



DHI SOLUTION

REMOTE CONTROLLED WATER SAMPLING

Sample water and fluids with our turnkey solutions

SAMPLE WATER ANY WHERE, ANY TIME AND UNDER ANY WEATHER CONDITION

Samples form the basis of almost any kind of survey, monitoring programme and analysis. Even in a modelling study, field data are an essential part of the project for calibrating and validating the model.

With our remote sampling system, you will be able to take your field samples whenever and wherever needed. The system will supply you with the optimal amount of data.

Sampling locations include:

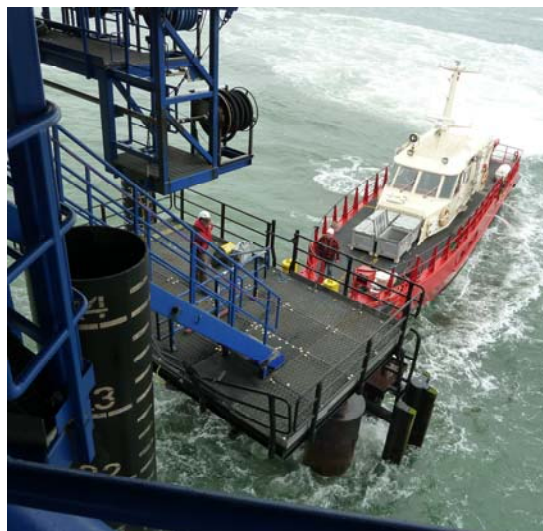
- Offshore waters
- Inshore waters
- Lakes
- Pipes
- Wells
- Sources
- Sea ports
- Offshore and nearshore constructions
- Power plants
- Combined Sewer Outfalls
- And many more

A PORTABLE SYSTEM FOR MAXIMUM FLEXIBILITY AND EASY HANDLING

DHI's remote sampling system is independent of cables and wires, power supplies etc. It is self-contained with wireless power supply, GSM, GPS, and the required cooling and pumping systems. That facilitates the handling and transport of the remote sampling system.

INSTALLATION, MAINTENANCE AND SERVICE

DHI offers a one-stop shopping solution for all the services related to the remote sampling device, such as installation, servicing, sampling, maintenance, and collection and analysis of samples in our certified laboratories. Moreover, the experienced DHI Survey and Monitoring Group will help you configure the instrumentation.



SUMMARY

CLIENT

Port authorities, marine operators, offshore industry, power plants, shipping industry, hydrologists and meteorologists.

CHALLENGE

- Water environment surveillance
- Operational surveillance
- Input to forecast systems
- Biological surveillance
- Pollution surveillance
- Surveillance under extreme weather and sea conditions
- Sampling below sea surface

SOLUTION

A remotely controlled sampling system allows you to retrieve regular samples while saving on vessel and personnel time.

VALUE

- Sampling independent of human and vessel resources
- Continuous automatic sampling at regular intervals
- Run sampling on demand
- Run sampling during all weather conditions
- Up to 24 x 1 L in one batch
- Safe sampling under all conditions
- Safe storage of the samples until service



DHI's remote sampling system allows you to retrieve water samples on a regular and reliable basis, even under harsh conditions and at locations difficult to access. DHI's Survey and Monitoring Group takes care of deployment and recovery, configuration and installation, all service required and maintenance works as well as collection and analysis of samples in our in-house laboratories and further related data management.

TURNKEY SYSTEMS FROM SAMPLE TO DATABASE

OPERATION AND COMMUNICATION

DHI's remote sampling system includes CDMA and GSM digital cell phone modems as well as a land-line modem. With a modem connected, you can remotely trigger and reprogram the sampler, download data and set up dial out alarms to have the sampler notify you when samples are collected.

LOGISTICS AND SERVICE

Operating this kind of equipment at sea involves vessels of varying sizes. In most cases, DHI's Survey and Monitoring Group provides the necessary vessel, as well as other tools involved in the process of deploying, recovering and servicing the instrument.

Should a client want to provide the necessary logistic tools for these operations himself, this can be arranged in most cases. It may even make operations easier and more efficient if the client's vessel operates in the vicinity of the buoy.

POWER SUPPLY

The power capacity required can usually be supplied by renewable energy sources, such as solar panels or wind turbines.

Generally, battery capacity in a remote sampling system needs to be upgraded from time to time. Service is therefore planned to take place at regular intervals. In addition to the changing of battery, cleaning and service of instruments is carried out when necessary.

PLATFORMS AND HOUSING

Platforms and housing for the sampler can be provided and build by the DHI Survey and Monitoring Group. Thereby, a sampling platform will be chosen or tailor-made according to your specific needs.

DATABASE

An essential part of remote sampling is the reliable and regular transfer of data from the sampling device. All data can be kept and post-processed in DHI's databases, for secure and safe storage of all kind of fragile and scientific data.

If you would like to learn more about safe storage and analysis of your data, please refer to our flyer 'Customised Data Handling Centre'.



Water sampling devices. These devices come in different sizes and configuration and with optional refrigeration of samples within the device. (Source: Teledyne ISCO)

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For more information visit: www.dhigroup.com