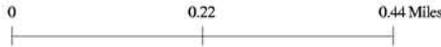


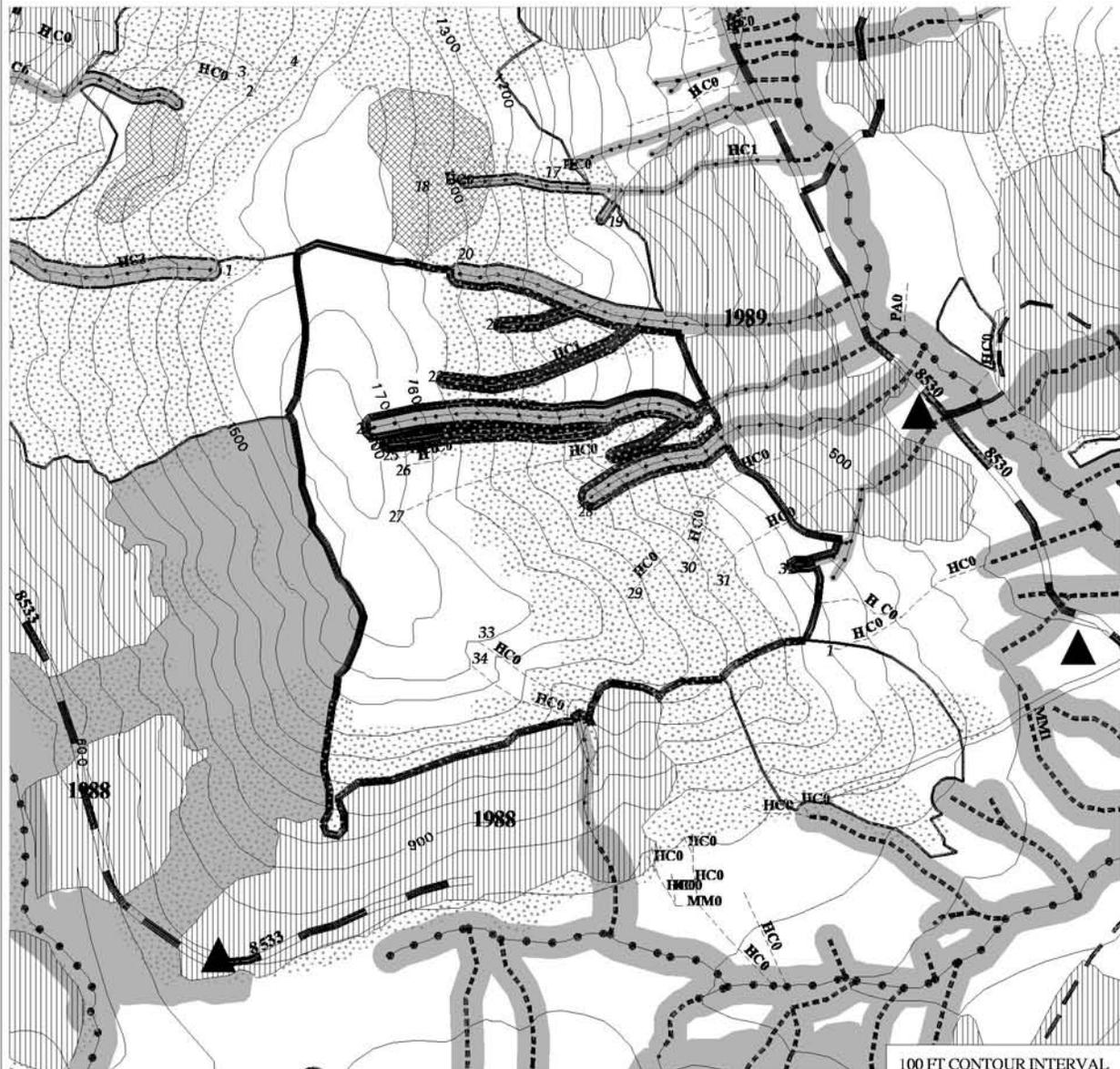
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 915 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 915 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:14000

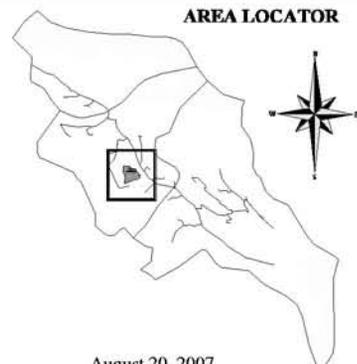


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested 1988
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	915	In Alternatives:	4	Total Unit Acres:	178.6	Vol Strata Acres:	High: 161.9 Med: 20.7 Low: 0
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,817	Prescription /Percent Retention:	ST25

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand is comprised predominantly of 12-20" DBH mountain hemlock (47% BA), with some larger 16-36" DBH western hemlock (14% BA) and 16-45" DBH spruce (40% BA). This unit is situated on a hilltop and along its eastern flank. The most productive area is in the southeastern portion where the slopes are moderate and well drained. The western portion of the unit is a hill top with considerable small diameter mountain hemlock and less well drained soils including some muskeg areas. Wind risk is moderate.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 25 percent of existing basal (225 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: **Concern:** Streams 20-24, 27 (lower), 28, 32 are Class III HC channels. **Response:** Category B protection. No harvest in v-notch. (BMP 12.6, 13.14, RIP II) **Concern:** Streams 25, 26, 27 (upper), 29, 30, 31, 33, 34 are Class IV HC channels. **Response:** Category C protection. (BMP 12.6, 13.14, RIP II)

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

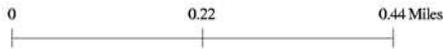
SOILS/WETLANDS: slopes range from 35-60% in Unit 915. Slopes exceed 72% along v-notches and streams, but these areas are excluded by the stream buffers. Unit suitable for proposed helicopter harvest. (BMP 13.9) Area to the west of Unit 915 dropped for stability concerns (BMP 13.5)

WILDLIFE: **Concern:** Unit contains high value marten habitat. High deer use was observed along the ridge in the unit. **Response:** Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 75% of the basal area will meet marten standards and guidelines and maintain habitat for deer.

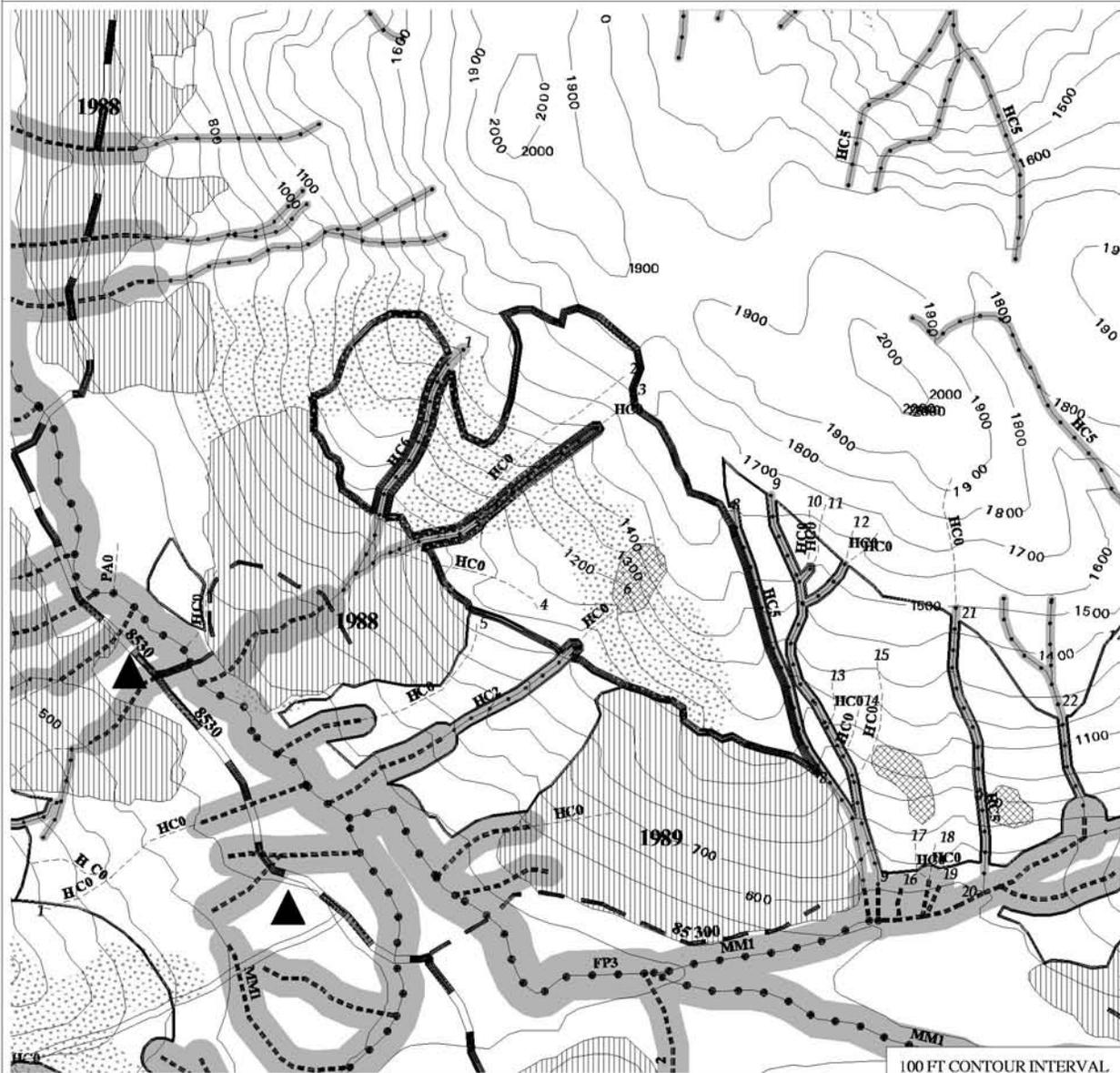
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 916 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 916 OCCURS IN ALTERNATIVE(S): 2 3



MAPSCALE 1:14000



100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested 1988
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road
- Temporary Road
- Existing NFS Road
- NFS Road Reconstruction
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	916	In Alternatives:	2, 3	Total Unit Acres:	106.6	Vol Strata Acres:	High: 55.7 Med: 35.9 Low: 15.0
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,379	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised predominantly of 12-36" DBH western hemlock (43% BA), 16-39" DBH mountain hemlock (33% BA) and 12-40" DBH spruce (24% BA). The most productive area is in the southeastern portion where the slopes are moderate and well drained. There are several v-notches throughout the unit. Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (283 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Streams 1, 3 (lower), 6 (lower), 8 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Streams 2, 3 (upper), 4, 6 (upper) are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 40-75% in Unit 916. Concern: There are about 3 acres of slopes greater than 72% in the unit. Timber harvest on slopes over 72% gradient may result in a loss of soil productivity (BMP 13.5). Response: Full suspension is required in these areas (BMP 13.9). The rest of 916 is suitable for the proposed helicopter harvest. Area to the northwest of Unit 916 dropped for stability concerns. An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).</p>

<p>WILDLIFE: Concern: Unit contains high value marten habitat. High deer use was observed in southwest portion of the unit. Unit is located in a travel corridor that maintains connectivity from low to high elevation habitat. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines and help to maintain connectivity and deer habitat. Concern: Sharp-shinned hawk was observed in unit.</p>

<p>Response: Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nests if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.</p>

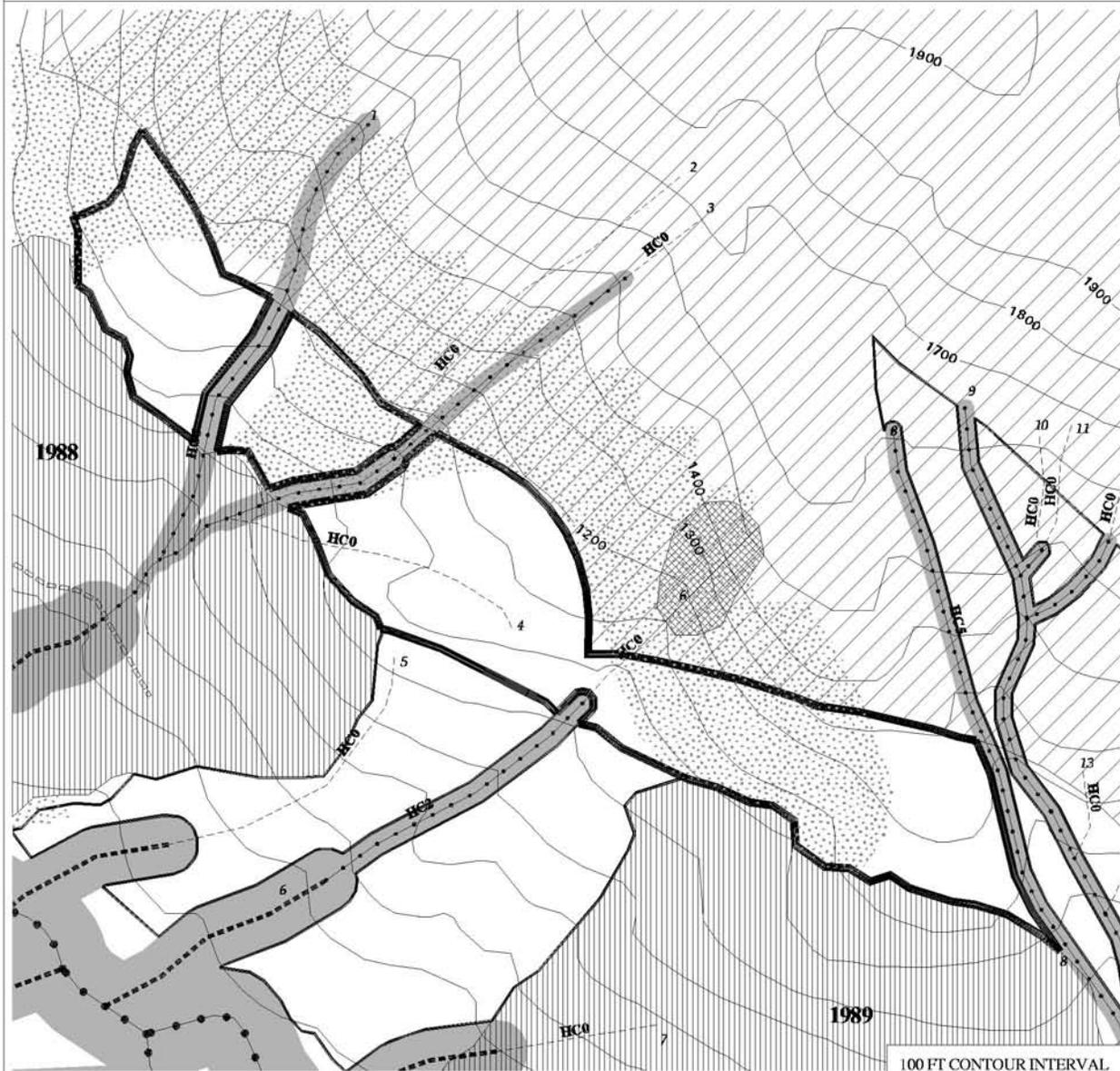
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 916 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 916 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:7200

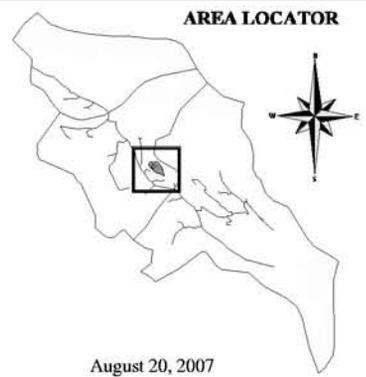


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream
- Class III Stream

- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Inventoried Roadless
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes > 72%
- Existing Rock Pit

- HC6
- 1



August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	916	In Alternatives:	4	Total Unit Acres:	41.1	Vol Strata Acres:	High: 16.1 Med: 25.0 Low: 0
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	538	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised predominantly of 12-36" DBH western hemlock (43% BA), 16-39" DBH mountain hemlock (33% BA) and 12-40" DBH spruce (24% BA). The most productive area is in the southeastern portion where the slopes are moderate and well drained. There are several v-notches throughout the unit. Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (283 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Streams 1, 3 (lower), 6 (lower), 8 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Streams 2, 3 (upper), 4, 6 (upper) are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 40-55% in Unit 916. Unit suitable for proposed helicopter harvest. (BMP 13.9) Area to the northwest of Unit 916 dropped for stability concerns (BMP 13.5).</p>

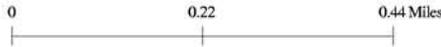
<p>WILDLIFE: Concern: Unit contains high value marten habitat. High deer use was observed in southwest portion of the unit. Unit is located in a travel corridor that maintains connectivity from low to high elevation habitat. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines and help to maintain connectivity and deer habitat. Concern: Sharp-shinned hawk was observed in unit.</p>

<p>Response: Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nests if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.</p>

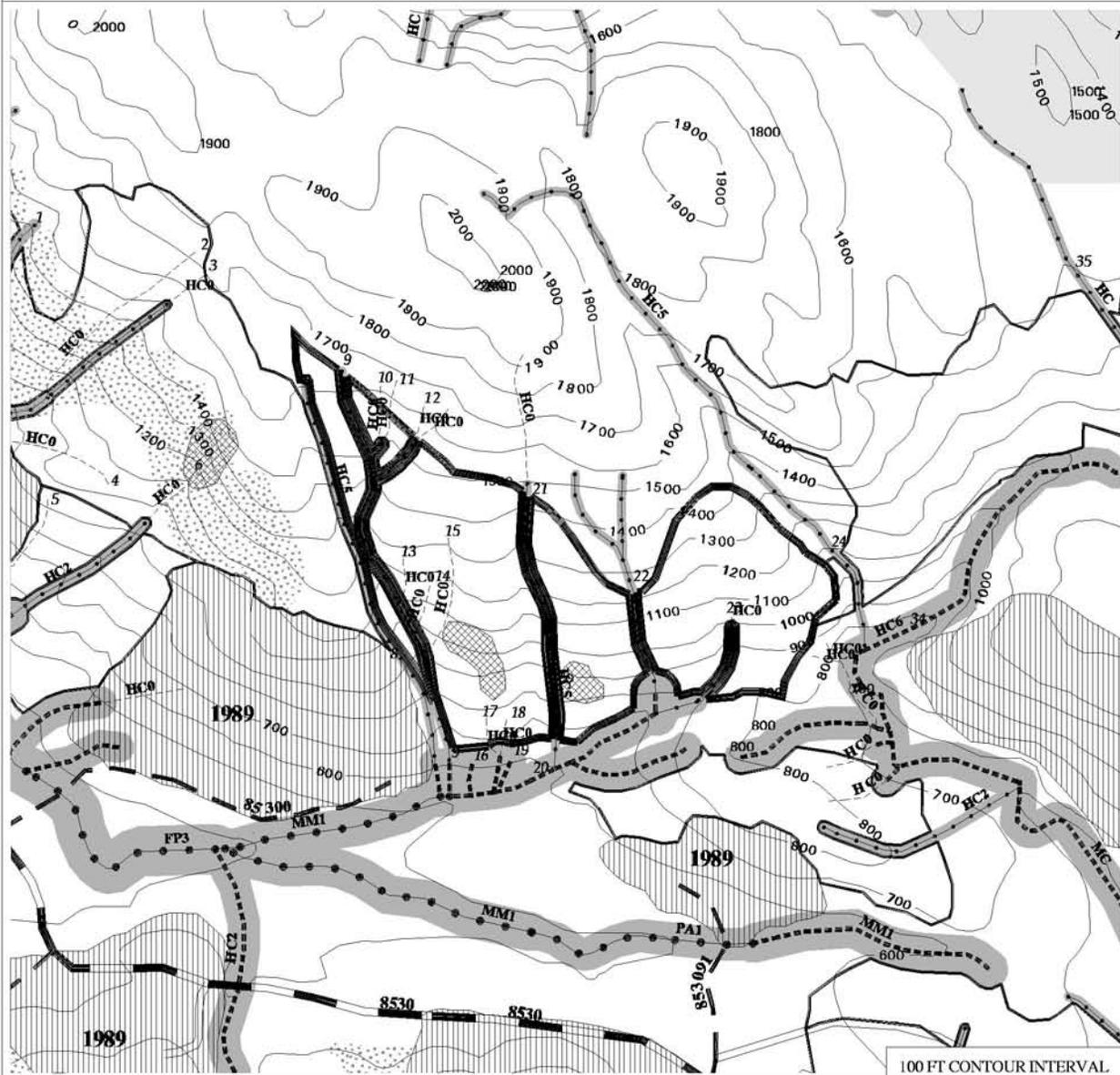
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 917 VCU: 2090/2100 HARVEST SYSTEM: Helicopter

UNIT 917 OCCURS IN ALTERNATIVE(S): 2 3



MAPSCALE 1:14000



- Existing Harvest Unit with Year Harvested 1989
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
- 1



Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	917	In Alternatives:	2, 3	Total Unit Acres:	90.4	Vol Strata Acres:	High: 0 Med: 90.4 Low: 0
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	1,061	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand is comprised predominantly of 12-40" DBH western hemlock (53% BA), 24-40" DBH spruce (24% BA) and 12-38" DBH mountain hemlock (24% BA) . The most productive area is in the central and eastern portion where the slopes are moderate and well drained. Wind risk is low.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (277 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Streams 8, 9, 10 (lower), 12 (lower), 21, 22 (upper), 23 are Class III HC channels. **Response:** Category B protection (BMP 12.6, 13.14). No harvest in v-notch (RIP III).

Concern: Streams 10 (upper), 11, 12, 13, 15, 17, 18, 23 (upper) are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:**

Stream 22 (lower) is a Class II AF channel. **Response:** Category B protection and no harvest within 140 feet of channel or on active portion of fan. Harvest no more than 10% across inactive part of fan (RIP II).

Concern: Streams 8 (lower), 9 (lower), 16, 17 (lower) 19, and southern boundary stream are Class II HC channels. **Response:** Category A protection. No harvest within 100 feet of channel or within v-notch (RIP III).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

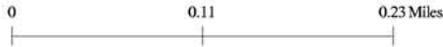
SOILS/WETLANDS: Slopes range from 30-80% in Unit 917. Soils are generally well drained forming in bedrock. **Concern:** There are about 4 acres of slope greater than 72% in the unit. These areas have an observed landslide history and timber harvest may accelerate landsliding on slopes over 72%. **Response:** Do not harvest timber in these areas greater than 72% (BMP 13.5). The rest of 917 is suitable for the proposed helicopter harvest (BMP 13.9). Areas to the north and southeast of Unit 917 dropped for stability concerns. An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).

WILDLIFE: Concern: Sharp-shinned hawk observed adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nests if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

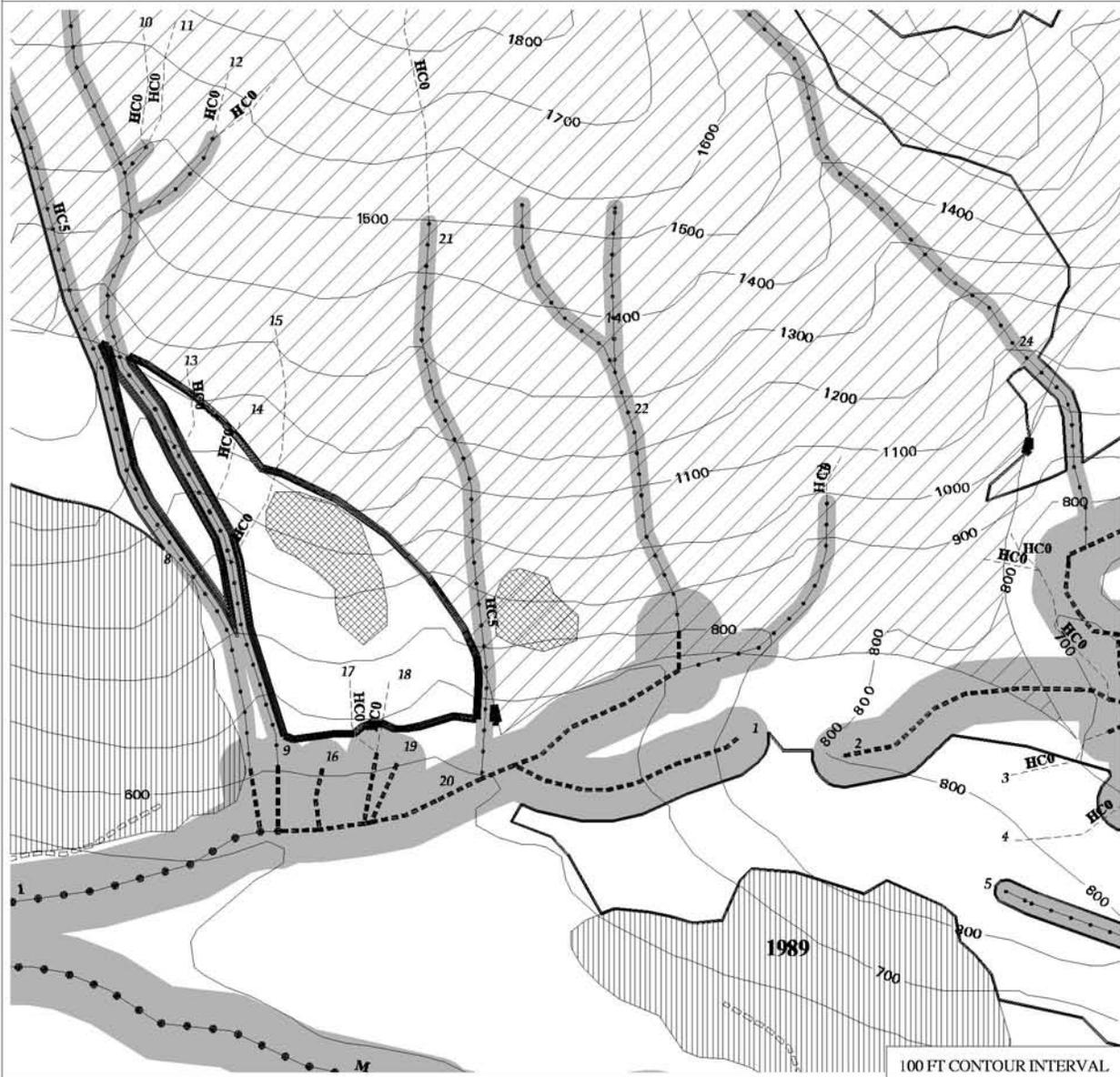
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 917 VCU: 2090/2100 HARVEST SYSTEM: Helicopter

UNIT 917 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:7200



- Existing Harvest Unit with Year Harvested Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream
- Class III Stream

- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Inventoried Roadless
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes > 72%
- Existing Rock Pit

- HC6
- 1



Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	917	In Alternatives:	4	Total Unit Acres:	15.8	Vol Strata Acres:	High: 0 Med: 15.8 Low: 0
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	184	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand is comprised predominantly of 12-40" DBH western hemlock (53% BA), 24-40" DBH spruce (24% BA) and 12-38" DBH mountain hemlock (24% BA) . The most productive area is in the central and eastern portion where the slopes are moderate and well drained. Wind risk is low.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (277 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: Streams 8, 9, 10 (lower), 12 (lower), 21, 22 (upper), 23 are Class III HC channels. **Response:** Category B protection (BMP 12.6, 13.14). No harvest in v-notch (RIP III).

Concern: Streams 10 (upper), 11, 12, 13, 15, 17, 18, 23 (upper) are Class IV HC channels. **Response:** Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). **Concern:** Stream 22 (lower) is a Class II AF channel. **Response:** Category B protection and no harvest within 140 feet of channel or on active portion of fan. Harvest no more than 10% across inactive part of fan (RIP II).

Concern: Streams 8 (lower), 9 (lower), 16, 17 (lower) 19, and southern boundary stream are Class II HC channels. **Response:** Category A protection. No harvest within 100 feet of channel or within v-notch (RIP III).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

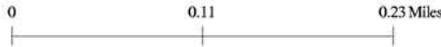
SOILS/WETLANDS: Slopes range from 30-80% in Unit 917. Soils are generally well drained forming in bedrock. **Concern:** There are about 4 acres of slope greater than 72% in the unit. These areas have an observed landslide history and timber harvest may accelerate landsliding on slopes over 72%. **Response:** Do not harvest timber in these areas greater than 72% (BMP 13.5). The rest of 917 is suitable for the proposed helicopter harvest (BMP 13.9). An onsite analysis for suitability on slopes over 72% was conducted on this unit as per Forest Plan Standards (soil resource report).

WILDLIFE: Concern: Sharp-shinned hawk observed adjacent to unit. **Response:** Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nests if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.

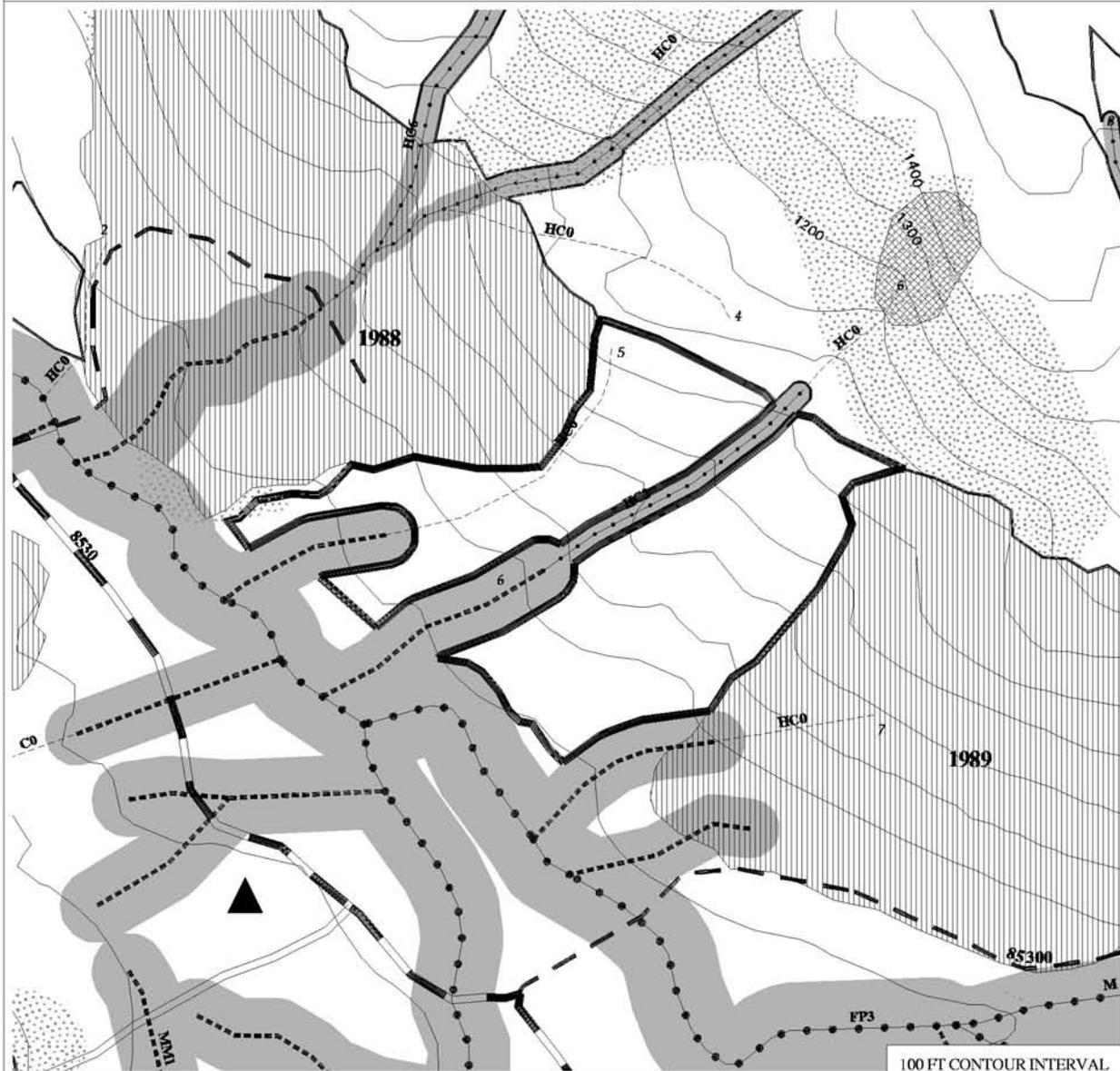
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 919 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 919 OCCURS IN ALTERNATIVE(S): 2 3 4



MAPSCALE 1:7200

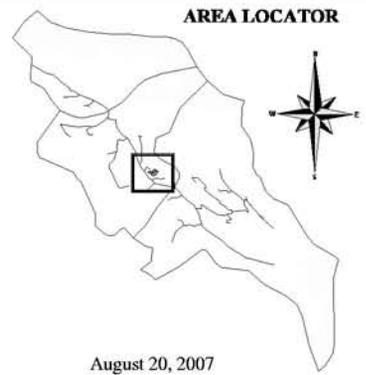


100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road
- Temporary Road
- Existing NFS Road
- NFS Road Reconstruction
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

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- HC6
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August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	919	In Alternatives:	2, 3, 4	Total Unit Acres:	31.3	Vol Strata Acres:	High: 0.2 Med: 27.9 Low: 3.2
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	241	Prescription /Percent Retention:	ST25

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised primarily of 12-20" DBH western hemlock, with some larger spruce (15% BA) and yellow-cedar (20% BA) . This unit is situated on a hilltop and along its eastern flank. Slopes are moderate and soil is mostly well drained although the southern portion is next to a muskeg. Western hemlock, spruce and yellow-cedar advanced regeneration is present but not abundant. Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 25 percent of existing basal (227 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 5 (upper) is a Class IV HC channel. Response: Category C protection (BMP 12.6, 13.14). Concern: Stream 6 (upper) is Class III HC channel. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III). Concern: Stream 5 (lower) is Class II MM channel. Response: Category A protection (BMP 12.6, 13.14). No harvest within 120 feet of channel (RIP III). Concern: streams 6 (lower), 7 (lower) are Class II HC channels. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III). Concern: Southern boundary stream is Class I FP channel. Response: Category A protection (BMP 12.6, 13.14). No harvest within 130 feet of channel or floodplain (RIP III).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

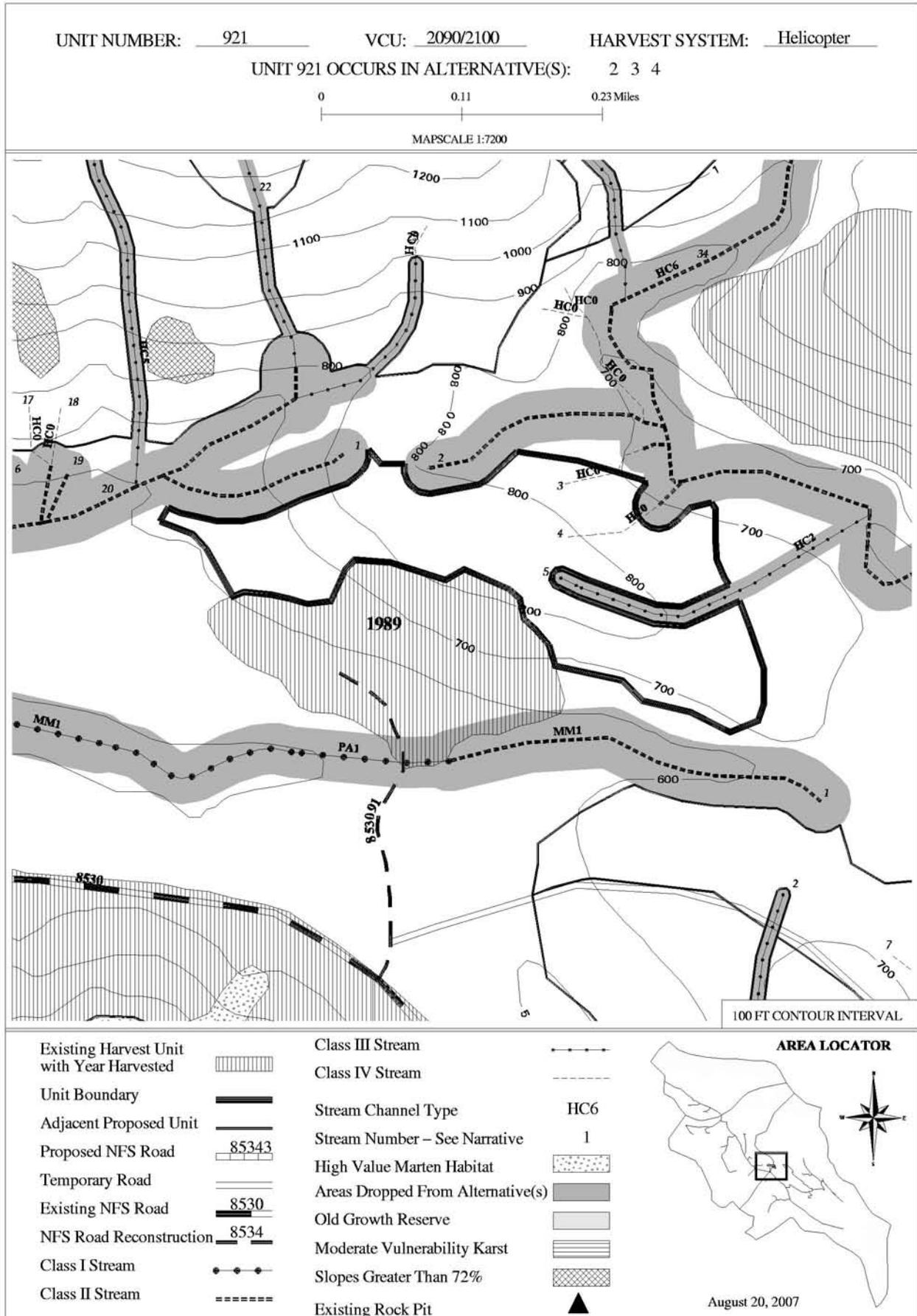
<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: slopes range from 25-55% in Unit 919. Adjacent clearcuts have a lot of landslides in them. What are the soils like? No harvest should occur on slopes greater than 72% slope. Full suspension is required to meet soil quality standards. (BMP 13.9) (This unit requires field work)</p>

<p>WILDLIFE: Concern: Unit contains less than 2 acres high value marten habitat. Response: No design elements or mitigation required to meet Forest Plan standards and guidelines. Concern: Unit is located in a travel corridor that maintains connectivity from low to high elevation habitat. High deer use was observed in most of the unit. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 75% of the basal area will help to maintain travel corridor and habitat for deer.</p>

IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	921	In Alternatives:	2, 3, 4	Total Unit Acres:	28.8	Vol Strata Acres:	High: 0 Med: 12.0 Low: 16.8
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	266	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised primarily of 12-30" DBH western hemlock (60% BA), spruce (25% BA) and mountain hemlock (15% BA). The central to northern portion of the unit is the most productive and more well drained. Larger spruce and mountain hemlock 30-50" DBH are scattered throughout unit. Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (200 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Streams 1, 2, 3 (lower), 4 (lower) are Class II HC channels. Response: Category A protection (BMP 12.6, 13.14). No harvest within 100 feet and side-slope break (RIP III).</p>

<p>Concern: Streams 3 (upper and 4 (upper) are Class IV HC channels. Response: Category C protection (BMP 12.6, 13.14). Remove logging debris from channel (BMP 13.16). Concern: Stream 5 is a Class III HC channel. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

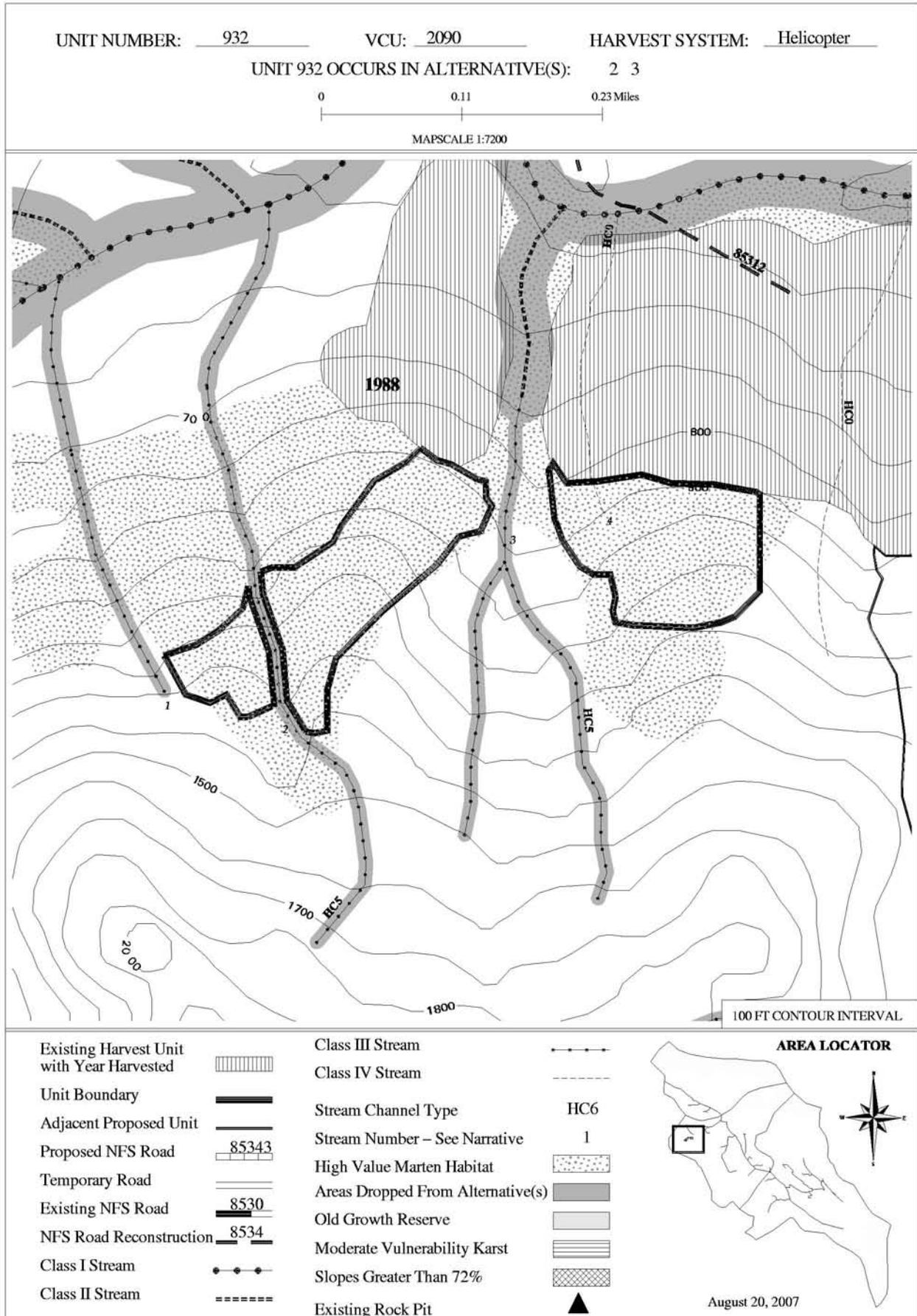
<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 10-70% in Unit 921. Concern: There about 6 acres of forested wetland and about 1 acre of muskeg in the unit Response: Helicopter logging will protect wetlands and meet resource objectives. (BMP 12.5). Unit is suitable for proposed helicopter harvest. (BMP 13.9)</p>

<p>WILDLIFE: Concern: High deer use was observed in the east portion of the unit. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will help to maintain deer habitat. Concern: Red-tailed hawk was observed in unit. Response: Maintain a 600-foot no-harvest buffer that is windfirm around active raptor nest if identified and restrict harvest and road building activities from March 1 to July 31 within the buffer.</p>

IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP



Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	932	In Alternatives:	2, 3	Total Unit Acres:	24.1	Vol Strata Acres:	High: 23.6 Med: 0 Low: 0.5
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	356	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

Existing Stand Condition/Vegetation: Stand is comprised primarily of 12-36" DBH western hemlock (55% BA), 24-40" DBH spruce (23% BA) and 12-40" DBH mountain hemlock (23%). Wind risk is low.

Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.

Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (313 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.

TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.

ENGINEERING/ROADS: N/A

BOTANY RESOURCES: No concerns

FISH/WATERSHED: Concern: GIS mapped streams 1,2,3 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III).

GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.

HERITAGE RESOURCES: No concerns

SCENERY/RECREATION: No concerns

SOILS/WETLANDS: Slopes range from 30-50% in Unit 932. Concern: A minimum of partial suspension is required to meet soil quality standards (BMP 13.9). Response: Unit is proposed as full suspension, which exceeds partial suspension requirements. Area to the south and east of Unit 932 dropped for stability concerns (BMP 13.5)

WILDLIFE: Concern: Unit contains high value marten habitat. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines.

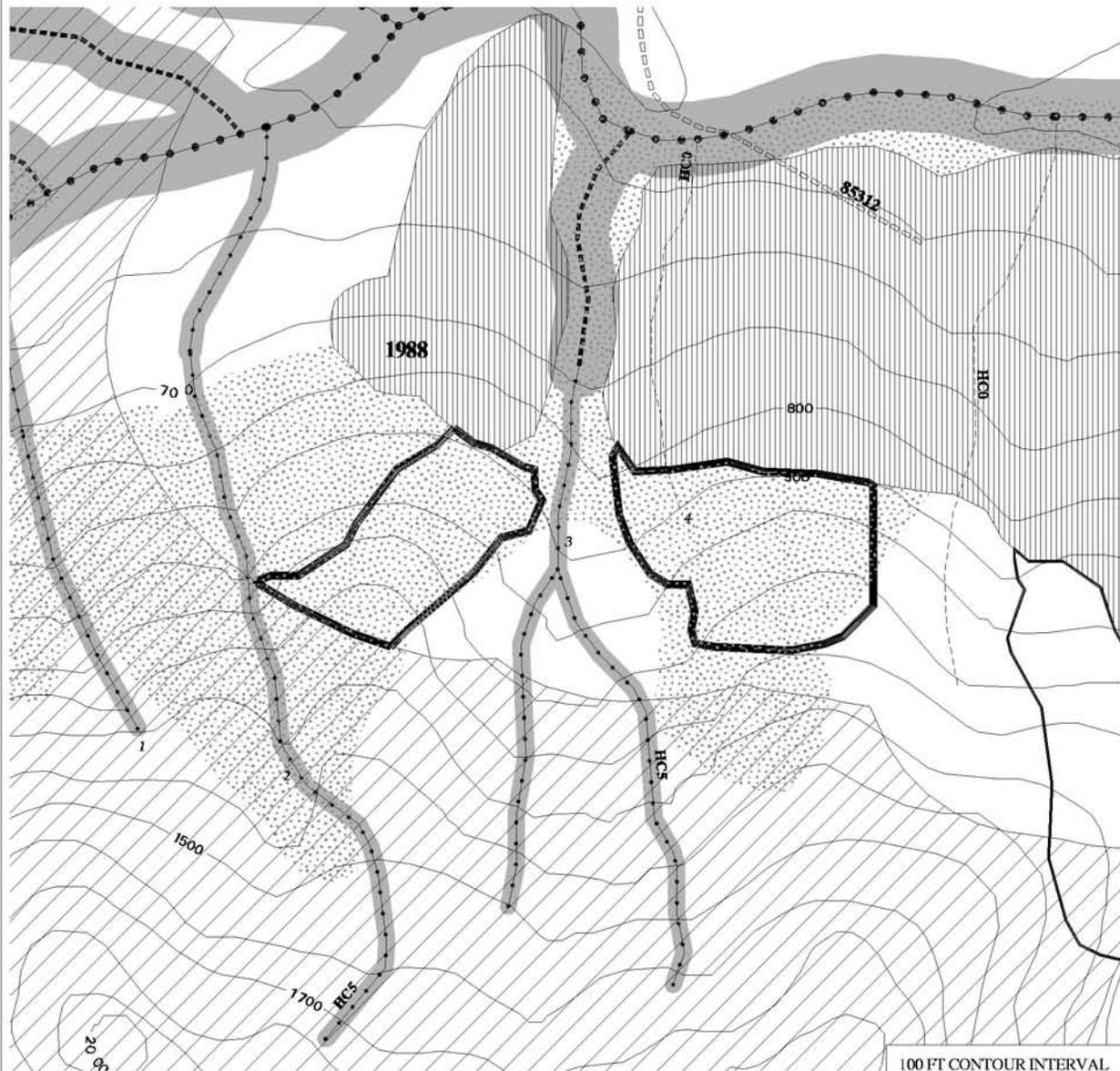
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 932 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 932 OCCURS IN ALTERNATIVE(S): 4



MAPSCALE 1:7200



100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road
- Temporary Road
- Existing NFS Road
- NFS Road Reconstruction
- Class I Stream
- Class II Stream
- Class III Stream

- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Inventoried Roadless
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes > 72%
- Existing Rock Pit

- HC6
- 1



Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	932	In Alternatives:	4	Total Unit Acres:	18.0	Vol Strata Acres:	High: 17.7 Med: 0 Low: 0.3
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	267	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised primarily of 12-36" DBH western hemlock (55% BA), 24-40" DBH spruce (23% BA) and 12-40" DBH mountain hemlock (23%). Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (313 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: Concern: Stream 1,2,3 are Class III HC channels. Response: Category B protection (BMP 12.6, 13.14). No harvest within v-notch (RIP III).</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

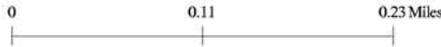
<p>SOILS/WETLANDS: Slopes range from 30-50% in Unit 932 Concern: A minimum of partial suspension is required to meet soil quality standards (BMP 13.9). Response: Unit is proposed as full suspension, which exceeds partial suspension requirements. Area to the south and east of Unit 932 dropped for stability concerns (BMP 13.5)</p>

<p>WILDLIFE: Concern: Unit contains high value marten habitat. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards and guidelines.</p>

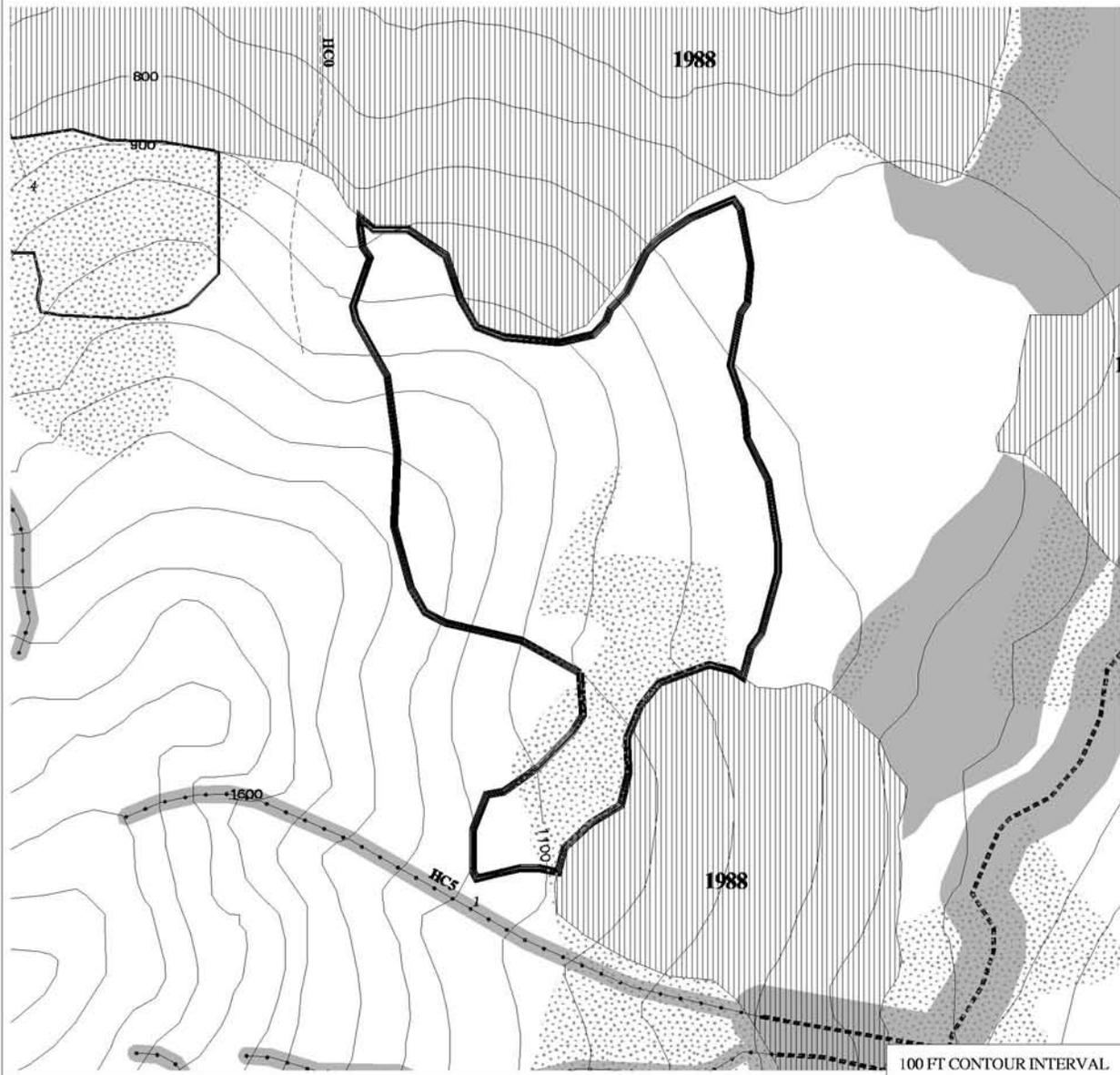
IYOUKTUG TIMBER SALE UNIT CARD PLANNED HARVEST UNIT MAP

UNIT NUMBER: 937 VCU: 2090 HARVEST SYSTEM: Helicopter

UNIT 937 OCCURS IN ALTERNATIVE(S): 2 3



MAPSCALE 1:7200



100 FT CONTOUR INTERVAL

- Existing Harvest Unit with Year Harvested
- Unit Boundary
- Adjacent Proposed Unit
- Proposed NFS Road 85343
- Temporary Road
- Existing NFS Road 8530
- NFS Road Reconstruction 8534
- Class I Stream
- Class II Stream

- Class III Stream
- Class IV Stream
- Stream Channel Type
- Stream Number – See Narrative
- High Value Marten Habitat
- Areas Dropped From Alternative(s)
- Old Growth Reserve
- Moderate Vulnerability Karst
- Slopes Greater Than 72%
- Existing Rock Pit

-
-
- HC6
- 1
-
-
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August 20, 2007

Unit Data Card – Iyouktug Timber Sale Draft EIS

Unit Number:	937	In Alternatives:	2, 3	Total Unit Acres:	42.3	Vol Strata Acres:	High: 8.9 Med: 30.0 Low: 3.4
VCU Number:	2090	Harvest System:	HE	Net Estimated Harvest Volume (MBF):	510	Prescription /Percent Retention:	ST40

Summary of Concerns, Responses, BMPs and Mitigation

SILVICULTURE:

<p>Existing Stand Condition/Vegetation: Stand is comprised primarily of 16-36" DBH western hemlock (45% BA), 12-44" DBH spruce (50% BA) and a minor component of small diameter mountain hemlock (5% BA). Wind risk is low.</p>

<p>Silvicultural Objective/Desired Future Condition: Maintain or create a stand with three or more distinct age (size) classes of trees that maintains species diversity, provides for a high degree of structural diversity and meets Forest Plan scenery and high value marten habitat requirements.</p>

<p>Silvicultural Prescription: Uneven-aged management – Single tree selection. Designate up to 40 percent of existing basal (314 sq.ft.per acre) area singly and/or in small clumps or corridors to facilitate helicopter yarding. Refer to the intro to unit cards, marking guidelines and detailed RX for more information.</p>

<p>TIMBER/LOGGING: Refer to Silvicultural RX and marking guides for single tree selection guidelines to facilitate helicopter yarding.</p>

<p>ENGINEERING/ROADS: N/A</p>

<p>BOTANY RESOURCES: No concerns</p>

<p>FISH/WATERSHED: No GIS mapped streams.</p>

<p>GEOLOGY/KARST: No carbonate bedrock found within unit. No karst resource concerns identified.</p>

<p>HERITAGE RESOURCES: No concerns</p>

<p>SCENERY/RECREATION: No concerns</p>

<p>SOILS/WETLANDS: Slopes range from 40-70% in Unit 937. Concern: a small amount of wetland is scattered through out the unit. Response: Helicopter logging will protect wetlands and meet resource objectives. (BMP 12.5) Concern: A minimum of partial suspension is required to meet soil quality standards (BMP 13.9). Response: Unit is proposed as full suspension, which exceeds partial suspension requirements. Area to the west of Unit 937 dropped for stability concerns (BMP 13.5)</p>

<p>WILDLIFE: Concern: Unit contains high value marten habitat. Response: Proposed timber management will not create openings greater than 2 acres in size within this habitat. Retention of 60% of the basal area will meet marten standards.</p>
