

Title	PI	Product Due Date	Funding Allocation
<p>A Landscape Analysis and Monitoring Program for Waterton-Glacier International Peace Park and the Greater Crown of the Continent Ecosystem, Phase I Crown Managers</p> <p>Crown of the Continent Landscapes Analysis/Ecological Indicators Project, Phase II: Transboundary Data Integration and Habitat Connectivity</p>	<p>Crown Managers Partnership / McDermid, G</p>	<p>11/11–1/13</p>	<p>FY10 \$50K FY11 \$75K</p>

FY 2010

The monitoring strategy will focus on the development and acquisition of geospatial datasets from remote sensing and other GIS sources designed to track changes in habitats and human footprint consistently and reliably across the CCE.

Deliverables:

1. A methodology to acquire landscape-level baseline and trend information and tools for tracking management efforts
2. Spatially-explicit geospatial layers:
 - a. Critical evaluation of: roads, geo-administration, hydrology, land cover, and disturbances
 - b. Develop and retain a significant capacity for "filling in" missing or unreliable information
 - c. Create base maps for each of the monitoring indicators for which no suitable preexisting GIS alternatives exist in part by developing software tools for assisting automated or semi-automated work flow
3. Collect calibration/validation data for remote sensing-based reference maps
4. Develop strategies for monitoring changes in these indicators including determining status and trends of selected metrics of landscape composition, structure, and function for multiple reporting units

FY 2011

Objectives:

- Conduct habitat connectivity analysis for grizzly bear, Canada lynx, bull trout and westslope cutthroat trout at the scale of the CCE
- Conduct a sensitivity analysis that reveals the impacts of errors/ uncertainty in basemap geospatial products on final results

- Engage partners and networks in order to communicate methods, geospatial tools and results across the multiple geographic jurisdictions of the Crown of the Continent Ecosystem and the GNLCC geographic region

Deliverables (due date):

1. Habitat and connectivity maps for grizzly bears and other key species at the scale of the CCE (10/11)
 2. Connectivity indices for grizzly bears and other key species (11/11)
 3. Report on grizzly bear habitat and connectivity analysis at the scale of the CCE, submitted to an appropriate peer-reviewed journal (4/12)
 4. Report on the results of sensitivity analysis and describing the effects of base data errors and uncertainty on landscape analysis, submitted to an appropriate peer-reviewed journal (6/12)
 5. Integrated database cataloging and synthesizing freely available and derived data across the CCE; available to CMP partners and collaborators (8/12)
 6. Interactive website linked to the existing CMP website with searchable web maps of natural habitat and habitat connectivity, as well as habitat and connectivity reports (8/12)
 7. Presentations to and workshops with CMP managers, citizens and public stakeholders (9/12)
 8. CMP Annual Forum in 2013 (5/13)
- Crown Managers Partnership: <http://www.crownmanagers.org/>