

# Environmental Preservation Measures to Plants

FDK Group promotes environmental preservation by preventing air, soil and underground water pollutions, which is mainly done by cooperating with its subsidiary, Fujidenka Research and Analysis Center Co., Ltd. The subsidiary mainly handles environmental investigation and prevention of pollutions. In doing so, severer than public environmental limit for each pollutant is set as voluntary standards, and regularly report the measured data to the public offices. In fiscal 2004, there were no cases of violating environmental laws and regulations and accidents relating to the environment occurred in FDK Group.

## Prevention of Soil and Underground Water Pollutions

Since October 1999, FDK Group has proactively disclosed the data on pollution of soil and underground water and has promoted purification measures of soil and underground water pollution at its four plants, which are Washizu, Hosoe, Osuga and Sanyo. In 2002, soil and underground water pollutions at Hosoe Plant were totally removed.

In fiscal 2004, in order to confirm the healthiness of soils in Osuga Plant, another series of pollution investigation was held in accordance with the Soil Contamination Measures Law. As a result, it was turned out that the level of pollution was within the limit set by the authorities, and the healthiness of soils in the plant was confirmed. For other plants, we will continue purification of soils and monitoring investigation.



Soil Boring Investigation at Osuga Plant

## Emergency Drills

As it is said that a massive earthquake may happen at any time around the Tokai Region, an earthquake and fire drills is held annually at Kosai Plant in Shizuoka Prefecture. This includes evacuation drills, rescue drills and fire control drills. The drills are also practiced assuming that environmental pollutants are leaked out of the plant premises. In fiscal 2004, an emergency training was held assuming that hazardous chemical substances are leaked from their storage warehouse.



Training for leakage prevention of chemical substances (Kosai Plant)

## Storage and Control of PCB

Following to the special law on treatment of PCB, FDK Group submitted a report on the volume of PCBs at hand. PCBs are numerically controlled using a PCB ledger and are appropriately controlled. In the future, PCBs will be appropriately disposed after establishing a proper treatment method on the substances.

## Effluent Analysis Report (Kosai Plant)

Chemical substances	Unit	Control limit (Japan)	Voluntary limit (FDK)	Actual value (max.)
PH (Hydrogen- ion concentration)	—	5.8~8.6	6.0~8.4	7.6~8.0
COD (Chemical Oxygen Demand)	mg/ℓ	160	15	6.6
BOD (Biochemical Oxygen Demand)	mg/ℓ	160	15	5.6
SS (Suspended Solids)	mg/ℓ	200	20	10
N-hexane extract	mg/ℓ	5	3	<0.5
Copper	mg/ℓ	3	0.5	<0.05
Zinc	mg/ℓ	5	0.5	0.2
Soluble iron	mg/ℓ	10	3	<0.3
Soluble manganese	mg/ℓ	10	3	<0.1
Nitrogen	mg/ℓ	120	40	18
Phosphorus	mg/ℓ	16	5	2.2
Nickel	mg/ℓ	—	0.5	<0.05
Lead	mg/ℓ	0.1	0.05	<0.01
Dichloromethane	mg/ℓ	0.2	0.1	<0.02

The following substances were found as significantly below the voluntary standards and official detection limits: benzene, fluorine, arsenic, trichloroethylene, tetrachloroethylene, 1-1-1-trichloroethane, total mercury, carbon tetrachloride and cadmium.