



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Natural Resources

Division of Forestry and Fire Protection

SOUTHEAST AREA OFFICE
2417 Tongass Avenue, Suite 213
Ketchikan, AK 99901
Main: 907.225-3070

April 3, 2025

To: Sawmill Operators

RE: REQUEST FOR PROPOSALS
FOR PURCHASE OF THE ODYSSEY TIMBER SALE (SSE 1391-K)

Dear Mill Owners:

Under the authority of AS 38.05.118, the Division of Forestry and Fire Protection (DOF) is soliciting Requests for Proposals (RFPs) from qualifying businesses interested in negotiating the purchase of a timber sale located on the northern part of Prince of Wales Island near the community of Whale Pass. The intent of this sale is to supply timber to a mill operator doing business within the State of Alaska. The Division of Forestry will require the sale's saw log volume to be manufactured in the State of Alaska and to produce as much "value-added" and "high value added" product as possible. Limited export of round saw log timber will be considered ***if identified in the initial proposal***. Round log export shall be a minor component of the sale. The successful proposer will be allowed, and is encouraged, to sell logs that their company does not have the markets for or capabilities to manufacture, to other local mills for in-state manufacture. The use and manufacture of utility volume is optional, based on the purchaser's needs. A log accountability plan shall be used to track all timber harvested. The purchaser will provide the DOF with certification of scale volume by species and log grade as determined by an independent third-party scaling bureau.

The RFP process is designed to provide a fair method to determine which qualifying business would potentially provide the most benefit to the State and local communities by harvesting and processing a given timber sale offered by the State of Alaska. This process is used due to the high level of interest in and high demand for state timber sales. The capabilities represented by the proposer are expected to be in good faith and factual. The DOF will consider any RFP non-responsive that fails to provide the required information or if the information provided indicates that performance would be improbable. Should a purchase agreement not be reached between the two parties within ten business days of the selection of the highest scoring proposer, the Division of Forestry will select the next highest scoring proposer for negotiations.

Sale Description:

The area of the sale is proximate to the community of Whale Pass and the El Capitan Passage on Prince of Wales Island. More Specifically it is legally referenced as: El Capitan North and South Subunits: Section 36, T65S, R78E; Section 31, T65S, R79E; Sections 1, 12, T66S, R78E; Sections 6, 7, T66S, R79E; Sections 13, 24, 25, T66S, R78E all in Copper River Meridian (CRM). Whale Pass Addition Subunit 5a: Sections 1,12, T67S, R79E, CRM. Exchange Cove Subunit 1b: Sections 29, 32, T65S, R80E, CRM. The sale area is found within the Petersburg A-4 USGS quadrangle. The main access for this sale area is from the existing Prince of Wales Island Road System, specifically off the 2000, 2500, and 3000 Roads. None of the sale polygons (proposed harvest units) or roads are

currently marked on the ground.

The identified area of harvest totals approximately 600 acres of timbered land. Initial estimates indicate there is between 3,000 and 6,000 MBF of merchantable saw log timber that may be of economic interest. “Merchantable Sawlog,” is a No. 3 or better sawlog according to the Official Rules of the Log Scaling & Grading Bureaus developed and authored by The Northwest Log Rules Advisory Group. The minimum gross merchantable sawlog length for the purpose of this contract is 12 feet long plus trim. This assessment is based on field observations, the prevailing markets observed in the fall of 2024 and interest in the timber sale area expressed by the prevailing timber industry.

These proposed timber sale areas target timber stands that have been previously excluded from planned harvest based on operational norms, and in consideration of at least one of the following issues: low timber volumes per acre, high defect, isolation/access, topography, etc. While the proposed sale areas may also have typical site-specific environmental constraints (fish and wildlife habitat, surface waters, cultural resources etc.) that need to be avoided, (outlined in the DOF’s March 7, 2025, Best Interest Finding) they are generally constrained by the characteristics of the timber and site conditions.

The sale is a negotiated contract requiring “purchaser layout” and in-state manufacture of harvested timber. This timber volume will be negotiated and sold under the provisions of AS 38.05.118, in the form of one timber sale.

The Purchaser layout process and project standards for this RFP are defined in Exhibit F. Purchaser layout includes all necessary field and office work to identify, field-locate, document and convey to the DOF the purchaser’s proposed commercial timber harvest intent.

The State has estimated potential timber volumes and projected typical removal costs to appraise this sale using a residual value analysis. The value of the timber may or may not pay for all of the identified timber removal costs. Subsequent to industry demand for timber volume, and grounded on the appraisal analysis, the DOFs minimum accepted rate for the sale is the area “base rate”. The base rate is the minimum rate that state timber may be sold. This minimum stumpage rate is specified by 11 AAC 71.045(c) and detailed in 11 AAC71.092 (b) (Pricing for sale of timber) as “the estimated state administration cost of the sale after purchase”. This rate has been computed to be \$9.00/ MBF (sawlog) for this sale area and is the minimum sawlog rate for all species accepted for the sale.

Minimum Mill Experience Required

In order for your proposal to be considered responsive, a proposer must be able to demonstrate the following minimum experience and qualifications:

- The proposer is a resident of Alaska and is licensed to do business in the State of Alaska;
- The proposer owns a functioning sawmill in the State of Alaska that has the proven capability to process and manufacture at least value-added wood products.
- The proposer has experience developing and managing a timber sale of similar size and complexity.

The DOF will only give consideration to potential purchasers that will manufacture the majority of the sale volume, at a minimum, into value-added or high value-added wood products.

As defined in AS 38.05.123(j) (2) or determined by the commissioner, value-added wood products are:

- Round house logs
- chips
- green lumber
- flitches, cants or rough planks
- Radius edged decking or siding

As defined in AS 38.05.123(j) (1) and 11 AAC 71.096, a high value-added wood product includes:

Interior finish paneling, trim molding, flooring, doors, windows, cabinet stock, furniture, musical instruments or parts of instruments, toys, tools and implements, ready-to-assemble building kits, veneer, plywood, finger-jointed lumber, faced house logs, dissolving pulp, engineered wood products, paneled wood products, kiln-dried lumber, laminated veneer lumber, shakes, shingles and other similar finished wood products as determined by the commissioner to have received processing beyond sawing and planning that adds high value to the wood product.

Outline of Agreement Terms and Conditions

1. The Purchaser's operations on the timber sale must at all times comply with the Best Management Practices as outlined in the Alaska Forest Practices Act and Regulations for public lands, the Best Interest Finding (BIF), and the adopted Forest Land Use Plan (FLUP) for the timber sale. No commercial forest activity as defined in 11 AAC 95.190 (a) (1) shall occur in the sale area until a FLUP has been adopted by the DOF. The BIF for the sale may be viewed at:
<http://notice.alaska.gov/218718>
2. The purchaser's operations shall always have a designated field representative on site during operations. A written operating plan, including written designation of purchaser's representative, shall be on file that substantially represents current operations and the requirements of the contract. The plan is subject to DOF approval prior to commencement of timber sale operations.
3. The purchaser shall conduct sale layout tasks in Exhibit F. The DOF shall produce a draft FLUP that to the extent it is in its best interest represents the purchaser's layout. The parties will make reasonable efforts to resolve and develop solutions to issues through the sale design process. Either party may terminate the agreement prior to the completion of sale layout.
4. Liability requirements are outlined in the sample contract; the purchaser shall defend, indemnify, and hold harmless the State of Alaska according to the contract outline.
5. The potential purchaser will have the ability to adequately bond for the successful performance of the timber sale. The successful proposer will be required to post a minimum performance bond in the form of cash, certificate of deposit or surety bond in the amount of **fifty thousand dollars (\$50,000.00)** with the State for purchase of the timber sale at the time of signing the contract.
6. This is a scaled sale. The Purchaser shall propose a price per thousand board feet net Scribner scale in Appendix C. The purchaser shall make a nonrefundable Initial Stumpage Fee payment of **\$5,000** with their proposal. The purchaser shall make an Advanced Stumpage Deposit payment totaling **\$10,000.00** at the execution of the contract. The advance stumpage deposit is refundable in the event the agreement is terminated prior to the harvest of timber. Timber shall not be felled or removed from the sale area prior to making an advanced stumpage deposit that represents at least the next two months of planned activity. This stumpage deposit will be retained until the purchaser and the DOF agree that approximately 80% of the sale has been harvested. The purchaser's Initial Stumpage Fee from the RFP process will be applied to the contract Stumpage Deposit. No interest shall be due from the State on Stumpage Deposits. Road building may occur at the State's discretion upon adoption of a FLUP and payment of the advanced stumpage deposit.

7. The term of the contract is five years.
8. Purchaser road construction and management:
 - a. New road construction must conform to the FLUP and operating plan submitted by the purchaser and approved by the DOF: Roads at a minimum will be constructed to DOF Road Standards (site specific variances may be considered if authorized by the DOF in the FLUP);
 - b. Maintenance on all roads associated with this sale will be comply with 11 AAC 95.315;
 - c. The closure of roads at the end of the contract or other mutually agreed to timeframe is required of all new State forest roads within the timber sale area to 11 AAC 95.320.
 - d. Written authorization of the managing road authority shall be provided in the purchaser's operating plan prior to timber harvest activity that is reasonably considered to be contingent of the authorization. The Purchaser is responsible for procuring the road use authorization and paying all associated costs of use.

Evaluation of the Proposals

Proposals shall present documentation of their mill capacity in a clear manner so that the DOF can judge and convey its basis of decision to the other proposers. The proposer at a minimum is required to submit a summary of their mill capabilities on Exhibit C. If the proposer feels that more information is desired to reflect its position and experience, please attach the additional information to your proposal.

The State of Alaska intends to negotiate a timber sale agreement with the proposer that has the highest composite score for this sale, based on the following criteria and their respective weight:

1. The track record of the company managing the development of a timber sale of similar size and process **value-added** or **high value added** timber products. The successful proposer will document the past three years of mill production for their mill(s). The proposer that provides a clear and verifiable record will receive a total of 15 points (25%).
2. The proposer shall agree to producing **value-added** or **high value added timber** products from at least 50% of the timber harvested by volume from this sale. Any facility, present or proposed, must be operational before sale purchase. The proposer that agrees to produce for this sale will receive 25 points (25%).
3. The proposed sale price from the proposer for the sale, 50 points (50%). The proposal will be evaluated based on the camp run stumpage price of the sawlog timber. The highest price will get the most points. Other submitted proposal sale prices that are less than the highest price will be prorated based on the highest price submitted.

The State reserves the right to reject any or all proposals. Unless all proposals are rejected, the State intends to award the sale to the responsible qualified proposer with the highest composite score for the timber sale as determined by the State using the State's proposal sheet. In the final accounting of the contract, the successful bidder will be responsible for payment of the actual timber harvested as it is scaled.

Proposals which do not include the required information as listed above will be rejected and not scored. The appeal of rejected proposals must be in writing and received by the commissioner's office within twenty days after the date DOF rejected the proposal and notified the unsuccessful proposers (11AAC 02.030).

Five points per question will be deducted for incomplete, misrepresented, or missing information requested on Exhibit C. If the proposer cannot answer a question on Exhibit C, the proposer must state that the question is unanswerable and provide the reason why. The DOF will not deduct points nor will it give points for a qualified "no response" to a question by the proposer in their proposal.

The DOF's decision to negotiate with the highest scoring proposer may be appealed in writing within five days in accordance with AAC 38.05.120. To appeal the decision the aggrieved proposer must have submitted a complete and timely proposal to the DOF for the timber sale in contention.

Communication regarding the timber sales will not be considered relevant unless presented in writing. A committee appointed by the Southeast Area Forester will evaluate the proposals. For additional information regarding this timber sale, contact the DOF Area Forester at <mailto:dnr.dof.sse@alaska.gov> or at (907) 225-3070.

Submission Requirements

If your firm is interested in purchasing **this sale**, please provide this office with a completed proposal. Send to the attention of the Southeast Area Forester at the Alaska Department of Natural Resources, Division of Forestry, 2417 Tongass Avenue, Suite 213, Ketchikan, Alaska 99901 no later than **2:00 p.m. May 5, 2025**. Proposers are responsible for assuring that their complete proposal(s) are delivered on time.

All proposal(s) shall include the following information for the sale(s) you are proposing to purchase:

1. A copy of your current Alaska Business License;
2. A complete Timber Sale Proposal Sheet (Exhibit C);
3. A **certified cashiers check** or **money order** for the Initial Stumpage Fee made out to the State of Alaska for **\$5,000.00**. The successful proposer's check or money order (Initial Stumpage Fee) will be used towards the purchase price of the timber sale. The fee is not

refundable upon signature of the contract. The unsuccessful proposers will have their check or money order returned.

4. The proposal will be submitted in an envelope labeled with the name and number of the timber sale and titled, "Odyssey Timber Sale Proposal".

Proposals which do not include the required information as listed above will be rejected and not scored. Appeal of rejected proposals must be in writing and received by the commissioner's office within twenty days after the date the rejected proposal was received by the proposer (11AAC 02.030).

Sincerely,

Southeast Area Forester

cc: Steve Connelly, Coastal Regional Forester, DOF Anchorage

Exhibits:

Exhibit A - Adopted Best Interest Finding Sale Vicinity and Area Maps (5 Pages)

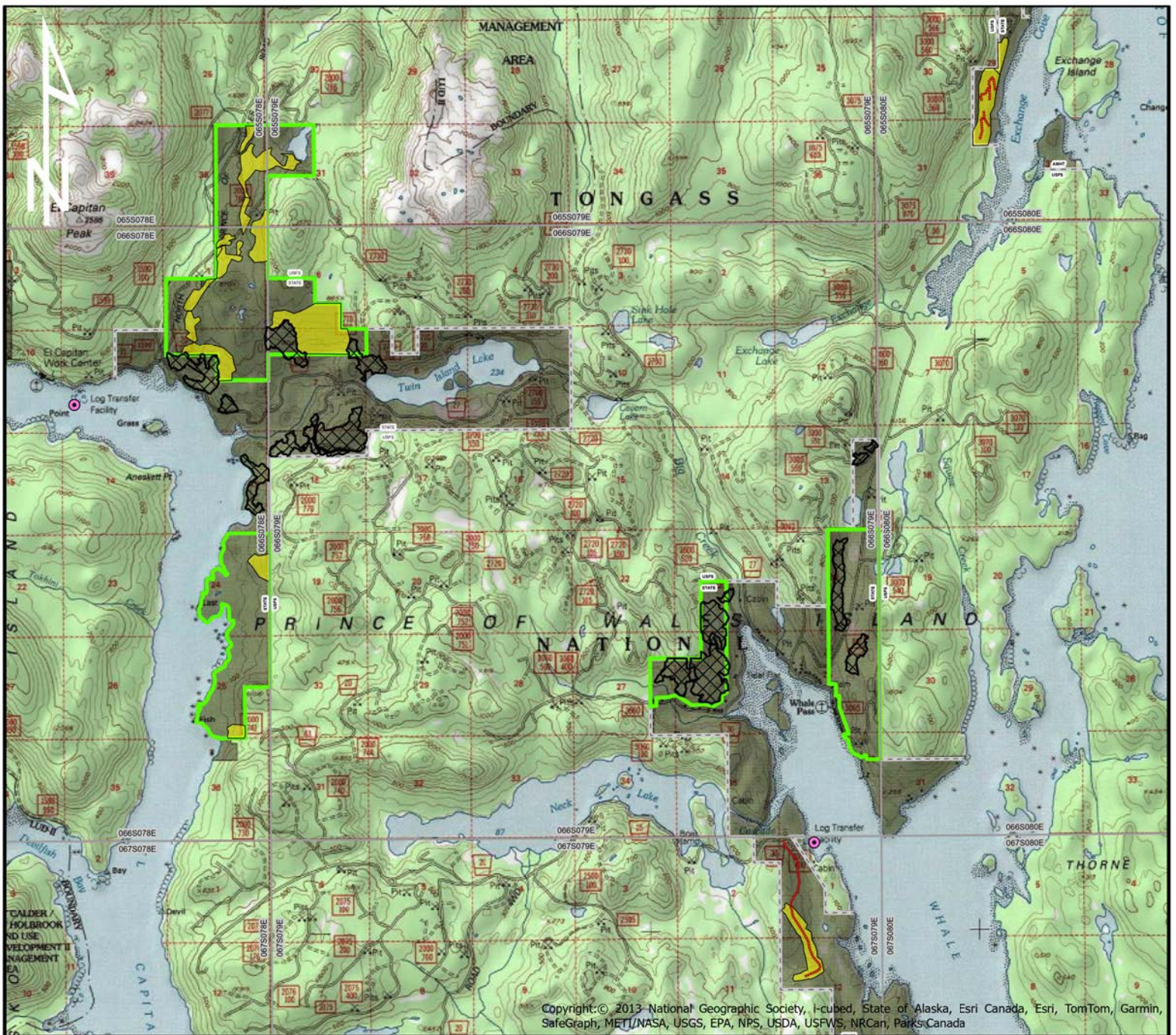
Exhibit B – Reserved (Not Used)

Exhibit C - Timber Sale Proposal Sheet. (2 Pages)

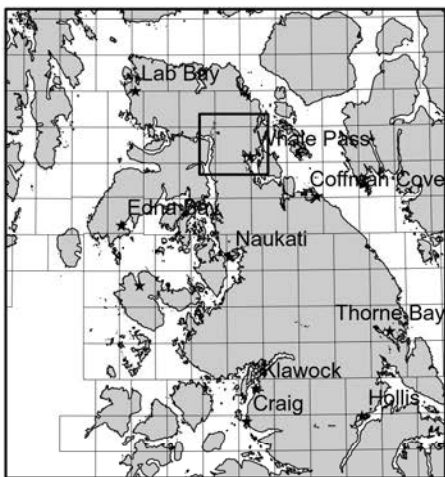
Exhibit D - Timber Sale Sample Contract. (Approximately 26 Pages)

Exhibit E - Reserved (Not Used)

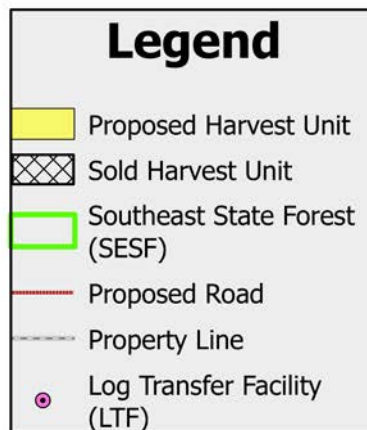
Exhibit F - Purchaser Timber Sale Process And Layout Standards (6 Pages)



0 3,750 7,500 15,000
 Feet
 Area Map 1 in = 7,500 FT

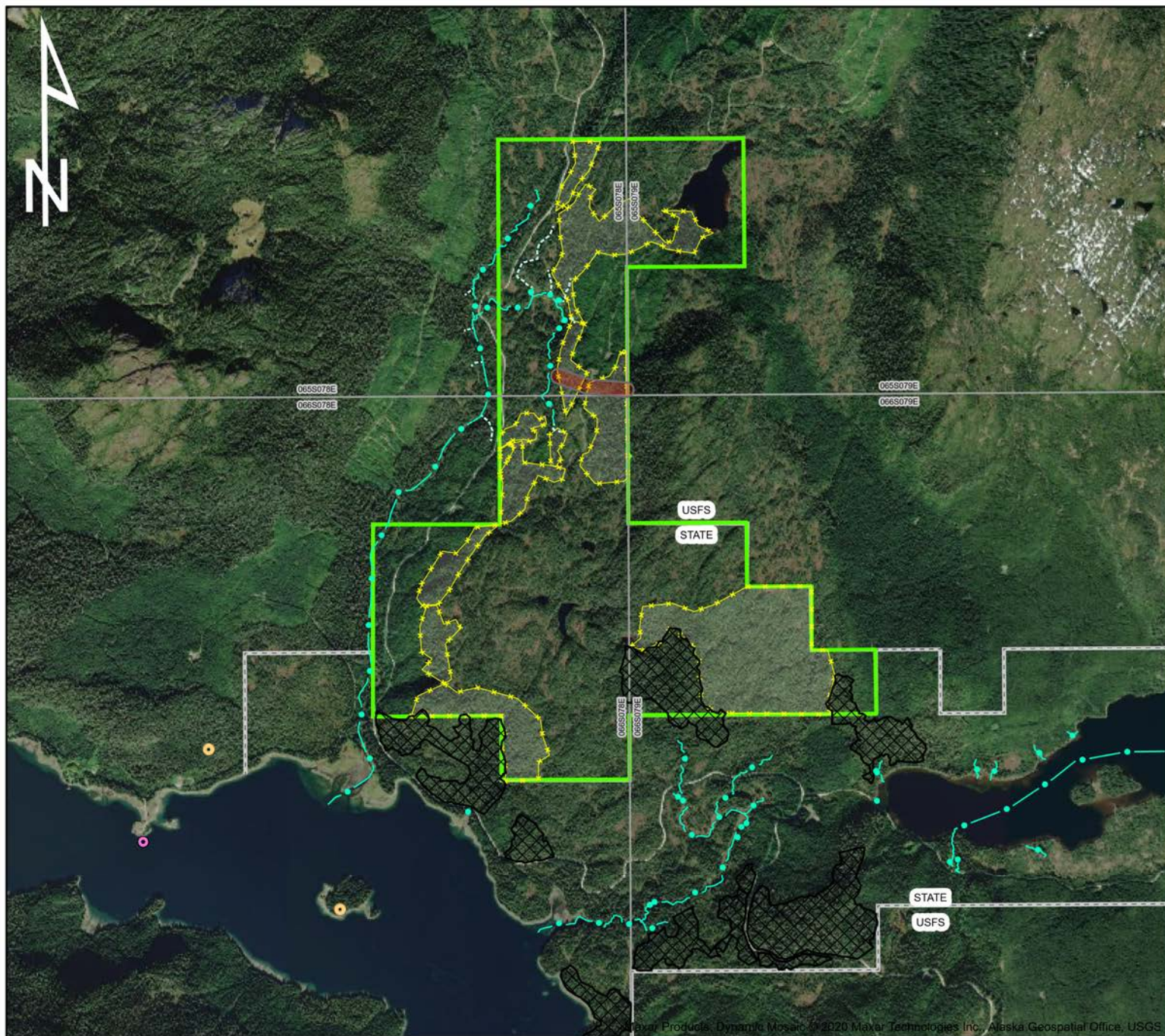


Vicinity Map 1 in = 32 miles



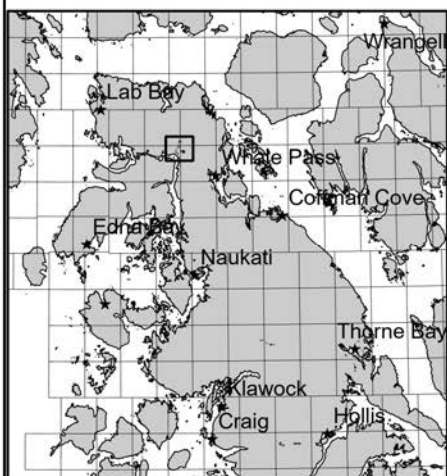
APPENDIX A1 SSE-1391-K ODYSSEY TIMBER SALE AREA MAP





0 1,500 3,000 6,000 9,000
Feet

Area Map 1 IN = 3,000 FT

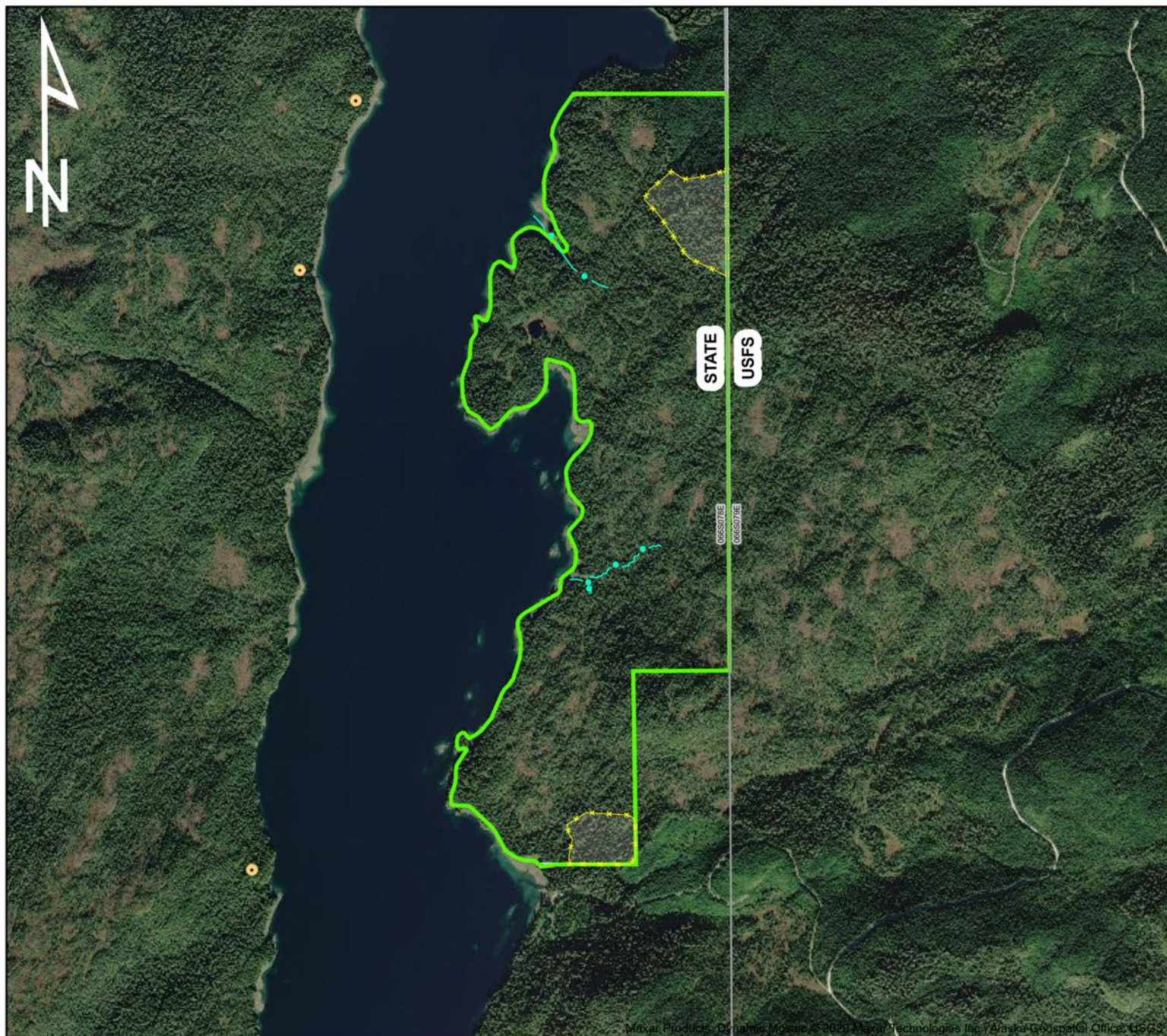


Vicinity Map 1 IN = 32 miles



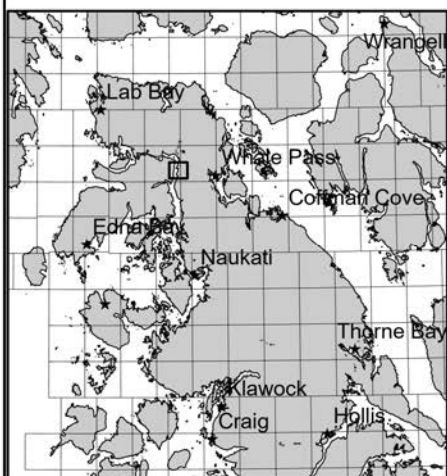
APPENDIX A2 SSE-1391-K ODYSSEY TIMBER SALE EL CAPITAN NORTH SUBUNIT





0 1,500 3,000 6,000
Feet

Area Map 1 IN = 2,000 FT



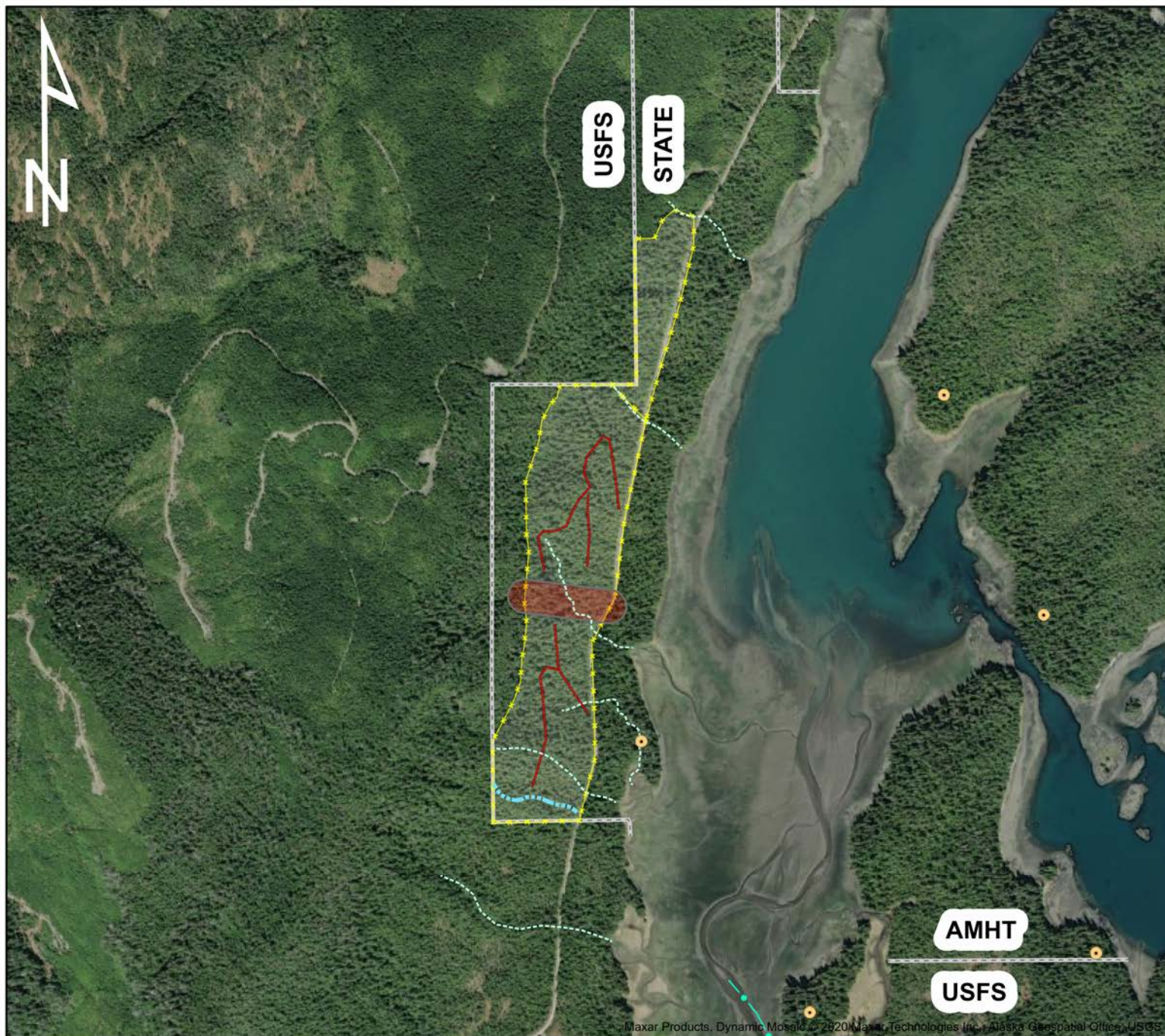
Vicinity Map 1 IN = 32 miles

Legend

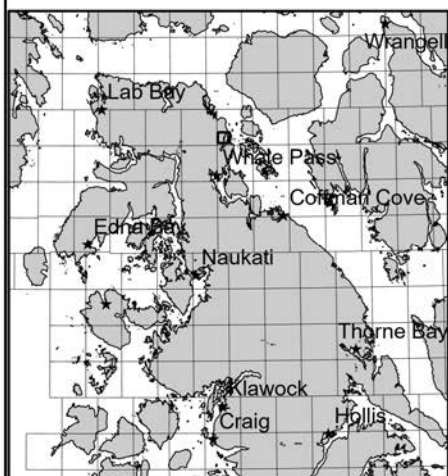
- Proposed Harvest Unit
- Sold Harvest Unit
- Southeast State Forest (SESF)
- Proposed Wildlife Corridor
- Proposed Road
- Property Line
- Cataloged Anadromous Stream
- Eagle Nest

APPENDIX A2 SSE-1391-K ODYSSEY TIMBER SALE EL CAPITAN SOUTH SUBUNIT

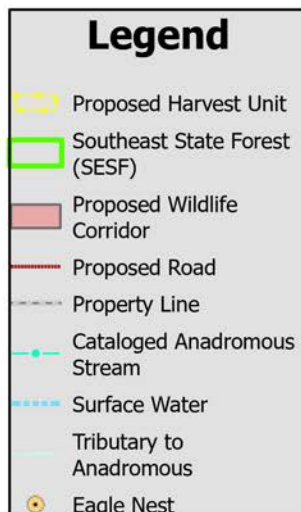




0 1,500 3,000
Feet
Area Map 1 IN = 1,320 FT

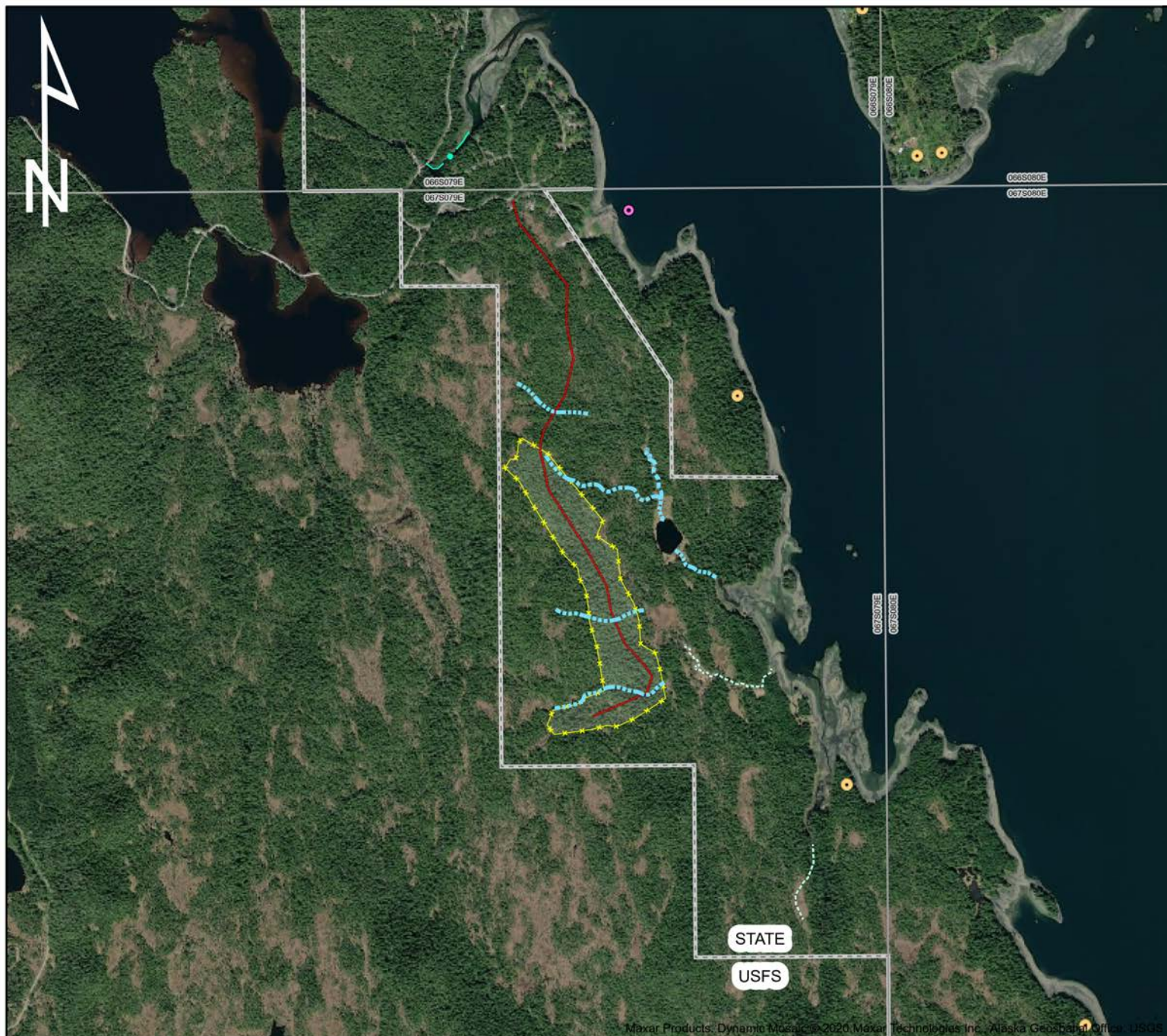


Vicinity Map 1 IN = 32 miles



APPENDIX A2 SSE-1391-K ODYSSEY TIMBER SALE EXCHANGE COVE SUBUNIT 1B

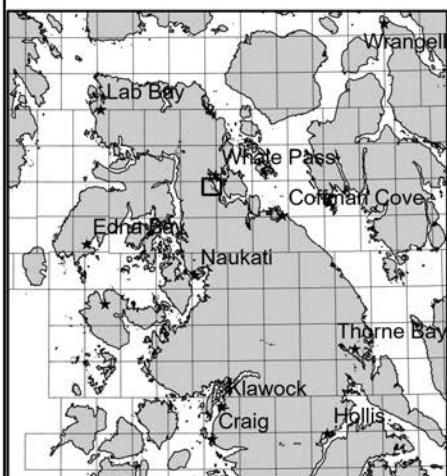




Maxar Products: Dynamo Mosaic © 2020 Maxar Technologies Inc., Alaska Geospatial Office, USGS

0 1,500 3,000 6,000
Feet

Area Map 1 IN = 2,000 FT



Vicinity Map 1 IN = 32 miles

Legend

- ▬ Proposed Harvest Unit
- ▬ Southeast State Forest (SESF)
- ▬ Proposed Wildlife Corridor
- ▬ Proposed Road
- ▬ Property Line
- ▬ Cataloged Anadromous Stream
- ▬ Surface Water
- ▬ Tributary to Anadromous
- Eagle Nest
- Log Transfer Facility (LTF)

APPENDIX A2 SSE-1391-K ODYSSEY TIMBER SALE WHALE PASS ADDITION SUBUNIT 5A



TC 3/4/2025

State of Alaska
Department of Natural Resources
Division of Forestry and Fire Protection
Exhibit C
Timber Sale Proposal Sheet

COMPANY INFORMATION

| | | | |
|---|------------------------|---------------------|------------------------|
| Company Name: | | Date: | |
| Contact Person: | | | |
| AK Business License # | | E-mail Address | |
| Telephone # | | FAX # | |
| Mail Address | | | |
| City, State, Zip | | | |
| Mill Location | | | |
| | | | |
| 1) What type of sawmill(s) do you presently own and operate? | | | |
| | | | |
| | | | |
| 2) How many thousand-board feet (MBF) have you cut with the above mill(s) during? | | | |
| 2024 | 2023 | 2022 | |
| 3) How much timber (MBF) in the form of timber sales have you purchased from all sources during? | | | |
| 2024 | 2023 | 2022 | |
| 4) What volume of logs (MBF) have you purchased from sources other than timber sales during? | | | |
| 2024 | 2023 | 2022 | |
| 5) What was your mill payroll in? | | | |
| 2024 | 2023 | 2022 | |
| 6) List the <u>volume</u> of timber that your company has converted to <u>value added</u> or <u>high value added</u> timber products in the state of Alaska by production year and <u>type of product</u> (as defined in this RFP, attach additional pages as necessary to clearly represent your products): | | | |
| 2024 | | 2023 | |
| Type of Product | Log Volume (MBF) | Type of Product | Log Volume (MBF) |
| | | | |
| | | | |
| | | | |
| | | | |
| 2022 | | Production Comments | |
| Type of Product | Log Volume (MBF) | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

PROPOSED PRODUCTS

| | | | |
|--|-----------|---------------------|-----------|
| Sale Name: Odyssey | | Sale #: SSE-1391-K | |
| Company Name: | | Date: | |
| 8) List the timber by species that you propose to convert to value-added or high value added timber products as well as any species or type you propose to export in round log form. List products as defined in this RFP. List any other mill that will manufacture products from this sale and the associated volume. (Attach additional pages as necessary to clearly represent your proposal): | | | |
| Spruce | % | Hemlock | % |
| Type of Product | Harvested | Type of Product | Harvested |
| | | | |
| | | | |
| | | | |
| | | | |
| Western Red Cedar | % | Yellow Cedar | % |
| Type of Product | Harvested | Type of Product | Harvested |
| | | | |
| | | | |
| | | | |
| | | | |

9) Proposed Sale Price

| Species | Estimated Total Vol. by Species (MBF) | Market Type | Appraised Price/ MBF | Estimated Volume by Market (MBF) | Proposed Price/ MBF |
|---------------------|---------------------------------------|-------------|----------------------|----------------------------------|---------------------|
| All Species Saw Log | NA | All | \$9.00 | NA | |
| All Species Utility | NA | All | 1.00 | NA | |

Attach a brief description of your company's experience developing and managing timber sales of this size and complexity.

By submitting this proposal, the proposer agrees it intends to process most of the harvested timber by volume from this proposed sale in a sawmill facility in the State of Alaska in the form of products defined in AS 38.05.123(j) (1) and (2) and 11 AAC 71.096 or determined by the commissioner to be value-added or high value-added wood products.

Proposer Representative: _____

Proposer Authorized Signature: _____

Date: _____

Exhibit D

Odyssey Timber Sale (SSE-1391 K)

Draft Contract (Separate Attachment)

EXHIBIT F

STATE OF ALASKA, DIVISION OF FORESTRY AND FIRE PROTECTION PURCHASER TIMBER SALE PROCESS AND LAYOUT STANDARDS

GENERAL PROCESS

Purchaser layout includes all necessary field and office work to identify, document and convey the purchaser's proposed commercial timber harvest intent as deemed necessary by the DOF to convey and develop a Forest Land Use Plan (FLUP) within the administrative standards of AS 41.14.060. The structure and composition of the data required by the DOF will vary based on the site and resources that are present. Input from other agencies will also influence the scope and material needs of the process. An adopted FLUP may be substantially different from what was submitted by the operator in which case the field layout and operational perspective likewise will need to be matched. This conformal process is the purchaser's responsibility to execute at their cost.

FLUP(s) will be produced by the DOF for each State Forest or POWIAP subunit described in the Best Interest Finding (I.E. Exchange Cove, Whale Pass Addition, etc.) or collectively depending on the complexity and timing of the information provided by the purchaser. The layout will consider, and address topics identified in the Best Interest Finding and agency dialog. The purchaser will make themselves or a designated forester with professional experience in Alaska available as needed by the DOF to complete field and office review of the purchaser's proposed timber harvest layout plan.

The DOF will make reasonable efforts to adapt the purchaser's timber sale plan into a mutually acceptable FLUP but it is not obligated to adopt a FLUP and authorize a timber harvest operating plan that is not in its best interest.

The information to be documented and submitted associated with the field layout is required to be in possession of the DOF at least one week prior to a scheduled field review. The DOF will work with the purchaser to adapt the purchaser's proposed layout as needed for a configuration likely to meet the state's management objectives and constraints as set out in statute, regulation and the planning documents. The DOF will produce and publicly notify a draft FLUP that it determines to be potentially in its best interest. Reviewing, producing, and adopting a FLUP is contingent on the State's best interest and is not constrained with respect to a predetermined outcome or decision date. The DOF will at a minimum comply with the statutory public notice period defined in AS 38.05.0945 of 30 days and applicable appeal or reconsideration requirements prior to considering the purchaser's required operating plan specified in contract Exhibit D.

LAND OWNERSHIP

It is the responsibility of the timber purchaser to locate themselves within the authorized operating area.

ROAD USE AUTHORIZATION

Written authorization of the managing road authority/landowner or manager shall be provided in the purchaser's operating plan prior to beginning any timber harvest activity that is reasonably considered to be contingent on the authorization. The Purchaser is responsible for procuring the road use authorization and paying all associated costs of use.

EXHIBIT F

STATE OF ALASKA, DIVISION OF FORESTRY AND FIRE PROTECTION PURCHASER TIMBER SALE PROCESS AND LAYOUT STANDARDS

ROAD DESIGN, CONSTRUCTION and MAINTENANCE STANDARDS

1. Roads at a minimum will be constructed to DOF Road Standards (site specific variances may be considered if authorized by the DOF in the FLUP). The road standards are available at: <https://forestry.alaska.gov/resources>;
2. Maintenance on all roads associated with this sale will be comply with 11 AAC 95.315;
3. The closure at the end of the contract or other mutually agreed to timeframe is required of all new State forest roads within the timber sale area to 11 AAC 95.320.

FIELD LAYOUT, FOREST SURVEYING, AND INFORMATION STANDARDS

General Field Layout and Information Acquisition

The purchaser shall use professional forestry means and methods appropriate to the task regarding location of land ownership, resource values and proposed purchaser activity. Ownership lines shall not be assumed without tangible evidence in the field that mirrors recorded documentation.

All proposed roads and units, including any timber retention buffers in or adjacent to the operation, shall be readily identified (flagged) in the field prior to the review and development of the FLUP and subsequently mapped through the use of DOF approved forest surveying methods. The flagging code specifying which colors of flagging will be used to mark units, roads, crossing structures, buffers, etc. is contained at the end of this exhibit in the “Flagging Colors to be Used” section.

Stationing flags tied on a tree or bush along road centerlines or on harvest unit boundaries will be labeled with consecutive numbers, date, and the initials of the person performing the survey. The actual point of measure should also be identified by a piece of ribbon tied to a stick placed in the ground plumb with the measured point.

When conventionally describing or traversing road centerline, unit boundary or feature, record directions in terms of azimuths to the nearest degree. All azimuths recorded in the notes should be magnetic or clearly stated otherwise, along with the declination used. Generally, unless otherwise required for greater accuracy, measure and record all distances in horizontal format to the nearest foot.

All information will be gathered at a minimum using GIS grade GPS receivers or an equivalent method approved by the Area Forester. Survey field notes will be entered into an agreed format whether electronic or hard copy (field book). A digital or electronic format is generally the prudent method to convey information where significant amounts of information are to be conveyed. The DOF uses ESRI GIS based products. Any electronic based output shall be readily viewed and edited in this software platform.

EXHIBIT F
STATE OF ALASKA, DIVISION OF FORESTRY AND FIRE PROTECTION
PURCHASER TIMBER SALE PROCESS AND LAYOUT STANDARDS

The purchaser shall make the DOF aware of the observations and locations of at least the following resources in addition to the proposed roads and harvest:

- All classified streams, surface waters, estuaries, and springs as defined by the Alaska Forest Resources and Practices Act and regulations within 330 FT of the purchasers proposed operating footprint,
- Observed wildlife dens or nests of wolves, bears or bald eagles (active or otherwise),
- Significant karst features such as sink holes and caves.

Field Layout – Harvest Units

All proposed harvest polygons will be explicitly marked in the field with intervisible flagging that defines the cutting limits, traversed and mapped per the forest field work documentation requirements. The traversed line shall reasonably represent the actual timber to be harvested.

Isolated clumps of timber less than one acre planned for harvest shall be flagged in the field, but for mapping purposes, may be identified on a survey point basis; the GPS reference point will be recorded from a position at or near the center of the clump of timber proposed for harvest.

Where applicable, timber proposed to be harvested will be segregated on a setting basis by proposed harvest method to enable the DOF to understand the planned operation I.E. cable, shovel, helicopter, etc.

Field Layout – Roads

All roads will be marked in the field with flagging, placed intervisably, to denote the location of the road centerline. Survey ribbon will be used on all roads surveyed under this contract to mark all survey/traverse turning points. From the first marked survey point located along the road centerline, subsequent survey points will consist of a flag (approximately three-foot-long ribbon) placed at 100-foot slope distance intervals or at significant grade or visibility breaks, whichever is less.

When surveying road centerlines, the percent grade from point to point should be recorded in the field book or data recorder to the nearest percent. Record the grade as a plus or minus. The grade is recorded as a positive value for favorable anticipated log haul coming out of the woods. A negative recorded grade would designate an adverse haul with respect to a loaded log truck leaving the woods.

Culvert Sizing for Road Crossings

For all surface water crossings of the proposed roads, specify culvert design diameters based upon the ordinary high-water marks of the stream. Culverts will be prudently sized to accommodate a 25-year flood, at minimum. This information will be recorded in the field notes. Culvert sizing will be consistent with 11 AAC 95.305. CULVERTS & OTHER WATER CROSSING PROVISIONS of the Alaska Forest Resources and Practices Regulations. Label all drainage structures in the notes and in the field with flagging consistent with the road centerline point codes or stationing. To designate culvert crossings in the field, use blue flagging with

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culvert sizing, initials of the road locator and the date written on it at the field location for each water crossing; for example, Sta. 102, 24" CMP/TC/3/30/2025.

Road Construction Classification and Type

The purchaser shall provide a written summary of proposed road construction by DOF Classification as well as the construction type based on the dominant characteristics of the road segment. The tolerance of this information assessment shall be by the station (100 FT). Road types proposed shall be described in one of the following categories: overlay, sidehill, "other". If "other" road types or materials of construction are proposed they shall be defined and quantified at a minimum by their length. Unstable, steep terrain, full bench or construction techniques likely requiring rock work shall be noted.

Forest Field Work Documentation

GPS Surveying

Where GPS is used to reference or survey unit lines, road centerlines or important features (streams, eagle nests, etc.) accuracy shall have a theoretical accuracy of less than 15 FT 95% of the time the point is measured in the same manner. The datum and coordinate system shall be defined. All points recorded shall have the accuracy documented in the attribute of the feature point. Point records shall be the basis of the submitted information and submitted as needed with a conveyed line record or polygon portraying the units and roads respectively. Theoretical accuracy for general informational points recorded shall be less than 33 FT, 95% of the time the point is measured in the same manner. Obvious or suspected GPS positions shall be noted where the situation or common sense indicates that the point may be inaccurate. Offset positions may be more appropriate than occupying the position in these cases.

Conventional Traverses

Where conventional road or unit line traverses are used (compass, tape and clinometer), the traverse shall close with a horizontal error of less than 1:100. Traverses not meeting the closure standard will be traversed again until the closure standard is obtained. The unit line traverse(s) will tie to the road traverses where they intersect the road. All road traverses will be tied to the unit line traverse where the road crosses into the unit, and at the end of each road location by a traversed reference line which ties into a unit boundary survey station. A conventional traverse shall be referenced with several GPS positions; at the minimum it will be at its beginning and end points

Field Notes

Electronic data augmented by written notes is preferred and each type of data shall be recorded in a format approved by the DOF prior to its collection by the purchaser. Information shall be segregated by type (I.E. notable features, unit line, road, etc.). In the event any data is not adequate for the purpose of the FLUP, it is the purchaser's responsibility to gather additional information and amend the field notes and maps as required.

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Field notes shall be maintained by the purchaser augmenting the electronic data collected. The notes shall summarize the work such that the means and methods of the data collection are apparent to other users. All engineering and forestry field notes will be kept legibly and in a standard format comprehensible to another user as they were to the note keeper.

The date, names and field task assigned to each party member recorded in the book shall be recorded in the field book at the beginning of each day. The field book will be indexed and labeled with the unit or road number and type of survey/traverse. Field books will be bound Rite-in-the-Rain paper types. A copy of the field notes shall be provided to the DOF along with a written explanation of the data as may be needed to use the data in a workman like manner.

Record additional items that would be of interest such as:

1. Notable topography like rock bluffs or knobs.
2. Character of the layout i.e. landings, culverts, proposed bridge abutments, potential rock pits, survey monumentation, property line, etc.
3. Obvious timber type boundaries i.e. muskegs, etc.

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FLAGGING COLORS TO BE USED

| <u>Marking</u> | <u>Flagging Color</u> |
|----------------------------------|--------------------------------|
| Station points | Orange glo |
| Road centerline | Orange glo |
| Eagle tree location | Pink glo & Blue glo |
| Harvest unit boundary | Pink “TIMBER HARVEST BOUNDARY” |
| Angle points for unit boundaries | White |
| Fish stream channels | Blue & White candy stripe |
| Fish buffers | Blue/white strip & Pink glo |
| Property lines | <u>Red</u> “PROPERTY LINE” |
| Reconnaissance | White or Blue glo |
| Water Crossing on Road CL | Blue |

Note: All flagging will be the “Arctic Glo” type (>4.0 mil), except the Riparian Areas and the white flagging.

MAP STANDARDS

Electronic maps shall at a minimum be georeferenced in a PDF format. The proposed Timber Sale Layout Maps produced by the purchaser (electronic or otherwise) shall have the following items and features, as applicable, submitted for review by the DOF:

Road Types

Permanent

Temporary

Inactive roads

Material extraction sites

End-haul sites and spoil deposit areas

Areas of unstable soil conditions

Areas of notable topographic distinction (i.e. knobs, bluffs, draws, muskegs, etc.)

Unit boundaries

Yarding methods and landing areas for each logging setting within each harvest unit

Surface water locations

Eagle nest tree locations

Stream crossings and drainage structures

Proposed activities in riparian areas

Section, township and range

Property lines

North arrow, scale bar, plan date

Title block area to contain; timber sale name, map prepared by, etc.