment to operate and skid between the gaps. If not additional trees may need

Comment: to be marked. Supplement the regen in the gaps with planted red oak seedlings. Old next step comments:

Proposed Start Date: 10/1 /2016

26	52041026-Cut- Valley	18.6	4119 - Mixed Northern Hardwoods	Sawtimber Well	92	81-110	Harvest	Group Selection	4119 - Mixed Northern Hardwoods	Even-Aged	Proposal
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Habitat Cut: No**Site Condition: None**

Prescription Cut all ash. Identify regen gaps around areas with high oak densities. These gaps should be at a minimum 200 feet in diameter. Cut all trees 2

Specs: inches and up in these gaps.

Next Step

Treatments:

Acceptable Any mix of deciduous northern hardwood species that results in a moderate stocked stand.

Regen:

Other With the removal of all ash there should be enough room for equipment to operate and skid between the gaps. If not additional trees may need

Comment: to be marked. Supplement the regen in the gaps with planted red oak seedlings. Make sure to keep all harvesting operations east of the north country pathway. If hauling has to cross the pathway make sure it is only in one location at a 90 degree angle. Old next step comments:

Proposed Start Date: 10/1 /2016



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
39	52041039-Cut	27.6	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	35	81-110	Harvest	Clearcut with Retention	413 - Aspen	Even-Aged	Proposal
Habitat Cut: No			Site Condition: None								
<u>Prescription</u> Clearcut stand east of the road. Be sure to use the 2 inch spec.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> A mix of deciduous species resulting in a moderate to well stocked aspen stand											
<u>Regen:</u>											
<u>Other</u> Standard retention. Place retention around nice pockets of hardwood species Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
40	52041040-Cut	4.3	4119 - Mixed Northern Hardwoods	Poletimber Well	86	51-80	Harvest	Clearcut	4191 - Mixed Upland Deciduous with Conifer	Even-Aged	Proposal
Habitat Cut: No			Site Condition: None								
<u>Prescription</u>											
<u>Specs:</u> Final harvest all trees 2" and up.											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> maple, birch, basswood, ironwood, aspen, fir, elm, spruce, cedar, and hemlock at minimum stocking.											
<u>Regen:</u>											
<u>Other</u> Set sale up with adjacent q-type cut to create a transition zone between upland and lowland. Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
40	52041040- Monitor	24.9	4119 - Mixed Northern Hardwoods	Poletimber Well	86	51-80	Monitoring	Natural Regen (Re-Inventory)	411 - Northern Hardwood	Two-Aged	Approved Proposal
Habitat Cut: Yes			Site Condition: None								
<u>Prescription</u> Monitor natural regen											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u> Maple, aspen, basswood, oak, elm, ironwood, and mixed conifer at minimum stocking levels.											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											
47	52041047-NF	39.9	3303 - Mixed Low Density Trees	Nonstocked			Unspec ified	NonForestMgt Other - Specify	310 - Herbaceous Openland		Proposal
Habitat Cut: Yes			Site Condition: None								
<u>Prescription</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Specs:</u>											
<u>Next Step</u>											
<u>Treatments:</u>											
<u>Acceptable</u>											
<u>Regen:</u>											
<u>Other</u> Old next step comments:											
<u>Comment:</u>											
<u>Proposed Start Date:</u> 10/1 /2016											



Stand	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
56	52041056-Cut	8.5	6123 - Lowland Fir	Poletimber Well	98	111-140	Harvest	Clearcut with Retention	6128 - Lowland Coniferous, Mixed Deciduous	Even-Aged	Proposal
Habitat Cut: No		Site Condition: None									
<u>Prescription</u> Final harvest all trees 2" and up. Buffer creeks by 75'. West portion will most likely be impacted.											
<u>Specs:</u>											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u> Fir, cedar, black spruce, hemlock red maple, birch, and aspen at minimum stocking is acceptable											
<u>Other Comment:</u> It is wet in pockets. There is more water in western portions. Use retention to protect areas too wet to harvest. These trees will also provide an excellent seed source for the stand. NE if fairly operable year round but operations will be difficult in western portions without a good winter. River is along western boundary. Use adequate buffer. Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
122	52041122-Cut	18.8	4199 - Other Mixed Upland Deciduous	Sawtimber Well	87	51-80	Harvest	Clearcut with Retention	4199 - Other Mixed Upland Deciduous	Even-Aged	Proposal
Habitat Cut: No		Site Condition: None									
<u>Prescription Specs:</u> Clearcut stand, utilize slopes that are too steep to harvest as retention. Mark to leave large crowned oak outside of retention areas for mast production. Target 1 per acre											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u> Any mix of deciduous species that results in a moderately stocked stand with a portion of red oak.											
<u>Other Comment:</u> If oak wilt is confirmed in this site then be sure to not leave any Oak within the infection area. Be sure to use retention to effectively buffer the North Country Pathway. Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2014											
401	52041401-NF	11.1	310 - Herbaceous Openland	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Proposal
Habitat Cut: Yes		Site Condition: None									
<u>Prescription Specs:</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											
402	52041402-NF	21.1	3205 - Mixed Upland Shrub	Nonstocked	Unspecified	NonForestMgt	Other - Specify		310 - Herbaceous Openland		Proposal
Habitat Cut: Yes		Site Condition: None									
<u>Prescription Specs:</u> Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.											
<u>Next Step Treatments:</u>											
<u>Acceptable Regen:</u>											
<u>Other Comment:</u> Old next step comments:											
<u>Proposed Start Date:</u> 10/1 /2016											



S t a n d	Treatment Name	Acres	Stand CoverType	Size Density	Stand Age	BA Range	Treatment Type	Treatment Method	Cover Type Objective	Age Structure	Approval Status
404	52041404-NF	2.6	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal

Habitat Cut: Yes

Site Condition: None

Prescription Brush, mow, plant, burn, and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

406	52041406-NF	3.3	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition: None

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

411	52041411-NF	31.1	310 - Herbaceous Openland	Nonstocked		Unspecified	NonForestMgt	Other - Specify	310 - Herbaceous Openland		Proposal
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Habitat Cut: Yes

Site Condition: None

Prescription Brush, mow, plant, burn and/or herbicide to maintain opening. Planting of hard and soft mast.

Specs:

Next Step

Treatments:

Acceptable

Regen:

Other Old next step comments:

Comment:

Proposed Start Date: 10/1 /2016

Total Treatment Acreage Proposed: 559.4

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 41
Year of Entry: 2017

Dominant Site Conditions

	3D	3J	5B	5E
Aspen		11		1
Bare/Sparsely Vegetated				
Cedar				
Herbaceous Openland				
Low-Density Trees				
Lowland Conifers		73		
Lowland Deciduous				
Lowland Shrub				
Mixed Upland Deciduous				
Northern Hardwood	93		15	
Upland Mixed Forest				
Upland Shrub				
Urban				
Water				
Total Forested Acres	93	84	15	1
Relative Percent				

**Due to limitations in the current Site Conditions Analysis tool, all nonforested acres are considered available. Future development will enable analysis of nonforested types.*

Site No.	Dominant Site Cond Availability	Dominant Site Condition	Acres	Other Site Condition	Other Site Condition	Other Site Condition	Other Site Condition
1	Unavailable	5E: Long-Term Retention	1	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
2	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	11	2G: Too wet (sensitive soils, does not include access issues)	Unspecified	Unspecified	Unspecified
Comments:							

Report 5 – Site Conditions

Gaylord Mgt. Unit
Zach Crew : Examiner

Compartment: 41
Year of Entry: 2017

3	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	9	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							
4	Unavailable	3J: Water quality / BMPs (stream, river, or lake)	73	2D: Portable Bridge Needed (Dept. bridge will be adequate)	Unspecified	Unspecified	Unspecified
Comments: Portions of stands could support timber operations if logging mats or bridge were to be provided. Northern portions are very wet and most likely would not be logged successfully.							
5	Unavailable	3D: Recreational / Scenic values	93	3J: Water quality / BMPs (stream, river, or lake)	Unspecified	Unspecified	Unspecified
Comments:							
8	Unavailable	2G: Too wet (sensitive soils, does not include access issues)	4	Unspecified	Unspecified	Unspecified	Unspecified
Comments: Multiple seeps from hillside flowing into q-type.							
9	Available	5B: Maintain for regeneration purposes	15	Unspecified	Unspecified	Unspecified	Unspecified
Comments:							

Mgt. Unit

Compartment: #Type!

Year of Entry:



Report 6 – PROPOSED SPECIAL CONSERVATION AREA* (SCA) DETAILS

* This is a partial list of SCAs for this compartment. Not included are those areas identified under other Department initiatives (Natural Rivers, Deer Wintering Areas, etc.). Those will be identified in separate, future map and report products.

SCA Name	SCA Category	Detail Type	Recommendation	Acres
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Comments



Report 7 – EXISTING SPECIAL CONSERVATION AREA DETAILS

* This is a list of SCA's for this compartment along with a 1/4 mile buffer surrounding the compartment. Refer to the Special Conservation Area Map for locations of the below listed Conservation Areas.

ERA = Ecological Reference Area
 HCVA = High Conservation Value Area
 SCA = Special Conservation Area

Conservation Area	Type	Description
SCA	Cold Water Stream	A coldwater stream has temperature and dissolved oxygen conditions that allow naturally-reproduced or stocked trout populations and those of other coldwater fish species (e.g., slimy sculpin) to persist from year to year. Coldwater streams in Michigan typically provide these conditions due to substantial contributions of groundwater to their stream flows. Such streams are established by Director's action and designated as trout resources by Fisheries Order 210.
SCA	Riparian Area	A transitional area between aquatic and terrestrial ecosystems in which the terrestrial ecosystem influences the aquatic ecosystem and vice-versa. Because of the unique conditions adjacent to lakes, streams and open water wetlands, riparian areas harbor a high diversity of plants and wildlife. Riparian communities are ecologically and socially significant in their effects on water quality and quantity, as well as aesthetics, habitat, bank stability, timber production, and their contribution to overall biodiversity.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
1	4110 - Sugar Maple Association	Sawtimber Well	273.6	92	111-140	Appears to have been previously thinned
2	4138 - Aspen (OI)	Sapling Well	8.5	16	Immature	
4	4130 - Aspen	Poletimber Well	4.5	32	51-80	
5	4130 - Aspen	Poletimber Well	42.7	26	1-50	Transitioning from A3 to A6.
7	4119 - Mixed Northern Hardwoods	Sawtimber Well	149.4	84	81-110	
9	4130 - Aspen	Poletimber Medium	37.3	42	51-80	Nice looking A6 stand
10	4319 - Mixed Upland Forest	Sawtimber Medium	15.0	103	51-80	Lowland pockets with cat tails, lots of deer browse.
12	4199 - Other Mixed Upland Deciduous	Sawtimber Well	7.5	94	81-110	Stand was grazed in the past. Marginal hardwood, large trees have open grown characteristics. Aspen and fir present. On a hillside with multiple seeps flowing into the q-types. Browse evident.
14	6128 - Lowland Coniferous, Mixed Deciduous	Poletimber Well	90.0	111	111-140	Open pockets formed by wind throw. Scattered large diameter white pine in eastern portions. Regen very low in east but picks up south and west. Several pockets of dead ash and fir. Northern portions are very wet.
17	4136 - Aspen, Mixed Conifer	Poletimber Well	9.8	45	51-80	Transitioning from A3 to A6. Springbrook pathway runs through the stand.
22	4199 - Other Mixed Upland Deciduous	Sawtimber Well	17.9	87	141-170	VERY STEEP SLOPES up to 60%. Evidence of EAB in this stand. Check with Scott Lent to see if there is Oak Wilt confirmed in this stand.
23	4130 - Aspen	Sapling Well	8.2	5	Immature	Cut winter of 2009. Extensive beaver activity in middle of stand, the over story is primarily cherry in this portion. A couple oak were left in stand.
26	4119 - Mixed Northern Hardwoods	Sawtimber Well	159.4	92	81-110	Very steep slopes up to 60%. Average BA = 89, some of the Oak are dying out from what appears to be Oak Decline.
27	6120 - Lowland Cedar	Poletimber Poor	26.7	90	1-50	Several cascading beaver dams throughout stand-some old some new. Many pockets converting into meadow. Lots of blow down on pockets. Very wet stand.
30	4130 - Aspen	Poletimber Well	6.3	32	51-80	Well stocked aspen pole stand.
31	4130 - Aspen	Poletimber Well	11.7	32	51-80	Well stocked pole stand.



Stand	Level 4 Cover Type	Size Density	Acres	Stand Age	BA Range	General Comments:
37	4110 - Sugar Maple Association	Sawtimber Well	231.8	86	81-110	Selection cut completed on 11/24/2010. Lots of small aspen clearcuts scattered throughout stand of varying ages. Locations of patches noted in the OFS layer. Lots of deer browse.
38	4139 - Aspen, Mixed Deciduous	Sawtimber Well	10.7	67	81-110	Too wet to cut. Lots of seeps/streams/low areas with cattails. Next time stand 5 is cut it could be expanded a little bit into the north end of 38 to grab some more aspen.
39	4116 - Mixed N. Hardwood - Aspen	Poletimber Well	34.6	35	81-110	some seeps in areas. some of the aspen was cut out of stand in pockets turning it into a two aged stand. no cutting record for the aspen that was removed
40	4119 - Mixed Northern Hardwoods	Poletimber Well	79.1	86	51-80	Selection harvest completed in stand 11/24/2010. Very open understory. Some cedar mixed with hardwood along transition into q-type. A few sugar maple seedling 10' or so. Multiple feeder creeks flowing through stand. Walking trail also in stand.
41	4111 - S.Maple, Hard Mast Association	Sawtimber Well	113.3	90	81-110	Light thinning for visual management along Slashing Road. Stay back from streams. Look at road for possible re-closure and revegetation. Stand thinned throughout the summer, fall, and winter of 2010. Finished spring 2011, Jaroche Brothers. Average BA = 97 All Ash and Red Oak cut along slashing road right of way 2014.
45	4110 - Sugar Maple Association	Sawtimber Well	64.2	91	81-110	OPIC - FMD: Section 33 SWNE. Stand thinned summer, fall, winter 2010 and finished spring 2011, Jaroche Brothers. Average BA = 98
53	6118 - Lowland Deciduous with Cedar	Poletimber Well	9.0	93	51-80	Springbrook tributary runs through this stand. Black Ash beginning to fall apart.
56	6123 - Lowland Fir	Poletimber Well	9.5	98	111-140	Nothing in sub-canopy to report. High water table but harvest possibilities exist. Majority of ash dead.
114	6120 - Lowland Cedar	Sawtimber Well	76.9	80	81-110	OPIC - FMD: W1/2 section 33 & E1/2 section 32
122	4199 - Other Mixed Upland Deciduous	Sawtimber Well	18.8	87	51-80	Part of stand 22 that was cut last YOY. EAB in the stand. Also Oak Wilt. Very little Oak regen, what is there is of stump sprout origin and has been browsed



Stand	Cover Type	Acres	Managed Site	General Comments:
3	310 - Herbaceous Openland	1.8	No	
6	629 - Mixed non-forested wetland	26.0	No	Standing dead throughout. Lots of water. Some regen has established. Conifer where real wet but some deciduous in the drier spots. Some beaver activity.
8	310 - Herbaceous Openland	4.0	No	A popular dispersed camping area. Creek adjacent to stand. Some scattered hwdw also present.
11	3205 - Mixed Upland Shrub	12.1	No	Open with pockets of brush. Mostly brush along road and in the south. Some larger hwdws also mixed in. Heavy browse. Lots of activity on hiking trail that meanders through the stand.
13	6229 - Mixed lowland shrub	3.0	No	Lowland shrubs and grasses.
15	310 - Herbaceous Openland	1.8	No	Grassy Opening
19	122 - Road/Parking Lot	14.1	No	Chandler and Slashing Rds
28	310 - Herbaceous Openland	6.3	No	Power line, ditch, and some portions of road.
47	3303 - Mixed Low Density Trees	39.9	No	Old hardwood nursery. Could make a case fir 25+% canopy closure (very close)
48	790 - Other Bare/Sparsely Vegetate	5.0	No	SLASHING ROAD GRAVEL PIT. PIT NO. 004. Dirt and stumps from road county road construction has been placed within stand. This is an active shooting range. Mostly bare soil and knapweed.
142	500 - Water	9.8	No	Beaver Flooding
401	310 - Herbaceous Openland	11.1	No	Used to be grazed under a permit. Apple tree and some misc. shrubs present. Knapweed on site.
402	3205 - Mixed Upland Shrub	21.1	No	Open with pockets of brush. Blackberry in open areas. Heavy browse on ash and maple seedlings. A few spruce in stand. Knapweed present.
404	310 - Herbaceous Openland	2.6	No	
406	310 - Herbaceous Openland	3.3	No	
411	310 - Herbaceous Openland	31.1	No	GRAZING PERMIT. (No longer issued.)
412	310 - Herbaceous Openland	16.5	No	Powerline Portions are open wetland.