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Report on Sub-Aqua Survey of Eastern Lake – Cosmeston Lakes Country Park
Date of Survey: 16/04/2025
Client: Aqua Parks Group Ltd
Location: Eastern Lake, Cosmeston Lakes Country Park, Vale of Glamorgan
Submitted: 20th April 2025

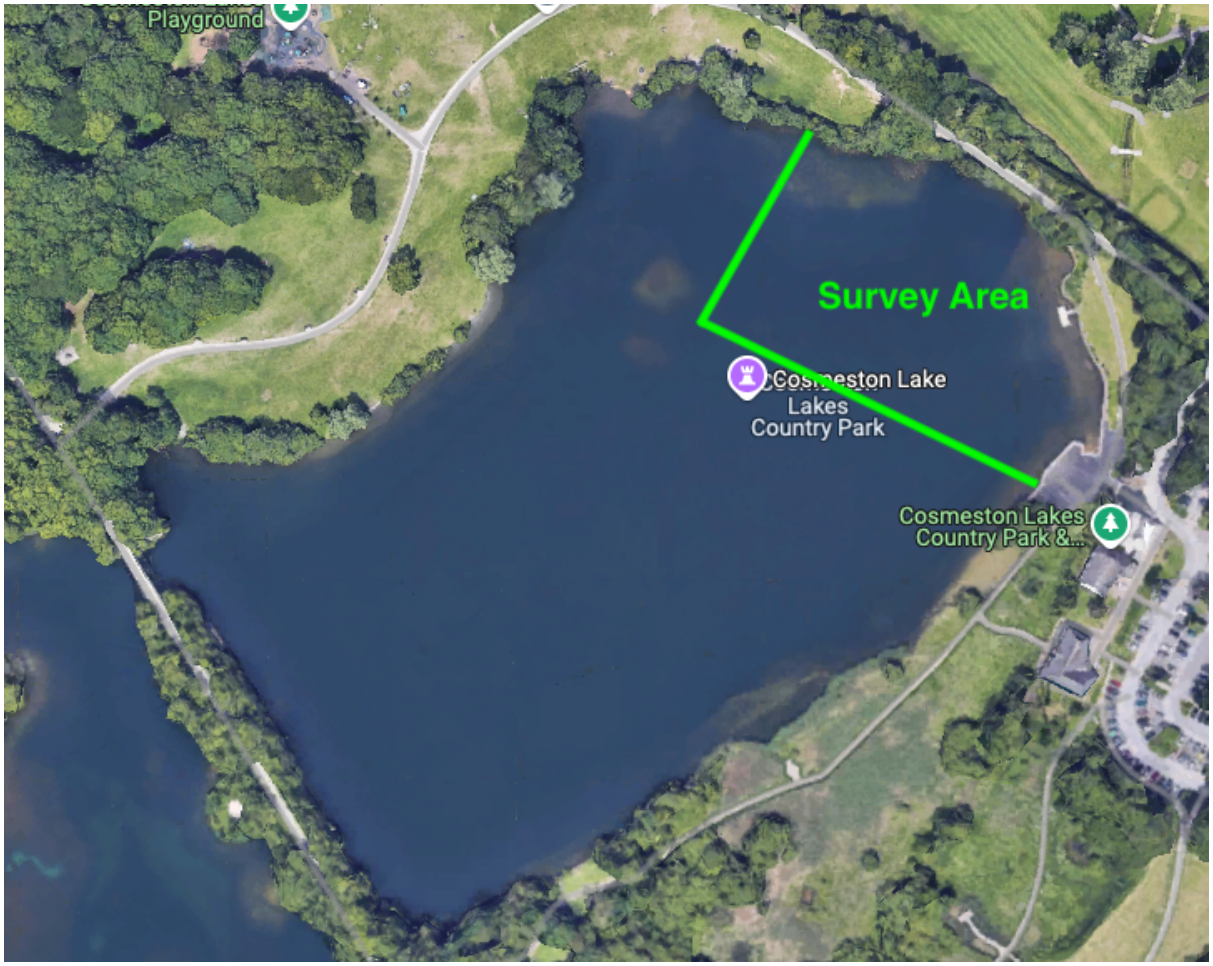
1. Introduction

At the request of the Aqua Park Group, Dive Rutland Ltd undertook a sub-aqua survey of the eastern third of the Eastern Lake at Cosmeston Lakes Country Park. The purpose of this survey was to assess underwater conditions within the proposed development area for a seasonal Aqua Park, with a specific focus on the presence of invasive aquatic plant species—particularly *Nitellopsis obtusa* (Starry Stonewort)—and any submerged hazards that might pose a risk to future users of the facility.

The dive was run and managed in accordance with UK HSE and Dive Rutland diving procedures for Recreational diving

Dive Logs are available on request – kept on file for 7 years.

The area covered is marked on the following diagram.



2. Methodology

The survey was conducted by two of our experienced and fully qualified professional divers, (one holding PADI Divemaster and the other SSI Instructor Trainer certification and Dive Centre Owner). The dive team undertook a systematic visual and tactile inspection of the lakebed and water column throughout the target area. High-definition underwater video footage was recorded during the survey for documentation and future reference.

Survey parameters:

- **Survey Area:** Eastern third of the Eastern Lake
- **Depth Range:** Surface to maximum depth within the survey zone
- **Equipment Used:** Underwater camera, SCUBA gear, safety surface support
- **Visibility Conditions:** Excellent

3. Findings

3.1 Aquatic Vegetation

No evidence of *Nitellopsis obtusa* (Starry Stonewort) or any other invasive macrophytes was observed at any depth or location within the surveyed area. The native aquatic flora present appeared consistent with a typical, moderately eutrophic freshwater lake.

3.2 Underwater Hazards

The divers found no submerged objects, debris, or foreign bodies that would pose a physical hazard to users. The lakebed was generally clear and composed primarily of soft silt and sand, with occasional natural features such as small rocks and aquatic plant roots. No items of concern—such as sharp objects, sunken structures, or entanglement risks—were identified at the depths requested up to 4metres.

4. Conclusion

Based on the detailed inspection carried out by our dive team, we can confirm the following:

- No presence of *Nitellopsis obtusa* (Starry Stonewort) was detected in the surveyed area.
- No underwater obstructions or hazards were found that would present a risk to recreational users of a proposed Aqua Park.

Dive Rutland Ltd is confident that the area surveyed presents no immediate underwater concerns from either an ecological or safety perspective in relation to the intended development. Any questions in relation to the contents of this document should be directed to Tracey Roberts on the contact details above.

Prepared by:	**Approved by:**
Tracey Roberts Director and SSI Instructor Trainer Dive Rutland Limited	Tracey Roberts Director Dive Rutland Limited

Attachments:

- Link to Underwater Video Footage (additional footage is available on request)