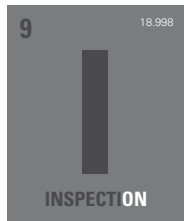




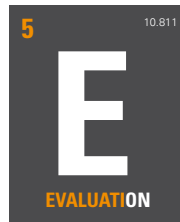
**PROTECTING THE MARINE ENVIRONMENT – SGS MARINE ENVIRONMENTAL TESTING FOR CRUDE AND TRADE VESSELS**



MARINE



ENVIRONMENTAL



PROTECTION

## THAT PROTECTS THE FUTURE OF YOUR SHIPPING BUSINESS

Each year several million tonnes of ballast waters are discharged into the oceans by ships moving between over 600 ports around the globe. The greatest volume of this ballast water discharge comes from bulk carrier vessels. The release of ship ballast water into our oceans brings with it considerable risk to the environment and ecology. Ballast water has the potential to harbour marine pests, which could, if released as part of the discharge, have significant environmental and economic impacts.

This recognised global risk is monitored through The Ballast Water Management scheme, which ensures consistent international and domestic ballast water controls. This serves the purpose of reducing the risk of introducing a marine invasive species into the local environment and covers all harbours and waters around the world.

Contaminated ballast water is a major environmental concern for the shipping industry, but there are many other considerations as well. Marine fleet owners need to ensure vessels operate consuming only the minimum amount of energy and that all limits placed on CO<sub>2</sub>, sulfur and nitrogen monoxide emissions are met. It is also important that all aspects of a ship's waste are carefully monitored and minimised, meeting regulations as required.

SGS Marine Environmental Testing provides inspection, sampling, testing and verification both onboard and dockside to give you a complete understanding of all the environmentally related aspects of your vessels' operation. Whether you need your ballast water assessed, your emissions tested or your waste products monitored, we can help. Through our support your brand image can be maintained and developed and your costs managed. We ensure your vessels are delivering sustainability for the future, for the environment and for you.

## ABOUT SGS MARINE ENVIRONMENTAL TESTING

Our Marine Environmental Testing supports you across the full spectrum of environmental shipping issues, covering all harbour activities and every analysis necessary, as well as any product testing or measurements required.

Our comprehensive service for crude and trade vessels includes:

- Ballast water, sampling and analysis
- Gas emission monitoring in port or at sea
- Verification of compulsory and voluntary CO<sub>2</sub> reports/financial statements
- Waste sampling and analyses
- Waste water sampling and analyses
- ISO 14001:2004 Environmental Management Systems
- BS EN 16001:2009 Energy Management
- Noise, Vibration and IAQ for Cruiselineer

Our Marine Environmental Testing also provides services to Cruise liners and ferries through:

- Indoor air quality
- Drinking water testing by second generation Adenosine Tri Phosphate (ATP) testing
- Legionella testing

## THE BENEFITS OF SGS MARINE ENVIRONMENTAL TESTING

Through our Marine Environmental Testing you can have complete control over the environmental effects of your vessels, ensuring that all regulations are adhered to in respect to every risk. Whether you have concerns about your ballast water, emissions, sludge or any other environmental issue our team of experts can assist you with all the testing, inspection and verification you need, wherever you are in the world. We can certify your fleet as meeting certain standards offering you complete reassurance from a trusted organisation. Our flexible service operates around the clock so we can match the hours that your vessels are in port, carrying out the necessary tests at the most appropriate time to fit in with your schedule.

## SGS MARINE SERVICES 24 HOURS A DAY

SGS Marine Environmental Testing forms part of our extensive Global Marine Services. We have a presence in every major port around the world, so that we are present wherever you need us, while at the same time providing you with one point of contact for consistency. Results, schedules and related information are available 24/7 via LabView, our unique web information system. Through this we give you instant access to everything you need to know and our in port teams can work with all the most up-to-date and accurate information too.

We can provide you with the following services 24 hour a day:

- Advanced waste water treatment system testing or commissioning
- OWS verification or certification testing
- Hazardous materials collection and analyses. Including paint, PCB's, mineral fibres and formaldehyde
- Environmental health testing for Legionella, bacteria and air quality
- Approved USCG testing for compliance for vessels salining under 33 Code of Federal Regulations (CFR) 159.309 while in Alaskan waters and AK Discharge general permit
- Smoke stack emissions testing
- Onboard air quality testing
- IMO MARPOLI USCG pre wash surveys
- Asbestos inspections, audit and remake management
- Noise, vibration and lighting assessments

SGS has a strong focus on supporting the protection of the environment. As such we have been part of many environmental and climate protection projects from the very beginning. With our Climate Change Programme SGS actively supports Compliance Checks as well as verification and greenhouse gas emissions.

## WHY SGS?

SGS is the world's leading inspection, verification, testing and certification company. Recognised as the global benchmark for quality and integrity, we employ over 64 000 people and operate a network of more than 1 250 offices and laboratories around the world. We are constantly looking beyond customers' and society's expectations in order to deliver market leading services wherever they are needed.

We have a history of undertaking and successfully executing large-scale, complex international projects. With a presence in every single region around the globe, our people speak the language and understand the culture of the local market and operate globally in a consistent, reliable and effective manner.

We provide innovative services and solutions for every part of the environmental industry. Our global network of offices and laboratories, alongside our dedicated team, allows us to respond to your needs, when and where they occur. Our reputation for independence, excellence and innovation has established us as the market leader in providing services that improve efficiency, reduce risk and deliver competitive advantage for you.

**TO LEARN HOW SGS SUPPORTS YOU IN  
PROTECTING THE MARINE ENVIRONMENT  
CONTACT [ENVI@SGS.COM](mailto:ENVI@SGS.COM) OR VISIT  
[WWW.SGS.COM/ENVI](http://WWW.SGS.COM/ENVI)**

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