



## DAM SITE & RIVER SURVEYS

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Dam design requires accurate survey information of three areas, the inundation area, covering the entire area upstream of the wall where water will be impounded; that dam wall area itself; and a significant area downstream for disaster planning in the event of a failure of the wall or overflow. All of these areas typically are fairly densely vegetated making accurate survey quite difficult. Due to Lidar's ability to penetrate vegetation, it is ideal for surveys of river channels and therefore of dam sites.

The imagery provides a time-stamped snapshot of the project area at a baseline date. This helps with socio economic issues such as resettlement eligibility and compensation.

### ABOUT SOUTHERN MAPPING

Southern Mapping provides LiDAR, Hyperspectral, Thermal surveys and mapping; as well as satellite imagery and associated product and GIS services for a variety of industries and sectors. These include civil engineering and infrastructure development, mineral exploration and mine management, environmental planning and rehabilitation, and urban and agricultural planning.

