

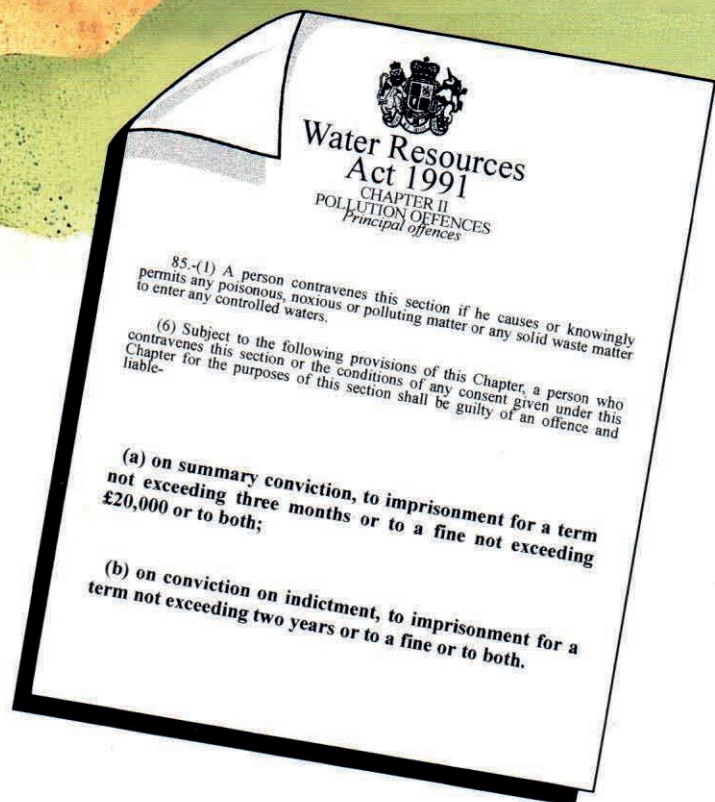
# INTERCEPTORS

DESIGNED TO PROTECT  
THE ENVIRONMENT  
FROM CONTAMINATION  
BY OIL, PETROL AND  
CHEMICALS IN  
RAINWATER.

# SEPARATORS



The mouth of the River Omore, Bridgend  
( see back page )





## 1. FULL RETENTION INTERCEPTOR - TRADITIONAL



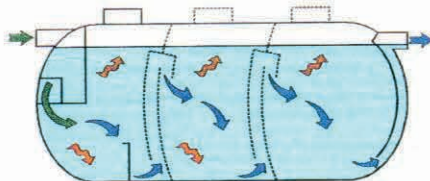
**NS70 FR3 -**

3 stage Full Retention Interceptor / Separator for a civic amenity waste transfer station with a high volume of grit and debris (discharge to foul sewer),  
 - London Borough of Hillingdon.

### APPLICATIONS

- Waste depots •Grit Traps •Land reclamation
- Cattle markets •Vehicle washdown •Farm slurry

Traditional 1, 2 or 3 chamber 'gravity' separator based on 6 minutes retention of a storm of maximum 50mm/hr rainfall intensity. Relies on the ability of oil and petrol to float in water. Gives relatively low quality effluent levels, acceptable in low sensitivity areas or where discharge is to the foul sewer.



## 4. BYPASS INTERCEPT



**NS150 BP -**

One of 13 Traditional Bypass Interceptors®  
 - Tarmac Construction, M65, Blackburn Bypass

### APPLICATIONS

- Motorways •Large car parks •Superstores
- Airport runways •Trunk roads •Docksides

## 2. FULL RETENTION FILTERCEPTOR®

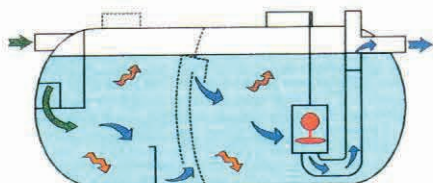
'State of the art' interceptor giving effluent quality levels equivalent to Class 1 of the proposed European standard PrEN 858-1 (5ppm of residual oil under test conditions). Fitted with a Camplas Envirofilter (patent pending) a combined micro coalescent filter and automatic hydrocarbon closure device, designed to shut the outlet in the event of a major oil spillage.



**NS58 FC3-NRA - ( Environment Agency )**  
 - Heavy Plant Depot, Bridgend

### APPLICATIONS

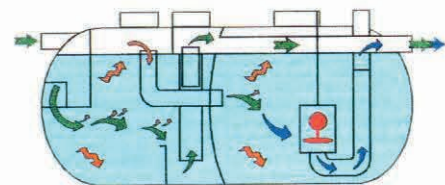
- Garage forecourts •Scrap yards •Lorry parks
- Waste depots •Aircraft refuelling
- Rail & sea terminals •Military bases
- Motorway junctions •Heavy plant depots
- Transformer stations •Oil tank bunds



(Pat. Pending)

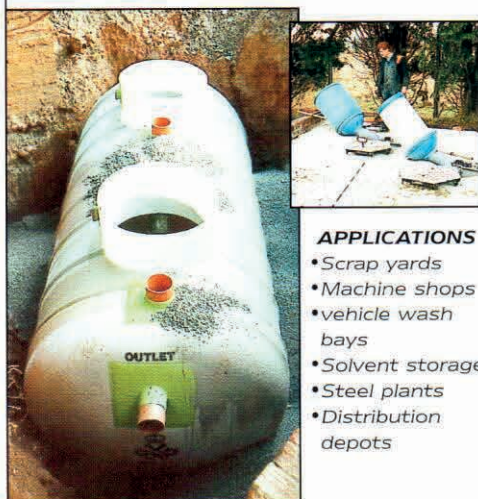
## 5. BYPASS FILTERCEPT

As 4 above but fitted with a Camplas 'Envirofilter' (patent pending) in the treatment chamber giving the equivalent of Class 1 effluent quality to PrEN 858-1 (5ppm of residual oil under test conditions) for the first 10% of a storm of 50mm/hr intensity (i.e. 5mm/hr rainfall). Fitted with a 'Geodisc' (patent pending) automatic hydrocarbon closure device to shut the outlet from the treatment chamber in the event of a major oil spill.



(Pat. Pending)

## 3. ABSORPTION FILTERCEPTOR®



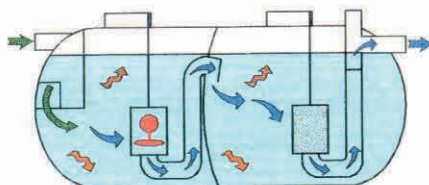
**NS15 AB FC2 -**

### APPLICATIONS

- Scrap yards
- Machine shops
- vehicle wash bays
- Solvent storage
- Steel plants
- Distribution depots

The latest development in interceptor technology for certain difficult contaminants in waste water which will not readily separate by gravity or filtration, such as soluble & emulsified oils, solvents and detergents.

Soluble Oil Absorption Filterceptor®, for a large open scrap processing area  
 - British Steel (Special Steels), Sheffield.



(Pat. Pending)

## 6. VARIABLE BYPASS FILT



### FROM NS40 VBPF TO NS265 VBPF





5 No. Variable Bypass Filterceptor® set to the Forth River Board purification standard of 20% treatment (10 mm/hr of rainfall) with the capability of being adjusted at a future date to any level of treatment up to 100%. - B.A.A. Edinburgh Airport

### APPLICATIONS

- Airports •Military bases •Motorways •Vulnerable highways
- Industrial estates •Petrochemical plants
- Power stations •Steel works

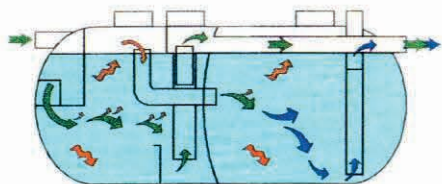


# ND SEPARATORS

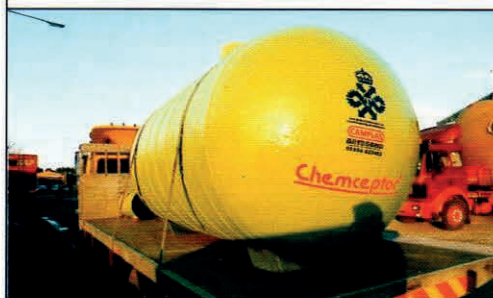
-  = Rainwater contaminated with oil, grit & debris
-  = Oil floating to the top
-  = Grit & debris settling to the bottom
-  = Clean water

## OR - TRADITIONAL

Bypass interceptor treating the first 10% of a storm of maximum 50mm/hr intensity allowing the remainder to pass through only partially treated. Relies on the floatation of oil by gravity within the treatment chamber during a 6 minute retention period. Installed in very large, lightly contaminated areas where discharge is to low sensitivity receiving waters and there is no risk of a major oil spillage.



## 7. CHEMCEPTOR®



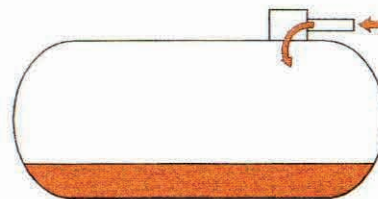
NC25CC-

25m<sup>3</sup> Chemceptor® for a chemical tanker unloading area to accept emergency Spillage's of sulphuric acid, caustic soda, and aluminium sulphate - Yorkshire Water Plc.

### APPLICATIONS

- Chemical plants
- Tanker unloading bays
- Large transformers
- Waste tip leachate
- Silage effluent
- Farm slurry
- Domestic cess pools
- Storm control tanks

For 'zero' discharge situations to comply with section 85 of the 'Water Resources Act 1991' which requires that NO polluting substance should be allowed to enter 'controlled waters' via the storm drains. Chemceptors act as stand-by holding tanks to contain spillage's for subsequent removal for disposal.



## OR®



NS 560 BPFC

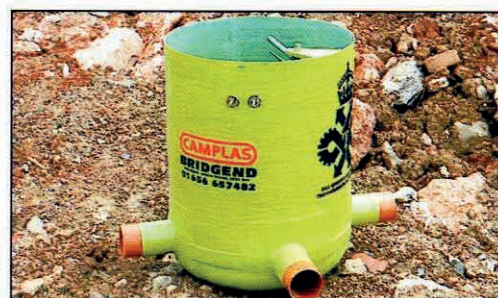
The largest Bypass Filterceptor® in Europe with an overall flow of 5,600 litres/second treating a massive 400,000m<sup>2</sup> of runway - MOD RAF Honington.

### APPLICATIONS

- Airports
- Military bases
- Motorways
- Lorry parks
- Rail depots
- Road systems
- Bus terminals
- Sea terminals

## 8. CHEMCEPTOR® with 'DIVERTA FLOW' VALVE

The 'Diverta Flow' allows rainwater to pass through to the storm drains under normal conditions but is switched to divert the flow to a chemceptor or to the foul sewer in the event of an emergency or for 'wash down' operations. It can be operated manually or by one of four electrical means: 1. A simple OPEN/CLOSE switch, 2. An emergency PUSH BUTTON, 3. Linked electrically to a process operation (e.g. a pressure washer), 4. A remote contaminant sensor to switch the 'Diverta Flow' valve automatically.

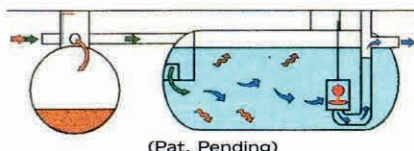


NC9 CC ( DF )

Manual 'Diverta Flow' on a fighter aircraft wash down and service area to prevent detergents, glycol and toxic contaminants entering the storm drains - M.O.D RAF St. Athan.

### APPLICATIONS

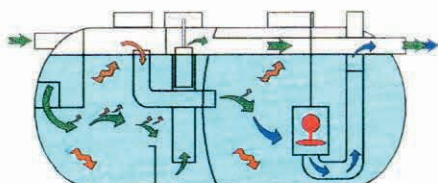
- Vehicle washdown
- Aircraft maintenance
- Tanker unloading bays
- Drum & I.B.C storage
- Chemical processing
- Fire residue containment



(Pat. Pending)

## ERCEPTOR®

As 4 or 5 above but with an incrementally adjustable bypass overflow weir enabling the proportion of flow to treatment to be varied from the normal 10% to anything up to the maximum flow. Allows for changes in site conditions and more stringent, future environmental legislation. Can also be used as an emergency bypass shut off valve, to prevent the filterceptor discharging during heavy rainfall after a major oil spill or fire etc..



(Pat. Pending)

## 9. DOUBLE SKIN CHEMCEPTOR® (with leak detection sensor and remote alarm)

For dangerous and difficult chemicals that have to be continually monitored particularly where there is a significant risk of pollution to water supplies. Will set off a remote alarm warning of a potential leak in advance of it becoming critical, allowing time for remedial action.

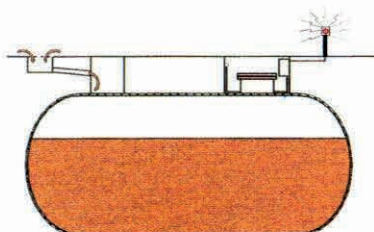
### APPLICATIONS

- Chemical plants
- Paint factories
- Water treatment plants
- Tanker bays
- Dying plants
- Metal treatment plants
- Medical waste
- Nuclear Installations



NC 30 DSCC

30m<sup>3</sup> double skin Chemceptor® with solvent resistant lining to handle trichloroethylene - Benetone Factory.

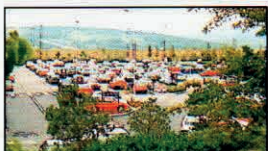




## PROTECTING THE ENVIRONMENT

The Environment Agency is now setting environmental targets for river catchment areas in order to clean up the environment and comply with British and European legislation. **All users and operators** of land who discharge rainwater into watercourses will have to comply with the requirements of **The Water Resources Act 1991** (see front cover). The initial thrust of this campaign is environmentally sensitive areas of ecological importance and where there is a direct threat to drinking water supplies. Such an area is the catchment of the **River Ogmore at Bridgend** which contains important salmon spawning grounds and also a number of water supply boreholes, one of which has supplied the area with drinking water for the past 60 years and is particularly susceptible to groundwater pollution. Even roads and motorways will be required to have interceptors to remove oil and other contaminants before the rainwater enters the drainage system. All interceptors in the future will be required to comply with the new European standard **PrEN 858-1**.

### Superstores



General oil spillage's & debris from a large car park - **Bypass**.

### Scrap yards



Oil, grit, debris & heavy metals from car breaking operations - **Scrapyard Filterceptor®**

### Waste disposal sites



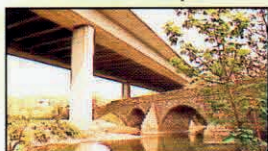
High volume of grit, debris & oil - **Waste site Filterceptor®**

### Garage forecourts



Fuel spillage's from pumps and delivery tankers - **Forecourt Filterceptor®**

### Motorways



General oil spillage's & debris from a large surface area - **Bypass Filterceptor®**

### Factories



Hydraulic oil, diesel, and occasional solvent spillage's - **Absorption Filterceptor®**

### Plant depots



High grit levels & hydraulic oil from 'wash down' operations - **Plant depot Filterceptor®**

### Substations



Minor oil drips and danger of major oil spill threatening the water supply - **Bund Filterceptor®**

### Airports and Airbases



Runway areas - **Bypass Filterceptor®**  
Maintenance areas - **Filterceptor®**  
Washdown areas - **Chemceptor®** with 'Diverta Flow' valve

### Steelworks



Soluble oil contamination - **Absorption Filterceptor®**