

## Fuel Management Prescription

| A. PROJECT IDENTIFICATION                                                        |                                                                                |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| PROJECT ID AND UNIT ID: Ktunaxa Nation Treaty Lands, Treatment Unit P2           | LAND OR TENURE HOLDER: Provincial Crown Land, involved in treaty negotiations. |
| LATITUDE/LONGITUDE: 49°28'16.26"N, 115°44'41.86"W                                | GEOGRAPHIC DESCRIPTION: South Star                                             |
| HIGHER-LEVEL PLAN(s): Kootenay Boundary Higher Level Plan Order October 26, 2002 | MAP REFERENCE NUMBER: 82G.042                                                  |

| B. PROJECT DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                             |
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| OBJECTIVE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | PUBLIC SAFETY <input checked="" type="checkbox"/>                                                                                                                                                                                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RANGE IMPROVEMENT <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ECOSYSTEM RESTORATION <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | RECREATION <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WILDLIFE HABITAT <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | OTHER:                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | DESCRIPTION: Create a shaded fuel break within the Wildland Urban Interface in order to reduce the wildfire threat in the area. The area should have a Wildfire Threat Rating of Moderate once treatment is complete. "Problem Forest" stand. TU has been isolated by previous harvesting. Mixed species forest and selective harvesting provide little chance for merchantable harvesting. |
| STRATEGIES:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Reduce stand density through thinning at all layers. Reduce ladder and surface fuels.                                                                                                                                                                                                                                                                                                       |
| METHODS: Phase 1: Selective harvest the stand using conventional methods (feller/buncher, rubber tire skidders). Retaining some of the most fire resistant tree species (Py, Lw, Fd) and all deciduous. Long skids required to the gravel pit for processing. Low volume and small area offer little economical harvesting chance. Phase 2: Hand treat using chainsaws and brushsaws, remove some layers 2, 3, and 4 Fdi, Lw, and Sx (> 0.4m). Prune remaining stems. Pile debris and burn during appropriate smoke windows. |                                                                                                                                                                                                                                                                                                                                                                                             |

| C. TREATMENT UNIT (TU) SUMMARY |               |                 |                  |         |          |                                              |                                                                                                       |
|--------------------------------|---------------|-----------------|------------------|---------|----------|----------------------------------------------|-------------------------------------------------------------------------------------------------------|
| TU                             | NET AREA (ha) | GROSS AREA (ha) | LEAVE AREAS (ha) | NP (ha) | NAR (ha) | TREATMENT REGIME (i.e. PRU, THIN, PIL, BURN) | GENERAL DESCRIPTION                                                                                   |
| P2                             | 9.8           | 9.8             | 0                | 0       | 0        | Harvest, THIN, PIL, PRU, BURN piles.         | Mixed species forest that has had some patch cut harvesting. Adjacent to private land and residences. |
| TOTALS                         | 9.8           | 9.8             | 0                | 0       | 0        |                                              |                                                                                                       |

| D. SITE CHARACTERISTICS |                  |                 |                                    |                     |                |                 |        |
|-------------------------|------------------|-----------------|------------------------------------|---------------------|----------------|-----------------|--------|
| TU                      | CFFBPS FUEL TYPE | TIMBER TYPE     | BGC SUBZONE, VARIANT & SITE ASSOC. | ELEVATION RANGE (m) | SLOPE POSITION | SLOPE RANGE (%) | ASPECT |
| P2                      | C-7              | FdAt(Lw Sx) 535 | IDF dm2-01/04                      | 1080                | Level          | 0-10            | Flat   |
| FUEL TYPE DETERMINATION |                  | Ground truthed. |                                    |                     |                |                 |        |

| E. SOIL CHARACTERISTICS |                                     |                 |                      |                            |                    |         |              |
|-------------------------|-------------------------------------|-----------------|----------------------|----------------------------|--------------------|---------|--------------|
| TU                      | SOIL TEXTURE                        | DUFF DEPTH (cm) | COARSE FRAGMENTS (%) | SOIL DISTURBANCE LIMIT (%) | SOIL HAZARD RATING |         |              |
|                         |                                     |                 |                      |                            | Compaction         | Erosion | Displacement |
| P2                      | <b>*To be determined snow free.</b> |                 |                      |                            |                    |         |              |

| F. VALUES – FOREST AND RANGE PRACTICES ACT                                                                                                                                                        |       |         |         |                                                           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|---------|-----------------------------------------------------------|
| RIPARIAN & LAKESHORE AREAS - Forest Planning and Practices Regulation (FPPR) division 3, Government Action Regulation (GAR) section 6, Forest and Range Practices Act (FRPA) sections 180 and 181 |       |         |         |                                                           |
| Is the proposed cutting, modification, or removal of trees, or site preparation, in an area that contains streams, lakes, or wetlands?                                                            | Yes   | No<br>✓ |         |                                                           |
| RIPARIAN MANAGEMENT AREAS (RMAs) - FPPR sections 51 and 52                                                                                                                                        |       |         |         |                                                           |
| STREAM, LAKE, WETLAND ID                                                                                                                                                                          | CLASS | RRZ (m) | RMZ (m) | SPECIFICATIONS FOR RIPARIAN OR LAKESHORE MANAGEMENT AREAS |
|                                                                                                                                                                                                   |       |         |         |                                                           |

| TEMPERATURE SENSITIVE STREAMS - FPPR section 53, GAR section 15, FRPA sections 180 and 181                                                        |     |         |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|--|
| Are there temperature sensitive streams or direct tributaries to temperature sensitive streams within or adjacent to the proposed treatment area? | Yes | No<br>✓ |  |
| ROAD CONSTRUCTION IN RIPARIAN MANAGEMENT AREAS - FPPR section 50                                                                                  |     |         |  |
| Is road construction proposed in riparian management areas within the treatment area or an associated road permit (RP)?                           | Yes | No<br>✓ |  |
| STREAM CROSSINGS - FPPR section 55                                                                                                                |     |         |  |
| Will stream crossings be constructed within the proposed treatment area or a road permit road providing access to the treatment area?             | Yes | No<br>✓ |  |

## Fuel Management Prescription

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------|
| <b>MAINTAINING STREAM BANK AND CHANNEL STABILITY ON S4, S5, and S6 STREAMS - FPPR section 52 (2)</b>                                                                                                                                         |                                                             |                                                            |                                               |                                                               |
| Is the proposed treatment in the RMZ of an S4, S5, or S6 stream that is directly tributary to an S1, S2 or S3 stream and the activity is likely to contribute significantly to the destabilization of the stream bank or the stream channel? | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>DOMESTIC WATER LICENCES (inside or outside of community watershed) - FPPR section 59</b>                                                                                                                                                  |                                                             |                                                            |                                               |                                                               |
| Does the proposed treatment area contain water sources that are diverted for human consumption by a licensed waterworks?                                                                                                                     | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>LICENCED WATER WORKS (inside or outside of a community watershed) - FPPR section 60</b>                                                                                                                                                   |                                                             |                                                            |                                               |                                                               |
| Does the proposed treatment include areas that are within 100 m of a licensed waterworks?                                                                                                                                                    | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>FISHERIES SENSITIVE WATERSHED - GAR section 14, FPPR section 8.1</b>                                                                                                                                                                      |                                                             |                                                            |                                               |                                                               |
| Are any activities proposed within a fisheries sensitive watershed?                                                                                                                                                                          | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>COMMUNITY WATERSHED - GAR section 8, FPPR section 8.2, 61, 62 and 84</b>                                                                                                                                                                  |                                                             |                                                            |                                               |                                                               |
| Does the proposed treatment area include areas that are within a community watershed?                                                                                                                                                        | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| Will this project require road construction or deactivation within a community watershed?                                                                                                                                                    | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>WATERSHED ASSESSMENT CONSIDERATIONS - FRPA section 180 areas with "significant watershed sensitivity"</b>                                                                                                                                 |                                                             |                                                            |                                               |                                                               |
| Does the proposed treatment area include areas that have watershed assessment considerations?                                                                                                                                                | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>SOIL DISTURBANCE AND PERMANENT ACCESS STRUCTURES - FPPR sections 35 and 36</b>                                                                                                                                                            |                                                             |                                                            |                                               |                                                               |
| Treatment Unit                                                                                                                                                                                                                               | Proposed Max. Allowable Soil Disturbance (%)<br>(5% or 10%) | Proposed Max. Soil Disturbance for Roadside Work Areas (%) | Proposed Max. Permanent Access Structures (%) | Comments                                                      |
| P2                                                                                                                                                                                                                                           |                                                             | 25                                                         | 7                                             | No new roads to be built. <b>*To be determined snow free.</b> |
|                                                                                                                                                                                                                                              |                                                             |                                                            |                                               |                                                               |
| Do the proposed Permanent Access Structures exceed 7% of the total area?                                                                                                                                                                     | Yes                                                         | No<br>✓                                                    | No new roads to be built                      |                                                               |
| <b>LANDSLIDES AND TERRAIN STABILITY - FPPR section 37</b>                                                                                                                                                                                    |                                                             |                                                            |                                               |                                                               |
| Does the proposed treatment area include areas where terrain stability is a concern?                                                                                                                                                         | Yes                                                         | No<br>✓                                                    |                                               |                                                               |
| <b>SUITABLE SECONDARY STRUCTURE - FPPR section 43.1</b>                                                                                                                                                                                      |                                                             |                                                            |                                               |                                                               |

## Fuel Management Prescription

|                                                                                                                                                                                                                          |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Does the proposed treatment area include a "targeted pine leading stand"?                                                                                                                                                | Yes      | No<br>✓ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>UNGULATE WINTER RANGE</b> - GAR section 12, FRPA sections 180 and 181, FPPR section 69                                                                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Does the proposed treatment area include areas within an Ungulate Winter Range?                                                                                                                                          | Yes<br>✓ | No      | MF dry, CC≥20% needed.<br>Analysis in an FSP needed to determine if landscape (C03) mature cover and snow intercept requirements are met.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>WILDLIFE HABITAT AREA</b> - GAR section 10, FRPA sections 180 and 181, FPPR section 69                                                                                                                                |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Does the proposed treatment area include any wildlife habitat areas (WHA)?                                                                                                                                               | Yes      | No<br>✓ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>OBJECTIVES SET BY GOVERNMENT FOR WILDLIFE</b> - FPPR section 7                                                                                                                                                        |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Does the proposed treatment area include areas to which objectives for wildlife under FPPR section 7 apply?                                                                                                              | Yes<br>✓ | No      | <u>Dainty Moonwort</u> : Historically found in area. Blue listed in BC.<br><u>Scarlet Gaura</u> : Red listed in BC.<br><u>American Badger</u> : Reference to the BC CDC identifies American badger as a Schedule 1 red listed species at risk under the SARA. No dens were seen during fieldwork. Harvesting will open the stand, reduce in-growth, and maintain a lower stocking level. Badger dens discovered require a 5m MFZ, unless a maternal den is found, which requires a WTP of at least 50 m. If any active dens are found, try to avoid the area with machinery during the denning period. Ensure that any den dug under a tree with the roots of that tree for support has a MFZ large enough that the tree will not be cut, or a reserve placed around it. |
| <b>OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Landscape Level)</b> - FPPR section 9                                                                                                                       |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Does the proposed treatment area include areas to which objectives for landscape level biodiversity under FPPR section 9 apply?                                                                                          | Yes<br>✓ | No      | TU is <40 ha. Adjacent cut-block is greened up as defined in Objective 4 in the KBHLPO.<br>LU C03 is not listed as a LU that is to be managed for mature forest targets in the KBHLPO. Low Biodiversity Emphasis.<br>The TUs are not within an identified OGMA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>OBJECTIVES SET BY GOVERNMENT FOR BIODIVERSITY OBJECTIVES (Stand Level)</b> - FPPR section 9.1                                                                                                                         |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Are considerations for maintaining stand structure (wildlife trees, wildlife tree reserves, etc.), coarse woody debris, and maintaining tree and vegetation species composition incorporated into this prescription?     | Yes<br>✓ | No      | See CWD section. See Wildlife tree section. (FSP strategy and targets needed)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RECREATION FEATURES</b> - FRPA section 56 and 149, FPPR section 70                                                                                                                                                    |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Does the proposed treatment area contain interpretive sites, recreation trails, recreation sites, recreation facilities that are considered to be of significant recreation value and are designated a resource feature? | Yes      | No<br>✓ | The TU is not within the South Star Rec Trails, however, multi-use trails link up to South Star and are used by local residents. Ensure appropriate signage of hazardous activities at trailheads. Remove debris from these trails at completion of harvesting.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>VISUAL QUALITY OBJECTIVES</b> - GAR section 7, FRPA sections 180 and 181, FPPR section 9.2                                                                                                                            |          |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Is the proposed treatment within a scenic area?                                                                                                                                                                          | Yes      | No<br>✓ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Fuel Management Prescription

| ARCHAEOLOGICAL RESOURCES/CULTURAL HERITAGE RESOURCES - FPPR section 10                                                                                                                                    |          |         |                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Are there any known archaeological sites or cultural heritage resources that are important to First Nations within the proposed area?                                                                     | Yes      | No<br>✓ | No AOA polygons within TU. Protection of any identified cultural heritage site from disturbance or destruction is required under the Heritage Conservation Act. Forest management practices will cease if culturally or archaeologically significant resource features are discovered during operations.                                                                                             |
| INVASIVE PLANTS - FRPA section 47 and FPPR section 17                                                                                                                                                     |          |         |                                                                                                                                                                                                                                                                                                                                                                                                      |
| Is the introduction and spread of invasive plants likely as a result of the proposed treatment?                                                                                                           | Yes<br>✓ | No      | Spotted & Diffuse knapweed, and Dalmatian toadflax recorded at the gravel pit outside of treatment unit. Seeding of disturbed soil such as roadside processing, skid trails, and burn piles with native grass species after harvest operations will reduce the spread of invasive plants. Invasive alien plant program database shows multiple invasive plants within the Jim Smith provincial park. |
| NATURAL RANGE BARRIERS - FRPA section 48, FPPR section 18                                                                                                                                                 |          |         |                                                                                                                                                                                                                                                                                                                                                                                                      |
| Are there natural range barriers within the proposed treatment area that are likely to be removed or rendered ineffective?                                                                                | Yes      | No<br>✓ | Surrounded by private land, no natural range barriers. Do not damage the existing fences around private property.                                                                                                                                                                                                                                                                                    |
| LAND USE OBJECTIVES (Higher Level Plans and objectives set by Government under the <i>Land Act</i> )                                                                                                      |          |         |                                                                                                                                                                                                                                                                                                                                                                                                      |
| Are there land use objectives (higher-level plans or objectives under the <i>Land Act</i> ) that apply to the proposed treatment area or a Road Permit necessary to provide access to the treatment area? | Yes<br>✓ | No      | Kootenay Boundary Higher Level Plan Order. Strategies to meet objectives are under the appropriate headings. Road Permit will be needed to access the TU.                                                                                                                                                                                                                                            |
| Do the proposed activities conflict with land use objectives (higher-level plans or objectives under the <i>Land Act</i> )?                                                                               | Yes      | No<br>✓ |                                                                                                                                                                                                                                                                                                                                                                                                      |

| G. OTHER CONSIDERATIONS AND REQUIREMENTS                                                                |          |                                             |                                                                      |
|---------------------------------------------------------------------------------------------------------|----------|---------------------------------------------|----------------------------------------------------------------------|
| CONSULTATION – FIRST NATIONS                                                                            |          |                                             |                                                                      |
| FIRST NATION                                                                                            |          | CONCERNS IDENTIFIED AND MEASURES TO ADDRESS |                                                                      |
| Ktunaxa Nation Council                                                                                  |          | <b>Negotiations need to be completed.</b>   |                                                                      |
|                                                                                                         |          |                                             |                                                                      |
|                                                                                                         |          |                                             |                                                                      |
| First Nations consultation complete?                                                                    | Yes      | No<br>✓                                     | <b>Consult with Ktunaxa Nation, Ktunaxa Bands, and Shuswap Band.</b> |
| CONSULTATION – GENERAL                                                                                  |          |                                             |                                                                      |
| Adjacent Private land owners and tenure holders below will need to be notified of treatment activities. |          |                                             |                                                                      |
| EXISTING TENURE HOLDERS (Forest, Range, Guide Outfitters, Trappers)                                     |          |                                             |                                                                      |
| Tenure Holder                                                                                           | Concerns |                                             | Measures proposed to address licensee's concerns                     |
| Trapline 1954132                                                                                        | Yes      | No                                          | <b>Consultation Required.</b>                                        |
| Forest License: A19040 (CFP)                                                                            | Yes      | No                                          | <b>Consultation Required.</b>                                        |
| Range: RAN075121 (Bombardier)                                                                           | Yes      | No                                          | <b>Consultation Required.</b>                                        |

## Fuel Management Prescription

| PRIVATE PROPERTY                                                                                       |          |         |                                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------|----------|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Does private property border the proposed treatment area?                                              | Yes<br>✓ | No      | Land surveys may have to be done when approaching property lines with the TU boundary.                                                                                                                                 |
| SMOKE MANAGEMENT                                                                                       |          |         |                                                                                                                                                                                                                        |
| Does a smoke management plan exist for the proposed treatment area?                                    | Yes<br>✓ | No      | Follow the Open Burning Smoke Control Regulation. The open burning of debris must be carried out at least 100m from neighbouring residences and businesses. Burn debris under favourable weather for smoke dispersion. |
| SAFETY                                                                                                 |          |         |                                                                                                                                                                                                                        |
| Have any specific safety concerns been identified in or adjacent to the proposed treatment area?       | Yes      | No<br>✓ |                                                                                                                                                                                                                        |
| UTILITIES                                                                                              |          |         |                                                                                                                                                                                                                        |
| Are utilities located in or adjacent to the proposed treatment area? i.e. power lines, gas lines, etc. | Yes      | No<br>✓ |                                                                                                                                                                                                                        |
| ACCESS CONTROL                                                                                         |          |         |                                                                                                                                                                                                                        |
| Are there any foreseen issues with access and access control during and post treatment?                | Yes      | No<br>✓ |                                                                                                                                                                                                                        |
| TRAFFIC CONTROL                                                                                        |          |         |                                                                                                                                                                                                                        |
| Is traffic control required at any point during operations?                                            | Yes<br>✓ | No      | Signage notifying the public of industrial activity will be needed at the entrance to work sites.                                                                                                                      |
| OTHER                                                                                                  |          |         |                                                                                                                                                                                                                        |
|                                                                                                        |          |         |                                                                                                                                                                                                                        |

| H. STAND AND STOCK TABLE             |                                  |                         |                         |     |       |                                         |     |       |
|--------------------------------------|----------------------------------|-------------------------|-------------------------|-----|-------|-----------------------------------------|-----|-------|
|                                      |                                  |                         | STEMS PER HECTARE (sph) |     |       | VOLUME PER HECTARE (m <sup>3</sup> /ha) |     |       |
| Species and Diameter Class           | Average Crown to Base Height (m) | Average Tree Height (m) | Existing                | Cut | Leave | Existing                                | Cut | Leave |
| Layer 1 (> 47.5 cm – 52.4 cm dbh)    |                                  |                         |                         |     |       |                                         |     |       |
| Species Fd                           | 3.2                              | 21.6                    | 10.7                    | 2.1 | 8.6   | 15.7                                    | 3.1 | 12.6  |
| Total Dead Potential                 | 7.4                              | 22.8                    | 0                       | 0.0 | 0.0   | 0.0                                     | 0.0 | 0.0   |
| Total Live                           | 7.4                              | 22.8                    | 10.7                    | 2.1 | 8.6   | 15.7                                    | 3.1 | 12.6  |
| Total All Species                    | 7.4                              | 22.8                    | 10.7                    | 2.1 | 8.6   | 15.7                                    | 3.1 | 12.6  |
| Total Conifers                       | 7.4                              | 22.8                    | 10.7                    | 2.1 | 8.6   | 15.7                                    | 3.1 | 12.6  |
| Layer 1 (> 42.5cm dbh – 47.4 cm dbh) |                                  |                         |                         |     |       |                                         |     |       |
| Species Fd                           | 3.2                              | 21.6                    | 26                      | 5.1 | 20.9  | 27.3                                    | 5.4 | 21.9  |
| Total Dead Potential                 | 7.4                              | 22.8                    | 0                       | 0.0 | 0.0   | 0.0                                     | 0.0 | 0.0   |
| Total Live                           | 7.4                              | 22.8                    | 26                      | 5.1 | 20.9  | 27.3                                    | 5.4 | 21.9  |
| Total All Species                    | 7.4                              | 22.8                    | 26                      | 5.1 | 20.9  | 27.3                                    | 5.4 | 21.9  |

## Fuel Management Prescription

| Species and Diameter Class           | Average<br>Crown to<br>Base<br>Height (m) | Average<br>Tree<br>Height<br>(m) | Existing | Cut  | Leave | Existing | Cut | Leave |
|--------------------------------------|-------------------------------------------|----------------------------------|----------|------|-------|----------|-----|-------|
| Total Conifers                       | 7.4                                       | 22.8                             | 26       | 5.1  | 20.9  | 27.3     | 5.4 | 21.9  |
| Layer 1 (> 37.5 cm – 42.4 cm dbh)    |                                           |                                  |          |      |       |          |     |       |
| Species Sx                           | 0                                         | 27                               | 14.4     | 2.8  | 11.6  | 19.5     | 3.8 | 15.7  |
| Total Dead Potential                 | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Live                           | 7.4                                       | 22.8                             | 14.4     | 2.8  | 11.6  | 19.5     | 3.8 | 15.7  |
| Total All Species                    | 7.4                                       | 22.8                             | 14.4     | 2.8  | 11.6  | 19.5     | 3.8 | 15.7  |
| Total Conifers                       | 7.4                                       | 22.8                             | 14.4     | 2.8  | 11.6  | 19.5     | 3.8 | 15.7  |
| Layer 1 (> 32.5 cm - 37.4 cm dbh)    |                                           |                                  |          |      |       |          |     |       |
| Species Fd                           | 3.2                                       | 21.6                             | 44.5     | 8.8  | 35.7  | 26.9     | 5.3 | 21.6  |
| Species Lw                           | 19                                        | 26                               | 22.3     | 4.4  | 17.9  | 16.2     | 3.2 | 13.0  |
| Total Dead Potential                 | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Live                           | 7.4                                       | 22.8                             | 66.8     | 13.1 | 53.7  | 43.1     | 8.5 | 34.6  |
| Total All Species                    | 7.4                                       | 22.8                             | 66.8     | 13.1 | 53.7  | 43.1     | 8.5 | 34.6  |
| Total Conifers                       | 7.4                                       | 22.8                             | 66.8     | 13.1 | 53.7  | 43.1     | 8.5 | 34.6  |
| Layer 1 (> 27.5cm dbh - 32.4 cm dbh) |                                           |                                  |          |      |       |          |     |       |
| Species Fd                           | 3.2                                       | 21.6                             | 63.5     | 12.5 | 51.0  | 23.9     | 4.7 | 19.2  |
| Total Dead Potential                 | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Live                           | 7.4                                       | 22.8                             | 63.5     | 12.5 | 51.0  | 23.9     | 4.7 | 19.2  |
| Total All Species                    | 7.4                                       | 22.8                             | 63.5     | 12.5 | 51.0  | 23.9     | 4.7 | 19.2  |
| Total Conifers                       | 7.4                                       | 22.8                             | 63.5     | 12.5 | 51.0  | 23.9     | 4.7 | 19.2  |
| Layer 1 (> 22.5 cm - 27.4 cm dbh)    |                                           |                                  |          |      |       |          |     |       |
| Species Fd                           | 3.2                                       | 21.6                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Species Sx                           | 0                                         | 27                               | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Species Lw                           | 19                                        | 26                               | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Dead Potential                 | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Live                           | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total All Species                    | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Conifers                       | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Layer 1 (> 17.5cm dbh - 22.4 cm dbh) |                                           |                                  |          |      |       |          |     |       |
| Species Fd                           | 3.2                                       | 21.6                             | 67.7     | 13.3 | 54.4  | 9.8      | 1.9 | 7.9   |
| Total Dead Potential                 | 7.4                                       | 22.8                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Total Live                           | 7.4                                       | 22.8                             | 67.7     | 13.3 | 54.4  | 9.8      | 1.9 | 7.9   |
| Total All Species                    | 7.4                                       | 22.8                             | 67.7     | 13.3 | 54.4  | 9.8      | 1.9 | 7.9   |
| Total Conifers                       | 7.4                                       | 22.8                             | 67.7     | 13.3 | 54.4  | 9.8      | 1.9 | 7.9   |
| Layer 1 (≥ 12.5 cm - 17.4 cm dbh)    |                                           |                                  |          |      |       |          |     |       |
| Species Fd                           | 3.2                                       | 21.6                             | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Species Sx                           | 0                                         | 27                               | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |
| Species Lw                           | 19                                        | 26                               | 0        | 0.0  | 0.0   | 0.0      | 0.0 | 0.0   |

## Fuel Management Prescription

| Species and Diameter Class                    | Average Crown to Base Height (m) | Average Tree Height (m) | Existing | Cut  | Leave | Existing | Cut  | Leave |
|-----------------------------------------------|----------------------------------|-------------------------|----------|------|-------|----------|------|-------|
| Total Dead Potential                          | 7.4                              | 22.8                    | 0        | 0.0  | 0.0   | 0.0      | 0.0  | 0.0   |
| Total Live                                    | 7.4                              | 22.8                    | 0        | 0.0  | 0.0   | 0.0      | 0.0  | 0.0   |
| Total All Species                             | 7.4                              | 22.8                    | 0        | 0.0  | 0.0   | 0.0      | 0.0  | 0.0   |
| Total Conifers                                | 7.4                              | 22.8                    | 0        | 0.0  | 0.0   | 0.0      | 0.0  | 0.0   |
| <b>Total Layer 1</b>                          |                                  |                         |          |      |       |          |      |       |
| Total Layer - All Species                     | 7.4                              | 22.8                    | 249      | 49.0 | 200.0 | 139.3    | 27.4 | 111.9 |
| Total Layer - Conifers Only                   | 7.4                              | 22.8                    | 249      | 49.0 | 200.0 | 139.3    | 27.4 | 111.9 |
| <b>Layer 2 (≥ 7.5 - 12.5 dbh)</b>             |                                  |                         |          |      |       |          |      |       |
| At                                            | 12.00                            | 20.00                   | 667      | 667  | 0     | N/A      | N/A  | N/A   |
| Sx                                            | 0.00                             | 13.00                   | 67       | 67   | 0     | N/A      | N/A  | N/A   |
| Total Dead Potential                          | 6.00                             | 16.50                   | 0        | 0    | 0     | N/A      | N/A  | N/A   |
| Total Live                                    | 6.00                             | 16.50                   | 733      | 733  | 0     | N/A      | N/A  | N/A   |
| Total Layer 2 - All Species                   | 6.00                             | 16.50                   | 733      | 733  | 0     | N/A      | N/A  | N/A   |
| Total Layer 2 - Conifers Only                 | 0.00                             | 13.00                   | 67       | 67   | 0     | N/A      | N/A  | N/A   |
| <b>Layer 3 (≥ 1.3m - 7.5cm dbh)</b>           |                                  |                         |          |      |       |          |      |       |
| Fd                                            | 0.43                             | 4.33                    | 267      | 267  | 0     | N/A      | N/A  | N/A   |
| Pl                                            | 0.43                             | 4.33                    | 133      | 133  | 0     | N/A      | N/A  | N/A   |
| At                                            | 1.10                             | 4.00                    | 133      | 133  | 0     | N/A      | N/A  | N/A   |
| Sx                                            | 0.43                             | 4.33                    | 267      | 267  | 0     | N/A      | N/A  | N/A   |
| Total Layer 3 - All Species                   | 0.43                             | 4.33                    | 800      | 800  | 0     | N/A      | N/A  | N/A   |
| Total Layer 3 - Conifers                      | 0.43                             | 4.33                    | 667      | 667  | 0     | N/A      | N/A  | N/A   |
| <b>Layer 4 (&lt;1.3m)</b>                     |                                  |                         |          |      |       |          |      |       |
| Fd                                            | 0.07                             | 0.90                    | 267      | 267  | 0     | N/A      | N/A  | N/A   |
| Sx                                            | 0.07                             | 0.90                    | 200      | 200  | 0     | N/A      | N/A  | N/A   |
| Total Layer 4 - All Species                   | 0.07                             | 0.90                    | 467      | 467  | 0     | N/A      | N/A  | N/A   |
| Total Layer 4 - Conifers                      | 0.07                             | 0.90                    | 467      | 467  | 0     | N/A      | N/A  | N/A   |
| * Add additional diameter classes if required |                                  |                         |          |      |       |          |      |       |

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                   |                          |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| SURFACE FUEL LOADING (kg/m <sup>2</sup> )                               | Existing: <b>Survey needed</b><br>Distribution:                                                                                                                                                                                                                                                                                                                   | Target:<br>Distribution: |
|                                                                         | Method used to measure:                                                                                                                                                                                                                                                                                                                                           |                          |
| Crown Closure (%)                                                       | Existing: 55                                                                                                                                                                                                                                                                                                                                                      | Target: 30-40            |
| <b>BIODIVERSITY AND FOREST HEALTH CONSIDERATIONS AND TARGETS</b>        |                                                                                                                                                                                                                                                                                                                                                                   |                          |
| COARSE WOODY DEBRIS (CWD)<br>RETENTION TARGET - sph and<br>Distribution | A minimum of 4 pieces of CWD per hectare will be retained and undamaged, each being a minimum of 2 m in length and 7.5 cm in diameter at one end, up to a maximum of 10% CWD coverage. Uneconomic wood created from harvesting activities such as breakage, short pieces, and wood that is considered un-merchantable will contribute to coarse woody debris. CWD |                          |

## Fuel Management Prescription

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | retention will consider all decay stages and will also include stumps and expose root wads. Deciduous stems are to remain standing as much as practicable and if required to be felled will remain on site to contribute to CWD and biodiversity objectives.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| WILDLIFE TREE RETENTION TARGET                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Up to 5 dead wildlife trees will be retained per hectare. Wildlife tree signs will be posted on high value snags to deter firewood cutting in areas considered to be at high risk from firewood cutters.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| FOREST HEALTH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No significant forest health concerns identified.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| TREATMENT SPECIFICATIONS SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| TU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | TREE REMOVAL/RETENTION STRATEGY BY SIZE/SPECIES<br>(Summarize specifications identified in table above)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| P2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Phase 1: Selective harvest the stand using conventional methods (feller/buncher, rubber tire skidders). Reserve stems >57.5cm dbh. Space crowns at least 3m apart giving preference to Lw and then Py for leave trees. Intercrown spacing target is to be met before sph target - where trees have large crowns, this will result in less than 200sph, where trees have small crowns, this will result in more than 200sph. Leave trees at a range of diameters that will be windfirm and not get snow pressed. Where natural clumps of Fd vets occur, leave all veteran trees, and then space 3m around the clump. Reserve all broadleaf tree species, no need to space 3m off broadleaf trees. Minimize damage to reserve trees of all layers.<br>Phase 2: Hand treat using chainsaws and brushsaws, remove some layer 2, and all layer 3, and 4 (>0.4m) of all conifers. Prune retained trees. |
| TREATMENT SPECIFICATION RATIONALE (See notes to assist)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Prefer Py and Lw for its windthrow and fire resistance. 3m crown spacing will reduce the likelihood of a crown fire spreading from tree to tree and maintain a shaded fuel-break. Clumps of Fd vets are common and typically have few stems regenerating within their "drip line", have self-pruned, and have thick bark - creating a favourable stand structure. Broadleaf trees are naturally fire resistant and maintain higher humidity around them. Sph estimates are based on crown radiuses of 2m with a 3m gap, resulting in the removal of 20% of the stems in Layer 1. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| I. TREATMENT DESCRIPTION                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MERCHANTABLE TIMBER HARVEST                                                                                                                                                                                                                                                                                                                     |
| ROADS, LANDINGS AND TRAILS: All bladed trails must be fully rehabilitated and suitably grass seeded following completion of licensed operations.                                                                                                                                                                                                |
| FELLING: Feller/buncher. Use caution when operating near private property. Do not leave any danger trees within one tree length of roads or fences.                                                                                                                                                                                             |
| YARDING/SKIDDING: Ground based. Do not avoid travelling machinery through thickets of understory Fd stems, as this will cause some thinning of the thickets.                                                                                                                                                                                    |
| LOADING AND HAULING: loading at roadside. Haul route to be determined based on seasonal road restrictions.                                                                                                                                                                                                                                      |
| SLASH DISPOSAL: mechanically pile debris >100m from residences. Burn during appropriate weather conditions for venting and fire danger.                                                                                                                                                                                                         |
| SITE DISTURBANCE: all bladed trails must be fully rehabilitated and suitably grass seeded following completion of licensed operations. Rehab must comply with requirements from sections 35(6) and 35(7) of the FPPR. Temporary Access structures combined with disturbance caused by random skidding and falling must not exceed 10% net area. |

## Fuel Management Prescription

|                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL MEASURES:                                                                                                                                                                                                                                                                                                                                   |
| STAND MODIFICATION TREATMENTS                                                                                                                                                                                                                                                                                                                       |
| MERCHANTABLE TIMBER UTILIZATION: Was commercial timber harvest considered? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/><br>If commercial timber harvest not prescribed, explain: TU has been isolated by previous harvesting. Mixed species forest and selective harvesting provide little chance for commercial harvesting. |
| BRUSHING:                                                                                                                                                                                                                                                                                                                                           |
| PRUNING: Prune all remaining coniferous stems (including Rocky Mountain Juniper) to a minimum of 2m from the ground surface or up to 50% of the live crown.                                                                                                                                                                                         |
| THINNING: Thin some layer 2 conifers, and all layer 3 and 4 (>0.4m) conifers. In openings where there are no stems in the leave diameter classes, thin from below until existing stem crowns are spaced at a minimum of 5m.                                                                                                                         |
| DEBRIS PILING: Material will be piled on site concurrently with thinning operations. Pile all cut and pruned material in more open areas and away from retained trees and >100m from residences. Piles should be no larger than 3m wide by 2m tall.                                                                                                 |
| PILE BURNING: Burn debris piles so that ≥95% of material is consumed during appropriate venting and fire danger conditions.                                                                                                                                                                                                                         |
| MULCHING: none.                                                                                                                                                                                                                                                                                                                                     |
| MASTICATION: none.                                                                                                                                                                                                                                                                                                                                  |
| GRINDING: none.                                                                                                                                                                                                                                                                                                                                     |
| PRESCRIBED FIRE: none.                                                                                                                                                                                                                                                                                                                              |
| PLANTING: none.                                                                                                                                                                                                                                                                                                                                     |
| OTHER:                                                                                                                                                                                                                                                                                                                                              |
| <b>AUTHORIZATION AND TIMBER TENURE *Type of Tenure to be used is to be determined</b>                                                                                                                                                                                                                                                               |
| FRPA Section 52:                                                                                                                                                                                                                                                                                                                                    |
| Forestry Licence to Cut (FLTC):                                                                                                                                                                                                                                                                                                                     |
| Park Use Permit:                                                                                                                                                                                                                                                                                                                                    |
| Road Permit or Road Use Permit:                                                                                                                                                                                                                                                                                                                     |
| Other (i.e. local government, utilities, etc.):                                                                                                                                                                                                                                                                                                     |

| <b>J. POST TREATMENT</b>                                                                                                                                                       |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------|-----------|---------------------|--------------|-------|------|--------------------|--------|---------|-------------|----------------------|
| EXPECTED VEGETATION RESPONSE: Increase in grass and brush foliage. Mortality expected in damaged reserve trees in all layers.                                                  |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
| ADDITIONAL TREATMENTS OR MAINTENANCE: Pruning and removal of regeneration may be beneficial in maintaining the fuel break after 5-10 year.                                     |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
| SILVICULTURE OBLIGATIONS: Do silvicultural obligations apply to the treatment area? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>                        |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
| PLANTING: Is planting a treatment identified in this prescription or required as a legislative obligation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
| STOCKING STANDARDS                                                                                                                                                             |                      |            |           |                     |              |       |      |                    |        |         |             |                      |
| TU                                                                                                                                                                             | Stocking Standard ID | Pref. Spp. | Acc. Spp. | Well Spaced Stem/ha |              |       |      | Minimum Height (m) |        |         | Regen Delay | Free Growing (years) |
|                                                                                                                                                                                |                      |            |           | TSS                 | MSS          |       | MITD | PI                 | Others | RTH (%) |             |                      |
|                                                                                                                                                                                |                      |            |           |                     | Pref. & Acc. | Pref. |      |                    |        |         |             |                      |
| P2                                                                                                                                                                             | 1050163              |            |           |                     |              |       |      |                    |        |         |             |                      |

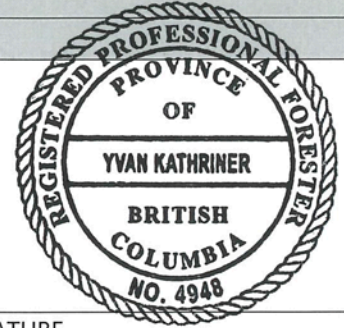
## K. Outstanding Works

1. Soil hazard ratings.
2. Field marking/GPSing of harvest boundaries and road centerlines (may need legal land survey).
3. Check RAAD for known heritage sites.
4. Conform to the FSP of the license holder.
5. Cutting Permit & Appraisal.
6. Consultation with adjacent residents and tenure holders.
7. Pre treatment WUI WTA plots and photos.
8. Pre treatment CWD/surface fuels survey.

Areas marked in orange will need further development.

## L. ADMINISTRATION

### PREPARATION

|                                           |                                                                                                                                                                        |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Yvan Kathriner</p>                     |   |
| <p>FOREST PROFESSIONAL NAME (Printed)</p> | <p>FOREST PROFESSIONAL SIGNATURE</p>                                                                                                                                   |
| <p>4948</p> <p>MEMBER NUMBER</p>          | <p>March 23, 2018</p> <p>DATE</p>                                                                                                                                      |

## M. ATTACHMENTS

|                                                                                                                                            |                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| <p>MAPS : Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>                                                          | <p>FIELD DATA CARDS: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>                                          |
| <p>WUI WTA Plots and Photos: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>                                       | <p>Recce CRUISE DATA: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>                                         |
| <p>AIR PHOTOS/IMAGERY: Yes <input type="checkbox"/> No <input type="checkbox"/></p>                                                        | <p>BURN PLAN: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>                                                 |
| <p>MODELING/DATA ANALYSIS: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>                                         | <p>OTHER: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>                                                     |
| <p>TERRAIN STABILITY ASSESSMENT Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Completed By:</p> <p>Date:</p>  | <p>VISUAL IMPACT ASSESSMENT Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Completed By:</p> <p>Date:</p> |
| <p>ARCHAEOLOGY IMPACT ASSESSMENT Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Completed By:</p> <p>Date:</p> | <p>BIOLOGIST ASSESSMENT Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Completed By:</p> <p>Date:</p>     |
| <p>ADDITIONAL COMMENTS:</p>                                                                                                                |                                                                                                                                       |