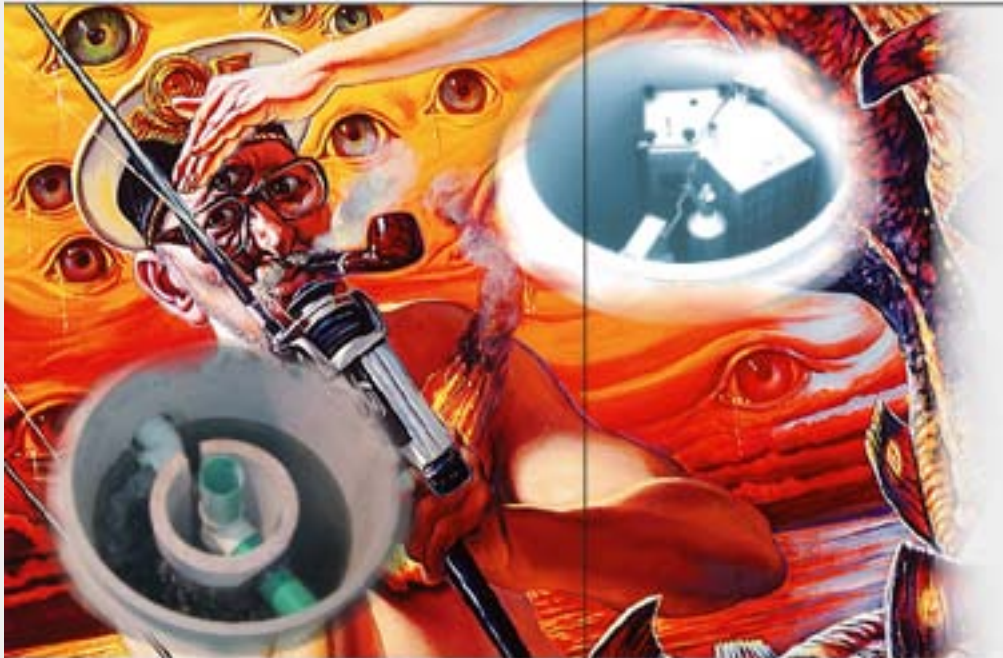


ecoStop. Technology that puts you clean ahead of the rest.

ecoStop

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ecoStop

spill control
system

Water Treatment for the World

601 Brickell Key Drive, Suite 702, Miami, Florida 33131, USA

Phone.: +1 (305) 372-1104 Fax: +1 (305) 328-9312

e-mail info@freytech.com <http://www.freytech.com>

FREYTECH INC.



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ecoStop® is a **Petroleum Spill Control System** for any facility or site, where the potential for a petroleum spill exists (gasoline stations and other fueling facilities, electrical transformers, generators, oil storage areas, transportation fueling systems).

The system is installed in-line and downstream from any segregated petroleum containment drainage area.



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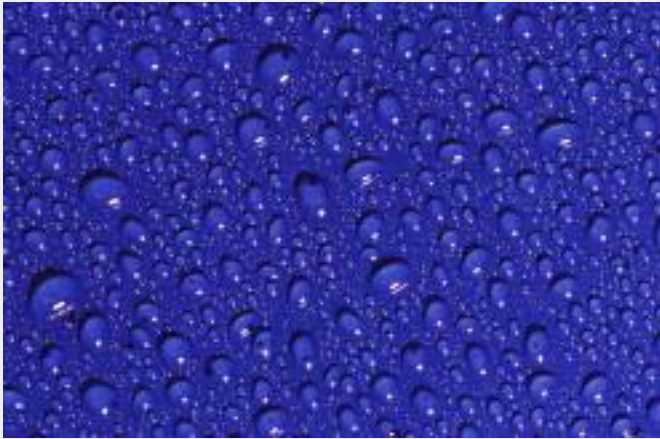
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Did you know that one single oil droplet can contaminate one hundred liters of pure drinking water?

With Ecostop, spill control is safer than ever before.



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**Can you afford the cost of a major spill?
With EcoStop you can!**

The costs associated with an oil spill are high, not just for our environment but also for your company.

EcoStop provides the safest and most cost-effective method to control spills.



ecoStop. Technology that puts you clean ahead of the rest.



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LEGAL ISSUES UPDATE
By George W. Kenley, CIMA Legal Counsel

Supervisor liability: Negligent manager imprisoned for environmental spill

A federal court of appeals has upheld the 10-year conviction of a company's manager of operations, ruling that ordinary negligence which caused environmental harm is a sufficient basis to find criminal liability under the federal Clean Water Act (U.S. v. Harwood, 9th Cir., No. 97-8088).

The defendant was convicted of negligently discharging a harmful quantity of kerosene oil into the Stagnay River in violation of the Clean Water Act. The federal district in Alaska imposed a sentence of 9 months in prison, 6 months in a halfway house, 6 months of supervised release and a \$5,000 fine on Mr. Harwood, who was the superintendent for the White Pass & Yukon Railroad.

Failure to Supervise Employee Cited

The basis for his conviction was the failure to supervise a backhoe operator employed by one of the railroad's independent contractors. During a rock-quarrying project, the backhoe operator accidentally ruptured an unprotected petroleum pipeline running parallel to the track. As the result of the rupture, approximately 3,000 gallons of kerosene oil leaked down an embankment into the adjacent Stagnay River.

Statute Imposes Criminal Penalties for Ordinary Negligent Conduct

According to the court, the criminal provisions of the Clean Water Act constitute "public welfare legislation" designed to protect the public at large from the potentially dire consequences of water pollution.

As such, the statute may impose criminal penalties on a person for ordinary negligent conduct without violating an individual's constitutional guarantee of due process. The court also rejected the defendant's argument that the government must prove criminal negligence (i.e., a gross deviation from the standard of ordinary care by a reasonable person) in order to convict.

In this case, there was no evidence that the defendant knew the pipeline was at risk or that he directed the activities of the backhoe operator whose equipment ruptured the pipeline. It was sufficient that Harwood was the person in charge of the project and was responsible for directing the daily activities of the employees.

Decision Increases Criminal Exposure of Management Personnel

The decision significantly increases the criminal exposure of executive and management personnel for Clean Water Act violations. Those individuals with knowledge of the conduct which causes environmental harm who fail to take corrective action or who fail to exercise reasonable care to prevent such harm may well face criminal prosecution. Actual knowledge that the conduct violates the law is not required to sustain a conviction. ■

There was no evidence that the defendant knew the pipeline was at risk or that he directed the activities of the backhoe operator whose equipment ruptured the pipeline.

The Clean Water Act may impose criminal penalties on a person for ordinary negligent conduct without violating due process.

Periodic reports from CIMA legal counsel George Kenley to legal counsel which can impact the operations of construction/equipment manufacturers and suppliers on how companies can address these issues. For more information about these reports, contact Kenley at Kenley, Evans and Reid in Chicago, IL, phone 703-762-9828 or email info@ced.com.

Are you meeting your Spill Control Requirements?

The EcoStop detects spills automatically and therefore eliminates the most common failures in traditional spill control systems, human error.



ecoStop. Physical Principles.

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Oil and water have a different specific gravity:

Oil: 0.85 - 0.95

Water: 1.00

Free, non-emulsified oil floats on water:

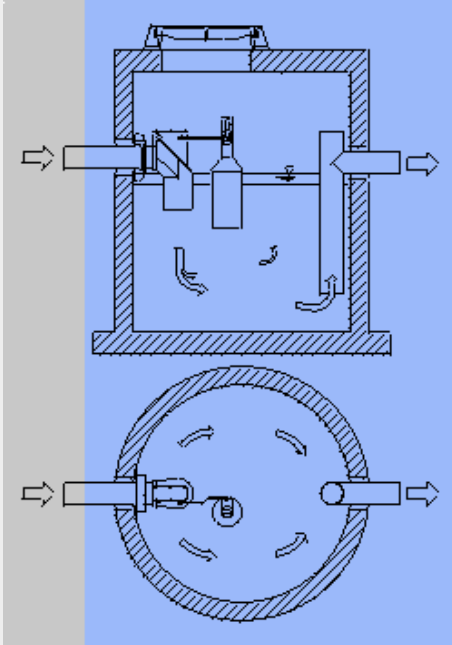
Accumulated oil builds an oil-layer by displacing water.



ecoStop. Working Principle.

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Ecostop consists of a standard 4" precast manhole,

which is equipped with an automatic closure valve and a T-outlet pipe.



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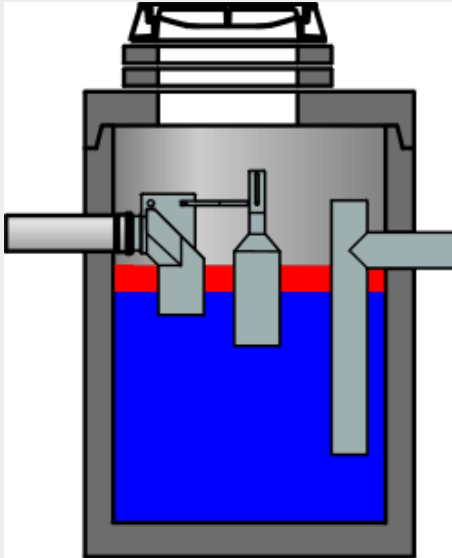
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The EcoStop Spill Control System is designed to control spills at petroleum storage or fueling facilities.

A spill situation shuts down EcoStop's closure valve, preventing the discharge of free oil to municipal sewers or direct discharge outfalls.

ecoStop. Working Principle.

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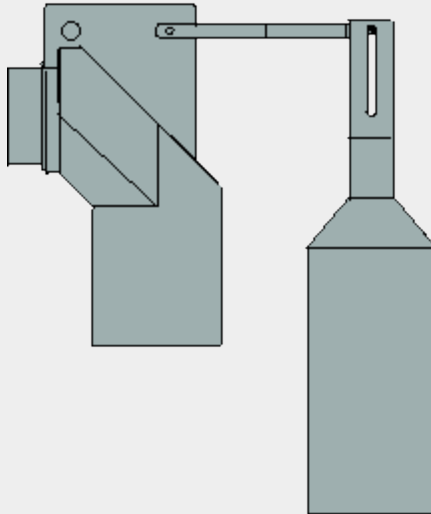
The EcoStop tank is equipped with an automatic shut-off valve (patented).

This float actuated closure device stops the flow through the system when the maximum oil storage capacity or a certain liquid level in the EcoStop chamber is reached.

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The ecoStop Spill Control Valve

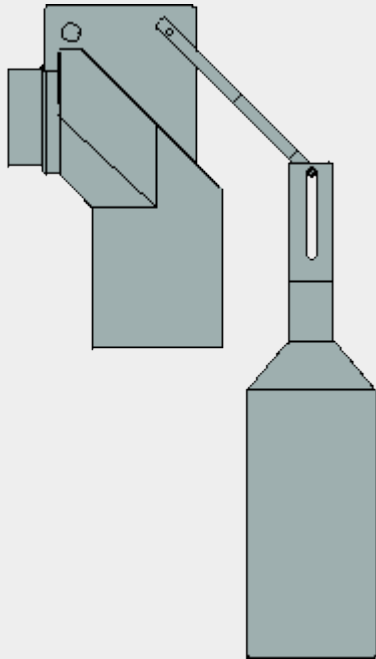
The valve is connected to a calibrated float, which floats in water and is submerged in oil.



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The ecoStop Spill Control Valve

In its closed position, the valve is tight up to 0,5 bar (5m-water column) or 16 feet TDH.



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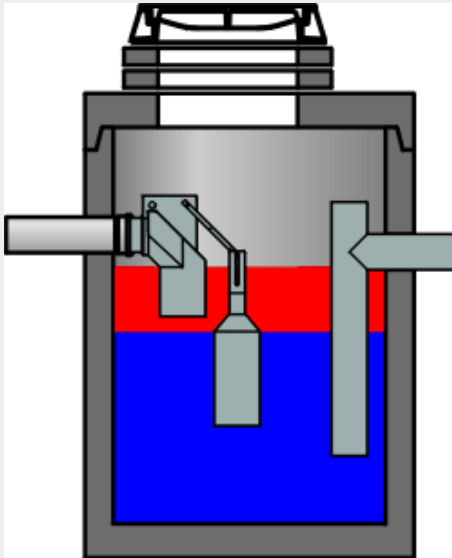
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Ecostop maintains the spill on site

where it can be contained either below grade (i.e. an underground storage tank or a large diameter pipe) or in an above grade, diked area. The capacities of this upstream storage reservoir should be large enough to accommodate typical amounts of a tank truck oil-spill (with an additional capacity, safety factor).

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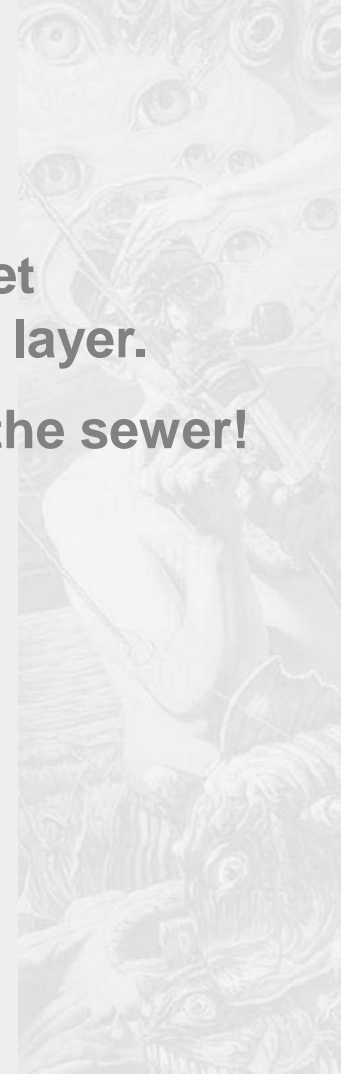
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Without ecoStop

the outlet pipe will get submerged in the oil layer.

Oil is discharged to the sewer!



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Click on graphic once to start and stop animation



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ecoStop Model	max. flowrate [gpm]/[l/s]	ecoStop chamber [ft.]/[m]	inlet pipe [inch]/[mm]	outlet pipe [inch]/[mm]
4"	50/3	*	4/100	*
6"	160/10	*	6/150	*
8"	320/20	*	8/200	*
> 8"	> 320/20	custom design - please contact ecoTECHNIC engineers		

*) Sized per individual ecoStop design



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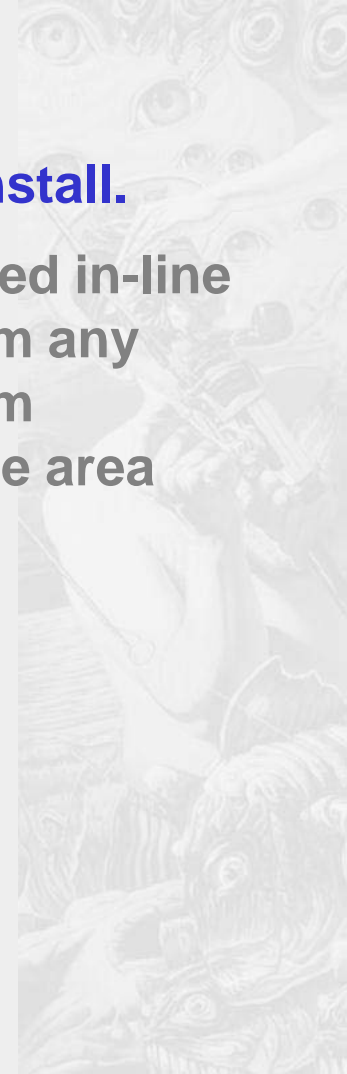
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Ecostop is easy to install.

The system is installed in-line and downstream from any segregated petroleum containment drainage area treating runoff.



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Ecostop is easy to install.

Ecostop comes pre-installed in a standard precast concrete manhole or in an Ecosep Oil/Water Separator.

Ecostop can be retrofitted to an existing drainage system.

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The **ecoStop®** is tested in accordance with the European Standards (pr-EN858 and DIN 1999).

Full size test certificates for all three standard model sizes are available.

• [Test certificate LGA Wuerzburg](#)

Zweigstelle Würzburg Institut für technische Gebäudeausrüstung und Siedlungswasserwirtschaft		 Landesgewerbeanstalt Bayern
Prüfzeugnis - Test certificate - Nr. 4960238-01		
A - Ausfertigung		
Betreff	Zulassungsprüfung eines Abscheiders für Leichtflüssigkeiten	
Reference	Testing for proval of a separator for light liquids	
Auftrag vom - Order from	22.07.1996	
Eingegangen am - Received at	22.07.1996	
Prüfstück	Koaleszenzabscheider ECOSEP Typ A und Typ B aus Beton mit selbsttätigen Abschluß und integriertem Schlammfang 1,0 m ³ NG 3	
Test sample	Coalescing separator ECOSEP Typ A and Typ B of concrete with automatic closure device and sludge trap combined 1,0 m ³ NS 3	
Tag der Prüfung - Day of testing	24./25.07.1996	
Ort der Prüfung - Place of testing	LGA, Würzburg	
Zusammenfassung Summary	Alle Anforderungen erfüllt. All requirements fulfilled.	
Anlagen Enclosures	Zeichnung Nr. 3-100137-00 und 3-100288-00 Drawing no. 3-100137-00 and 3-100288-00	
<small>Jede Veröffentlichung - auch in Kürzung oder Auszug - bedarf der vorherigen Zustimmung der LGA. LGA-WUE\DATA\MWUE\DOCVGS\60238-01.DOC / Seite 1 von 10 L.G.A. • 955 • Dinkelsbühlstraße 31 • D-97082 Würzburg Telefon (09 31) 41 96-100 • Telefax (09 31) 41 96-100</small>		

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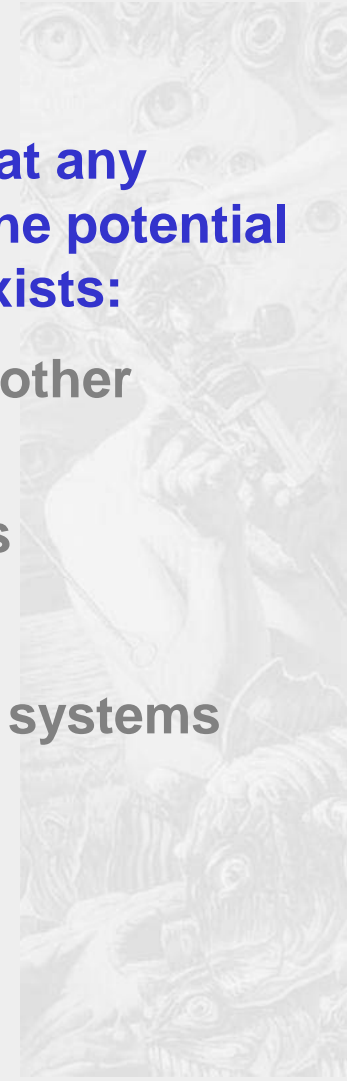
ecoStop may be used at any facility or site, where the potential for a petroleum spill exists:

Gasoline stations and other fueling facilities

Electrical transformers

Oil storage areas

Transportation fueling systems



ecoStop.
All Clear. ecoStop at a glance.

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Catastrophic oil spill control

A inlet shut-off valve (patented) makes EcoStop the industry standard in providing the highest environmental protection against discharge of petroleum spills at your facility.

Watertight to 0,5 bar pressure (16 feet TDH)

The outstanding test results achieved at noted testing institutions show that EcoStop will be able to meet even tougher future standards.

High operational reliability

No external energy supply is required, no electrical parts and constructed only of stainless steel components.



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Easy to install

The system is prepackaged in a standard precast concrete manhole.

Easy to retrofit

To existing concrete separators or manholes.

An investment that is built to last

Due to the use of stainless steel components and high strength precast concrete hosts.

Specified by NYS Power Authority.



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• [ecoStop brochure \(english\)](#)

B) Operation&Maintenance:

• [ecoStop o&m manual](#)

C) Sizing&Dimensioning:

• [ecoStop design sheet](#)

D) Specification:

• [ecoStop generic specification](#)

E) Test Certificates:

• [ecoStop Test Certificate LGA Wuerzburg, Germany \(English/German\)](#)

H) References:

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Water Treatment for the World

601 Brickell Key Drive, Suite 702, Miami, Florida 33131, USA

Phone.: +1 (305) 372-1104 Fax: +1 (305) 328-9312

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