**Final BERA Project Summary Assignment – list of 1-pagers per student**

Please review the below list and fill for each of your assigned1-Pagers (some of you have one, some of you have multiple ones!)

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| **Student by Lab** | **1-Pager #1 (Title)** | **1-Pager #2 (Title)** | **1-Pager #3 (Title)** | **1-Pager #4 (Title)** |
| Vegetation Team (Nielsen) |  |  |  |  |
| * Tobias | N/A |  |  |  |
| * Angelo | Title forthcoming | Title forthcoming | Title forthcoming | Title forthcoming |
| * Cassondra | Microtopography of seismic lines in treed peatlands |  |  |  |
| * Charlotte | Effects of fire severity and seismic line characteristics on blueberry |  |  |  |
| * Ryan | Post-fire patterns of tree regeneration in exploratory well pads |  |  |  |
| * Laureen | Effects of mounding treatments in seismic lines on understory plant communities |  |  |  |
| * Caroline | Relationships between light, microclimate, and tree regeneration on seismic lines |  |  |  |
| * Michael | Post-fire patterns in lichen recovery on exploratory well pads |  |  |  |
| Wildlife Team  (Bayne) |  |  |  |  |
| * Scott W. | Ovenbird response to wellpad recovery | Avian community response to vegetation conditions on reclaimed wellpads |  |  |
| * Jocelyn | Canada Warbler response to natural seismic line recovery in aspen forest |  |  |  |
| * Connor | Is intensity of use a better metric of habitat use by birds than abundance? | Response of forest birds to understory protection harvest |  |  |
| * Brenden | The value of LiDAR for understanding habitat selection by birds |  |  |  |
| * Natalie | Response of songbirds to industrial noise | Plasticity in song of Lincoln’s sparrow in response to industrial noise |  |  |
| * Richard | Using ARUs to measure hunting activity | Best practices for using ARUs to count birds on energy sector disturbances |  |  |
| * Lionel | How spatial scale influences our understanding of cumulative effects |  |  |  |
| Sensor Team (Liang) |  |  |  |  |
| * James | Extensible and interoperable geospatial web architecture for heterogeneous IoT sensors |  |  |  |
| * Sara | Machine learning techniques for analyzing spatio-temporal observations from IoT sensor networks |  |  |  |
| * Kan | Long-range, low-power, and low-cost wireless IoT network for environmental monitoring |  |  |  |
| * Soroush | Geospatial web portal for visualizing and analyzing observation data from heterogeneous IoT sensors |  |  |  |
| Soil and Ecohydrology Team (Strack) |  |  |  |  |
| * Scott D. | Changes in soil properties on seismic lines |  |  |  |
| * Percy | Effect of seismic line disturbance on peatland carbon cycling |  |  |  |
| * Kim | Changes in nutrient content in soils and plants on mounded and unmounded peatland seismic lines |  |  |  |
| Remote Sensing Team 1 ( Franklin) | Pixel- and object-based multispectral classification of forest tree species from small unmanned aerial vehicles |  |  |  |
| * Oumer | Wetland classification using Radarsat-2 SAR quad- polarization and Landsat-8 OLI spectral response data: a case study in the Hudson Bay Lowlands Ecoregion | Classification of annual non-stand replacing boreal forest change in Canada using Landsat time series: a case study in northern Ontario | Deciduous tree species classification using object-based analysis and machine learning with unmanned aerial vehicle multispectral data |  |
| * Rachel | Detection accuracy of new well sites using Landsat time series data: a case study in the Alberta Oil Sands Region |  |  |  |
| * Griffin | Hierarchical land cover and vegetation classification using multispectral data acquired from an unmanned aerial vehicle | Comparison of Free to Grow (FTG) survey field data and a Landsat time series spectral recovery metric in Kenora Forest Management Unit harvest areas, northwestern Ontario, Canada | Northern Conifer Forest Species Classification Using Multispectral Data Acquired from an Unmanned Aerial Vehicle |  |
| Remote Sensing Team 2 (Castilla) |  |  |  |  |
| * Shijuan | Estimating mean vegetation height in recovering seismic lines using drones |  |  |  |
| * Michelle | Estimating individual seedling height in recovering seismic lines using drones |  |  |  |
| * Corey | Detection of coniferous seedlings in drone imagery using machine learning |  |  |  |
| * Michael F. | Detection of coniferous seedlings in drone imagery using deep learning |  |  |  |
| Remote Sensing Team 3 (McDermid) |  |  |  |  |
| * Mustafiz | A cost-accuracy analysis of conifer seedling detection with automated remote sensing | A new method to monitor groundwater table in peatlands |  |  |
| * Shannon | N/A |  |  |  |
| * Jen | Cloud computing and satellite data streams are transforming large-area disturbance monitoring | Monitoring recovery of forest vegetation on petroleum well sites using unmanned aerial vehicles |  |  |
| * Fai | N/A |  |  |  |
| * Annette | The role of LiDAR and digital aerial photogrammetry for characterizing boreal forest canopy structure |  |  |  |
| * Gus | Remote Sensing Estimates of Coarse Woody Debris | The Seismic-line Mapper |  |  |
| * Silvia | Measuring forest-understory structure with LiDAR |  |  |  |
| * Kiran | N/A |  |  |  |
| * Sarah | N/A |  |  |  |

Appendix below: Project Template image, please see actual template document sent with the email.

