

Pollution Control

Basic Approach

Approach

The TOPPAN Group has formulated the following basic policies on pollution control. We position the control of pollution as a critical challenge for management and place utmost priority on environmental conservation initiatives to attain zero pollution. In the event that we cause environmental pollution of any form, we will immediately publish the incident, disclose information, and work relentlessly to address the case while taking necessary actions to reliably prevent recurrences. Recurrence-prevention measures for similar operations will be implemented throughout the Group. Proactive environmental conservation activities will enable us to detect any signs of pollution and swiftly correct the problem at its source.

Approach to Environmental Compliance

Activity results, performance data

Preventing Pollution

The Eco-protection Promotion Committee at each Group site in Japan sets in-house control standards that are more stringent than the applicable regulatory standards. We work to reduce environmental impact and prevent pollution by observing these in-house standards.

To prevent atmospheric pollution, we control boilers and other plant facilities emitting air pollutants by managing operations under appropriate combustion conditions. The

efficiency of effluent gas treatment has been enhanced through the reuse of recovered organic solvents and appropriate control of combustion equipment in plant facilities subject to requirements under the Air Pollution Control Act.

To prevent water pollution, we have installed wastewater treatment facilities designed to correspond to specific water use and pollutant conditions at individual sites. Wastewater recycling systems have also been installed at Electronics plants that discharge effluents in significant amounts. By recovering and reusing wastewater via these systems, the plants have been working to reduce the levels of water withdrawal and effluent discharge.

Plant facilities subject to the Water Pollution Control Law are checked in compliance with the regulatory standards for structures. Every facility, including those not subject to the law, is monitored to prevent soil and groundwater pollution caused by the leakage of chemicals and other liquids. Any equipment or component with undue wear has been replaced.


Organizing Pollution Control Training

We arrange three types of training programs on pollution control: general education for every employee at individual Group sites; specific operational training for every employee engaged in operations that cause or can cause significant impacts on the environment; and emergency drills to prevent the spread of damage when a potential emergency occurs.

Handling Inquiries and Complaints

We receive environmental inquiries and complaints via

“Inquiries,” a contact window for persons seeking information on corporate activities, on the TOPPAN corporate website. The Ecology Center receives reports on these inquiries and complaints from the Public Relations Division and responds to them as the organization overseeing environmental conservation activities across the Group.

 For inquiries on our corporate activities >

<https://www.holdings.toppan.com/en/contact-us/privacy-corporate.html>

Fiscal 2022 Results

We have used our in-house environmental database for Group sites across Japan to identify any possibility that the limits stipulated under laws, ordinances, agreements, or other applicable regulations are or will be surpassed. Preventive measures against unduly high risks have been taken to ensure that none of the regulatory limits are breached.

Despite these steps, one case of excessive air pollution by VOCs was recorded at one production site and a total of four cases of excessive water contamination were recorded at four sites (two cases of BOD at two sites, one case of n-Hex at one site, and one case of BOD, n-Hex, and SS originating from the same cause at one site), relative to the standards set under laws, ordinances, agreements, or other applicable regulations, in fiscal 2022. Corrective measures were taken immediately in all five of the cases, including steps to inspect the plant facilities and revise the methods for facility control. Other actions to reliably prevent recurrences have been taken since the implementation of these corrective measures, including the establishment of a new set of standardized control procedures. No problems with

the levels of water use or effluent discharge have been identified.

As a preventive action against environmental pollution, we also review drills for coping with potential emergencies and accidents during production operations, whenever necessary.

No complaints were filed from the communities around our plants in fiscal 2022.

We will continue enhancing the quality of our environmental management through earnest dialogue with the members of the surrounding communities.

Fiscal 2022	Excessive Levels relative to Applicable Legal Standards	Complaints
Cases	5 (4 cases involving water contaminants [BOD: 2; n-Hex: 1; BOD, n-Hex, SS: 1]; 1 case involving air pollution by VOCs)	0

No. of Internal Environmental Audits and Issues in Need of Improvement (Fiscal 2022)

Domestic Sites Audited	54
Issues in Need of Improvement Identified at Domestic Sites	32
Domestic Sites Reviewed	3

Remediating Soil and Groundwater Pollution

Activity results, performance data

Purifying Soil and Groundwater Pollution

Operational Site	Detail	Current Progress
Itabashi Plant (Itabashi, Tokyo)	Groundwater pollution by hexavalent chromium and toluene	Continuously monitored
Niigata Plant (Shibata, Niigata)	Soil pollution by fluorine and fluorine compounds	Continuously monitored

Remediating Soil Pollution for Redevelopment under Regulations

The Soil Contamination Countermeasures Act of Japan requires remediation work or other countermeasures in the event that a soil investigation detects soil contamination at a site during construction or demolition work of a certain scale (including soil contamination by natural sources in the environment). Our site reconstruction projects are occasionally subject to these legal demands. We therefore conduct soil investigations in accordance with the act and take necessary countermeasures whenever soil contamination is detected at Group sites.

No remediation work or other countermeasures under the act were performed in fiscal 2022.