

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER 85-131

WASTE DISCHARGE REQUIREMENTS
(SITE CLEANUP REQUIREMENTS) FOR:

XIDEX CORPORATION
PATRICK HENRY DRIVE FACILITY
CITY OF SANTA CLARA
SANTA CLARA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board) finds that:

1. Xidex Corporation, hereinafter called the discharger, owns and operates a computer disk manufacturing facility located at 5201 Patrick Henry Drive in the City of Santa Clara, Santa Clara County, approximately 7/10 of a mile east of the intersection of Lawrence Expressway and Mountain View - Alviso Road.
2. Subsurface investigations initiated in July 1982 detected high levels of various industrial solvents, including methyl ethyl ketone, cyclohexanone, isopropyl alcohol, and acetone, in both soils and groundwaters in the vicinity of two underground tank farms located adjacent to buildings 5200 and 5440. The pollution appears to be a result of spillage, inadequate chemical handling practices, overflows, and/or possible leakage.
3. The discharger has completed additional investigation to delineate the extent of the solvent pollution in the soils and groundwater. As of July 1985, the solvent pollution has been shown to consist of two separate pollutant plumes localized around the tank farms, and to extend vertically to a depth of approximately 30 feet. Concentrations of methyl ethyl ketone in recent groundwater samples were as high as 3,600,000 parts per billion.
4. The underground tanks have subsequently been flushed and removed from service, and the discharger has proposed to control and cleanup the polluted groundwaters by extraction pumping.
5. The Board finds that remedial action is necessary to prevent the continued migration of pollutants to unaffected groundwaters and to preclude potential loss of beneficial uses of said waters.

6. The Board adopted a revised Water Quality Control Plan (Basin Plan) for the San Francisco Bay Region on July 21, 1982. The Basin Plan contains water quality objectives for groundwater.
7. The existing and potential beneficial uses of the groundwater underlying the facility below an approximate depth of 150 feet include:
 - a. Municipal Water Supply
 - b. Domestic Water Supply
 - c. Agricultural Water Supply
 - d. Industrial Service and Process Water Supply
8. This project constitutes a minor modification to land and such activity is thereby exempt from the provisions of the California Environmental Quality Act (CEQA) in accordance with Section 15304 of the Resources Agency Guidelines.
9. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the proposed discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
10. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that the discharger, in order to meet the provisions contained in Division 7 of the California Water Code and the regulations adopted thereunder, shall comply with the following:

A. Prohibitions

1. The discharge of waste or hazardous materials in a manner which will degrade the water quality or adversely affect beneficial uses of the groundwaters or surface waters of the State is prohibited.
2. Further significant migration of pollutants through subsurface transport to usable groundwaters is prohibited.
3. Methods used to investigate, contain, and/or clean up the polluted groundwaters shall not cause the spread of pollution in an adverse manner.

B. Specifications

1. The treatment or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
2. The discharger shall conduct monitoring activities as needed to define the local hydrogeological conditions, and the lateral and vertical extent of the soil and groundwater pollution in and contiguous to the zone of known pollution. Should monitoring results show evidence of plume migration, additional plume characterization shall be required.

C. Provisions

1. The discharger shall submit to the Board technical reports on self-monitoring work performed according to a program approved by the Executive Officer.
2. The discharger shall comply with Prohibitions A.1, A.2, and A.3, and Specifications B.1 and B.2 above, in accordance with the following tasks and time schedule:

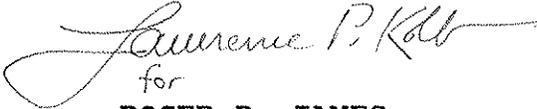
| <u>Task</u> | <u>Completion Date</u> |
|--|----------------------------|
| a. Submit a technical report acceptable to the Executive Officer which describes the proposed method of treatment and disposal of extracted groundwaters at buildings 5200 and 5440, and which proposes specific measures to monitor and evaluate the adequacy of the extraction wells to contain and clean up the pollutant plumes. | Dec. 1, 1985 |
| b. Complete the installation of facilities necessary to extract, treat, and dispose of the polluted groundwaters, and commence cleanup of the pollutant plumes at buildings 5200 and 5440. | Dec. 15, 1985 |

Feb. 1, 1985

- c. Submit a technical report acceptable to the Executive Officer which evaluates the effectiveness of the extraction system. Such an evaluation shall include, but need not be limited to, an estimation of the flow capture zones of the wells, establishment of the cones of depression by field measurements, and presentation of chemical monitoring data. Specific modifications to the system shall be proposed in the event that the extraction wells are demonstrated not to be effective in containing and cleaning up the pollutant plumes.
3. Reports submitted pursuant to Specification B.2, and Provisions C.1 and C.2 of this Order shall include, but need not be limited to, groundwater gradient contour maps, pollution concentration contour maps, updated cross-sectional geological maps describing the hydrogeological setting of the site, and appropriately scaled and detailed base maps showing the location of all monitoring and extraction wells, and identifying all adjacent facilities and structures. All hydrogeological plans, specifications, reports, and documents shall be signed and/or stamped with the seal of a registered geologist, engineering geologist, or professional engineer.
4. Copies of all correspondence, reports, and documents pertaining to compliance with the Prohibitions, Specifications, and Provisions of this Order, shall be provided to the following agencies:
 - a. Santa Clara Valley Water District
 - b. Santa Clara County Health Department
 - c. City of Santa Clara
 - d. State Department of Health Services/TSCD
 - e. State Department of Health Services/Sanitary Div.
5. The discharger shall submit bi-monthly progress reports beginning on December 1, 1985, to the Regional Board demonstrating compliance with the Prohibitions, Specifications, and Provisions of this Order. In the event of non-compliance with the tasks and time schedule of Provision C.1 and C.2 of this Order, the discharger shall clarify the reasons for non-compliance and shall propose specific measures to be taken to achieve compliance.

6. All samples shall be analyzed by State certified laboratories using approved EPA methods for the type of analysis to be performed. All laboratories shall maintain quality assurance/quality control records for Board review.
7. The discharger shall permit the Board or its authorized representative, in accordance with Section 13267(c) of the California Water Code:
 - a. Entry upon any premises where any pollution source exists, or may potentially exist, or in which any required records are kept.
 - b. Access at reasonable times to copy any records required to be kept under the terms and conditions of this Order.
 - c. Inspection of any monitoring equipment or methods required by this Order.
 - d. Sampling of any groundwater or soil which is accessible, or may become accessible as part of any investigation or remedial action program, to the discharger.
8. The discharger shall file a report on any material changes in the nature, quantity, or transport of polluted groundwater associated with the pollution described in this Order.
9. The discharger shall maintain in good working order and operate, as efficiently as possible, any facility or control system installed to achieve compliance with the requirements of this Order.
10. The Board will review this Order periodically and may revise the requirements when necessary.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region on November 20, 1985.


for
ROGER B. JAMES
Executive Officer