

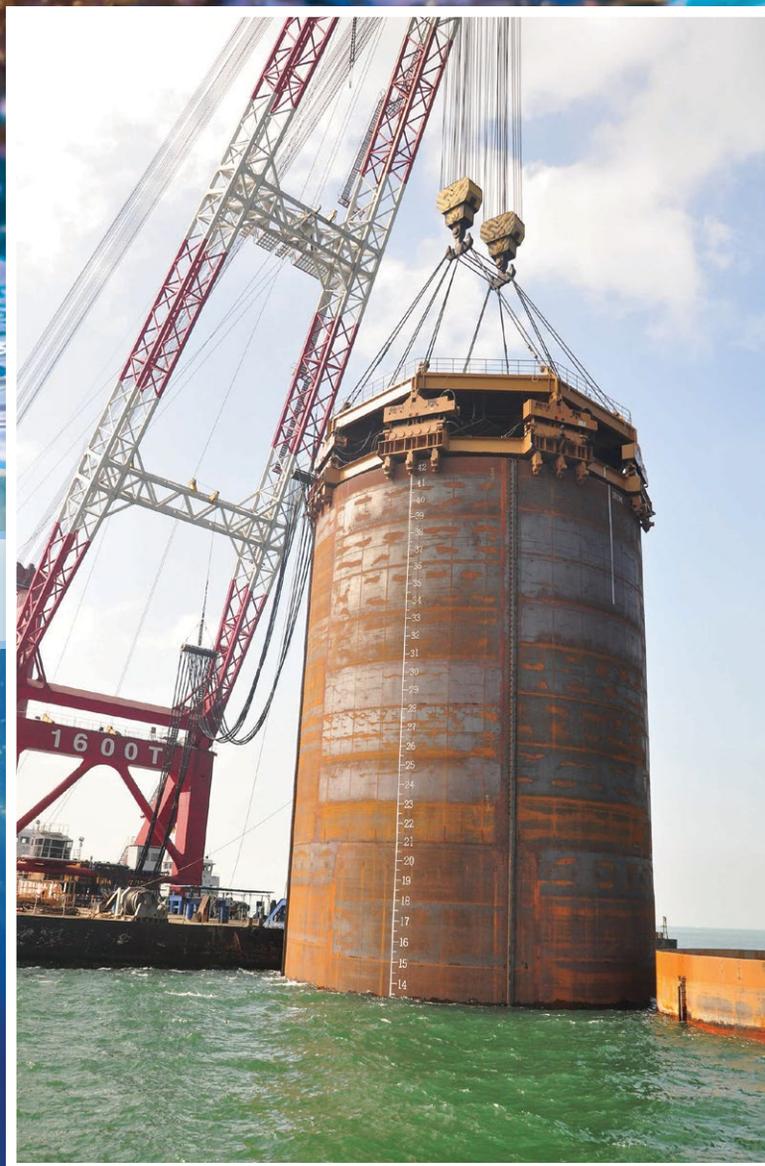


RSC BIO SOLUTIONS

Solutions *you need for* problems *you don't*

By Ryan Fisher





RSC Bio Solutions' products were used during the construction of the Zhuhai-Macau Bridge in China by APE

Courtesy of RSC Bio Solutions

Headquartered in Charlotte, N.C., RSC Bio Solutions was formed by the owners of Radiator Specialty Company (RSC), a 90-year-old company that houses the LIQUID WRENCH® and GUNK® brands. As RSC's sister corporation, RSC Bio Solutions is provided with chemical manufacturing, distribution, SAP and ISO quality systems.

In 2013, RSC Bio Solutions acquired a majority ownership interest in Terresolve Technologies, Ltd., a leading manufacturer of readily biodegradable hydraulic fluids, functional fluids and lubricants for both marine and land applications. Terresolve brought with it a stellar, 17-year track record and an extensive lubricant product portfolio. Besides its EnviroLogic® branded technology, RSC Bio Solutions is also the exclusive North American licensee of SAFECARE®, an innovative line of cleaners, degreasers and solvents for industrial markets. The company also distributes GreenSorb®, an easy-to-use, non-leaching, natural absorbent. These partnerships allow RSC Bio Solutions to provide complementary

solutions to more customers, while streamlining both the ordering and servicing process.

The science behind its products may be complex, but RSC Bio Solutions was founded on a simple idea: work and world can coexist. But at the same time, there are still jobs to do. So even with lubricants, cleaners and absorbents, companies have to do more than well; they have to do better. That means ensuring the safety of employees and the general population cannot come with performance compromises. It means ensuring that waterways and aquatic life are not harmed. It means no drop-off in productivity. And all of that is possible, while keeping up with regulatory changes and requirements.

With the current regulatory changes stemming from 2013 Environmental Protection Agency (EPA) Vessel General Permit (VGP), RSC Bio Solutions is uniquely positioned to provide a wide range of compliant, environmentally acceptable lubricants

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(EALs) for pile driving contractors, foundation drillers and marine construction companies. The regulations surrounding the VGP requirements can be confusing, but they don't have to be. The EPA, under the 2013 VGP, now requires that all vessels over 79 feet use an EAL in all oil-to-water interfaces unless technically infeasible. It is expected that most vessels seeking coverage under this permit will be greater than 79 feet in length; however, vessels less than 79 feet are also eligible for permit coverage under this permit or those vessels may seek coverage under EPA's small Vessel General Permit (sVGP), as available and appropriate.

Additional regulation for pile driving contractors includes the Clean Water Act (CWA) of 1972, which is the principal federal statute protecting navigable waters and adjoining shorelines from pollution. Since its enactment, the CWA has formed the foundation for regulations detailing specific requirements for pollution prevention and response measures. Section 311 of the CWA addresses pollution from oil and hazardous substance releases, providing EPA and the U.S. Coast Guard with the authority to establish a program for preventing, preparing for and responding

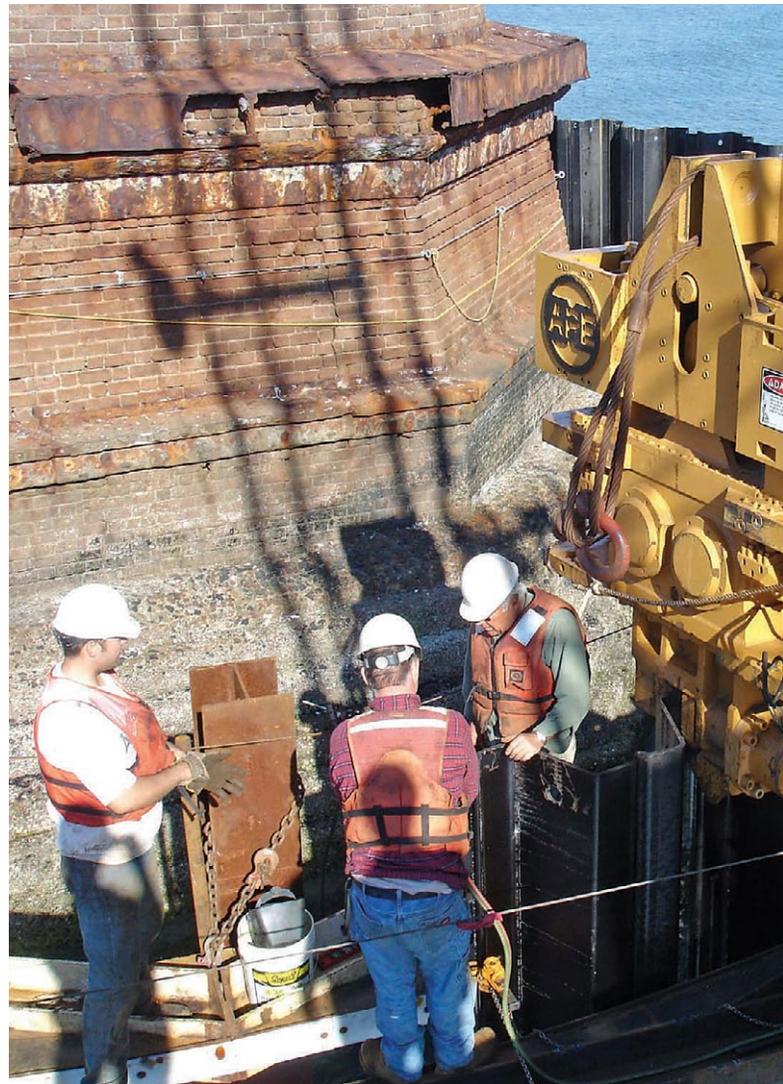
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to oil spills that occur in navigable waters of the United States. EPA implements provisions of the CWA through a variety of regulations, including the National Contingency Plan and the Oil Pollution Prevention regulations.

Under the legal authority of the CWA, the Discharge of Oil regulation, more commonly known as the "sheen rule," provides the framework for determining whether an oil spill to inland and coastal waters and/or their adjoining shorelines should be reported to the federal government. In particular, the regulation requires the person in charge of a facility or vessel responsible for discharging oil that may be "harmful to the public health or welfare" to report the spill to the federal government. The regulation also establishes the criteria for determining whether an oil spill may be harmful to public health or welfare, triggering the reporting requirements. The criteria are:

- Discharges that cause a sheen or discoloration on the surface of a body of water;
- Discharges that violate applicable water quality standards; and
- Discharges that cause a sludge or emulsion to be deposited beneath the surface of the water or on adjoining shorelines.

Discharges of petroleum-based lubricants meet these reporting requirements. In some cases, discharges of EALs do



American Piledriving Equipment (APE) is a frequent customer and relies on RSC Bio Solutions' products for various applications



Manhattan
Road & Bridge

Manhattan Road & Bridge provides bridge pile driving and heavy infrastructure construction services throughout Arkansas, Kansas, Louisiana, Missouri, Oklahoma and Texas.

Manhattan Road & Bridge
5601 South 122nd East Ave.
Tulsa, OK 74146
Phone: 918-437-9560
Fax: 918-437-9563
www.manhattanroadandbridge.com

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not require the same response as petroleum-based lubricants, and fines and remediation costs are often significantly reduced for operators using EALs. When spills occur, pile driving contractors need to be sure they won't be open to significant fines and remediation costs, and the products available from RSC Bio Solutions reduce those risks. At the same time, the company's products also provide similar or better performance than petroleum-based lubricants.

For example, the EnviroLogic® 146 hydraulic fluid is a readily biodegradable and bio-based ISO 46 grade hydraulic oil that is uniquely suited for pile driving applications. Additionally, EnviroLogic® 3046 is a high performance, readily biodegradable synthetic ISO 46 grade hydraulic fluid intended for severe service, extreme high temperature (250°F), low temperature (-40°F) and high pressure (5,000+ psi) applications and when a long fluid life is needed. In addition to directly replacing petroleum oil-based hydraulic fluids of the same viscosity, these products have reduced environmental impact in the event of a leak or spill, as they are readily biodegradable and non-sheening. Important for many pile

driving contractors is that the EnviroLogic 146 and EnviroLogic 3046 are certified as EPA EALs.

RSC Bio Solutions' SAFECARE® series of cleaners is designed for marine construction applications where performance and safety are of equal importance. These powerful, industrial cleaners, degreasers and solvents are readily biodegradable EALs and VGP compliant. They are safe to use, store and dispose of. Plus, depending on the task, these hardworking, concentrated products can be used full strength or diluted. The uniquely engineered products are effective for use in rig washing, deck washing, parts washer cleaner, concrete and floor cleaning and general equipment cleaning.

By incorporating the proven products from RSC Bio Solutions, pile driving contractors can reduce risks without reducing performance. That means easier cleanups, lower fines, a healthier environment and a job done right. RSC Bio Solutions' commitment to their customers ensures that pile driving contractors will have access to solutions they need for problems they don't. ▼