



## *Bird Environmental Consulting Ltd.*

Owner – Krista Bird, B.Sc., B.Sc., Ph.D., P.Biol.

[krissy@birdenvironmental.ca](mailto:krissy@birdenvironmental.ca)

(780) 499-6421

P.O. Box 5295, Devon, Alberta, T9G 1Y1

<https://birdenvironmental.ca/>

**100% Woman Owned**

**100% Indigenous (Métis) Owned**

**100% Highly Qualified Biologist (Ph.D.) Owned**

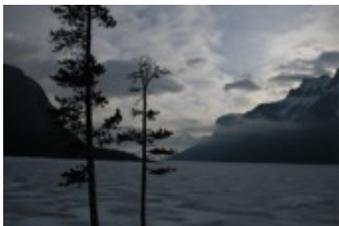




Bird Environmental Consulting Ltd.

## Bird Environmental Consulting Ltd.

Full Service Environmental Consulting Company – Wildlife, Species at Risk, Aquatics, Vegetation, Rare Plants, Wetlands, Soils, Regulatory



### Corporate Profile

**100% Woman Owned, 100% Indigenous Owned, & 100% Highly Skilled Biologist Owned**

Bird Environmental Consulting Ltd. is located in Parkland County, Alberta and was founded in 2025. It is 100% owned and operated by Dr. Krista (Krissy) Bird who has over 20 years of experience as a wildlife biologist and regulatory specialist, as well as over 40 years of experience with Traditional Ecological Knowledge, and is one of the top Indigenous Biologists in North America. We offer the full suite of environmental services internally and in partnership with our carefully selected, ethical, and highly skilled sub-consultants. All sub-consultants were selected based on their experience, skill sets, and for either being Indigenous or for being Indigenous allies, as there are very few highly qualified Indigenous consulting companies.

Services that we and our carefully selected subconsultants offer are:

- Wildlife and Species at Risk
- Fish and Fish Habitat, Aquatics
- Vegetation, Rare Plants, Weeds
- Wetlands
- Soils
- GIS and Geomatics
- Regulatory Approvals and Permitting
- Biophysical Inventories and Reporting
- Historical Resources and Archaeology
- Indigenous Consultation
- Public Consultation
- Planning
- Engineering

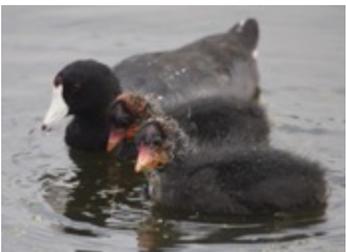
Every project will be overseen by Dr. Bird to ensure the highest quality product and to guarantee 100% Indigenous oversight on all Indigenous projects.



**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421





## Bird Environmental Consulting's Service Areas Wildlife/Species at Risk

Bird Environmental Consulting Ltd. specialize in wildlife and species at risk assessments and surveys. Dr. Bird has been involved with a wide variety of projects throughout Alberta, B.C., Saskatchewan, and the western US for oil & gas, mining, renewable energy, infrastructure, transportation, land development, wastewater treatment, all levels of government, and first nation communities. The following are services that we can provide:

- Pre-construction/Baseline Surveys
- Before-After-Control-Impact (BACI) Programs
- Construction Monitoring
- Post-construction Monitoring
- Biophysical Impact Assessments/Environmental Impact Assessments
- Mitigation Plans
- Monitoring Plans
- Management Plans
- Protection Plans
- Specialty Plans to Meet Your Requirements
- Research Programs
- Wildlife Training for Indigenous Communities
- Wildlife Surveys
  - All Species at Risk Surveys
  - Bird Surveys – Breeding Bird, Nest Sweeps, Nest Monitoring, Grouse Lek Searches, Surveys, & Behavioural Studies, Sora/Rail, Migratory Raptor and Waterbirds, Raptor Nest, Nocturnal and Diurnal Owl, Waterfowl, Waterbirds, Call Playback, Species-specific Surveys
  - Mammal Surveys – Bat – Acoustic and Thermal, Tracking and Sign Detection, Small Mammal, Carnivore, Ungulate, Den Searches and Sweeps, Species-specific Surveys
  - Amphibian/Reptile – Acoustic, Non-Acoustic (Tadpole and Adult Surveys), Translocation and Salvage, Hibernacula Searches and Surveys, Species-specific Surveys
  - Multi-Species – Acoustic Detection, Wildlife Camera, Wildlife Tracking & Sign
  - Other Surveys – Non-invasive Genetic Sampling, Standard Genetic Sampling, Live Trapping and Capture,

**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
 (780) 499-6421





Banding/Tagging/Collaring, Telemetry (Radio and Satellite), Behavioural Studies, Physiology Studies

- Analyses- Genetic – Habitat Corridor Mapping, Habitat Suitability Use and Mapping, Statistical Analyses, Fatality Estimation, Searcher Efficiency Trials, Scavenger Trials
- Other Wildlife Items – Wildlife Deterrents, Bat Houses
- Indigenous Wildlife Monitors

## Fish & Fish Habitat/Aquatics

Bird Environmental Consulting Ltd. offers a variety of fish and fish habitat, aquatics, and species at risk surveys and services. The following are services that we can provide:

- Pre-construction/Baseline Surveys
- Pre-construction/Baseline Surveys/Pre-disturbance Assessments (PDAs)
- Before-After-Control-Impact (BACI) Programs
- Construction Monitoring, Post-construction Monitoring and Compliance
- Biophysical Impact Assessments/Environmental Impact Assessments
- Mitigation Plans
- Monitoring Plans
- Management Plans
- Protection Plans
- Restoration and Reclamation Plans
- Specialty Plans to Meet Your Requirements
- Research
- Aquatic Environmental Impact Assessment
- EEM, AEMP, and Spill Impact Monitoring Studies
- Aquatic Habitat Assessment and Mapping
- Aquatic Resources Use and Inventory
- Fish Habitat Offsetting Plans and DFO Negotiations
- Habitat and Restoration and Rehabilitation
- Fish Salvage/Rescue
- Water Quality Assessment
- Fish Habitat and Habitat Use Studies
- Fish Movement Studies
- Benthic Invertebrate Sampling
- Zooplankton/Phytoplankton Sampling
- Water Discharge Sampling
- Training for Indigenous Communities

**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421





## Vegetation/Rare Plants/Wetlands/Soil

Bird Environmental Consulting Ltd. offers a variety of vegetation, rare plants, wetland, and soil surveys and services. The following are services that we can provide:

- Pre-construction/Baseline Surveys
- Pre-construction/Baseline Surveys/Pre-disturbance Assessments (PDAs)
- Before-After-Control-Impact (BACI) Programs
- Construction Monitoring
- Post-construction Monitoring and Compliance
- Biophysical Impact Assessments/Environmental Impact Assessments
- Plant Salvage, Seed Collection
- Mitigation Plans
- Monitoring Plans
- Management Plans
- Protection Plans
- Restoration and Reclamation Plans
- Specialty Plans to Meet Your Requirements
- Research
- Ecological Land Classification (ELC) and Terrestrial Ecosystem Mapping (TEM)
- Bioengineering
- Detailed Vegetation Inventories
- Rare Plant Assessments
- Weed Surveys
- Revegetation
- Vegetation Health Assessments
- Timber Volume/Productivity Assessments
- Wetland Delineation
- Wetland Permanency Assessments
- Wetland Classification and ABWRET-A Assessments
- Wetland Assessment and Impact Reports (WAIRs)
- Wetland Assessment and Impact Forms (WAIFs)
- Wetland Reclamation
- Wetland Compliance
- Wetland Design & Creation
- Soil Classification Surveys
- Conservation and Reclamation Plans
- Soil Salvage Monitoring
- Air Photo Interpretation



**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421



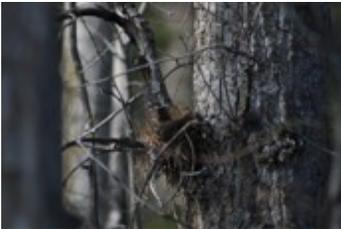


- GIS/Mapping
- Research
- Training for Indigenous Communities

## Regulatory

Bird Environmental Consulting Ltd. specializes in difficult regulatory projects. We can complete the following:

- Federal
  - Impact Assessment Act
  - Fisheries Act
  - Migratory Birds Convention Act
  - Species at Risk Act
  - Canadian Navigable Waters Act
  - Parks Canada Agency Impact Assessments
  - Indigenous Services Canada Environmental Requirements
- Provincial
  - Water Act (Including Wetlands and Watercourse Crossings)
  - Public Lands Act
  - Environmental Protection and Enhancement Act (EPEA)
  - Wildlife Act
  - Weed Act
  - Historical Resources Act (AB)
  - Heritage Conservation Act (BC)
  - Alberta Utility Commission
- Municipal Approvals
  - Biophysical Impact Assessments (BIA)
  - Biophysical Assessments (BA)
  - Environmental Impact Assessments (EIA)
  - Environmental Assessments (EA)
  - Environmental Screenings (ES)
  - Environmental Segments to Area Structure Plans (ASPs)
  - Wildlife Corridor Analysis Reports
  - Habitat Protection Analysis and Recommendations Reports
  - Specialty Reports



**Bird Environmental Consulting Ltd.**

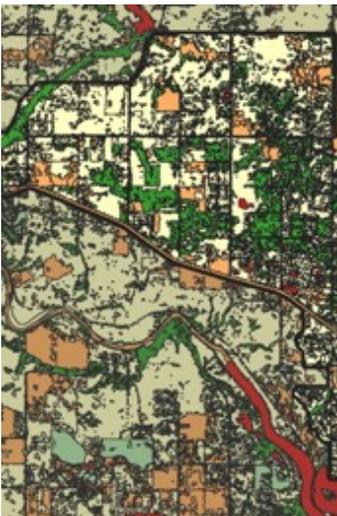
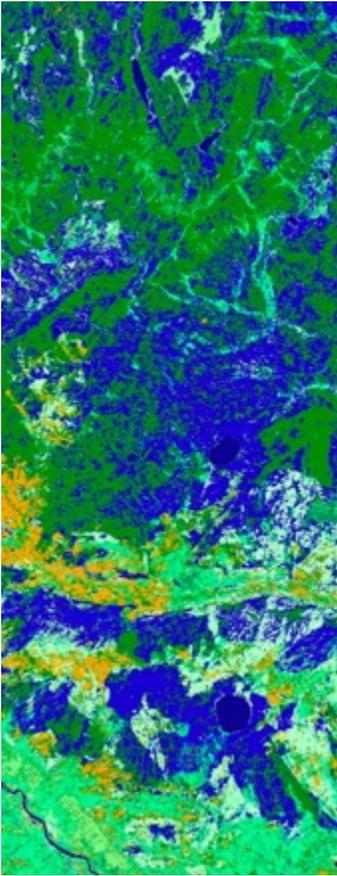
[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421



## GIS/Geomatics

Bird Environmental Consulting Ltd. offers a variety of GIS and Geomatics services:

- Mapping that meets all regulatory and reporting requirements:
  - Federal regulatory requirements (DFO, Indigenous Services Canada, Parks Canada Agency, etc.)
  - Provincial regulatory requirements (Water Act, Public Lands Act, Environmental Protection and Enhancement Act (EPEA), Historical Resources Act, Wetland Assessment and Impact Reports (WAIRs), Wetland Assessment and Impact Forms (WAIFs), Wetland Permanency Assessments, Species at Risk Mapping, etc.)
  - Municipal regulatory requirements (Biophysical Impact Assessments (BIA), Biophysical Assessments (BA), Environmental Impact Assessments (EIA), Environmental Assessments (EA), Environmental Screenings (ES), Area Structure Plans, Specialty Plans, etc.)
- We also offer specialty GIS/Geomatics services:
  - Wildlife habitat mapping and modelling
  - Wildlife corridor analysis
  - Nest and wildlife sweep mapping
  - Wildlife and species at risk mapping
  - Vegetation community, rare plant, and weed mapping
  - Wetland mapping
  - Hydrological modelling of surface water flow
  - Soil mapping
  - Land use mapping
  - Topography and geological landform mapping
  - Georeferencing air photos
  - Aerial Photography and LiDAR Planning & Management
  - Surveying
  - Aerial Triangulation
  - Photogrammetry
  - Photo Interpretation & Classification
  - Contour generation
  - Orthophotography
  - Thematic Mapping

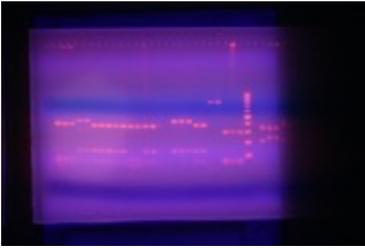


## Research/Statistics

**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421





Bird Environmental Consulting Ltd. and our partner companies have extensive experience designing, implementing, and analyzing complex research programs. Our team has multiple individuals with graduate degrees, including our founder Dr. Krista (Krissy Bird). Our team has experience with the following:

- Population genetics and genetic assessments
- Non-invasive DNA sampling programs
- Telemetry (conventional and satellite) and habitat use studies
- Wildlife habitat modelling
- Behavioural ecology
- Wildlife physiology
- Species at Risk
- Captive Breeding
- Ecosystem health
- Biodiversity
- Population estimates
- Toxicology (aquatic and terrestrial)
- Biodiversity assessments
- Environmental stressors
- Wetland restoration & creation
- Traditional Ecological Knowledge (TEK)

Bird Environmental Consulting Ltd. have the ability to complete the full range of statistical analyses that are required for everything from biophysical projects to large and complicated research programs. We utilize various statistical packages, including R, and other specialized programs designed for specific analyses. Our team offers:

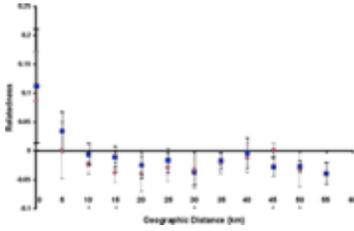
- Maximum parsimony, maximum likelihood, and Bayesian inference analyses
- Univariate analyses (simple statistics – e.g. ANOVA, AMOVA, regression (linear, non-linear, and multiple regression), T-tests, nested plot designs, repeated measures, etc.)
- Multivariate analyses (more complicated statistics with multiple variables)
- Specialty Statistics
- Wind Farm Analyses – Post construction Mortality monitoring statistics for birds and bats that meet the current guidelines in Alberta, as well as AUC and AEPA requirements
- Full suite of standard genetic statistical analyses required for projects utilizing non-invasive or invasive genetic sampling
- Population estimates (mark – recapture)
- Ecosystem health metrics (diversity, richness, etc.)
- Resource selection functions



**Bird Environmental Consulting Ltd.**

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421





- Maximum parsimony, maximum likelihood, and Bayesian inference analyses
- Specialty analyses target to meet your needs

### Other Service Areas

Through our partner companies, we can provide the following historical resources & archaeology related services:

- Archaeological Overview Assessment (AOA)
- Archaeological Impact Assessment (AIA)
- Historic Resource Application
- Statement of Justification (SOJ)
- Historic Resources Impact Assessment (HRIA)
- Historic Resources Impact Mitigation (HRIM)
- Construction Monitoring and Post-Impact Assessments

Through our partner companies, we can provide the following services:

- Engineering (Alberta)
- Residential, Commercial, & Industrial Land Development
- Planning – Land/Policy Analysis, Regional Planning, Growth Studies, Land Use Bylaws, Outline/Concept Plans, Master Site Development Plans, Development Permits, etc.
- Engagement – Stakeholder Identification, Conflict Resolution, Media Relations, Facilitation, Online Engagement, Public Relations, etc.
- Indigenous Consultation



### Member of the Following Organizations



CCIB  
**CERTIFIED  
INDIGENOUS  
BUSINESS**



**Aksis**



**THE  
WILDLIFE  
SOCIETY**

### Bird Environmental Consulting Ltd.

[www.birdenvironmental.ca](http://www.birdenvironmental.ca)  
[contact@birdenvironmental.ca](mailto:contact@birdenvironmental.ca)  
(780) 499-6421

