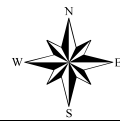


BRULE RIVER STATE FOREST 2019 TIMBER SALE PROPOSALS

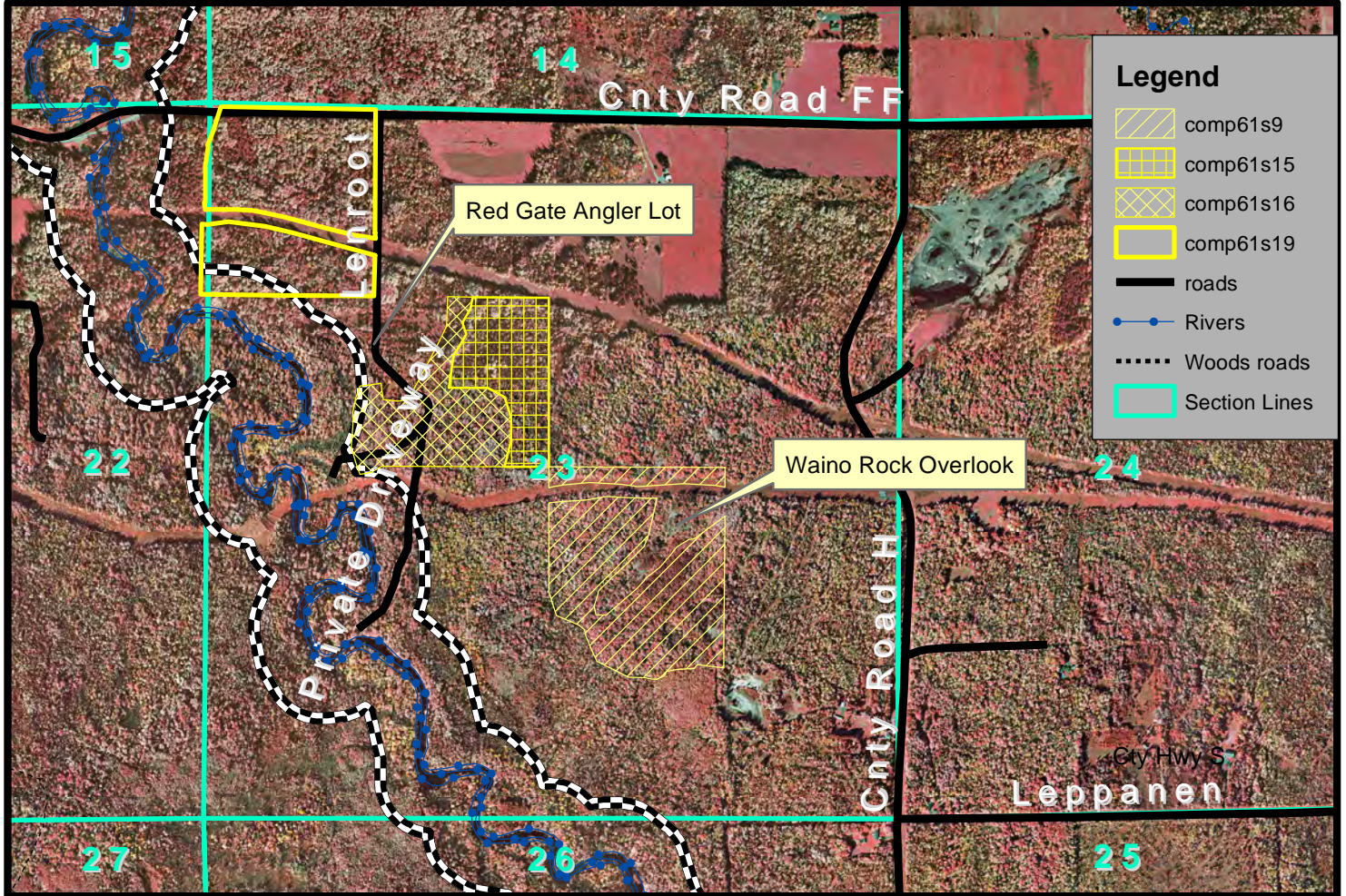
TRACT	COMP	STAND	TYPE	ACRES	TREATMENT	NAME
1-19	61	9,10,15,16,19	A/O/F/PW	107	Regeneration	Red Gate
2-19	37	2,3,5,7,8,9,10	Aspen/Jack Pine	437	Regeneration	Compartment 37
3-19	54,55,57,58	many	Aspen	100	Regeneration	Miller Road
4-19	39	3	Red Pine	94	Regeneration	Hilly Poles
5-19	62	7	Oak	60	Shelterwood	Clevedon Tower
6-19	32	10,19	Red Pine	12	Regeneration	27 Snowmobile
7-19	35	1	Red Pine	112	Thin	Comp 35 red pine
8-19	72,76	many	Aspen/BH	300	Regeneration	The Place to Be
9-19	45	7	Red Pine	19	Thin	Matched Shed
10-19	38	3,8	Aspen	166	Regeneration	Lovely Place
11-19	69	4,5	Aspen	80	Regeneration	Comp69
12-19	10,14	4,7,25,10,13	aspen, red pine, OX	38	Regeneration	Puzzle Pieces
13-19	21	11,12	jack pine/OX/aspen	42	Regeneration	jersett jungle
14-19	16		Aspen/Ash/Oak	40	Selection	Lake Minnesuing
15-19	43,48	13,6	Red Pine, BW	14	Thinning	Stoney View

1621

Brule River State Forest



Sale Name: Red Gate			Tract Number: 1-19	SALE PROPOSAL
Twp: 48N	Range: 10W	Section: 23	Compartment: 61	
Township: Brule			Stand: 9,15,16,19	
Soil: Clay/Rock	Topography: Rolling / Slope to Brule River		Acres: 107	
Seasonal Restrictions: Frozen or Very Dry			Timber Sale #:	
				Area 4 Border Forest
				Notes: High recreation use on Lenroot, rec use on Waino Rock, scenic values. Private Prop lines need to be established. NHI values to be protected. Access to eastern block will be determined.



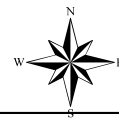
Compartment 61: Sale involves 4 stands, all on slopes to the Brule River, adjacent to Lenroot Road and the pipeline at the Waino rock overlook. Lots of private land boundaries on this potential sale.

Stand 9 – Oak/Red Pine, 1915 origin, rocky soil. Site varies greatly by soil depth, red pine is generally tall, Oak is short, fir, white spruce, red maple, and aspen present. Stand will be harvested to regenerate current mix, leave trees and pockets will be marked to maintain aesthetics from overlook area. Patch clearcut harvest with reserves of all white pine, marked red pine and oak. Adjacent to cliff and overlook which hosts rare plants.

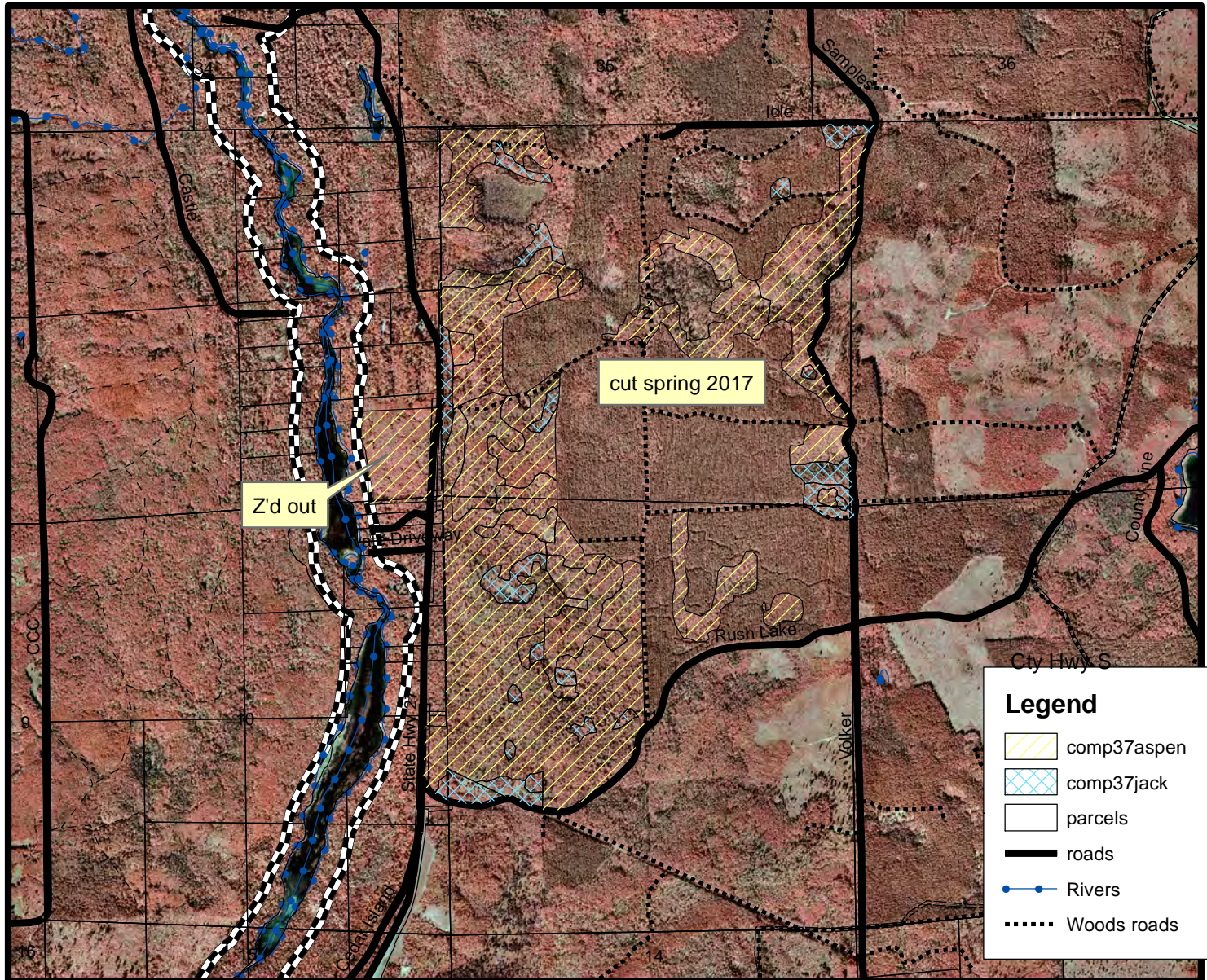
Stands 15 and 16 – Aspen/Fir/red maple/ash mix. Stand will be clearcut with reserve pockets of mixture of species.
 Stand 19- Typed as White Pine 15+ 1890 origin. Large 20+ inch white pine are found across the site, lots of older age class aspen in stand. Sale will harvest aspen, fir, and red maple to create conditions to support regen of white pine. Goal is to establish another age class of white pine to be a component of future stand. Planting and deer protection following sale will be evaluated as this is a deer yard area. Sale will stay over 400 feet from river. Old fields in area have seeded into white pine and are well established. Drainages will be buffered.

*This map is not a survey of the actual boundary of any property this map depicts.

Brule River State Forest



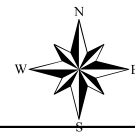
Sale Name: Compartment 37			Tract Number: 02-19	SALE PROPOSAL Area 13- Troy Pit Pines Forest Production Area NCT runs right through proposal, buffering/trail damage must be mitigated.. Timber Sale #:
Twp: 46N	Range: 10W	Section: 2,11	Compartment: 37	
Township: Highland			Stand: 2,3,5,7,8,9,10	
Soil: Sand	Topography: Flat/Rolling		Acres: 437	
Seasonal Restrictions: None				



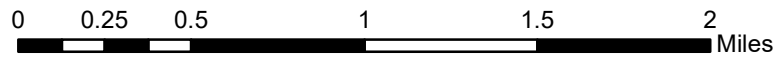
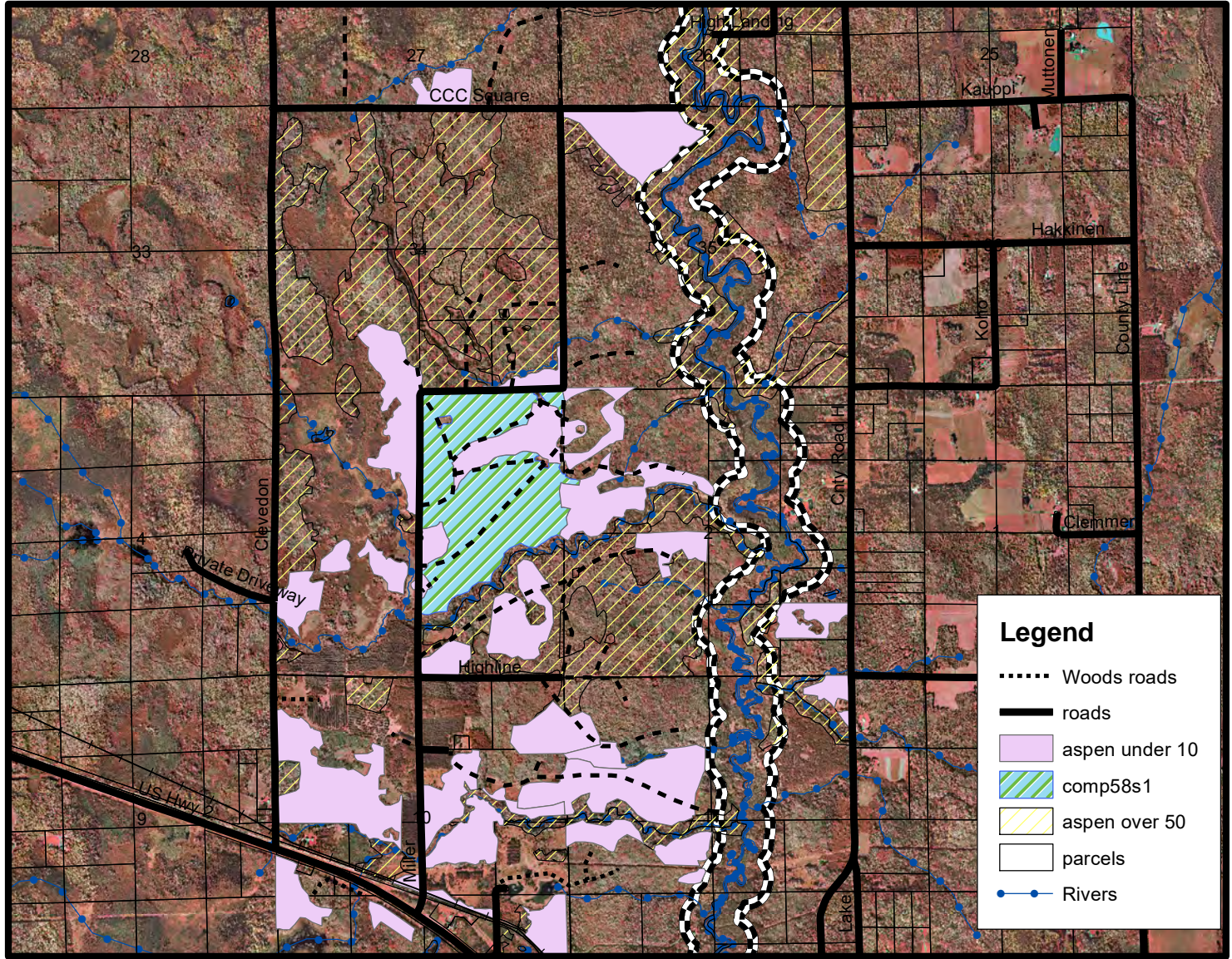
Proposal covers all older age class aspen within Compartment 37. Aspen ranges from 40-55 years old. Stands have a generally heavy cover of hazel brush, scattered OX, Fir, White Pine, Paper Birch and Red Maple. Aspen is generally in poor shape and declining. Jack pine areas will be assessed along with aspen as a general goal within area is to increase jack pine and maintain aspen acreage. Areas dominated by OX will be assessed for whole tree removal to scarify with followup PJ aerial seeding. NCT and associated values need protection.

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Brule River State Forest



Sale Name: Miller Road			Tract Number: 3-19	SALE PROPOSAL Area 12 – Miller Road Forest Production Area Goal is to further break up aspen age class within this area.
Twp: 47-48N	Range: 10W	Section:	Compartment: 54,55,57,58	
Township: Brule			Stand:	
Soil: Sand/Clay	Topography: Flat/Rolling		Acres: 100	
Seasonal Restrictions: Dry/Frozen			Timber Sale #:	

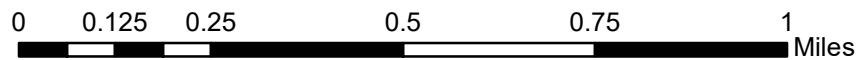
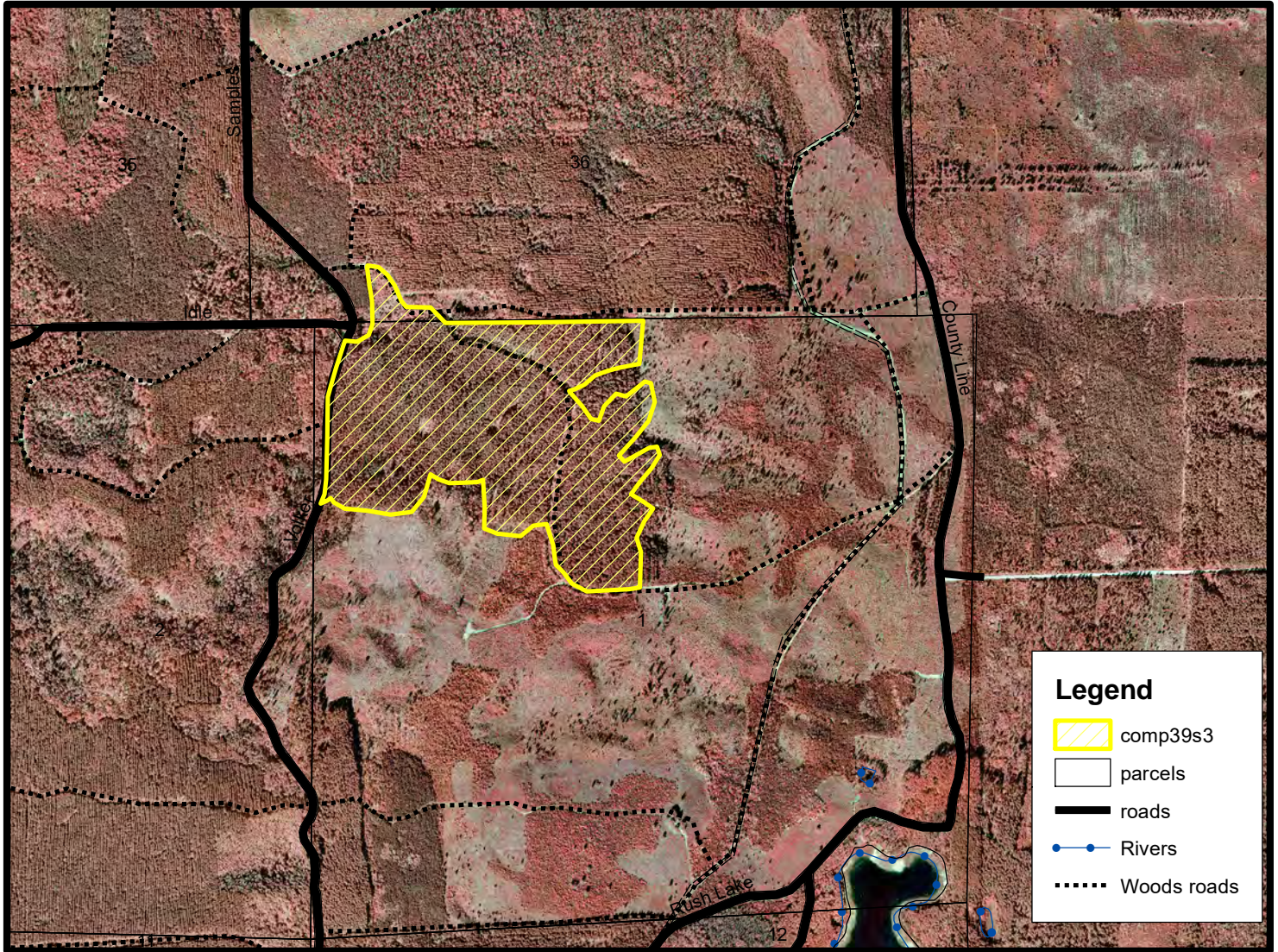


Proposal map shows comp 58 stand 1 in blue which is 166 acres in size and comes up on the harvest schedule. Pink shaded areas are aspen that is currently under ten years of age and yellow cross hatched areas show aspen that is over 50 years of age. This is an area that we try to focus on wildlife habitat while producing forest products, so a goal is to break up large age classes of aspen to provide optimum grouse habitat, which also benefits other species. This proposal will pick areas primarily out of older than 50 year old age class in shapes and sizes to create optimum habitat. Sale areas will avoid touching youngest age classes, protect openings by leaving uncut buffers to prevent sprouting, and create access to openings to increase efficiency of maintaining openings. Proposal will provide a sale in the area of 100 acres.

Brule River State Forest



Sale Name: Hilly Poles			Tract Number: 04-19	SALE PROPOSAL Area 13 – Troy Pit Pines forest production management area
Twp: 46N	Range: 10W	Section: 1	Compartment: 39	
Township: Brule			Stand: 3	
Soil: Sand	Topography: Rolling	Acres: 94		
Seasonal Restrictions: None			Timber Sale #:	

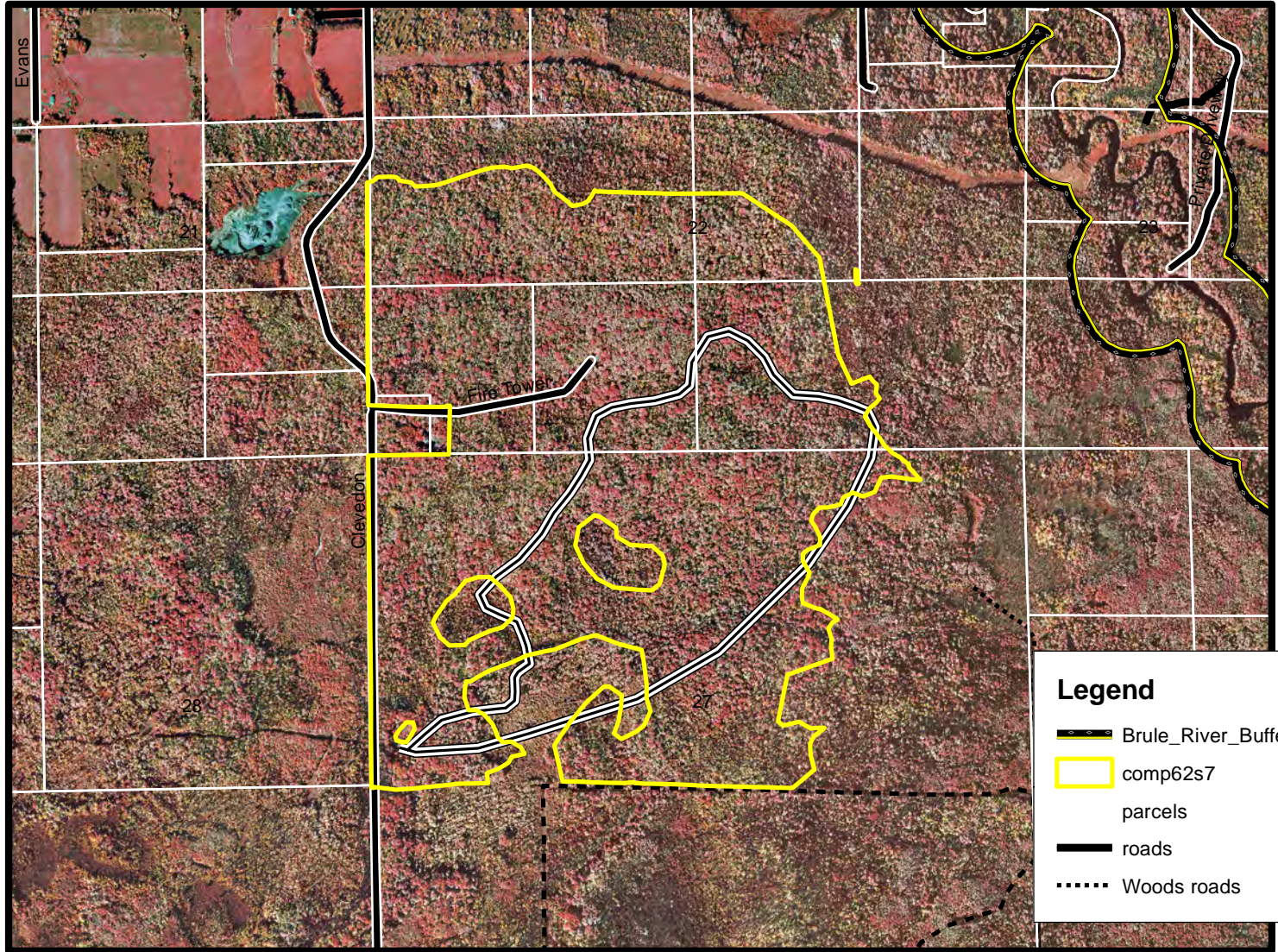


This is a 1939 origin red pine plantation that has been thinned 2 times prior, with the most recent thinning occurring in 2004. Stand currently has a basal area around 180 square feet, trees average 13 inches DBH, with very good form. Option are for the stand to either be regenerated through a clearcut harvest with followup furrowing and tree planting, or stand will be thinned a third time and grown for an additional 20 years prior to final harvest. Data for this age stand tends to suggest that final harvest at earlier ages will maximize timber production in such a stand, as well as simplify regeneration of the future stand.

Brule River State Forest

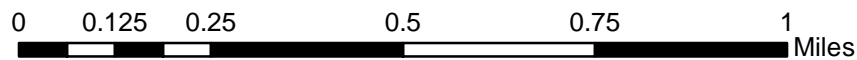


Sale Name: Clevedon Tower			Tract Number: 05-19	SALE PROPOSAL Area 6 Sugar Camp Hill Native Community Management Area 350+ acre stand on 2033 harvest schedule.
Twp: 48N	Range: 10W	Section: 22,27	Compartment: 62	
Township: Brule			Stand: 7	
Soil: Sand/Loam	Topography: Flat/Rolling		Acres: 50+	
Seasonal Restrictions: None			Timber Sale #:	



Legend

- Brule_River_Buffer
- comp62s7 parcels
- roads
- Woods roads

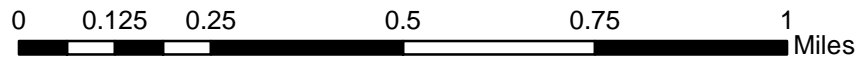
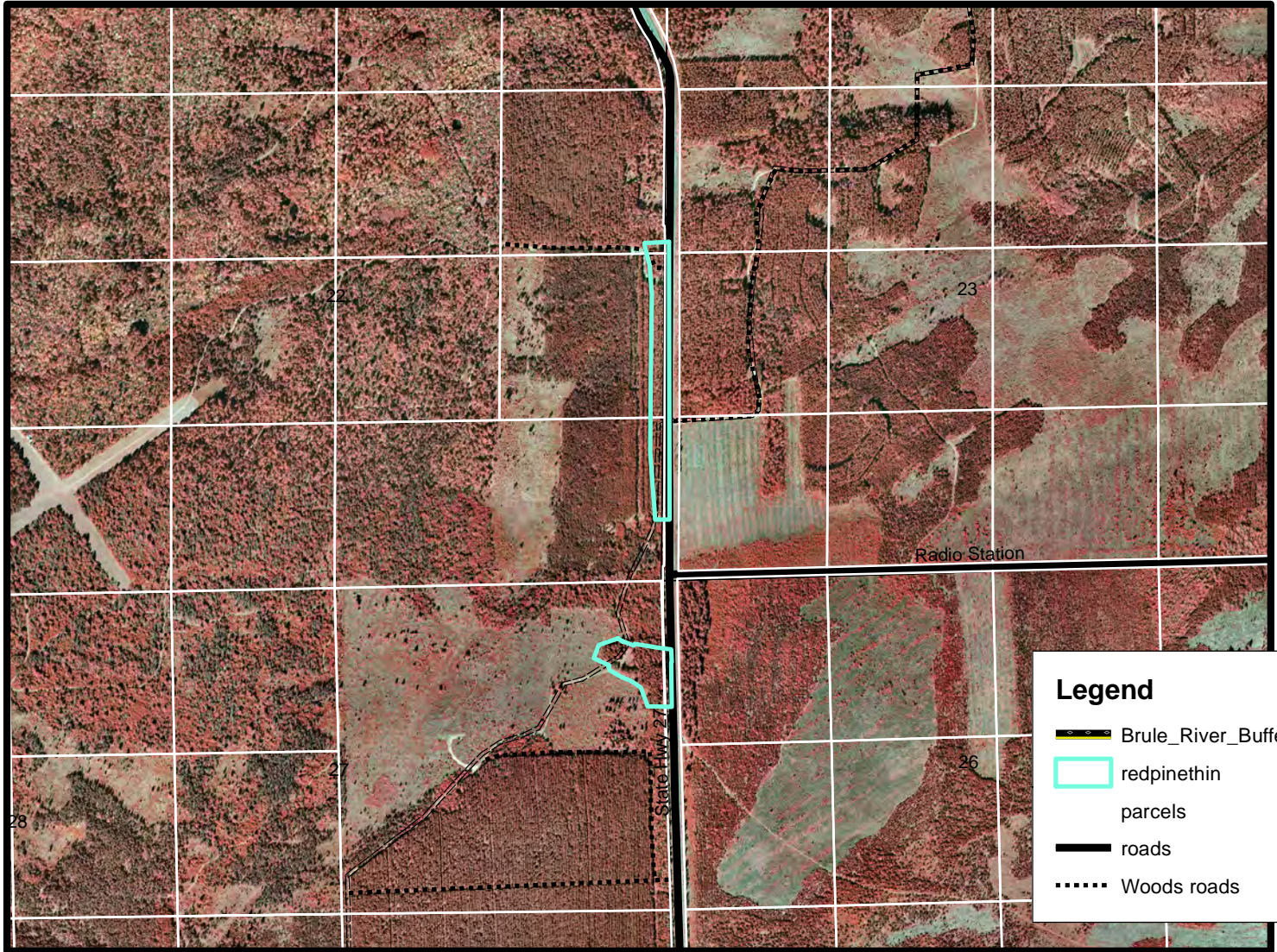


Sale proposal is for a portion of a 350+ acre stand of a 86 year old stand of red oak small sawlogs with a northern hardwood pole component. This stand comes up on the harvest schedule to conduct a shelterwood harvest in 2033, when the stand is 100 years old. This harvest would be the first entry of multiple future entries into the stand with the goal of regenerating the red oak present in this stand. Harvest would create conditions conducive to regen of the entire mix of species currently on the site, but would attempt to reduce aspen sprouting by leaving individual aspen as leave trees in the stand. Future harvests would be timed to occur to create a new shelterwood area along with overstory removal of this first harvest area. Bayfield Hiking trail can easily be avoided during this initial harvest.

Brule River State Forest



Sale Name: 27 Snowmobile			Tract Number: 06-19	SALE PROPOSAL Area 13 Troy Pit Pines Forest Production Area Roadside red pine final harvest..
Twp: 46N	Range: 10W	Section: 22,27	Compartment: 32	
Township: Brule			Stand: 10,19	
Soil: Sand	Topography: Flat		Acres: 12	
Seasonal Restrictions: None			Timber Sale #:	

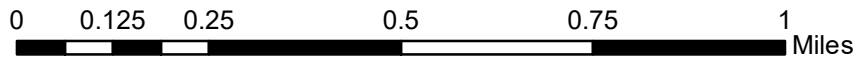
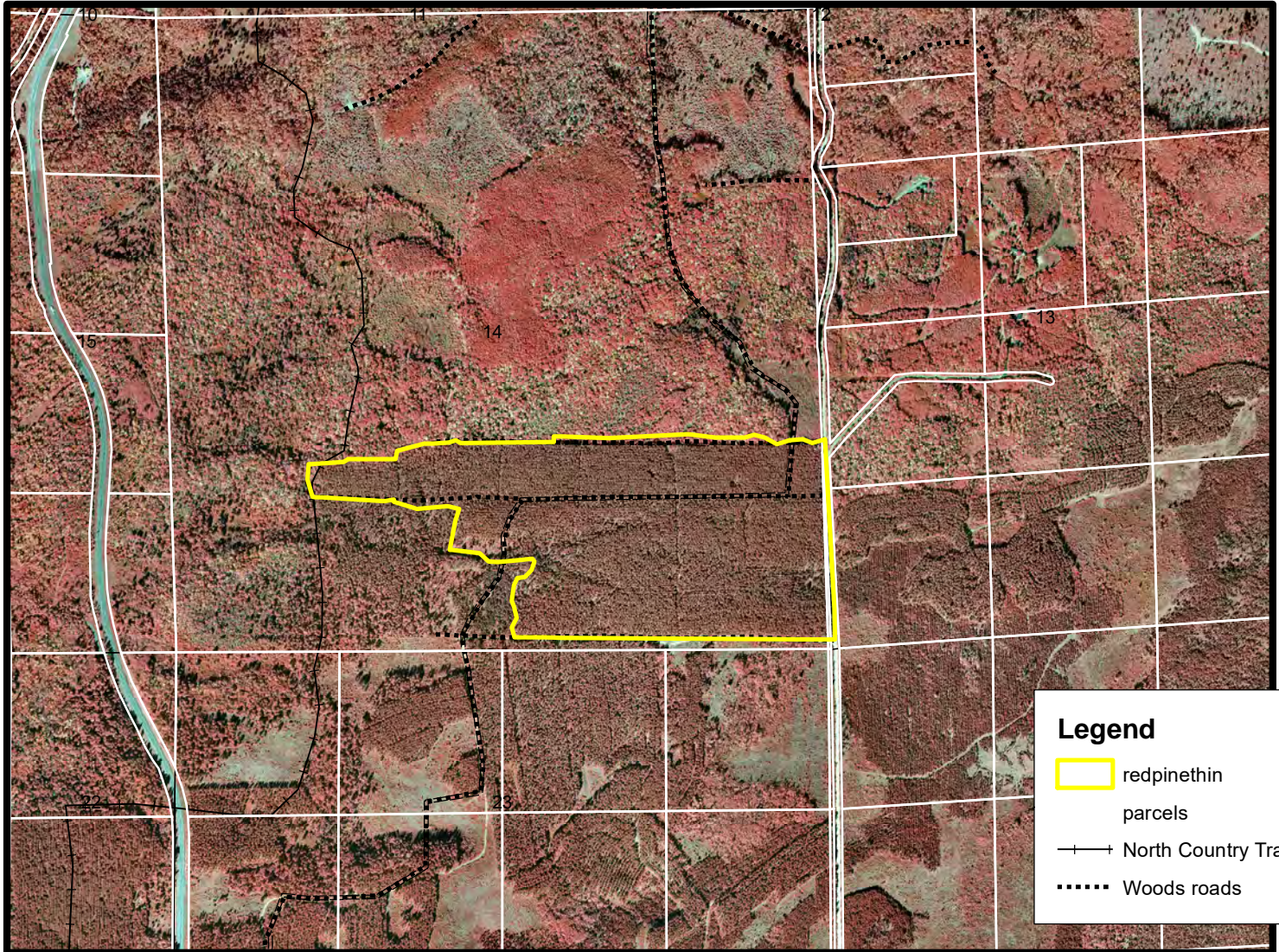


65 and 72 year old red pine stands – both have been managed in the past, final harvest. North stand is roadside strip about 1 chain wide. Snowmobile trail crosses hwy 27 at this location. Southern block was “cleaned” of scrub oak 2 years ago with adjacent timber sale which has the potential to reduce future competition on pine regeneration. Both stands will be clearcut, left to sit for one year to avoid insect concerns, trenched and replanted to red pine.

Brule River State Forest



Sale Name: Comp 35 Red Pine Thin			Tract Number: 7-18	SALE PROPOSAL Area 13 – Troy Pit Pines forest production management area. Snowmobile Trail and NCT within stand.
Twp: 46N	Range: 10W	Section: 13	Compartment: 35	
Township: Highland			Stand: 1	
Soil: Sand	Topography: Flat		Acres: 112	
Seasonal Restrictions: None			Timber Sale #:	



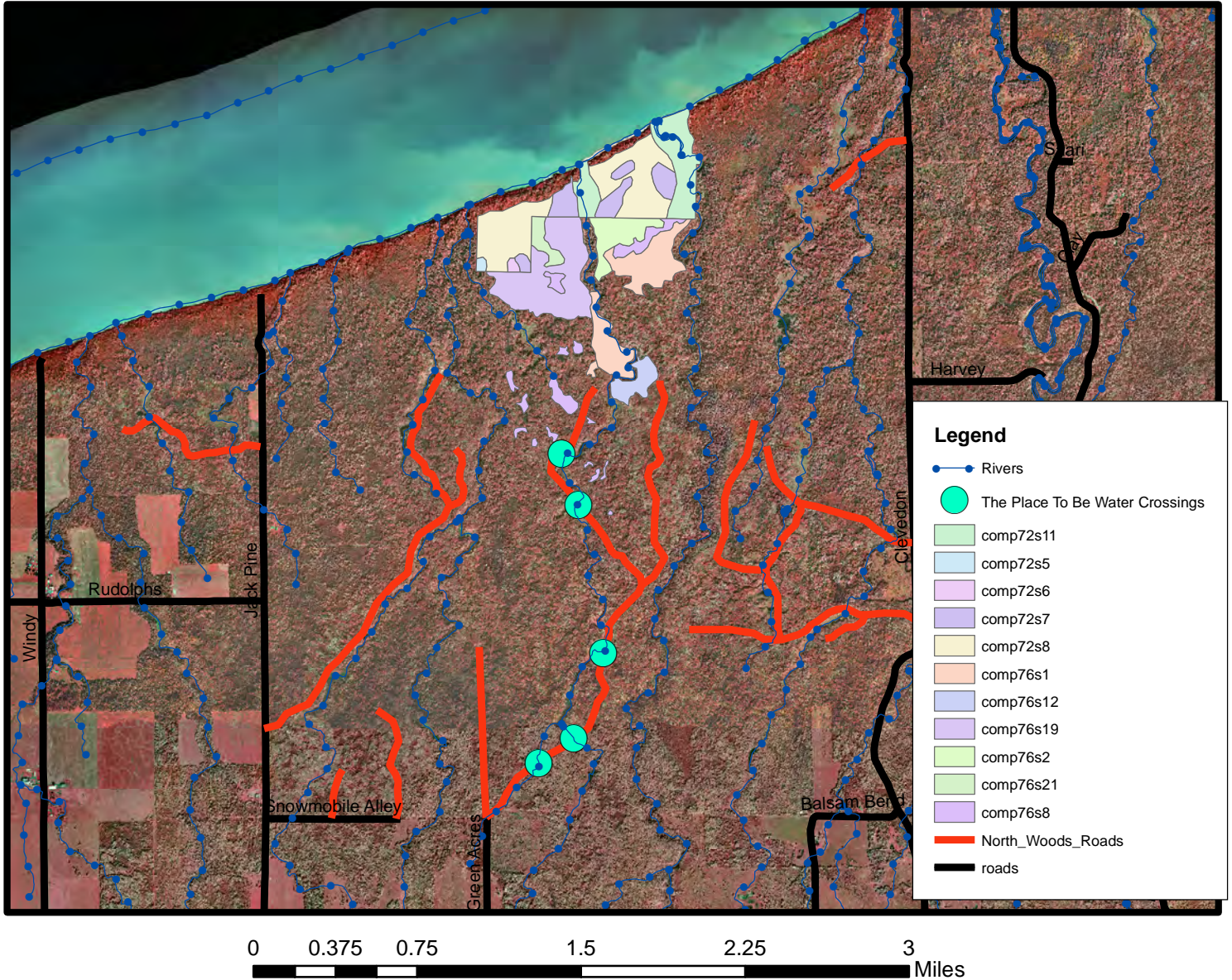
Stand is 1962 origin (57 year old) planted red pine. Stand has been thinned 2 times in past, 2004 was the last thinning. Stand is averaging about 11 inches DBH and 180 sq. ft basal area. Marked selective harvest is warranted for this stand. Snowmobile trail runs through the stand and NCT runs through western tip of stand. Sand soil, good all season access.

*This map is not a survey of the actual boundary of any property this map depicts.

Brule River State Forest



Sale Name: The Place To Be			Tract Number: 8-19	SALE PROPOSAL
Twp: 49N	Range: 10W	Section: 17	Compartment: 72,76	Superior Clay Plain Forest Production Management Area
Township: Cloverland		Stand: various		Green Acres Road Access
Soil: Clay	Topography: Flat/Rolling		Acres: 200-300	Multiple drainage crossings on existing roads, improve road, lengthen road to access cutting blocks.
Seasonal Restrictions: Frozen/very dry			Timber Sale #:	Highlighted stand acreage is in excess of 350 acres



Cutting Proposal

Sale will be accessed from end of Green Acres road in town of Cloverland. Sale will involve multiple stands, be somewhat large in size, but will be broken up visually by multiple RMZs which will be excluded from sale to protect drainages and wet areas. Existing road network will be used from end of Green Acres, water crossing structures will be required to cross drainages that have crossed with culverts prior to state ownership. General locations of crossings are shown on map and appear to be able to be crossed using timber mat bridges to span the drainages. Not all stands shown up on recon harvest schedule, but will be entered now to facilitate harvest planning.

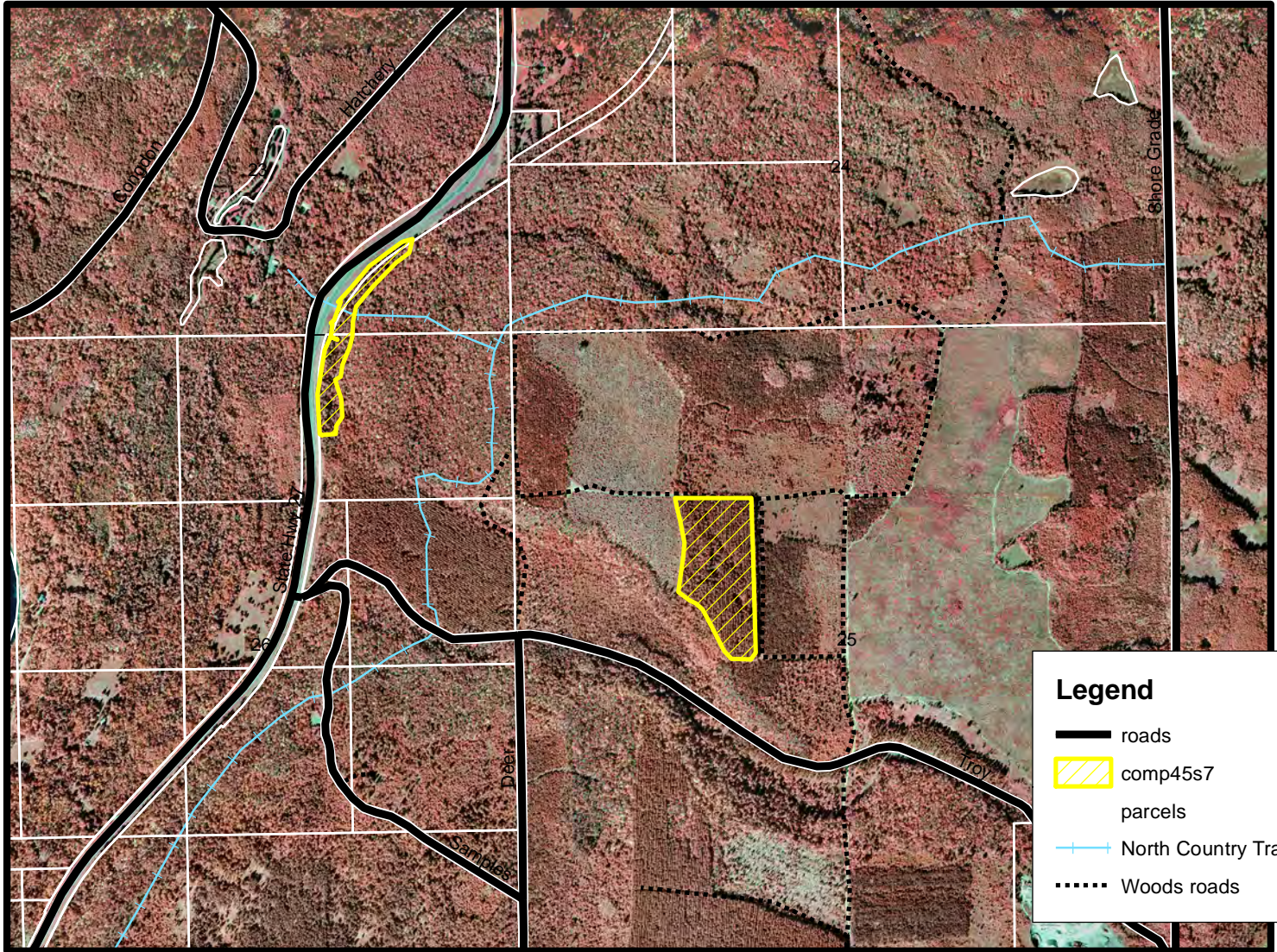
Stands are a generally a mix of aspen and ash, with a lower percentage of spruce and fir. Future stands will have a higher percentage of spruce and other conifer which are present in drainages.

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Brule River State Forest

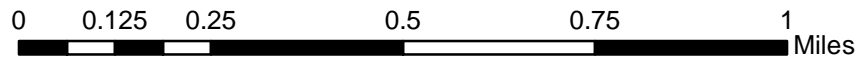


Sale Name: Matched Shed			Tract Number: 9-19	SALE PROPOSAL Troy Pit Pines Forest Production Area Red Pine thinning
Twp: 47N	Range: 10W	Section: 23,26,25	Compartment: 45	
Township: Brule			Stand:7	
Soil: Sand	Topography: Flat/Rolling		Acres: 19	
Seasonal Restrictions: None			Timber Sale #:	



Legend

- roads
- comp45s7
- parcels
- North Country Trail
- Woods roads

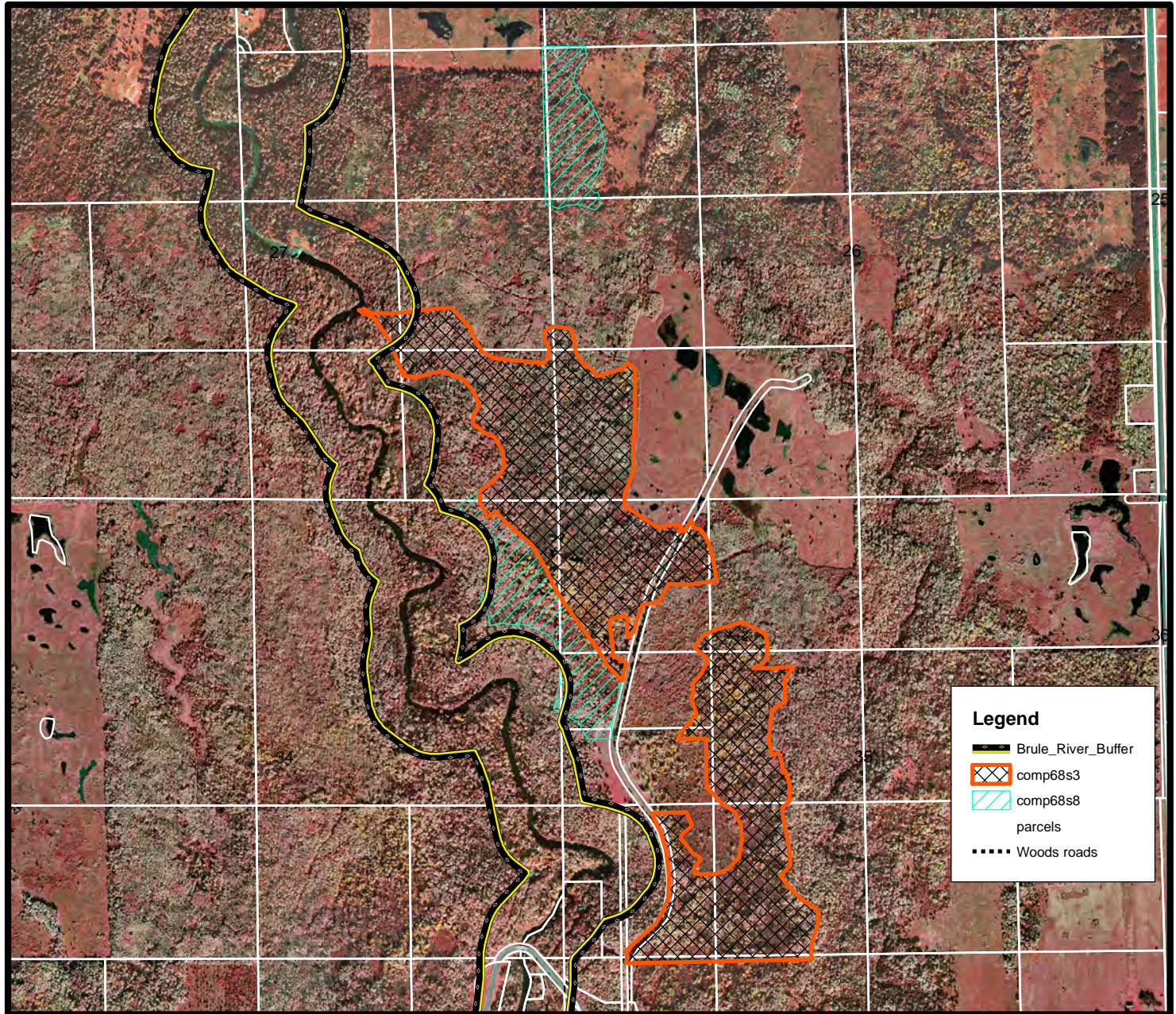


Proposed sale is a marked red pine selective thinning. Main part of the stand is a 54 year old plantation which was last thinned in 2003. Part of this proposal is located along Hwy 27 and is located along the old south shore railgrade. Some areas of this are very steep and may or may not be harvestable but will be assessed during establishment. Goals of this practice is to promote growth on remaining trees following thinning.

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BRULE RIVER STATE FOREST

Sale Name: Lovely			Tract Number: 10-19	SALE PROPOSAL
Twp: 49N	Range: 10W	Section: 26,27,34,35	Compartment: 68	
Township: Cloverland			Stand: 3,8	
Soil: Clay	Topography: Flat/Rolling		Acres: 166	
Seasonal Restrictions: Winter/Frozen			Timber Sale #:	



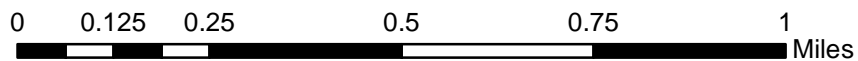
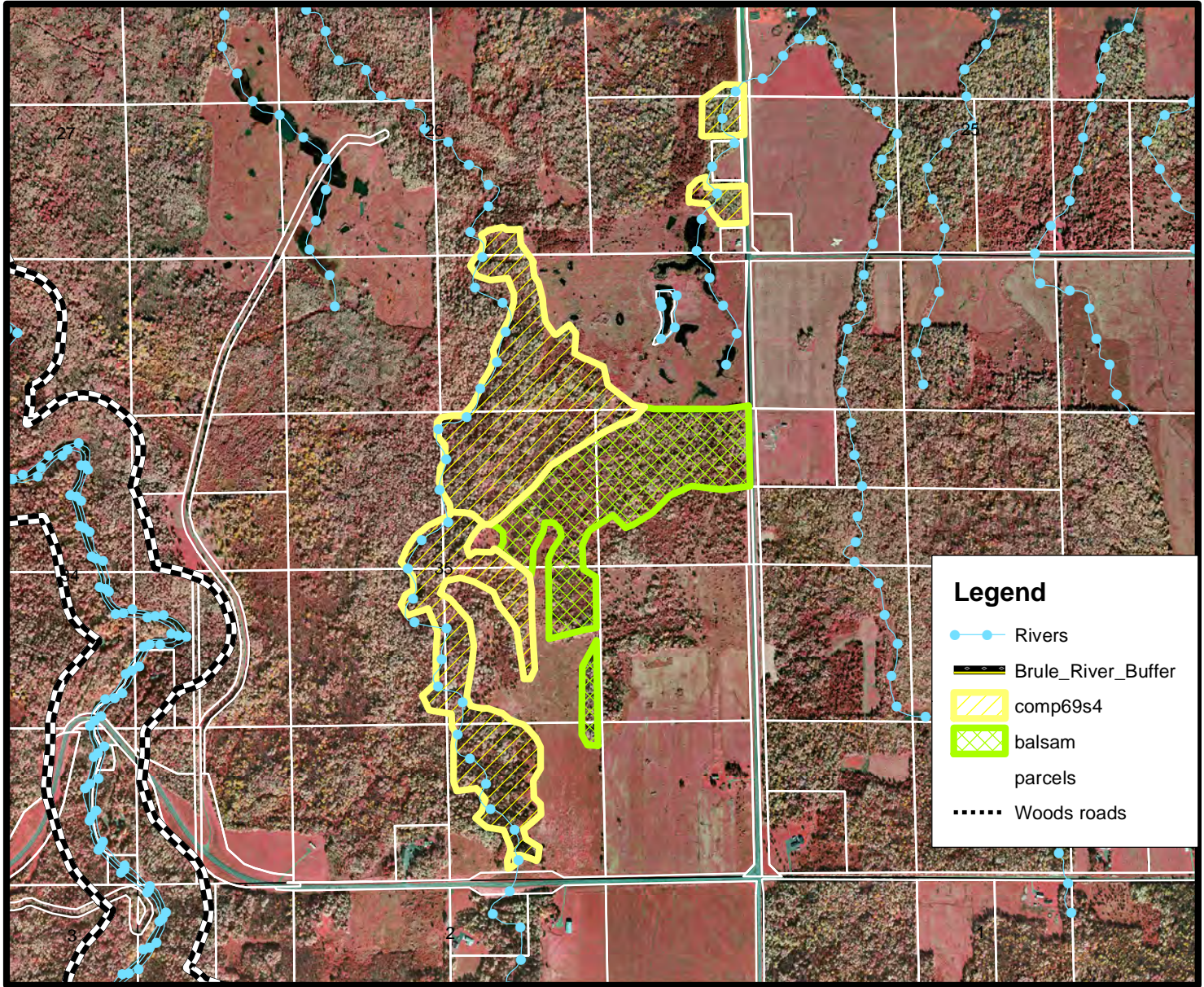
0 0.125 0.25 0.5 0.75 1 Miles

Sale proposal is within Clay Plain NCMA. Stands are primarily aspen, ash, and fir cover types with a 1960 origin. Stands are located adjacent to Loveland road ponds which are managed as open grassland/wetland/shrub habitat. Proposal is for a regeneration harvest while promoting fir and spruce regeneration. Slopes to Brule river are primarily older ages classes of aspen and will be allowed to naturally convert to other species as the aspen falls out of the stand. There are pockets of fir and spruce regen present which will be utilized as a seed source. Several private parcels will lie adjacent to this sale. Drainages are present which will be lined out of sale as RMZ's.

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Brule River State Forest

Sale Name: Comp 69			Tract Number: 11-19	SALE PROPOSAL
Twp: 49N	Range: 10W	Section: 14,23	Compartment: 69	
Township: Cloverland			Stand: 4,5	
Soil: Clay	Topography: Flat/Rolling		Acres: 80	
Seasonal Restrictions: Frozen/Very Dry			Timber Sale #:	



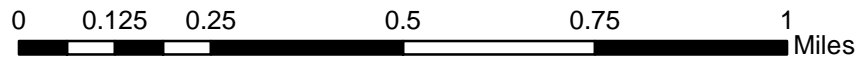
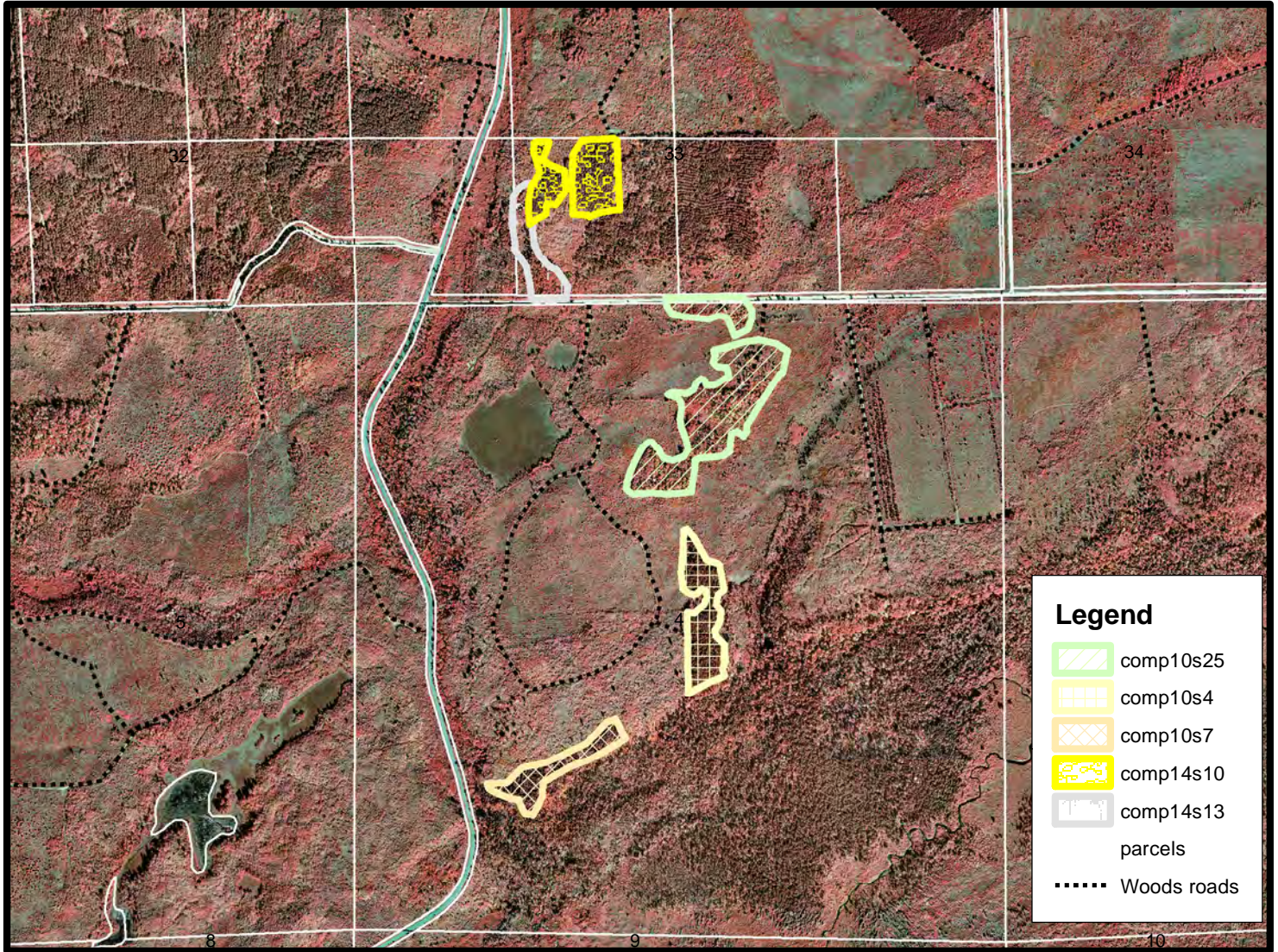
Sale proposal is for a 42 acre stand of fir that is listed as 1957 origin and portion of a 105 acre stand of aspen listed as 1945 origin. The aspen stand was included in harvest schedule as the stand was “z’d” out due to it being primarily in the Trask creek drainage. This sale would harvest portions of the stand not within the drainage RMZ Recon will be updated during sale establishment. Regeneration harvest will be the prescription. Drainages will be excluded for water quality protection. Result of sale establishment will likely be around 80 acres give or take.....

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Brule River State Forest



Sale Name: Puzzle Pieces			Tract Number: 12-19	SALE PROPOSAL Area 15 Hazel Prairie Pines Forest Production Area
Twp: 46N,45N	Range: 11W	Section: 33, 4	Compartment: 10,14,	
Township: Bennett Solon Springs			Stand: 4,7,25,10,13	
Soil: Sand	Topography: Flat/Rolling		Acres: 38	
Seasonal Restrictions: None			Timber Sale #:	



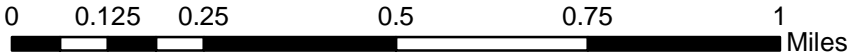
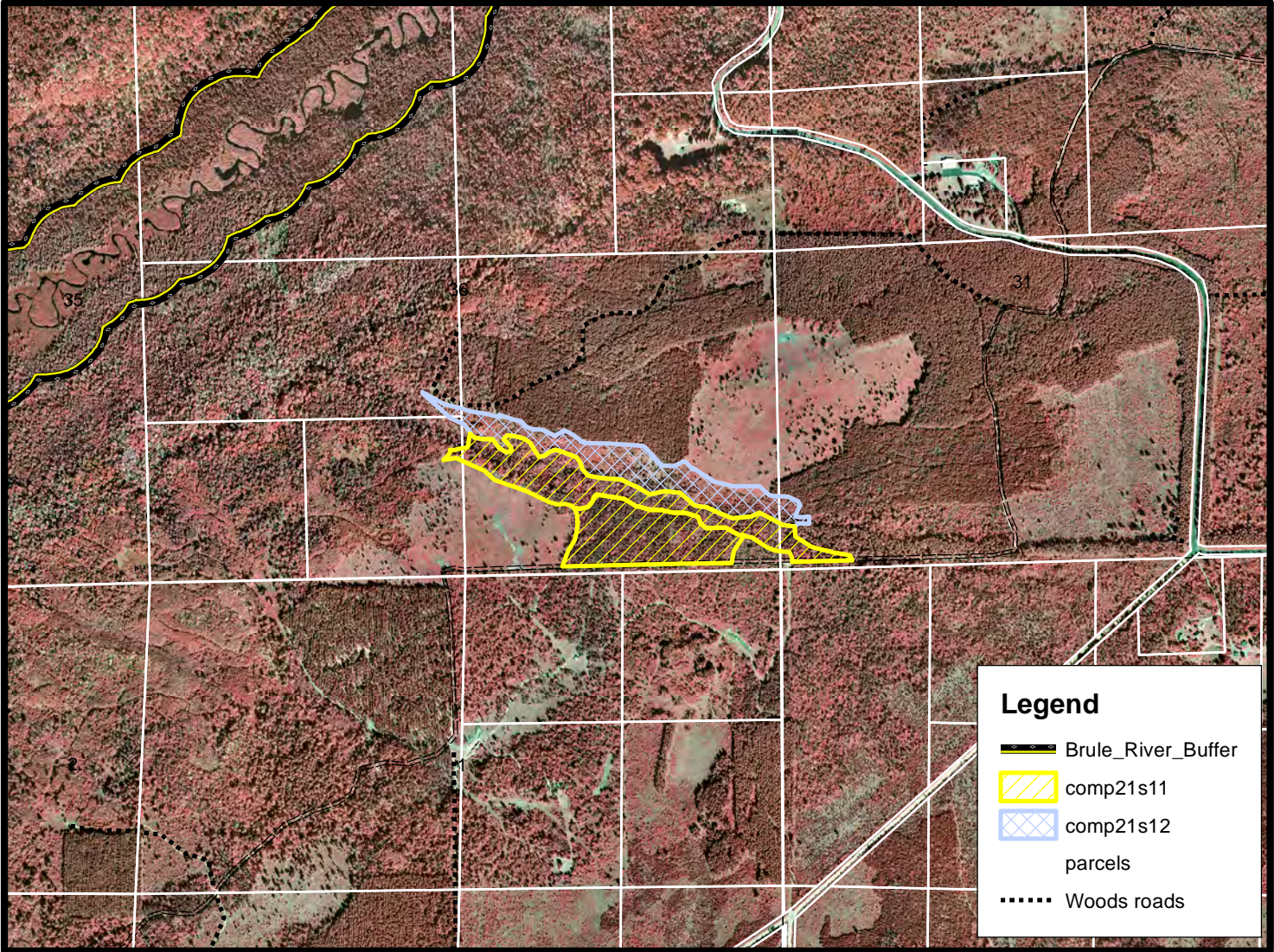
Sale Proposal is for 5 separate stands, aspen, scrub oak, red pine, and spruce which all need either a thinning or regeneration harvest treatment. Stands are located along Stone Chimney road north of Solon Springs. South of road, all stands are proposed to be clearcut, followed up with planting/and or seeding activity to regenerate to red pine and jack pine. North of road is an aspen stand that will regenerate from coppice and a small red pine plantation which will be thinned. Whole tree harvesting will be required to promote seedbed preparation and remove slash for site prep activities. Plantation areas will likely be furrowed and planted while scrub oak stand will be evaluated for direct seeding options or planting.

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Brule River State Forest



Sale Name: Jersett Jungle			Tract Number: 13-19	SALE PROPOSAL Hazel Prairie Pines Forest Production Mgmt Area
Twp: 46N	Range: 11W	Section: 36	Compartment: 21	
Township: Highland			Stand: 11,12	
Soil: Sand	Topography: Moderate Slopes		Acres: 42	
Seasonal Restrictions: None			Timber Sale #:	



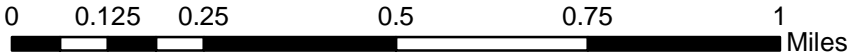
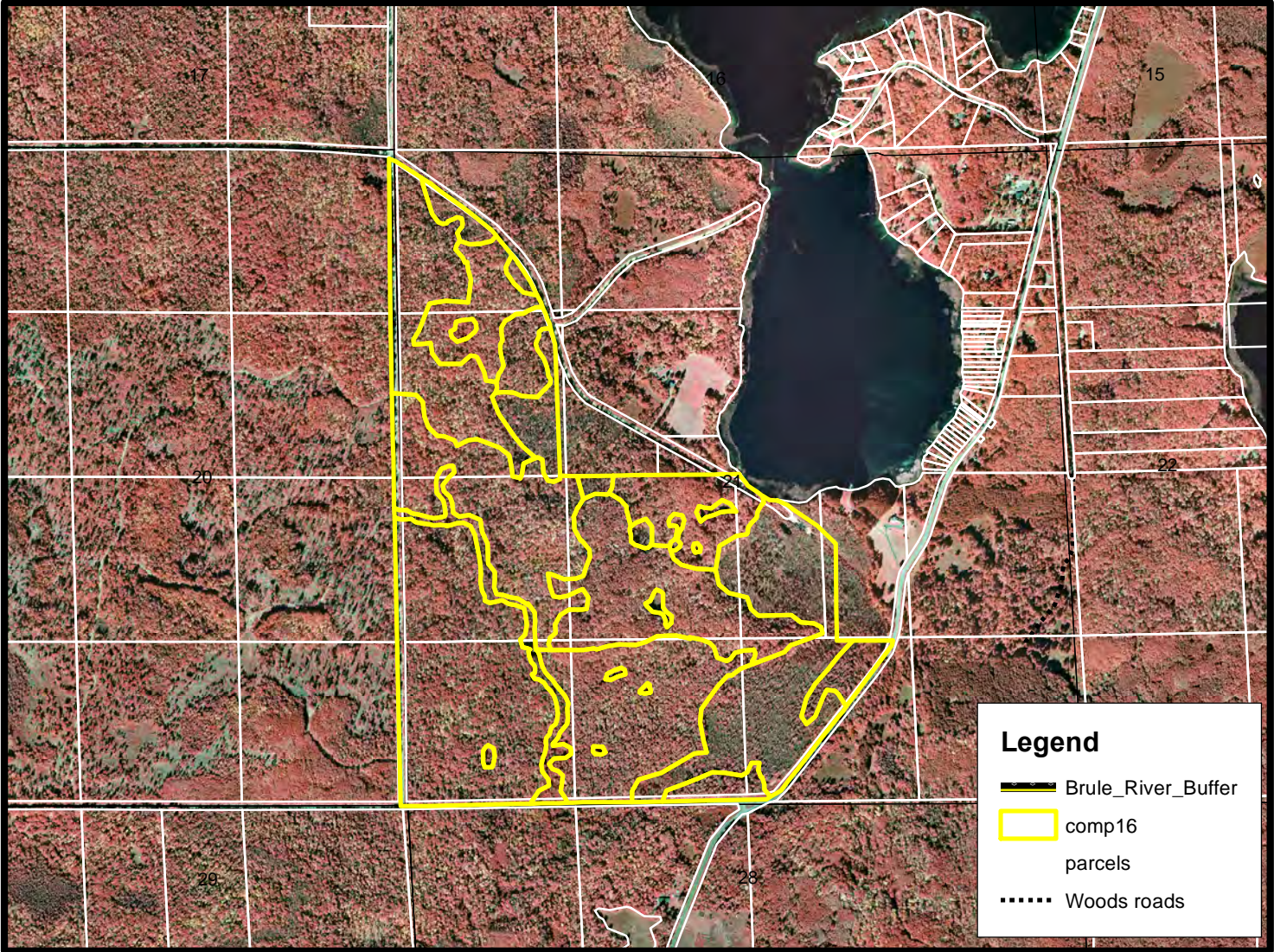
Sale proposal consists of 2 separate stands of jack/scrub oak and gassy openings which were blade scarified using fire control dozers during fall of 2019 fire control operator statewide conference. Site was blade scarified with the goal of creating a seedbed for jack pine seed which will be flown onto the site as the snow is melting during the spring of 2019. Sale will be set up with a one year contract to remove all standing timber on site to encourage jack pine to grow. Scattered white pine on site will be left for seed source diversity. Areas of aspen clones in the bottom of the valley will be harvested and allowed to sprout for regeneration. Aspen areas were mostly avoided during site prep activities.

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Brule River State Forest



Sale Name: Comp 16 – Lake Minnuesing			Tract Number: 14-19	SALE PROPOSAL Lake Minnuesing Native Community Management Area
Twp: 46N	Range: 11W	Section: 21	Compartment: 16	
Township: Bennet			Stand:	
Soil: Sand	Topography: Flat/rolling		Acres: 40	
Seasonal Restrictions: None			Timber Sale #:	



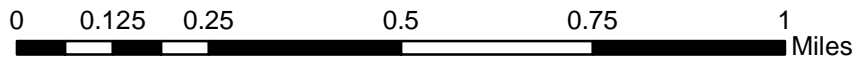
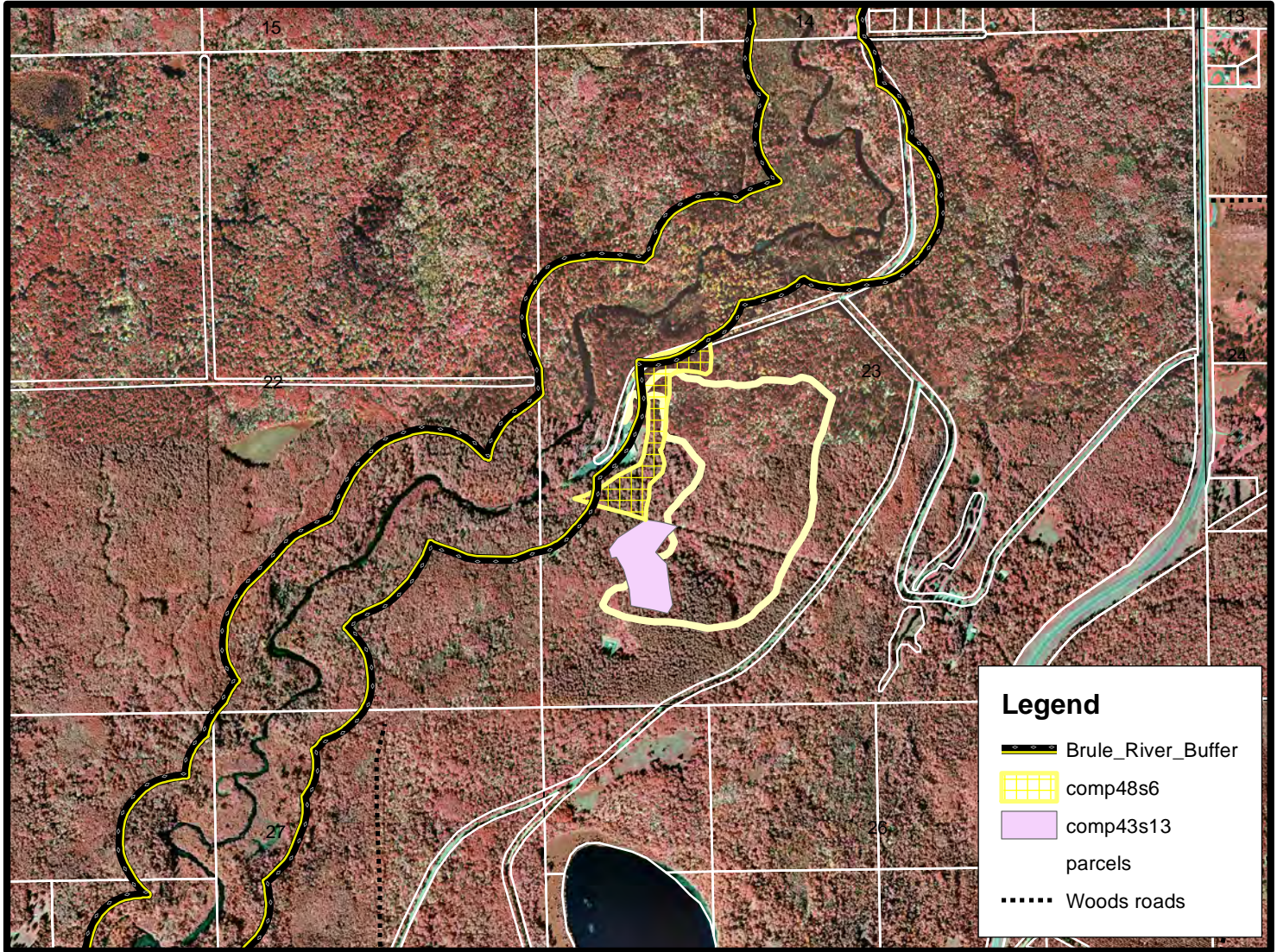
Sale proposal is contained within the Lake Minnuesing Native Community Mgmt Area which calls for mgmt. practices to maintain encourage an older forest of mixed hardwood and conifers, encourage hemlock, reduce aspen and white birch. Swamp hardwoods will be evaluated for mgmt. options to push forest cover types away from black ash in favor of native conifers such as tamarack. Sale proposal is for an area that has no record of active mgmt. in the close past, with all stands being older than 1972 origin. A small area (3 acres) of hardwood (oak) was harvested in 2014 to attempt hemlock regeneration and monitor same. Proposal would include harvest and thinning of any and all covertypes to accomplish mgmt goals as listed above. Harvest of ash, thinning and selective harvest of other species across cover types to encourage northern hardwood species is included.

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Brule River State Forest



Sale Name: Stoney View			Tract Number: 15-19	SALE PROPOSAL Ranger Station/Hatchery Administrative Area
Twp: 47N	Range: 10W	Section: 23	Compartment: 43,48	
Township: Brule			Stand: 13,6	
Soil: Sand	Topography: Flat/rolling		Acres: 14	
Seasonal Restrictions: None			Timber Sale #:	



Sale proposal is for a light thinning of an older red pine stand directly uphill from Bois Brule campground and mechanic shop. Stand is primarily red pine with a hardwood understory. Mgmt would focus on removal of trees which will be falling out of stand in near future and to thin remaining stand to develop large diameter high scenic quality stand. Stand on top of Stoney Hill is typed as a birch stand that is calling for a seed tree harvest to regenerate stand. Regeneration will be focused on developing long lived large diameter trees for scenic quality. Sale will be attempted to be sold directly to a contractor cutting in area with proper equipment and ability to harvest timber with minimal impact. Sale landing space will be behind upper mechanics garage or up “junk” trail past the wood boiler trail.

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