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Restoring Ships, Barges and Marine Assets

Summer 2026

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SEAFORTH
ENVIRONMENTAL SERVICE LTD.

Client Profile

Seaforth Environmental is a British Columbia-based marine operations and environmental services company with over 45 years of experience across the marine sector.

Operating a fleet of tugboats, landing craft, barges, and water taxi vessels with approximately 30 personnel, the company delivers integrated marine solutions to some of Canada's largest energy and marine infrastructure organizations.

In its approach to asset maintenance, the company prioritizes solutions that keep equipment in service. This means focusing on the long-term structural integrity of marine and steel assets exposed to harsh coastal conditions, controlling recurring maintenance costs across the fleet, and meeting environmental standards on the water. Crucially, any maintenance work must ensure minimal operational downtime to preserve vessel availability.



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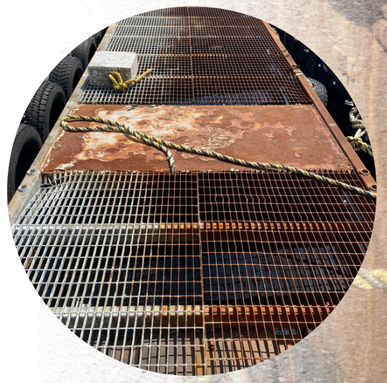
Challenge

For a marine operator, maintaining a fleet that meets safety, reliability, and environmental standards is paramount. Across two working barges, steel surfaces above the waterline showed significant corrosion from years of continuous salt exposure, tidal wetting, and deck loading. This compromised not only long-term structural integrity but also the operational readiness the fleet depends on.

A full replacement was undesirable due to high costs and extended time out of service. The operator required a restoration solution that addressed all key concerns: it had to arrest existing corrosion rather than cover it, restore barrier protection across the exposed surfaces, and hold up under continuous marine exposure. Above all, the work needed to be carried out with minimal disruption to vessel availability and scheduled operations.







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Solution

AnarPrime™ Ultra was selected to restore corroded steel across two operational barges, totalling approximately 16,000 sq. ft. The system was chosen for its ability to convert existing rust in place and deliver durable protection with minimal time out of service.

The scope covered the larger ramp barge – all corroded areas above the waterline, including walls, exterior sides, and the faces and sides of the ramp – and the smaller crane barge, covering the deck floor and perimeter edges. Surfaces were pressure washed and prepared to the required standard before coating. Two coats of AnarPrime™ were applied as the corrosion-control foundation, followed by one coat of Macropoxy 646, a high-build epoxy that adds film thickness and barrier resistance. A finish coat of Sher-Loxane 800 closed the system, providing gloss and colour retention under marine UV and weathering exposure.







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Benefits & Results

Significant Cost Savings

Reduced maintenance costs by minimizing surface preparation, labour requirements, and operational downtime.

No Dry-Docking Required

Enabled on-site coating application without taking vessels out of service for dry-docking, reducing disruption to operations.

Safe and Environmentally Friendly

Provided peace of mind through a water-based, environmentally responsible coating solution that reduces worker exposure to hazardous materials and minimizes environmental impact.









Our Work Plan

1

Surface Preperation

Salt deposits, marine growth, and loose material were removed by pressure washing, followed by the required surface preparation



2

3-in-1 Converter, Primer & Sealer coating

Two coats of AnarPrime™ Ultra were applied to chemically convert existing rust into a stable, anti-corrosion layer, creating a paintable surface and crucial foundation for the coats that follow in a continuously wet marine environment.



3

Middle Coat

One coat of an epoxy was applied to enhance chemical and moisture resistance. Its durable formulation creates a tough protective layer that withstands deck loading, equipment movement, and mechanical impact on working barge surfaces, guarding against wear and abrasion.



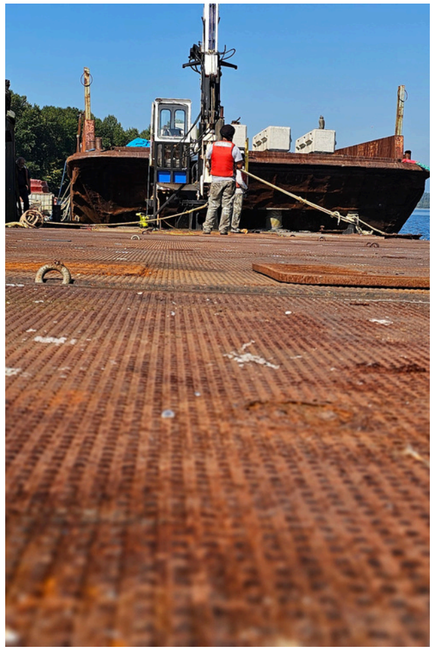
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Top Coat

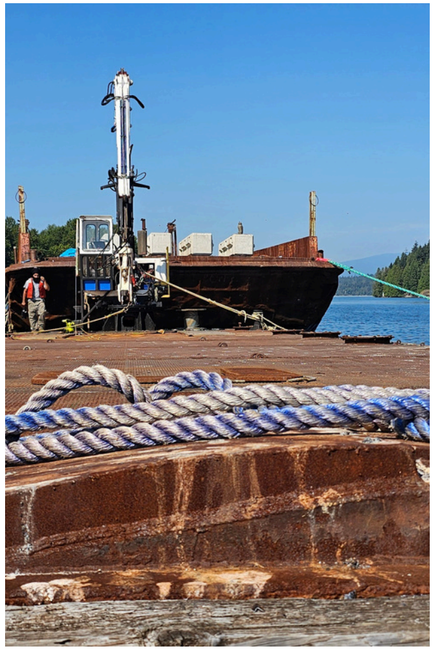
Given the exposure of above-waterline surfaces to continuous salt spray and UV, one coat of a high-performance siloxane-epoxy, was applied over the epoxy. This final layer provides enhanced durability, weathering resistance, and gloss and colour retention.



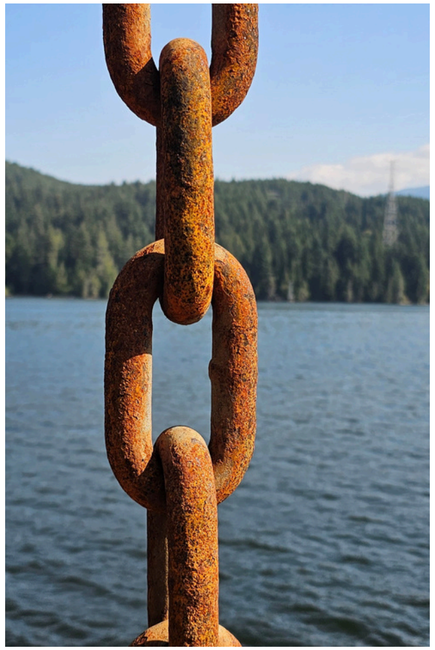
Before

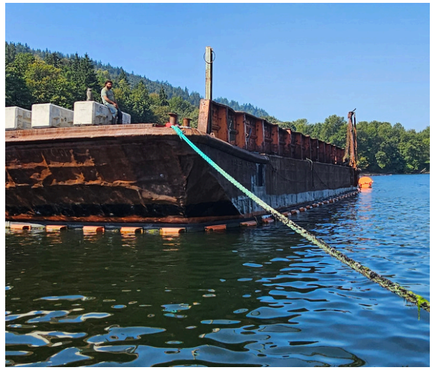












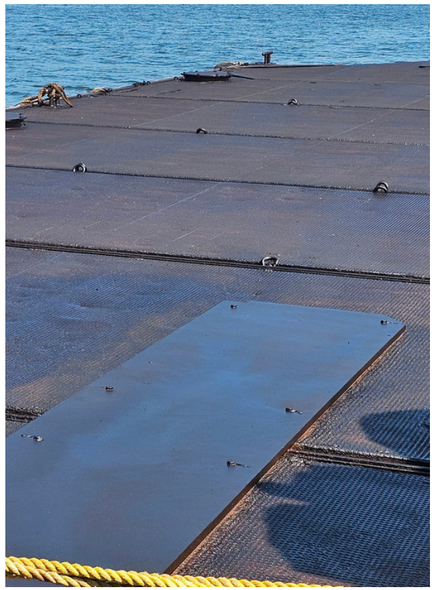




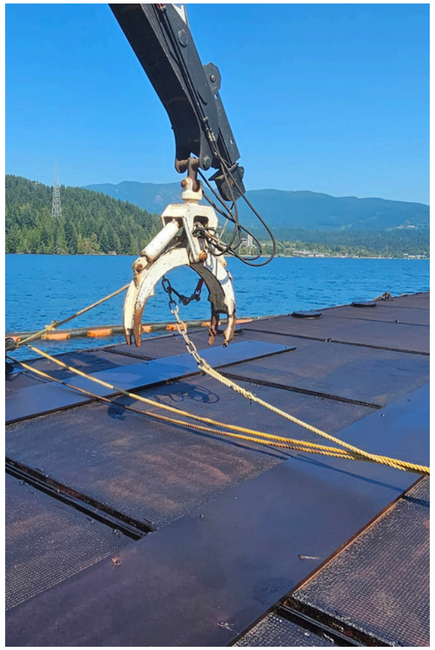




After AnarPrime







Middle coat

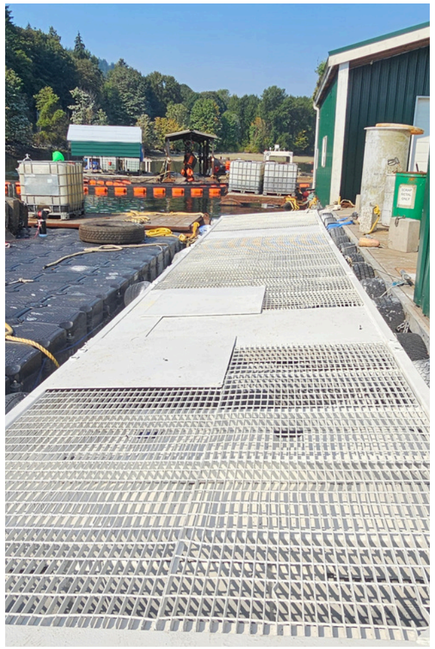




















After Top-coat







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