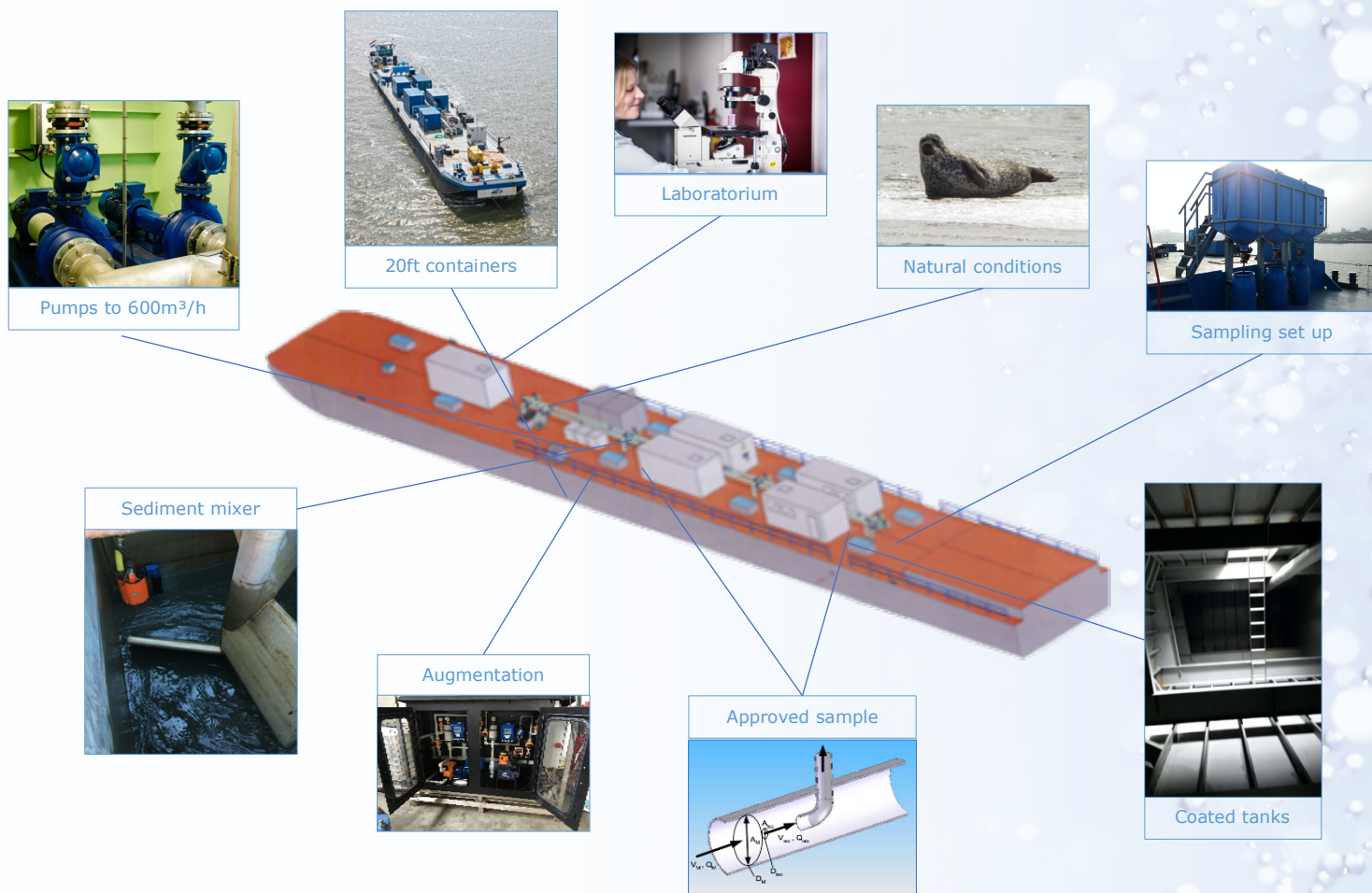


MEA-Innovator

The MEA-Innovator is the world's only floating test facility that tests with ambient water within an hour sailing from our home port. It has access to natural marine, brackish and fresh water, but can also conduct tests on potable water.

Our homeport is a small fishery harbour in the northern part of the Netherlands, located in Den Oever on the UNESCO world heritage site Wadden Sea. Only one hour from Schiphol Airport.



Modular and flexible

The design of the MEA-Innovator is modular and flexible, to meet your requirements for easy installation. In mutual consultation, we can fit almost any set-up to our test facility.

On board we can do Type Approval tests under the supervision of many different national administrations. But we also have the possibility for extensive Research & Development (R&D).

a. Your system

Your treatment system should preferably be fitted in a 20ft container for easy connection and safety. Installation can be prepared in advance as container stacks are located on board. For small installations also 8ft containers or skid installations can be used.

b. Flexible installation

The main piping is designed of DN250 in stainless 316L. The piping is set up modular so any in-line system can be fitted directly onto the main piping. We can also make use of smaller pipes and pumps. For in-tank treatment, equipment can be installed in the tanks.

c. Tanks

The barge has 10 tanks. Nine of them are in use for testing purposes, ranging from 180 up to 235 m³. Total usable volume is 1980m³. All tanks are coated with a ballast tank coating as per IMO guidelines.

d. Pump capacity

The test facility can set flowrates from 10m³/h up to 600m³/h, making use of frequency controllers on the pumps and valve arrangements.

e. Power supply

The electrical installation on board is 108 Kva with 230V and 400V at 50Hz. A local rental genset can be customized for your needs if necessary

f. Water matrix and biodiversity:

Because of the unique location of the test facility, we have access to marine, brackish and fresh water. Natural biodiversity is available in high numbers during the test season. We can also conduct test on potable water.

g. Augmentation

In order to meet the requirements for challenge water or to create particular test conditions the barge is equipped with suitable facilities for the addition of substances. Most commonly this comprises suspended solids and dissolved organic carbon sources.

h. Sensors and data logging

No report without data. All sensors are connected to a PLC system and two independent data storage devices. During testing, real-time monitoring of the readings is provided.

i. Sampling

Sampling ports on board are in accordance with IMO and US Coast Guard regulations. Sampling can be done in all ways necessary to meet the purpose of your project.

j. Analyses

Samples will mostly be analysed in our own laboratories on board and at the office. For certain microbiological and chemical analyses we make use of third party labs.

k. R&D / Bench scale, Type Approval

Wide range of possibilities for R&D testing are available. This includes bench scale tests and tests to identify System Design Limitations (SDLs).

For any BWMS we can provide land-based and shipboard testing under the IMO BWMS Code and G9 as well as under the USGC's ETV protocol.

l. Accommodation

In the surroundings of Den Oever, lots of accommodations are available to meet your requirements. This ranges from luxury hotels to hospitable B&B accommodations and holiday houses. For your convenience, well equipped office space is available.

m. Track record:

Since 2012, besides complete Ballast Water Management Systems, we have tested components like UV-reactors, filters, chlorine cells and ozone systems.