KAWASAKI STEEL TECHNICAL REPORT No. 33 January 1996

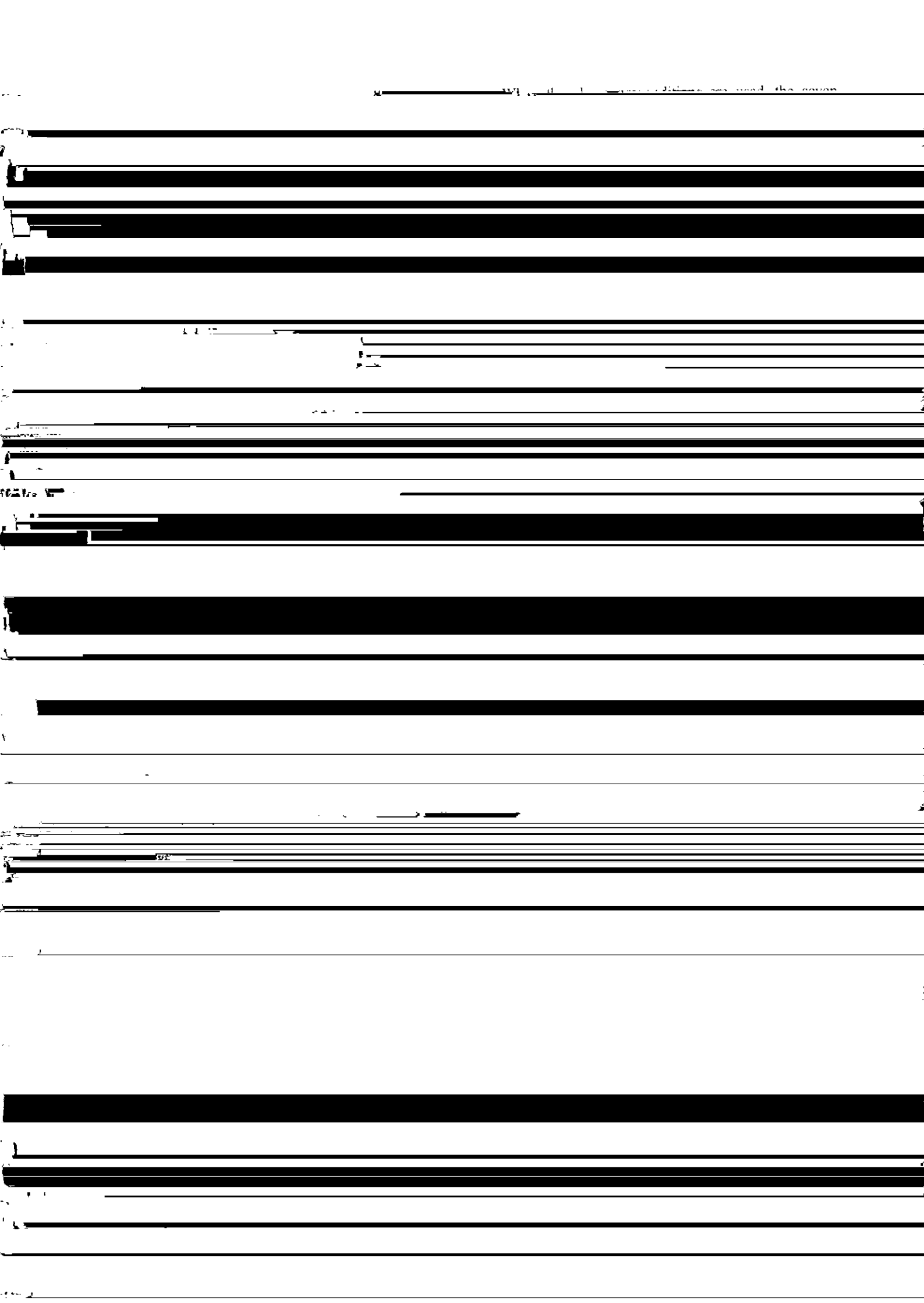
Numerical Simulation of Water Purification Process in the Closed Water Area*

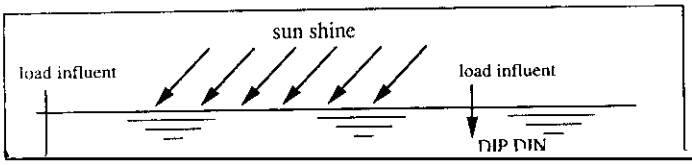
Synopsis:

A numerical simulation method is developed to analyse the surface wave flow and nutritious processes

environment in Japan and abroad. In this report, the effectiveness and applicability of a numerical simulation technique as a technique for predicting changes in the to the temporal and spatial scales.

The above motion of seawater and process of transfer and diffusion of pollutants in the closed water area are




sun shine
load influent
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DIP DIN

(c) The treatment efficiency (removal rate) corre-

Setting up

(3) Others

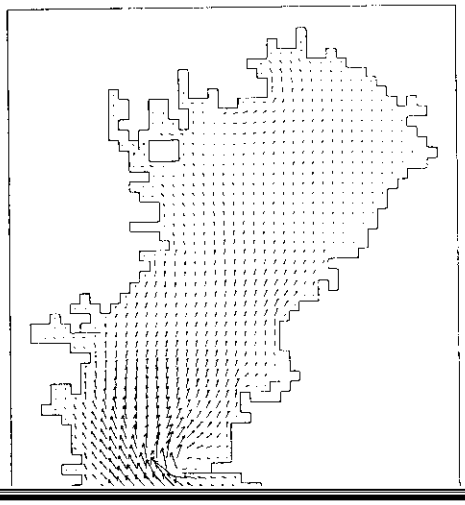
Request

Table 3 Rivers surrounding Tokyo Bay area

Name of river	Flow (m^3/day)
Edo River	6.022×10^6
Sumida River	4.087×10^6
Arakawa River	2.954×10^6
Naka River	1.986×10^6
Tama River	1.782×10^6
Shinagawa area	1.841×10^6
Oomori area	1.010×10^6

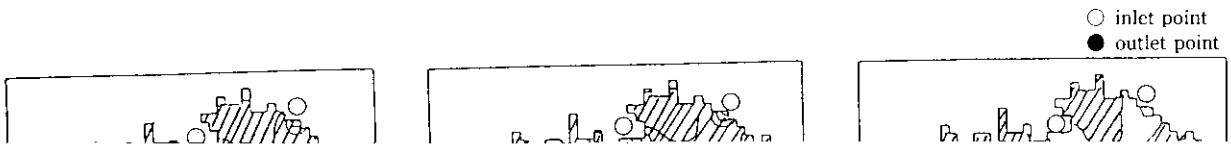
Table 4 Numerical modeling data

Item	Value
[illegible]	72(length) by 46(width)



tion occurs in the innermost part of the bay.

To conduct water purification, it is necessary to transport the relatively clean seawater at the mouth of the bay to the innermost part of the bay and to discharge the sea-


○ inlet point
● outlet point