

## RESERVOIR MAINTENANCE SPECIALISTS



### **RAP** YOUR WATER ASSETS

Inspection and identification of assets is the first step in effective management and our services are key to providing this. We will verify the condition status, compare it with previous information and identify future outcomes based on commonality and industry based experiences.

**RECOGNISE** the available evidence during field inspections, based on previous experience and technical training.

**ASSESS** the findings through accurate photography and report writing.

**PRESENT** the information in an online data base format that is concise, easily available and is 'multi layered' to suit different areas of management.



### **RAP** YOUR WATER ASSETS

**RECOGNISE**  
**ASSESS**  
**PRESENT**





Aqualift personnel have been inspecting water storage assets for many years and have developed a system that is both simple and comprehensive. It ensures continuity for the next generation of management and allows asset information to be displayed in a variety of electronic reports to suit multiple levels of industry needs and compliance.

Inspections can be conducted on different levels, depending on client requirements.

### LEVEL 1

A complete external inspection of storages, with limited internal features that can be accessed above the water line, from the internal ladder. The main observations focus on contamination source points and potential structural failures. Drones are used for a detailed asset overview and for roof edge areas that are not accessible from the ground.

### LEVEL 2

This is an addition to Level 1 and can be done by either diving or using a Remote Operated Vehicle (ROV). It will verify sediment depth, contamination evidence, pipework configurations and provide a more detailed internal structural and coating condition assessment.

### LEVEL 3

The focus is on the roof structure areas and entails using an inflatable boat to assist and support independent engineering personnel. Many roof systems are now entering their final years of design life, so it is important to identify and rectify potential failures before they occur. Some newer aluminium roofing systems have also developed structural issues and early intervention can save on expensive rectification repairs or prevent a roof collapse.





## Aqualift use a variety of supporting equipment to carry out their inspections

### CONCRETE TESTING

Monitoring structural integrity of storage tanks, through Carbonation/steel cover readings and Chloride sampling. This allows renovations to be undertaken while the asset is still repairable.

### DRONES

Can inspect areas of Tanks, Aqueducts and Dams which are not suitable or possible for personnel to access. They offer a detailed view of EMF hazard areas, roof edges, river crossings and the underside of bridges and supporting structures .

### DIVER PROPULSION VEHICLE

Is used to move efficiently and effectively inside larger tanks. This allows the diver to access upper and middle wall areas for detailed coating assessments.

### ROV

Allows 'real time' visual access to personnel who are not inside the tank environment during the diver inspection.

### DIVING

Still the most effective inspection medium for tanks. It allows efficient 'under roof' access, the ability to touch, feel and investigate defective areas further and allows repairs to be carried out, once identified.

### VIDEOS

Edited videos or live footage of the inspection process by Diver, Drone or ROV.

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# ASAM ONLINE DATA BASE

[www.asam.com.au](http://www.asam.com.au)



ASAM is an online data base that collects, searches, generates reports and stores information in a secure and independent environment. It has multiple levels of access and security from 'read only' through to 'editing' permission. It is solely based around water assets and this allows greater focus on the things that really matter to management within the water industry.

It has five sections at present:

## RESERVOIRS

Potable water assets that service the public. Focusing on security, contamination, safety and structural perspectives.

## TANKS

Water storages used for fire suppression or non-potable use.

## AQUEDUCTS

Exposed pipelines that transfer potable, storm or waste water.

## PUMP STATIONS

A module that focuses on pumping potable, storm or waste water from intake structure through to discharge. It includes buildings, pumps, electrical, safety and pipework.

## WATER QUALITY

Sample points are created, field data is entered on-site and laboratory results are imported. Graphical displays for reporting statistical analysis or immediate identification of 'out of normal results' are readily available. Reports can be generated to demonstrate compliance to regulatory bodies.



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**AquaSafeSkills**

**RE-WIREMENT**