

Table 35 Riparian - Bare ground cover

	DATA OPTION 1: Quickbird 2	DATA OPTION 2: Airborne Radar e.g InSAR
<i>Spatial Dimensions</i>		
Area to cover	12km x 12km per scene	Can be up to 1000km ² or more
Mapping unit	068m panchromatic 4.0m multi-spectral	2m – 10 m
Positional accuracy	Dependent on geo-referencing process	Within 5m or less dependent on GPS base station used
<i>Temporal Dimensions</i>		
When	Approx 10.45am	User controlled
How often	Minimum every 4 days	User controlled
Variable to map	Bare ground cover	Bare ground cover
Environmental Restrictions	Cloud cover Submerged/inundated ground surfaces	Standing surface water
Processing technique	Image classification or feature detection using segmentation and classification	Radar data processing and calibration
(Output)	(Land cover type map and target features) Note: The ability to map specific targets will depend on their growth form and extent.	Backscatter correlation modelling, classification of bare ground return signals Land cover type map
Resources – Hardware and Software	PC Image processing software GIS with image classification module (e.g. ARCGIS Image Analyst)	PC Image processing software GIS with radar image analysis capabilities.
Resource – Personnel	Trained in image classification Experience with high spatial resolution data Knowledge of area to be mapped	Trained and experienced with radar mapping. Knowledge of the area to be mapped
References: Note these are some example references		