**Schedule “A”**

**PROJECT DESCRIPTION**

The objective of this Agreement is to complete the provision of the Click here to enter text. project as follows:

**PROJECT BACKGROUND:**

The Alberta Biodiversity Monitoring Institute (ABMI) is a registered not-for-profit organization under *Alberta Societies Act*. The ABMI has surveyed plant and animal species and their habitats at several hundred sites across Alberta since 2007 to provide relevant, scientifically credible information on Alberta’s living resources. The ABMI field data are an available resource for researchers and environmental managers, and stakeholders.

I will be extracting the areas of different forest stand-age classes and human footprints from the ABMI GIS layer within 50 m, 150 m, and 500 m of point counts. The specific point count locations I am interested in occur on the “Kirby” big grid (one of ~18 10x10 grids of 100 points (600 m apart) with ARU stations for recording wildlife sounds).

**PROJECT INFORMATION:**

The Project goals include creating information summaries of, and to produce reports based upon, the Data, the information summaries and reports relating to:

* The Kirby grid is set up within the Al-Pac FMA to assess the utility of lidar-based vegetation metrics for predicting abundance of wildlife species. These metrics will be compared against AVI-based and optical remote sensing (satellite)-based vegetation metrics.
* I will take a habitat and human footprint summary file for each spatial scale (the areas of polygons within different forest stands and ages and within different human footprints, within 50, 150, and 500 m of each point count). These habitat summaries will be further processed in R before analysis.
* I will use these Alberta Vegetation Inventory (AVI)-based data to predict abundance of different boreal bird species within the Kirby grid, using N-mixture models.
* I will then compare the accuracy or relative fit of these AVI-based models against models that use other types of vegetation data (optical remote sensing-based, lidar-based) to predict bird abundance and see if models with a combination of vegetation variables from different data sources perform better still at predicting bird abundance.
* The end result is a report and publishable paper submitted to the Boreal Ecosystem Recovery Assessment project, the Alberta Biodiversity Monitoring Institute, and Al-Pac.

**PROJECT TEAM:**

The following individuals, under the supervision of Click here to enter text., are approved co-investigators on the Project:

* Lionel Leston, Postdoctoral Fellow, University of Alberta
* Erin Bayne, Professor, University of Alberta
* Greg McDiarmid, Professor, University of Calgary
* Mustafizur Rahman, Masters student, University of Calgary

PROJECT START DATE: January 27, 2020

PROJECT END DATE: May 31, 2020

ADDRESS (please provide your office address): Lionel Leston, 1-096 CCIS, University of Alberta

**PLEASE COMPLETE THE THREE SECTIONS BELOW**

**SECTION 1: TYPE OF ACCESS/DATA FILES BEING REQUESTED**

Please indicate whether you are requesting access to a secure computer to access confidential or propriety data, or whether you are requesting an internally supplied export of non-public data. Please note, you are not guaranteed to be given access to any of the below selected information.

**Is this an ABMI project?**

|  |  |
| --- | --- |
| Yes | No |

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**Secure Computer Access Request (indicate what you wish to access):**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SPOT Imagery | Backfilled Layer | ABMI Sites | Other | Specify: |

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**Data Export Request**

|  |  |
| --- | --- |
| Backfilled tabular data around ABMI sites | HFI tabular data around ABMI sites |
| Other, specify:  ABMI vegetation/footprint data within 50, 150, and 500 m of a grid of ARUs set up by the Boreal Ecosystem Recovery Assessment study |  |

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**SECTION 2: SITES REQUESTED**

Either provide a predefined list of sites you are interested in or filter based on the selection below. If you are attaching a predefined site list, please make sure to complete SECTION 3.

Provide a specific site list

**OR:**

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**Natural Region:**

|  |  |  |  |
| --- | --- | --- | --- |
| All | Boreal | Canadian Shield | Foothills |
|  | Rocky Mountain | Parkland | Grassland |

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**Land-use Framework:**

|  |  |  |  |
| --- | --- | --- | --- |
| All | Lower Athabasca | Lower Peace | North Saskatchewan |
| Red Deer | Southern Saskatchewan | Upper Athabasca | Lower Athabasca |

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**Oil Sands Region:**

|  |  |  |  |
| --- | --- | --- | --- |
| All | Peace River | Cold Lake | Athabasca |

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**WPAC:**

|  |  |  |  |
| --- | --- | --- | --- |
| All | Mighty Peace | Athabasca | Beaver River |
| Lesser Slave | North Saskatchewan | Battle River | Red Deer River |
| South East Alberta | Bow River | Oldman | Milk River |
| Unassigned |  |  |  |

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**Other:**

Please specify:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION 3: ABMI PROTOCOL AND SITE TYPES**

For your above selected sites, please further refine your selection. You will not receive access to all site, only to those needed to complete your research.

Please select the protocol you are interested in, and one or all the available site types. Make sure to specify what the other Site Type is you are requesting (e.g. OG-CITSCI).

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Terrestrial (if selected, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: |

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Wetland (if selected, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: |

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Terrestrial ARUs (if selected, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: “Kirby” grid |

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Wetland ARUs (if selected, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: |

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Terrestrial Cameras (if selected, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: |

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Wetland Cameras (if select, please make Site Type selection below, otherwise leave blank)

|  |  |  |  |
| --- | --- | --- | --- |
| Core | Off-grid | Other | Specify: |

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