

3D LASER SCAN AND CCTV INSPECTIONS

McRobert Contracting Services provides a specialised service of completing 3D laser scan and CCTV inspections on sewer pump stations and access chambers.

With the safety and health of our personnel first and foremost, this service has eliminated the need for man entry to these assets to complete internal inspections.

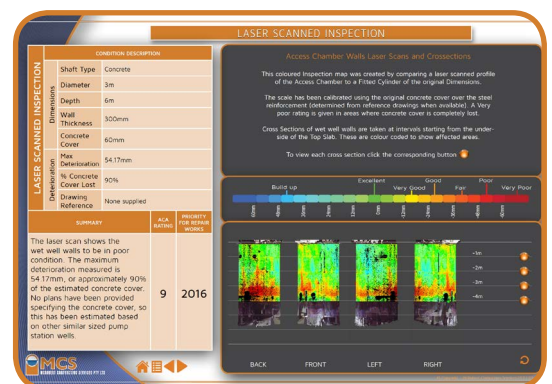


Using the latest 3D scanning technology, a Faro X130 3D laser scanner is used to provide accurate measurements of your underground asset. These measurements are then compared to the original dimensions of the structure, to determine the amount of deterioration of the asset. The laser scanner takes 27 million measurements in 8 minutes, up to a distance of 130 metres.

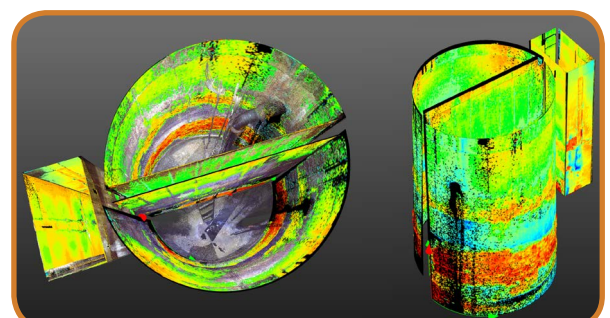
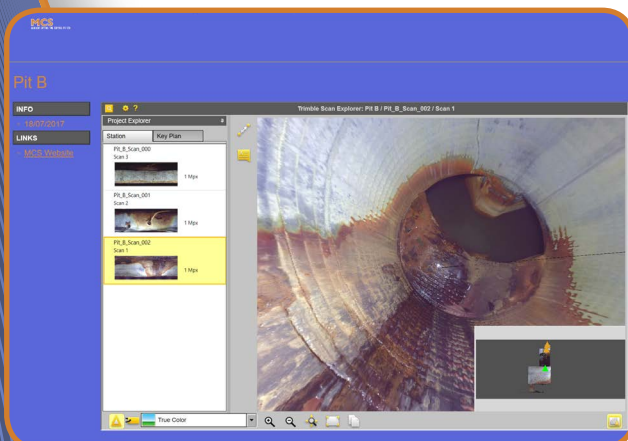
Data is collected from the laser scanner and used with specialised software to create 3D point cloud imagery, which is then used to assess the structural integrity of the asset walls.

In conjunction with the laser scanner, a high resolution camera is also used to visually inspect the walls and internal components of the structure. A full HD video recording of the inspection and high resolution photographs are provided as part of this service.

A detailed report is then generated, with a complete assessment of the structural integrity and all internal components of the asset.



LASER SCANNED INSPECTION		Access Chamber Walls Laser Scan and Corrosion	
Dimensions	Shaft Type: Concrete Diameter: 5m Depth: 6m Wall Thickness: 300mm Concrete Cover: 60mm Max. Deterioration: 54.17mm	% Concrete Cover Left: 90% Drawing Reference: None supplied	This colour inspection was created by comparing a laser scanned profile of the Access Chamber to a Final Cylinder of the original Dimensions. The scale has been calibrated using the original concrete cover over the steel reinforcement (determined from reference drawings when available). A very poor rating is given in areas where concrete cover is completely lost. Cross Sections of wet well walls are taken at intervals starting from the underside of the Top Slab. These are colour coded to show affected areas. To view each cross section click the corresponding button.
Summary	This laser scan shows the wet well walls to be in poor condition. The maximum deterioration measured is 54.17mm, or approximately 90% of the estimated concrete cover. No plans have been provided specifying the concrete cover, so this has been estimated based on other similar sized pump station wells.	9 2016	Build up: Excellent Very Good Good Fair Very Poor BACK FRONT LEFT RIGHT



**Interested in having your asset 3D laser scanned?
Contact us on:**

Ph: 08 9411 0666

Email: office.admin@mcrobert.com.au



McRobert Contracting Services
ABN: 77 063 441 725
ACN: 063 441 725
53 Solomon Road, Jandakot, W.A. 6164
HEAD OFFICE: (08) 9411 0666
FAX: (08) 9414 7242
office.admin@mcrobert.com.au