

**CAR1314 Listing Attachment G****3.1. General Eligibility Requirements**

(a) In order to be eligible under this protocol, a forest offset project must:

(1) Meet the natural forest management criteria set forth in table 3.1

- Composition of native species;
- Distribution of age classes / sustainable management;
- Structural elements (standing and lying dead wood);

**Part VI.B.1** – the project will consist of at least 95% native species based on the estimated sum of carbon in the standing live carbon pool. The assessment shall be conducted using estimates of stems per acre for Reforestation Projects and basal area per acre for Improved Forest Management and Avoided Conversion Projects.

Preliminary estimate:

| Species ID | Common Name         | Scientific Name                      | BA (sqft/ac) | Percent |
|------------|---------------------|--------------------------------------|--------------|---------|
| 17         | grand fir           | Abies grandis                        | 2.80         | 3.52%   |
| 73         | western larch       | Larix occidentalis                   | 3.08         | 3.87%   |
| 108        | lodgepole pine      | Pinus contorta                       | 2.99         | 3.76%   |
| 119        | western white pine  | Pinus monticola                      | 0.01         | 0.01%   |
| 122        | ponderosa pine      | Pinus ponderosa                      | 37.81        | 47.54%  |
| 202        | Douglas-fir         | Pseudotsuga menziesii                | 32.56        | 40.94%  |
| 231        | Pacific yew         | Taxus brevifolia                     | -            | 0.00%   |
| 242        | western red cedar   | Thuja plicata                        | 0.01         | 0.01%   |
| 264        | mountain hemlock    | Tsuga mertensiana                    | -            | 0.00%   |
| 351        | red alder           | Alnus rubra                          | 0.07         | 0.09%   |
| 500        | hawthorn species    | Crataegus                            | 0.06         | 0.08%   |
| 746        | quaking aspen       | Populus tremuloides                  | 0.15         | 0.19%   |
| 747        | black cottonwood    | Populus balsamifera ssp. trichocarpa | -            | 0.00%   |
| 760        | plum/cherry species | Prunus                               | -            | 0.00%   |
| 920        | willow species      | Salix                                | -            | 0.00%   |
|            |                     | <b>Total Native</b>                  | 79.54        | 100.00% |
|            |                     | <b>Total</b>                         | 79.54        | 100.00% |

CAR1314: Finite Carbon – Spokane Tribe of Indians IFM

**Part VI.B.2** - the Project Area will naturally consist of a mixed species distribution where no single species' prevalence, measured as the percent of basal area of all live trees in the Project Area, exceeds the percentage value of standing live carbon shown under the heading 'Species Diversity Index' in the Assessment Area Data File.

Preliminary estimate:

| <b>Assessment Area: Douglas-fir Mixed Conifer (SDI: 70 percent)</b> |                      |                                      |              |                |
|---------------------------------------------------------------------|----------------------|--------------------------------------|--------------|----------------|
| Species ID                                                          | Common Name          | Scientific Name                      | BA (sqft/ac) | Percent        |
| 17                                                                  | grand fir            | Abies grandis                        | 7.72         | 8.29%          |
| 19                                                                  | subalpine fir        | Abies lasiocarpa                     | 5.98         | 6.42%          |
| 73                                                                  | western larch        | Larix occidentalis                   | 7.13         | 7.65%          |
| 93                                                                  | Engelmann spruce     | Picea engelmannii                    | 0.04         | 0.04%          |
| 108                                                                 | lodgepole pine       | Pinus contorta                       | 18.26        | 19.59%         |
| 122                                                                 | ponderosa pine       | Pinus ponderosa                      | 53.38        | 57.25%         |
| 202                                                                 | Douglas-fir          | Pseudotsuga menziesii                | -            | 0.00%          |
| 242                                                                 | western red cedar    | Thuja plicata                        | 0.03         | 0.03%          |
| 321                                                                 | Rocky Mountain maple | Acer glabrum                         | 0.15         | 0.16%          |
| 351                                                                 | red alder            | Alnus rubra                          | 0.14         | 0.15%          |
| 375                                                                 | paper birch          | Betula papyrifera                    | 0.39         | 0.42%          |
| 746                                                                 | quaking aspen        | Populus tremuloides                  | -            | 0.00%          |
| 747                                                                 | black cottonwood     | Populus balsamifera ssp. trichocarpa | 0.01         | 0.01%          |
| 760                                                                 | plum/cherry species  | Prunus                               | -            | 0.00%          |
| <b>Total (weighted by strata acres)</b>                             |                      |                                      | <b>93.23</b> | <b>100.00%</b> |

| <b>Assessment Area: Ponderosa Pine (SDI: 90 percent)</b> |                   |                       |              |                |
|----------------------------------------------------------|-------------------|-----------------------|--------------|----------------|
| Species ID                                               | Common Name       | Scientific Name       | BA (sqft/ac) | Percent        |
| 17                                                       | grand fir         | Abies grandis         | 0.17         | 0.23%          |
| 73                                                       | western larch     | Larix occidentalis    | 1.58099580   | 0.0216649      |
| 108                                                      | lodgepole pine    | Pinus contorta        | 0.799559555  | 0.0109566      |
| 122                                                      | ponderosa pine    | Pinus ponderosa       | 48.3251832   | 0.6622172      |
| 202                                                      | Douglas-fir       | Pseudotsuga menziesii | 22.02631395  | 0.3018344      |
| 242                                                      | western red cedar | Thuja plicata         | 0.00981383   | 0.0001345      |
| 351                                                      | red alder         | Alnus rubra           | 0.02323166   | 0.0003184      |
| 500                                                      | hawthorn species  | Crataegus             | 0.019833924  | 0.0002718      |
| 746                                                      | quaking aspen     | Populus tremuloides   | 0.021139612  | 0.0002897      |
| <b>Total (weighted by strata acres)</b>                  |                   |                       | <b>72.97</b> | <b>100.00%</b> |

| <b>Assessment Area: Columbia Basin Mixed Conifer (SDI: 65 percent)</b> |                   |                       |              |                |
|------------------------------------------------------------------------|-------------------|-----------------------|--------------|----------------|
| Species ID                                                             | Common Name       | Scientific Name       | BA (sqft/ac) | Percent        |
| 17                                                                     | grand fir         | Abies grandis         | 0.00         | 0.01%          |
| 73                                                                     | western larch     | Larix occidentalis    | 0.04         | 0.08%          |
| 108                                                                    | lodgepole pine    | Pinus contorta        | 0.18         | 0.36%          |
| 122                                                                    | ponderosa pine    | Pinus ponderosa       | 46.01        | 92.04%         |
| 202                                                                    | Douglas-fir       | Pseudotsuga menziesii | 3.76         | 7.52%          |
| 242                                                                    | western red cedar | Thuja plicata         | 0.00         | 0.00%          |
| 351                                                                    | red alder         | Alnus rubra           | 0.00         | 0.00%          |
| 500                                                                    | hawthorn species  | Crataegus             | 0.00         | 0.00%          |
| 746                                                                    | quaking aspen     | Populus tremuloides   | 0.00         | 0.00%          |
| <b>Total (weighted by strata acres)</b>                                |                   |                       | <b>50.00</b> | <b>100.00%</b> |

**Part VI.B.3a** – Adherence to a renewable long-term management plan that demonstrates harvest levels which can be permanently sustained over time and that is sanctioned and monitored by a state or federal agency.

**Part VI.B.3b** - Please see Part V.I – Preliminary estimate indicates that no more than 40% of the project area is in age classes younger than 20 years old: 0-20 years (15%); 20+ years (85%).

**Part VI.B.4** – if the project does not meet the maximum of 1% of standing live stocks or 1 ton of carbon (C), then the project will ensure that structural elements are retained in sufficient quantities throughout the project life by continuing to implement project activities that do not include the active harvest or removal of standing or lying dead wood. Structural elements are also incorporated into management planning under the Resource Management Plan.

Preliminary estimate:

| Year | Metric tonnes CO <sub>2</sub> e |      | Metric tonnes C |      | Percent |
|------|---------------------------------|------|-----------------|------|---------|
|      | TSL                             | TSD  | TSL             | TSD  |         |
| 2018 | 87.88                           | 8.40 | 23.96           | 2.29 | 9.55%   |