State of Alaska

Department of Natural Resources Division of Forestry & Fire Protection



Fairbanks-Delta Area
Draft Forest Land Use Plan
Anderson Spruce Timber Sale 2025
NC-2077-F

October 2025

Abbreviations

AAC Alaska Administrative Code

ADEC Alaska Department of Environmental Conservation

ADF&G Alaska Department of Fish and Game

ADNR Alaska Department of Natural Resources

AS Alaska Statute

BIF Best interest finding

CCF 100 cubic feet (timber volume)

DBH Diameter at breast height (4.5 feet above ground)

DMLW Division of Mining, Land and Water

DOF Division of Forestry & Fire Protection

FLUP Forest Land Use Plan

FRPA Alaska Forest Resources and Practices Act

FYSTS Five-Year Schedule of Timber Sales

MBF Thousand board feet

OHA Office of History and Archeology

ROW Right-of-way

TVSF Tanana Valley State Forest

YTAP Yukon Tanana Area Plan

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I. Introduction

Project File Number: NC-2077-F

Division of Forestry & Fire Protection Office: Fairbanks

Area Forester: Kevin Breitenbach

Forest Practices Geographic Region (AS 41.17.950): Region III

This Forest Land Use Plan (FLUP) covers proposed forest operations on approximately 247 acres of land west of Anderson along the Nenana River. It is intended to provide the best available information regarding the proposed harvest of timber, and management of other non-timber uses in compliance with AS 38.05.112 and AS 41.17.060, and must be adopted by the DNR before the proposed activity can occur.

⊠ This draft Forest Land Use Plan is for timber sale(s) which have been determined to be in the best interest of the state pursuant to AS 38.05.035 (e) and AS 38.05.945; [Best Interest Finding For Anderson West timber sales, NC-1448, NC-1449, NC-1504-F, NC-1615-F, NC-1616-F, NC-1617-F and NC-1981-F November 2024 available at https://forestry.alaska.gov/timber/fairbanks. This FLUP does not determine whether or not to access and sell timber within the timber sale area, nor the method of sale. Those decisions have been made previously in the November 2024 Anderson West Best Interest Finding and are not appealable under this FLUP.

☐ This Draft Forest Land Use Plan is for timber sale(s) for which a Preliminary Best Interest
Finding is currently out for review. A final best interest finding must be completed prior to
adoption of a FLUP pursuant to AS 38.05.035 (e) and AS 38.05.945;

⊠ This Draft Forest Land Use Plan is for timber to be harvested that does not require a final finding pursuant to AS 38.05.035 (e) and notification under AS 38.05.945.

The public and agencies are invited to comment on specific requirements for harvest, access, and reforestation operations in this draft FLUP. The decision on whether or not to offer timber for sale is made through the best interest finding process, and is not subject to review under the FLUP. Objections or comments pertaining to the draft FLUP must be received in writing by the DOF Fairbanks Area Office by **4:30pm AKST**, **Friday**, **November 21**st, **2025**, in order to ensure consideration for review. Comments should be mailed to the State of Alaska, Division of Forestry & Fire Protection, 3700 Airport Way, Fairbanks AK 99709, or by email to Andrew Allaby@Alaska.gov. For more information you may contact Andrew Allaby, Resource Forester at (907) 451 2603. To be eligible to participate in any appeal or request for reconsideration to the final decision, a person must be affected by the decision, and must have submitted comment to the preliminary decision during the comment period.

After public and agency review of the draft FLUP, the DOF will review comments, make changes as appropriate, and adopt the FLUP. An eligible person affected by this decision, and who provided timely written comment or public hearing testimony to the department, may appeal the decision to the DNR Commissioner per AS 44.37.011 and 11 AAC 02.

☐ Other Documents are reference	d in	this	FL	UF	. Thi	s timl	ber sa	le is	designed	d to	be	consisten
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with the management intent of the following documents:

Yukon Tanana Area Plan 2014

The administrative record for this sale is maintained at the Division of Forestry & Fire Protection Fairbanks Area Office filed as NC-2077-F. NC-2077-F is a compilation of several offerings previously mentioned in the 2024 Fairbanks Area FYSTS and Anderson West BIF as NC-1403-F and NC-1448-F.

A. Legal description

The proposed sales are located within Sections 14, 23, 26 & 35, T7S, R9W and Sections 10 T8S, R9W, F.M. See also maps in Appendix A.

B. Operational Period

NC-2077 Approximately 10 years from the "Effective Date" on the signed contract, with the option to cancel the contract after 3 years from the effective date.

C. Timber Disposal

□ Timber will be a second of the content o	be sold and will have a	contract administ	rated by the State).
☐ Timber will b	be available to the pub	lic; permits obtain	ed by the public v	will be issued by the
State.				
☐ Other				

D. Objectives and Summary

- Provide the raw material for the industry to produce timber products providing benefits to the state and local economy through employment opportunities.
- Harvest the commercial sawtimber and/or fuelwood before a significant decrease in vigor occurs and return the site to a young productive mixed stand forest.
- Provide firewood for the residential heating needs of interior Alaska communities.
- Promote multiple use management that provides for the production, utilization, and replenishment of timber resources while perpetuating personal, commercial, and other beneficial non-timber uses of the forest resources

II. Affected Land Owners/Jurisdictions

A. State

necessary.

Activi	ty on ownership:	Access Easement	Harvest	Written Representative Approval
☐ Tanana Valley State Fore	est			
☑ Other state land managed	by DNR	\boxtimes	\boxtimes	
☐ University of Alaska				
☐ Mental Health Trust				
☐ School Trust				
B. Other Land Ownership		2		_
III. Harvest Methods Resources	, Silvicultural Ao	ctions, and M	anagement	of Non-timber
Forest operations will be de	signed to:			
• Protect fish habitat and value 11 AAC 95.260370,		pliance with the	best managen	nent practices in
• Manage for the other lar Finding for this timber s		s identified in A	S 41.17.060 ar	nd the Best Interest
• Ensure prompt reforesta 41.17.060(c) and 11 AA		e of site product	ivity in compl	iance with AS
Harvest and Silvicultural Mo		document and	a a proganiation	. woo writton or is
\boxtimes The silvicultural actions a	are described in this	document, and i	to prescription	i was written or is

☐ A silvicultural prescription has been written and is attached to this document in Appendix B.

A. Timber Stand Description and History

The sale area is composed of uneven-aged floodplain spruce stands, along the west bank of the Nenana River. Units are naturally delineated by seasonal drainage channels with a very minor component of Alaska Birch and Balsam Poplar along water features. Where natural openings in the canopy occur an alder understory is present with a regenerating cohort of white spruce.

Cruise data shows roughly 106 trees per acre, a basal area of 100 sq ft. per acre and roughly 23 CCF net per acre of spruce sawtimber. The dominant size class is between 10-16 inches DBH. Southern portions of the stand have signs of higher mortality and lower volume due to various abiotic stressors such as seasonal flooding, wind, and aufeis, especially closer to the main river channel. These abiotic stressors have resulted in pockets of dead and wind-damaged leaning spruce that have hosted minor secondary insect activity. A forest health assessment in spring of 2025 revealed that scattered spruce beetle activity is taking advantage of these stressed or dead trees, however, there were no indications of elevated spruce beetle population levels.

B. Timber Harvest Activities

Timber Harvest Activities are displayed in Table 1.

Unit ID	Acres	Topography	Silvicultural Action	Logging Method
NC-2077-F unit 1	72.2	<5% slope	Clear Cut	Ground-Based Whole tree harvest
NC-2077-F Unit 2	50.9	<5% slope	Clear Cut	Ground-Based Whole tree harvest
NC-2077-F Unit 3	124.1	<5% slope	Clear Cut	Ground-Based Whole tree harvest

Table 1. Timber Harvest Activities

C. Site Preparation

Natural regeneration will be utilized initially for reforestation. The sales has been laid out so that areas adjacent to the boundary include mature, robust spruce trees to provide a seed source.

- ⊠ Site preparation will not be necessary. There is either sufficient residual stocking, or because there has been sufficient soil disturbance by logging to forego scarification.
- \square Site preparation will be implemented and described in Table 2:

Table 2. Site Preparation	Tabl	e 2.	Site	Prep	aration
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Unit ID	Acres	Site Preparation Method	Date of Completion
NC-2077-F1	72.2	Natural regeneration	12 years post-harvest
NC-2077-F-2	50.9	Natural regeneration	12 years post-harvest

Unit ID	Acres	Site Preparation Method	Date of Completion
NC-2077-F-3	124.1	Natural regeneration	12 years post-harvest

Mechanical site preparation should avoid driving heavy equipment over known den sites greater than 12" in diameter (e.g., dens for fox, wolves, and bears).

D. Slash Abatement ☐ Potential for insect infestations caused by slash accumulations exists. Slash abatement for controlling infestations will be implemented as required by 11 AAC 95.370. ☑ Lop and scatter slash; accumulations will be kept to less than 2 feet in height. \boxtimes Slash will be disposed of by the operator \square Slash will be disposed of by the State \square Other - method of slash disposal: \square removal off site \square crushing or grinding \square burning ☐ Burn permits necessary from DOF and DEC to be acquired. ☐ The operator will contact the DOF local area office prior to ignition of debris. E. Soil Stability / Erosion / Mass Wasting \boxtimes Maximum percent side slopes are $\leq 50\%$ ☐ Maximum percent side slopes are >50% Percentage of sale area with slopes >50%: 0% Maximum percent slopes: 5% ☐ There are no indicators of unstable areas. ☐ Indicators of unstable areas were identified and will be mitigated by actions indicated below.

F. Timber Harvest—Surface Water Protection

- ☐ There are no streams or lakes abutting or within a harvest unit.
- ⊠ Known surface waters and protection measures are described in Table 3 below. *Locations are included in the operational map in the Appendices*.

Table 3. Protection for Known Surface Waters

Unit	Waterbody Name	AS 41.17.950 Classification	ADF&G AWC#	Required Riparian Protection	Site-specific actions to minimize impacts on riparian area
NC-2077-F	Nenana River	III-A	334-40- 11000- 2490-3200	100-ft timber retention buffer	Winter roads and crossings to comply with FRPA Best Management Practices • Operator required to obtain ADF&G Stream Crossing permit

Surface waters listed above were reviewed by the Department of Fish and Game: ☐ During the timber sale planning process ☐ During the agency review conducted for the Best Interest Finding for this sale ☐ During the drafting of this Forest Land Use Plan ☐ Stream Crossings (Title 16) Permits are needed per ADF&G Division of Habitat
Surface waters listed above were reviewed by the Department of Environmental Conservation: ☐ During the timber sale planning process ☐ During the agency review conducted for the Best Interest Finding for this sale ☐ During the drafting of this Forest Land Use Plan
Non-classified surface waters are subject to applicable BMPs in 11 AAC 95.
Notes: Large portions of the sale areas have been subject to intermittent flooding and aufeis. Seasonal surface flow has been observed within channels near the sales at times of high water or during winter aufeis events.
G. Wildlife Habitat
 ☑ Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the Best Interest Finding review. ☐ Wildlife species and allowances for their important habitats were addressed in writing by the Department of Fish & Game during the drafting of this Forest Land Use Plan.
 Silvicultural practices to be applied to minimize impacts to wildlife habitat or wildlife management: ☑ Timber retention - concentrations of timber surrounding harvest units, or interspersed within harvest units to provide cover. ☑ Snag Retention- snags or isolated trees left for cavity nesting species. ☐ Large Woody Debris – concentrations of downed timber or logging debris interspersed within harvest units to provide cover left on site. ☐ Other actions
Notes:
H. Cultural and Historical Resource Protection
 ☑ This project was reviewed by the State Historic and Preservation Office (SHPO). ☑ No artifacts have been reported within the project area(s). ☐ Known or likely sites have been identified and a mitigation plan is in place. (Describe the mitigation actions.)

I. Other Resources Affected by Timber Harvest and Management

☑ There are other resources and areas of concern besides surface water, fish habitat, and wildlife habitat that may be affected. Mitigations actions were addressed in the Best Interest Finding.

Table 4. Other Affected Resources / Areas of Concern

Impacted Resource	Reviewing Agency	Impact/ Mitigation Actions			
Kobe Ag Road	DNR	 Impact: Access route for logging traffic uses 0.25 mi of public road Mitigation: Ensure public roads at the end of the contract will be left in a condition equal to or better than they were before the sale. Require project work to effect this within the contract 			
Rochester Way	DNR	 Impact: Access route for logging traffic uses 3.25 mi of public road with numerous private parcels. Mitigation: Ensure public roads at the end of the contract will be left in a condition equal to, or better than they were before the sale. Require project work to effect this within the contract. 			
Private residences DNR • Mitigation: Conconditions than		imputed Fractional rogging statile on public road			

☐ There are no affected resources or areas of concern other than surface water, fish habitat, and
wildlife habitat, which are addressed in this Forest Land Use Plan.
Notes:

J. Reforestation

The sale area will be reforested in compliance with the Forest Resources and Practices regulations (11 AAC 95.375-.390) Natural regeneration will be utilized initially for reforestation. The sale has been laid out so that areas adjacent to the boundary include mature, robust spruce trees to provide seed to this unit. Reforestation will be assessed within five years post-harvest, and a regeneration survey will be conducted if regeneration appears marginal or patchy. If the survey indicates inadequately stocked areas, then scarification or seedling planting may be performed on nonstocked areas. The goal for regeneration is to achieve a minimum of 450 evenly distributed trees per acre at the end of the regeneration survey period (any commercial tree species).

Harvest type as it relates to reforestation requirement:

\boxtimes C	learcut
□ R	Region I: Partial Harvest leaving more than 50% live basal area (11 AAC 95.375(b)(3))
	Region II or III: Partial Harvest relying on residual trees to result in a stocking level that meets standards of 11 AAC 95.375(b)(4).

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Season of harvest:
⊠ Winter harvest only
☐ Non-winter harvest only
☐ All-season harvest
Regeneration type:
□ Natural regeneration
List species: White Spruce, Alaska birch, Balsam Poplar
⊠ Coppice
List species: Alaska Birch, Quaking Aspen
☐ Artificial regeneration
☐ Seeding: Species and source of seed (general vicinity location of seed source)
☐ Planting: Species: Date of proposed planting:
Source of seedlings (location of seed source):
See Appendix B for further reforestation details.

IV. Roads and Crossing Structures

A. Road Design, Construction, and Maintenance

Roads will be designed, constructed, and maintained to prevent significant adverse impacts on water quality and fish habitat (AS 41.17.060(b)(5)), and site productivity (AS 41.17.060(c)(5)). Roads will comply with the best management practices in the Forest Resources and Practices Regulations (11 AAC 95.285 - 95.335).

Roads or other means required for the access and removal of this timber from the harvest area(s) or unit(s) are listed in Table 5.

Table 5. Road Construction and Use

Road ID	Segment	Harvest Unit	Mile/ Station **	Road Class	Maximum Grade %*	Constructed By	Maintained By
Kobe Ag Road	1	All	0.25 mi	Non-FRPA	<5%	DOT	Residents
Rochester Way	2	all	3.25 mi	Non-FRPA	<5%	DOT	Residents
NC-2077 Winter Road	3	all	4.0 mi	Winter	5%	Operator	Operator

NC-2077 Win Road	iter 3		all 4.0	0 mi	Winter	5%	Operator	Operator
Road Class i. *Note: Road:						060 Addition	nal Logging S	tandards.
Notes:								
B. Soil Eros	sion / Ma	ss Wast	ing					
Maximum p	ercent sid	de slope:	s: <u><5%</u>					
⊠ Maximu	m percent	t side slo	opes are ≤5	50%				
\square There	are no in tors of ur	dicators istable a	reas were	e areas whidentified	and will	s will be conbe mitigated k and Mitig	l by actions ir	ndicated
Road ID	Segment	Mile/ Station or Point Label	Identified Erosion Risk	Risk Level		I	Mitigation	
Kobe Ag	1	0.25 mi	Negligible	Low		E	xisting road	
Rochester Way	2	3.25 mi	Negligible	Low		E	xisting road	
NC-2077 Winter Road	3	4.0 mi	Seasonal river channels	Low	exposed	by winter roawill be require	nts of erodible m d operations, wa d adjacent to stre pt sedimentation	nterbars or other eam crossings to
General Tim ☐ Grass ☐ Other:	seeding		Control: □ Erosion			☐ Wattle ⊠ Not app	□ blicable	☐ Waterbars

C. Crossing Structures

Are you removing or replacing drainage structures? YES	⊠ NO
☐ No crossing structures are needed within the project area.	
⊠ Crossing structures will be placed in access roads as described i	n the table below:

Table 7. Required Drainage and Crossing Structures on Known Surface Waters

Road ID	Segment	Mile/ Station or Point Label	Bridge Length (ft.) or Culvert Diameter (in.)	Structure Type	AS 41.17.950 Stream Classification	ADF&G AWC Number	Duration of crossing structure in place
Various spur roads within sale area	n/a	n/a	n/a	Ice & snow bridges	n/a	Not Catalogued	Winter seasonal operations

D. Road Closure

Roads constructed for the timber sale that are left open will be subject to maintenance standards under 11 AAC 95. 315. Otherwise, roads constructed for the timber sale will be closed, subject to standards under 11 AAC 95.320.

Table 8. Road Closures

Road ID	Segment	Unit	Closure Type All Season/Winter	Estimated Closure Date	Projected Road Use after Timber Harvest
none					

E. Material Extraction

□ There will be no material extraction sites in the project area.	
☐ Material extraction and associated overburden disposal will be located outside of riparian	
areas and muskegs. Material extraction and disposal will be located as shown on the	
operation map, in a manner that prevents runoff from entering surface waters.	
□ Other:	

F. Other Resources Affected by Roads or Material Extraction

List resources other than water, habitat or cultural resources potentially impacted by road construction, and indicate how impacts will be mitigated. Other affected resources could be, but are not limited to mining claims, scenic areas, recreational trails, etc.

Table 9. Other Affected Resources

Impacted Resource	Reviewing Agency	Impact / Mitigation Actions
none		

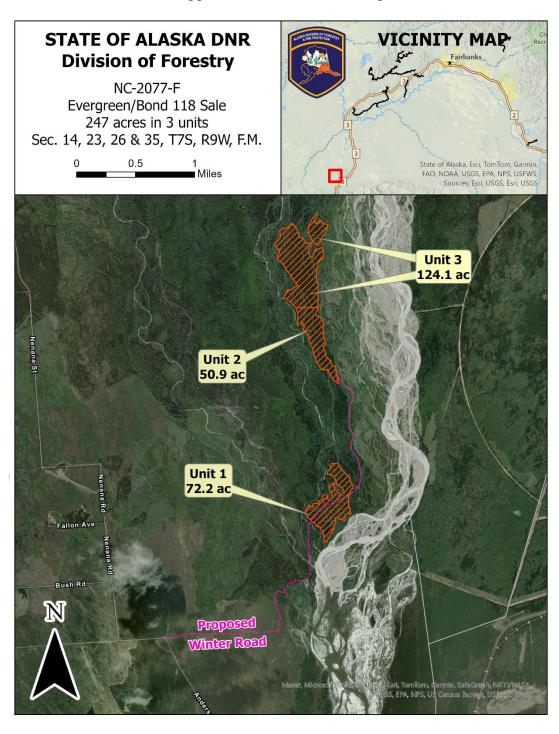
V. Approvals for Draft FLUP

This Draft Forest Land Use Plan has been reviewed by the	e Division of Forestry & Fire Protection
and provides the information necessary for public and age	ency review of the project described in
this document.	

Area Forester	Date	
Regional Forester	Date/	

VI. Appendices

Appendix A: Timber Sale Maps



Appendix B: Supporting Information

Reforestation Supporting Information

For Region II or Region III partial harvest relying on residual trees to result in a stocking level that meets standards of 11 AAC 95.375(b)(4). Stocking levels will be calculated as follows:

Table 1. Stocking Level Requirements

Average DBH (Diameter at breast height)	Residual Trees (Trees/acre)	Minimum Stocking Standard (Trees/acre)	Percent Stocking
≥ 9"	0	120	0%
6" to 8"	0	170	0%
1" to 5"	0	200	0%
Total Residual Stocking			0%

	U							
	tage Unde		d = 100 - Total Resid $d = 100 - \underline{100}\% = \underline{0}$					
	Seedlings/ Acre Required = Percentage Understocked/100 x 450 Seedlings/ Acre Required = $\underline{100}\%$ /100 x 450 = 450							
☐ Artifici	al regenera	ation						
	ing: Speci	es and s	ource of seed (gener	ral vicinity location of sec	ed source)			
☐ Planting: Species: Date of proposed planting:								
Sour	ce of seedl	ings (lo	cation of seed source	e):				
natural	_	ion. If a		tion on the following ind "please explain/describe	<u> </u>			
Yes No N/A Unknown Seedbed and soil conditions suitable for natural regeneration								
		\boxtimes	Moss layers are sh	allow (≤4") or absent				
			3 3	ations collected during winter, tory vegetation support a conc				

are not characteristic of the seedbed.

DRAFT Forest Land Use Plan for Anderson Spruce Timber Sale 2025 \boxtimes Where birch or spruce regeneration is targeted, exposed mineral soil will exist on at least 25% of the harvest area and is well-distributed across the unit \boxtimes Where aspen regeneration from suckering is targeted, root damage will be minimal and soil exposure will encourage warming. Yes N/A Unknown No Seed/vegetative reproduction sources available Exposure to prevailing winds, if known \times \boxtimes Adequate seed trees exist within 3 tree heights of the reforestation site for spruce or within 2 tree heights for birch *79% of the stand is within 3 tree heights of mature spruce timber The multi-aged nature of the stand and non-continuous distribution of sawlog stems ensures there will be adequate growing stock available to provide seed and/or serve as advanced regeneration П \boxtimes Where spruce regeneration is targeted, large seed crop in year prior to harvest or current year *large seed crops occur every 3-5 years and are expected during or shortly after the harvest cycle. XWhere vegetative reproduction is targeted the harvest area contains sufficient, well-distributed paper birch, aspen, balsam poplar, western black cottonwood, red alder, or other species known to regenerate vegetatively as approved by the Division. <u>Yes</u> No N/AUnknown Competition and infestation risk \times Calamagrostis (bluejoint grass) is not visually evident. If Calamagrostis is visually evident, describe abundance and distribution. Note: Calamagrostis coverage of more than 1-2% distributed across the site indicates that grass coverage may expand rapidly after harvest without treatment. *The majority of field measurements occurred in the winter. The extent of Calamagrostis could not be observed. Equisetum (horsetail) is present prior to harvest \boxtimes XThe site is not currently subject to intense herbivory due to peaks in the hare cycle, dense moose populations, or scarcity of browse in the surrounding landscape. \boxtimes Existing stands are not infested with bark beetles (Dendroctonus or Ips) A Forest health assessment in spring of 2025 indicates minor beetle activity in wind stressed spruce and pockets of mortality, however there is no evidence of widespread beetle activity. XWhere spruce regeneration is targeted, harvest areas are free of known incidence of Onnia tomentosus root rot.

Note: tomentosus can kill regeneration of spruce and, to a

lesser degree, pine and larch. If *tomentosus* is present, describe the extent of the problem in the notes box below. Design reforestation to minimize continuation or spread of the disease

