



Veolia Environmental Services

One source. Dynamic solutions for plant and equipment cleaning

Veolia has resources to custom engineer each solution, from equipment through to solvents, which provide cleaning solutions that ensure your operations are kept at optimum operational capability and within tight budget constraints.

Superior Service Package Capability

- > Specialist equipment design capability
- > International resource base through the international group
- > Emergency response - 24hrs/7days a week
- > Sub contractor management expertise
- > Highly trained and experienced operators
- > Quality controlled systems - ISO 9001 certified
- > Environmental excellence - ISO 14001 certified
- > Strong safety culture - AS 4801 certified

Committed to Exceeding your Safety and Environment Expectations

Veolia Environmental Services are committed to meeting your expectations in a safe, responsible and environmentally friendly manner that respects the safety and health of our employees, our customers and the communities in which we operate.

At Veolia Environmental Services, safety planning and awareness is a standard feature of our design process and field operations planning. We are compliant with legislation and provide safe working environments for all of our operational personnel. We have developed a safety culture which is totally committed to the principle that all occupational injuries are preventable.

Focused on the Long Term

We are committed to establishing long term partnerships with our clients. Our workmanship is of the highest quality and we definitely do not cut corners. Through an extensive planning phase, including the detailing of your critical path objectives, we ensure that we minimise your plant's downtime and keep within budget.

Related Services

- > Pipeline inspection and rehabilitation
- > Emergency response to spills & pump-outs
- > Design, construct and manage water treatment systems
- > Refractory management
- > Soil remediation
- > Hazardous and non-hazardous waste management



Veolia Environmental Services – call us for complete environmentally sound solutions:

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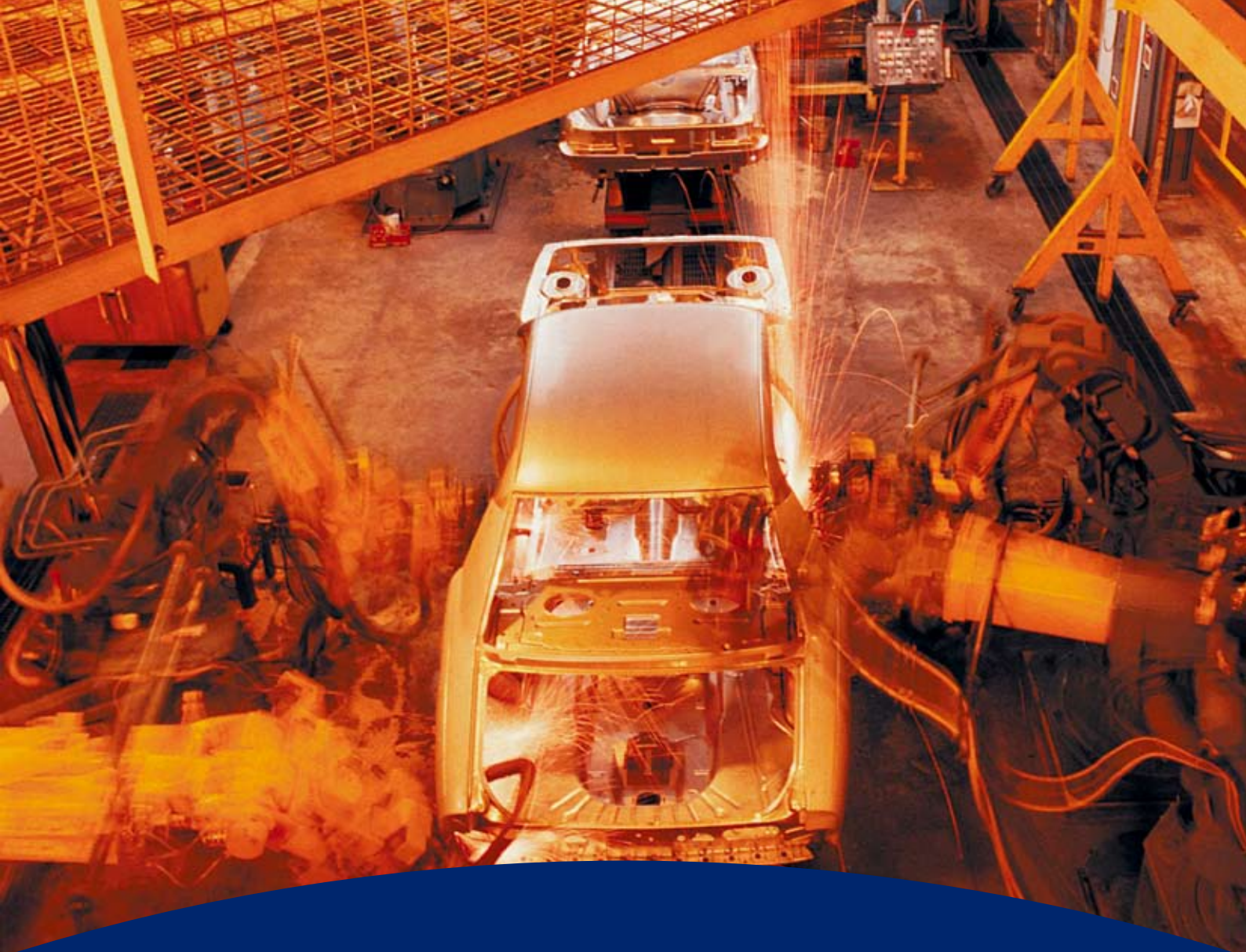
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ORG-COL-000-031-2





Industrial Cleaning

One Source. Dynamic Solutions.



Water Jetting

High Pressure

- > 500 bar to 2000 bar pressure (ultra-high)
- > 15 L/min to 250L/min flow rates
- > Wide range of lances and nozzles for different applications
- > Abrasives/chemical additives expertise

Ultra-high Pressure

- > Specialist equipment for cutting a range of materials:
 - alloyed construction materials
 - concrete
 - ceramics
 - composites
- > Robotic heat exchanger and condenser bundles cleaning
- > UHP pump units for hazardous environments

APPLICATIONS

Tube bundle & condensor cleaning
Vessel, column & tank cleaning
Process line cleaning
Internal mechanicals cleaning
Valves & spools cleaning
Cold cutting
Wet abrasive blasting
Surface preparation
NDT preparation
Concrete demolition
Building washdowns & pathway cleaning



Vacuum Loading

- > Efficient removal of dusts, solids and liquids from confined spaces and pits
- > Unit storage capacity - 4m³ to 10m³
- > Range of hose sizes - 50mm to 200mm
- > Positive displacement blowers
- > Liquid ring vacuum pumps - enables removal of debris from lagoons, ponds and pits with removing surface liquids

APPLICATIONS

Unloading catalyst from reactors
Unloading vessels, columns and tanks
Heavy sludge removal from holding pits, drains, vessels, tanks etc
Both wet and dry product recovery
Waste and product spills
Environmental clean-ups
Dust containment
General house keeping
High temperature material removal
Cooling tower cleaning



Robotic Cleaning Technologies - Tanks & Ponds

Veolia utilises a number of robotic technologies for tank and pond cleaning which greatly reduces the requirements for manned entry into high-risk work environments.

Manway Cannon

- > Ideal for cleaning large diameter tanks
- > Operated using remote controlled hydraulics



Hydrodozer

- > Ideal for cleaning pits, tanks, interceptors, ponds and cooling tower basins
- > Configurations include:
 - dozer with blade
 - dredge using high volume pump with designed suction nozzles
 - rigging for HPW or cutter stock nozzle directional flows



Pelican Dredge

- > Ideal for silt/sludges from lagoons, tailings dams, sewage ponds, lake and waterways
- > Self propelled cutter suction dredge causes minimal surface disturbance
- > Operates in shallow water situations





Materials Handling

Veolia not only cleans but provides an integrated solution through the provision of waste material recovery and processing technologies:

Catalyst Handling

- › Catalyst removal from large bed style reactors to small driers
- › Inert entry and breathing apparatus expertise
- › Recycling or disposal options available for spent catalyst

Sludge Processing and Disposal Belt Press

- › Suitable for larger volumes such as sewage treatment ponds, tailings dams, inorganic slurries and semi-organic, non greasy/oily sludges
- › Utilises a centrifugal submersible pump which circulates sludge to improve feed consistency.

Plate Filter Press

- › Suitable for smaller jobs, inorganic sludges, slurries and tank cleanouts with non-oily sludges
- › Potential for secondary pressing for maximum water content removal.

Centrifuge

- › Suitable for oil sludges from tanks, refinery triple interceptors and hydrocarbon holding tanks.

VHSS Unit

- › Suitable for oil sludges removed from refinery tanks
- › Enables recovery of material for refinery feed stock reducing waste disposal costs.

