

# DEFENSE WASHDOWN SYSTEMS

RETROGRADE VEHICLE CLEANING AND AIRCRAFT CORROSION MITIGATION



**RIVEER**<sup>TM</sup>

Engineered Wash Water  
Recovery Systems

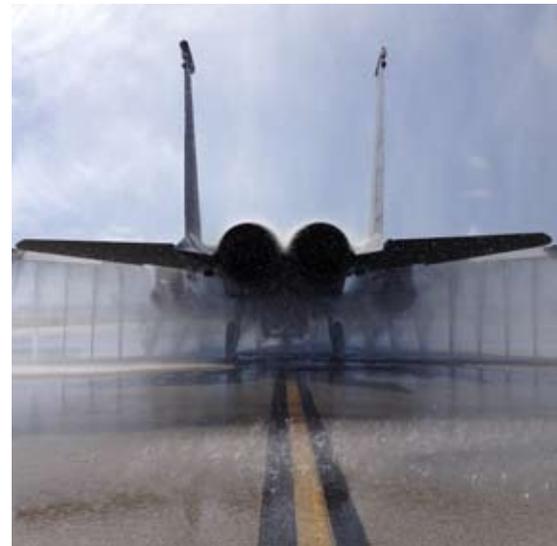
The Solution is Clear with Riveer<sup>SM</sup>

# BIRDBATH

CLEAR WATER RINSE SYSTEM



Adheres to T.O. 1-1-691, Aircraft Weapon Systems Cleaning and Corrosion Control (NAVAIR 01-1A-509, TM 1-1500-344-23-2)



## BIRDBATH CWRS

Fight corrosion before it happens. Riveer™ BirdBath is an automatic Clear Water Rinse System (CWRS) that helps prevent aircraft corrosion quickly and effectively by rinsing the aircraft as it taxis back to the flight line or gate. The low-pressure, high-flow process takes 30 seconds to 2 minutes and can be pre-programmed to change spray patterns depending on the size and type of aircraft. BirdBath can be manually or automatically adjusted to environmental and weather conditions to ensure a thorough rinse.

The spray nozzles which make up the undercarriage rinse were Riveer Engineered specifically for aircraft wash applications to be virtually FOD-proof (Foreign Object Damage). Called APAFN™ or Adjustable Pattern Adjustable Flow Nozzles, these unique tools are machined from stainless steel and are infinitely adjustable.

What's more, the Riveer BirdBath reclaims, filters and recycles up to 80% of the fresh water used for rinsing aircraft. BirdBath CWRS can be installed in-ground or above-ground, which requires less infrastructure modification and associated on-site engineering/environmental considerations than a typical in-ground rinse facility installation (can be procured as equipment rather than an infrastructure project).

Every airfield has different needs and budgets so Riveer offers a wide variety of customization options. Add any number of awesome efficiency-improving features or stick to the basics; either way, your corrosion control operations are sure to improve.

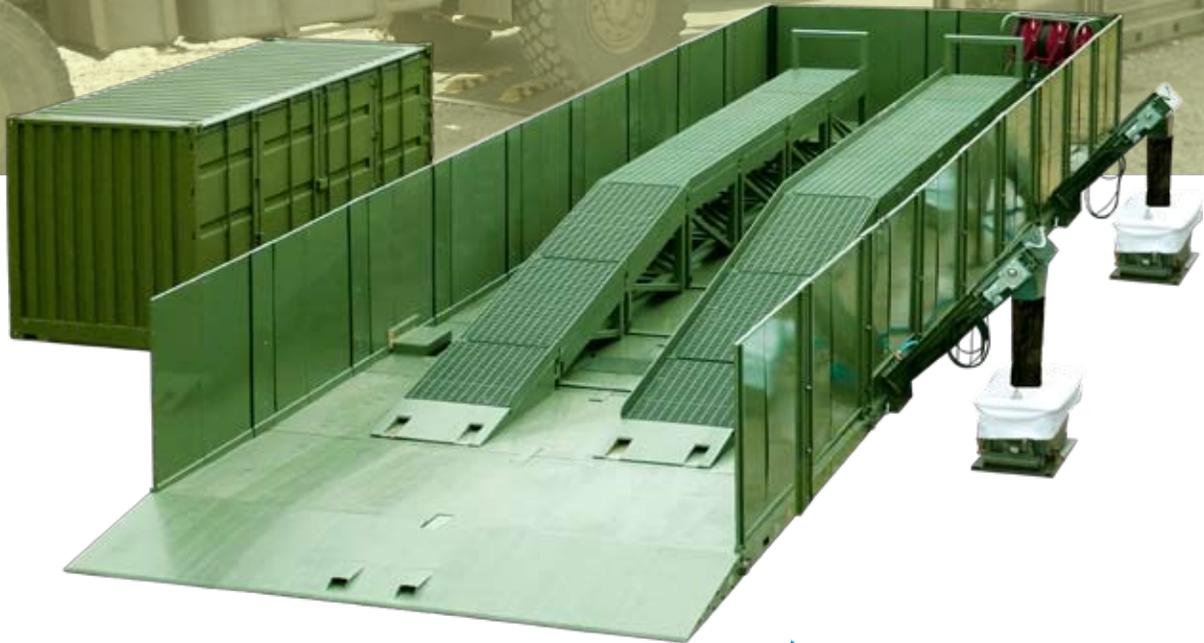
# VWS

## DEPLOYABLE RETROGRADE WASH-DOWN AND INSPECTION RACK

**DoD 4715.5:** Management of Environmental Compliance at Overseas Installations

**4.3.** Pollution prevention shall be the preferred means for attaining compliance, where economically advantageous and consistent with mission requirements.

**4.5.** The DoD Components should use commercially proven solutions, where possible, to achieve, maintain, and monitor compliance.



### WASH AND INSPECTION RACKS

The Riveer™ VWS is engineered specifically for retrograde logistics. It expedites thorough washing of all critical areas on any size vehicle, from tanks all the way down to staff cars. The optional heavy-duty inspection ramp allows access for complete inspection fore and aft in undercarriage, axles, universal joints, wheel wells, etc.

Designed specifically for rapid deployment, VWS is a veteran of CONUS and OCONUS service in theaters throughout the world. The washdown rack captures wash water for proper disposal, as stated in DoD regulations concerning environmental compliance in host countries while its portability aids in staging near points of final departure.

VWS requires only minimal site improvement for rapid set-up and operation and can be shipped anywhere in the world. Six to seven 20' ISO containers (depending which options you choose) contain the entire system. VWS is completely self-contained, and does not require a permanent or portable water source. The system is completely closed loop and meets DoD Directive 4715.56050.16 for foreign deployed wash racks.



# TAWS<sup>®</sup> TOTAL AIRCRAFT WASHING SYSTEM



## TAWS<sup>®</sup> WASH CART

A full power hot water wash and rinse system, the Riveer™ Total Aircraft Washing System produces a high flow rate that cuts cleaning time dramatically by effectively washing large surface areas. The built-in air-powered high-pressure foamer will cover the side of a CH47 in less than a minute.

The system sprays 5 gallons of 140-degree water per minute out of each spray gun, applying a safe-for-aircraft 175 PSI. These specifications meet the stringent TM requirements for aircraft wash, rinse and decontamination procedures. Each gun comes with a 100' long hose on a reel and can easily spray up to 20' to reach tail sections and larger aircraft.

TAWS's best feature is its integrated turbine engine flush technology which provides the low pressure and low flow pumping necessary for cleaning turbines. Equipped with fittings, reels and hoses for various engines including H-47, H-58, H-60, and H-64 aircraft.

Trailer-mounted and completely self-contained, this unit is ready for deployment.



# ARC<sup>®</sup> AIRCRAFT RINSE CART



## ARC<sup>®</sup> RINSE CART

Designed in conjunction with U.S. Navy for aircraft rinsing, the Riveer Aircraft Rinse Cart (ARC) provides dependable performance in brutal environments and remote airfield operations. The ARC's rugged design includes a custom built fully boxed trailer structure with a low center of gravity and adjustable hitch and is transportable in accordance with MIL-STD-209, 1791 and 913.

The trailer mounted unit sprays 10 gallons of cold water per minute out of each of two wash wands, applying a safe-for-aircraft 175 PSI (meeting TM 1-1500-344-23-2). Upgrade to a 4 gun ARC for even faster rinsing, or add hot water to further improve efficiency. Each gun comes with a 100' long hose on a reel and can spray up to 40' making it easy to reach tail sections and larger aircraft.

ARC's high flow rate cuts rinsing time dramatically by efficiently rinsing large areas. Equipped with a 1000 gallon water tank, water-cooled diesel generator and an advanced AGM battery, ARC was made for extended remote use.



# DEFENSE WASHDOWN SYSTEMS

DOD AND USDA  
COMPLIANT



## FROM FRONT LINE TO FLIGHT LINE, RIVEER HELPS PROTECT MILITARY HARDWARE

The Defense Washdown Systems is a family of Riveer™ technologies developed specifically for the critical issues of retrograde washdown, maintenance, and corrosion mitigation. This document is intended to present a high level overview of these solutions for Environment, Corrosion, Logistics and Procurement teams assigned these duties. Additional information is available at request.

“Identify and assess potential adverse impacts of the wash operation and take all reasonable actions necessary to minimize the effects of used water and contaminants on the local environment. Contaminants must be captured or removed from rinse water to avoid contamination of runoff areas.”

(AFPMB Technical Guide No. 31: E5)

“All aircraft stationed within 1.25 miles of saltwater shall be clear water rinsed at least once every 15 days, and that all aircraft flown at low level (under 3000 ft.) over saltwater require a CWR after the last flight of the day.”

(NAVAIR 01-1A-509, TM 1-1500-344-23, et al)

## ABOUT RIVEER

Riveer™ is a global leader in Engineered Wash Water Recovery Systems for commercial, industrial, municipal and military applications. Riveer technology addresses the unique challenges of pressure washing hardware, vehicles and aircraft, followed by the recovery and filtration of wash water. Having developed the first environmentally-compliant wash rack, Riveer's product line today includes well known MudMaster™, BirdBath, TAWS®, RTS and Phosphater™ systems, as well as turnkey design/build systems installations. Riveer's engineering team, ISO 9001 certified manufacturing process and world-wide service capabilities make Riveer the go-to name in wash water recovery and corrosion mitigation systems that deliver high performance, ease of use and unmatched dependability.

The solution is clear...with Riveer.



Riveer employs a quality management system that is ISO 9001:2008 certified.  
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Recovery Systems