

# For Pursuing Environmental Risk Management

Tamron works on protecting the environment and ensuring the safety and health of our stakeholders. We aim at sustained growth through work that properly addresses environmental risks that may exercise serious impacts on our business operations.

## Countermeasures against Soil Contamination

### History of Tamron's Soil Purification Operations

#### 2003

Voluntary investigation of groundwater and soil on the premises of the Omiya head office reveals contamination of soil by volatile organic compounds (such as trichloroethylene and tetrachloroethylene) and heavy metal (such as lead and boron) in excess of permissible standard values.

#### 2004

Based on the results from the 2003 investigation, commences countermeasures against increased contamination of groundwater and soil. The countermeasures include

- (i) excavating and removing contaminated soil and building PRB walls<sup>(1)</sup> using iron powder and crushed stones along the border of the premises to prevent contaminated groundwater from spreading,
- (ii) landfill with sound soil and
- (iii) installing pumping/purifying facilities for contaminated groundwater<sup>(2)</sup>.

<sup>(1)</sup>PRB walls – Contaminated groundwater is neutralized with iron powder and purified when passing through the walls.

<sup>(2)</sup>Pumping/purifying facilities – Facilities for pumping groundwater up, gasifying and absorbing pollutants for purification

#### 2005

The work to replace contaminated soil with sound soil completed. The three factories in Aomori confirmed free of soil contamination.

#### 2006

Continues operations to pump up, monitor and gasify (OK) groundwater

### (2) Major Efforts in 2007

Countermeasures to prevent contaminated groundwater from spreading were taken in 2004 as stated above. However, Tamron continues monitoring groundwater to confirm the intended effect of the PRB walls. The results have validated that the quality of groundwater pumped up from monitoring wells around the borderline has improved to a level which does more than meet the environmental standard value. Operations to purify pumped up groundwater were discontinued in 2007 since it was confirmed that the concentration of contaminant was below the specified level.

## To Be Prepared for Emergencies

Evacuation drills and drills for handling harmful chemical substances are carried out every year at the Omiya head office and factories at home and abroad as part of risk management. In addition, fire drills were implemented at the Omiya head office



A Scene of the fire drill

for learning fire fighting in the early stages. As an important obligation of a manufacturer discharging industrial waste, Tamron regularly visits waste disposers and recycling facilities to audit operations and contribute to preventing illegal dumping.

## State of Compliance with Environmental Standards

There were no environmental-related lawsuits in 2007. Our environmental standard values as prescribed by environmental regulations such as the Clean Air Act, the Water Pollution Control Law and the Soil Contamination Control Law and the state of compliance with those regulations as voluntary standard values are as shown in the table below. Tamron was unable to satisfy emissions standards in February 2007 due to polluted and accumulated mud. However, beside this exceptional case, there was no other incident of surpassing standard values in other regulations at the Omiya head office and three factories in Aomori.

### State of Compliance with Environmental-related Laws and Regulations

Standards on	Omiya	Aomori	TOF
Air pollution	–	A	A
Water quality	B	A	A
Soil contamination	A	A	–
Ambient noise	A	A	A
Vibration	A	–	–
Bad odors	–	A	–
Harmful substances	A	A	–

A:Satisfactory B:Partly Satisfactory

## For Establishing Comprehensive Risk Management Structure

In 2007, as part of our CSR work, we created a risk management manual, establishing our risk management structure. From 2008 and beyond, we plan to work on preventing environmental and all other risks by determining and managing the possibilities of risks involved in our business, while strengthening our risk management structure for ensuring speed recovery in the event that any risk actually materializes as a problem.