Pollution Prevention

We monitor the status of ground water and discharged water individually on a regular basis, to prevent environmental pollution.

(1) Measurement of “Ground water” (FY2024)

Unit: mg/L

Measured Items	Legal Standard	Headquarters / Tokyo Plant	Niigata Plant	Kumagaya SSC
		Results	Results	Results
Lead and its compounds	0.01	Below Standard	Below Standard	Below Standard
Hexavalent Chromium	0.05	Below Standard	Below Standard	--[*4]
Total Mercury	0.0005	Below Standard	--	--
Total Cyanide	Not to be detected	--	Not detected	--
Trichloroethylene	0.01	Below Standard	Below Standard	Below Standard
Tetrachloroethylene	0.01	--	--	Below Standard
Dichloromethane	0.02	Below Standard	--	--
1,2-Dichloroethane	0.004	Below Standard	--	--
1,1-Dichloroethene	0.1	Below Standard	Below Standard	Below Standard
1,2-Dichloroethene	0.04	Below Standard	Below Standard	Below Standard
Cis-1,2-Dichloroethylene	0.04	Below Standard	Below Standard	Below Standard
Trans-1,2-Dichloroethylene	0.04	Below Standard	Below Standard	Below Standard
1,1,1-Trichloroethane	1	Below Standard	Below Standard	Below Standard
1,1,2-Trichloroethane	0.006	Below Standard	--	--

Unit: mg/L

Measured Items	Legal Standard	Headquarters / Tokyo Plant	Niigata Plant	Kumagaya SSC
		Results	Results	Results
Carbon Tetrachloride	0.002	--	--	Below Standard
Selenium	0.01	Below Standard	--	--
Cadmium	0.003	Below Standard	Below Standard	--
Alkyl Mercury	Not to be detected	Not detected	--	--
Organic Phosphorus	Not to be detected	Not detected	--	--
Boron	1	Below Standard	Below Standard	--
Fluorine	0.8	Below Standard	Below Standard	--
Nitrate-nitrogen and Nitrite-nitrogen	10	Below Standard	--	--
Arsenic	0.01	Below Standard	Below Standard – 0.027*5	Below Standard

*1: Measuring points
We measured at 4 points in Headquarters / Tokyo Plant and Kumagaya Service Solution Center, while measuring at 7 points in Niigata Plant.
*2: Measuring cycle
We measured once per year in Headquarters / Tokyo Plant and Kumagaya Service Solution Center, while measuring twice per year in Niigata Plant.
*3: Results
We indicated "Below Standard" where the values had been below legal standards, indicated “Not detected” where they hadn’t been detected and indicated the maximum value where they had exceeded legal standards.
*4: "--" means it is not applicable to measurement.
*5: Exceeding of standard
As for Arsenic which had exceeded legal standard in Niigata Plant, we regarded as natural origin because we have never used it before.

(2) Measurement of "Discharged water“ (FY2024)

Unit: Per 1 Liter

Measured Items * () is the unit of each measurement.	Legal Standard	Niigata Plant	Kumagaya SSC
		Results	Results
Hydrogen Ion Exponent (pH)	5.8 – 8.6	7.0 – 7.6	6.7 – 7.6
Biochemical Oxygen Demand - BOD (mg)	160	--	Below Standard
Suspended Solids - SS (mg)	200	Below Standard	Below Standard
Amount of Zinc (mg)	2	Below Standard	--
Lead and its compounds (mg)	0.1	Below Standard	--
Amount of Phosphorus (mg)	16	--	Below Standard
Arsenic and its compounds (mg)	0.1	Below Standard	--

*1: Measuring points
Niigata Plant - Both measuring points and measuring areas are identified each other, depending on the kinds of chemicals.
(Measuring points: 2 – 8 points)
Kumagaya SSC - Only 1 point which is a final drainage outlet.
*2: Measuring cycle
Niigata Plant - We measured only Arsenic and its compounds once per year, while measuring others twice per year.
Kumagaya SSC - 4 times per year.
*3: Results
As for pH, we indicated its minimum and maximum values. As for others, we indicated "Below Standard" where the values had been below legal standards, while indicating the maximum value as well where the value(s) had exceeded them.