

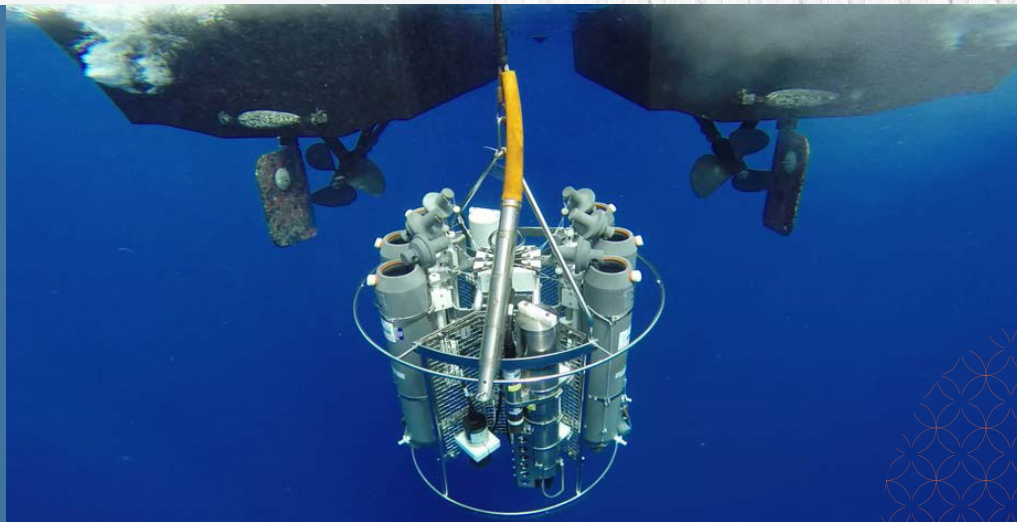
Water Column Monitoring



OSRL, in partnership with CSA Ocean Sciences Inc., offers **Water Column Monitoring** equipment and services as part of OSRL's supplementary subsea membership agreements. This equipment supports subsea dispersant use by providing real-time data on water quality and environmental conditions, enhancing response effectiveness.

Key Facts

- Developed in collaboration with CSA Ocean Sciences Inc., leveraging over 50 years of marine environmental experience
- Designed for subsea monitoring up to 3,000 metres depth
- Integrated, mobilisation-ready system for rapid deployment on offshore supply vessels
- Two 8ft x 20ft containers certified for offshore use by Det Norske Veritas (DNV) and the American Bureau of Shipping
- Suitable for international operations in varied metocean conditions



Specifications

Water depth	Up to 3,000m with 3,500m winch wire
Temperature range	-2°C to 35°C (operation)
Air monitoring	Benzene and volatile organic compounds (VOCs)
Power supply	30-horsepower winch with A-frame and skid, powered by electromechanical cable
Container certification	DNV and American Bureau of Shipping



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OSRL Members can access the **Water Column Monitoring Service** through the capping supplementary agreement.

Package includes

- Full setup for initial two-week deployment, with chemicals, consumables, and supplies
- **Safety features:** Air monitoring systems, ship-integrated alarms, smoke and heat detectors, video security monitors, fire extinguishers, spill kits, and AED
- **Storage facilities:** Commercial-grade under-counter refrigeration units and sub-80 freezers for sample preservation
- Manufactured and maintained by Oceaneering

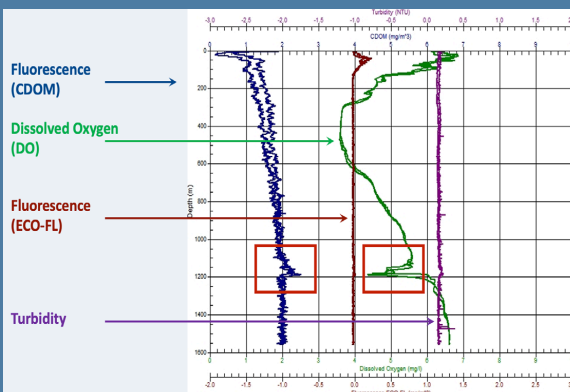
Components

The Water Column Monitoring equipment consists of:

- **Launch and recovery system:** DNV-certified winch, A-frame, and skid for safe deployment and recovery with an electromechanical cable to provide power and communication to the sensor and sampling equipment
- **Sampling equipment:**
 - GO-FLO bottles for sample collection at any depth
 - Sensors for conductivity, temperature, dissolved oxygen, turbidity, fluorescence, and particle size
- **Gas Chromatograph/Mass Spectrometer:** Onboard equipment for in-situ analysis of volatile compounds

Storage

The WCM equipment is stored in two offshore-certified containers equipped with power and communication systems, ensuring response readiness and compliance with safety standards.



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