

PHASE I REPORT

**ENGINEERING INVESTIGATIONS  
AND EVALUATIONS AT  
INACTIVE HAZARDOUS WASTE DISPOSAL SITES**

Keytronics  
Broome County, NY

SUBMITTED TO

*New York State  
Department of  
Environmental Conservation*

SUBMITTED BY

ENGINEERING-SCIENCE, INC.  
in association with  
DAMES & MOORE

JUNE 1983

## SITE DESCRIPTION

USEPA #NY D005272942

NYSDEC #704001

## SECTION I

### EXECUTIVE SUMMARY

#### Keytronics, Inc.

#### Objective

The purpose of this two phase program is to conduct engineering investigations and evaluations at inactive hazardous waste disposal sites in New York State in order to calculate a Hazard Ranking System (HRS) score for each site and estimate the cost of any recommended remedial action. During the initial portion of this investigation (Phase I) all available data and records combined with information collected from a site inspection were reviewed and evaluated to determine the adequacy of existing information for calculating an HRS score. On the basis of this evaluation, a Phase II Work Plan was prepared for collecting additional HRS data (if necessary), evaluating remedial alternatives and preparing a cost estimate for recommended remedial action. The results of the Phase I study for this site are summarized below and detailed in the body of the report.

#### Site Background

The Keytronics site is located at 707 North Street in Endicott, Broome County. The site consists of an electronics manufacturing plant and a parking area. The Keytronics Corporation is owned and operated by Harris Enterprises of Oswego, New York. Although waste materials are currently disposed of offsite, an area of railroad bed behind the parking lot was used at one time to dispose of waste solvent by dumping. Concern centers over the possible contamination of groundwater by this practice.

#### Assessment

Insufficient data was available to complete a final HRS scoring.

The preliminary HRS scoring for this site was:

$S_M = 26.12$	$S_A = 0$
$S_{GW} = 44.90$	$S_{FE} = 0$
$S_{SW} = 5.03$	$S_{DC} = 33.33$

There are no known analytical data available for this site. Additional target information is required for ground and surface water routes.

#### Recommendations

The following recommendations are made for the completion of Phase II:

- groundwater monitoring system consisting of one well.
- surface water monitoring system consisting of three stations
- sample analyses should include TOC, pH, TDS, and a GC/MS scan
- air monitoring survey with an OVA meter to determine air quality

The estimated man hour requirements for Phase II are 231, while the estimated cost is \$14,399.





File: 80-1100-100  
New York State Department of Environmental Conservation

MEMORANDUM

TO: C. Goddard, Albany, Room 411  
 FROM: L. Lepak  
 SUBJECT: Draft Inactive Site Investigative Report - Keytronics, Inc. Endicott (V), Broome County  
 DATE: 1/21/83

I have completed review of the above mentioned report. I do not have any adverse comment on the lack of information, that was found by the consultant on the site. I do question the consultant's recommendations for Phase II work on the site. I cannot imagine why the consultant would like to establish and sample three surface water monitoring stations, when the closest downgradient surface water is 0.37 miles away (1924 feet), their own estimate. The cost for this work is approximately \$2800, plus a portion of the site assessment item cost.

I recommend that no surface water samples be acquired and analyzed for this site. I also recommend that our Department try to do any Phase II investigation at Keytronics with "in house" staff. The estimated consultant's cost of \$14,724.80 is simply too high. In fact, I hope that our Department did not pay the consultant more than one or two thousand for the Phase I report because if you remove all the "boiler plate" pages, there is only about 50 pages of very limited information. In my mind, a competent DEC engineer would have been able to complete this report in one man-week or less.

Due to the existence of the other two groundwater contamination problems in the Village of Endicott, I think it is quite important to ascertain once and for all whether the Keytronics dumping has affected the water quality.

In closing, I would like to suggest that, instead of paying consultants to do additional Phase II work, the Central Office consider hiring additional technical staff, together with a drilling rig with crew, and investigating the small sites "in house". I feel this action would be most cost-effective.

L. Lepak  
L. Lepak

LTL:kr

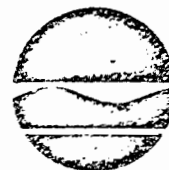
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1983

NEW YORK STATE  
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

New York State Department of Environmental Conservation  
50 Wolf Road, Albany, New York 12233-0001



Henry G. Williams  
Commissioner

OCT 12 1983

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. Harold Horton, President  
Keytronics, Inc.  
707 North Street  
Endicott, NY 13760

Dear Mr. Horton:

Re: Field Investigations at Inactive Hazardous Waste Disposal  
Sites - New York State Superfund Chapter 857, Laws of 1982

The New York State Department of Environmental Conservation (NYSDEC) as required by Chapter 857 of the Laws of 1982 (commonly known as the "New York State Superfund Law"), is conducting field investigations of inactive hazardous waste disposal sites throughout the State.

Our present records indicate that you are the owner and/or operator of the following site:

Site Name: Keytronics, Inc.  
Site Address: 707 North Street, Endicott, NY 13760, Broome County

which is to be included in this field investigation program.

The first phase of our program (Phase I) has been completed for your site, and consisted of the collection of available information and preparation of a work plan to collect the additional data (Phase II) needed to rank the site using the United States Environmental Protection Agency's (USEPA) hazard ranking system (HRS) for inactive hazardous waste sites. The Phase I work was performed by our consultants. At your site, the Phase II consultant will be Wehran Engineering, P.C.

The following Phase II field investigation activities are anticipated:

- Air monitoring
- Surface water monitoring
- Borings and groundwater monitoring wells installation
- Sample analysis
- Conceptual evaluation of remedial alternatives

The estimated cost for the Phase II activities is \$14,725. It should be noted that although both the scope and cost of the Phase II activities represent our best estimates to date, they are estimates and could change considerably.

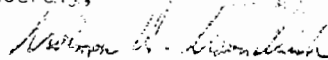
As the law provides that the cost of sampling and analysis is recoverable in any action brought by the Department against the owner or party responsible for the site (ECL §27-1309.5), you are hereby afforded an opportunity to perform these activities, in a timely manner, at your own expense.

This letter also serves as notice of intent that the Department will take samples and conduct field investigations at your site should you elect not to perform such work. The Law (ECL §27-1309.3 and 27-1309.4) provides for a minimum of ten days' written notice of such intent. After ten days' notice, any duly designated officer or employee of the Department, or of any State agency, and any agent, consultant, contractor or other person so authorized, may enter any inactive hazardous waste disposal site and areas near such site and inspect and take samples of wastes, soils, air, surface water and groundwater. In order to take such samples, the Department may utilize or cause to be utilized such sampling methods as it determines to be necessary including, but not limited to, soil borings and monitoring wells.

If you do not respond within ten days of the receipt date of this letter, we shall assume you do not wish to conduct the Phase II field investigation activities at your site at your own expense and our contractor will be directed to proceed.

If you have any questions in connection with this matter, please contact Mr. Robert A. Olazagasti of my staff at 518-457-0747.

Sincerely,



Norman H. Nosenchuck, P.E.  
Director  
Division of Solid and Hazardous Waste

bcc: Commissioner Williams  
L. Marsh  
~~D. Stanc~~  
N. Robinson  
J. Greenthal  
R. Torkelson  
R. Lynch  
Regional Director  
Regional Engineer  
Regional Solid Waste Engineer

M. O'Toole  
W. Wilkie  
C. Goddard  
D. King  
W. Demick  
D. Fleury  
R. Olazagasti  
J. Tofflemire  
T. Zimmie  
N. Nosenchuck (2)  
File (3)

TZ:jci





## New York State Department of Environmental Conservation

## MEMORANDUM

TO: Charles N. Goddard *Thomas F. Zimmie*  
 FROM: Thomas F. Zimmie  
 SUBJECT: Recommendation with regard to Phase II Investigation for  
 Keytronics, Endicott, N.Y. Region 7  
 DATE: December 2, 1983

It is recommended that we do not do a Phase II investigation for the Keytronics site in Endicott, Broome County, New York.

On November 29, 1983 the writer, accompanied by Larry Lepak from Region 7, visited the Keytronics site and surrounding area.

There is a serious groundwater contamination problem in the area, largely attributed to IBM. IBM has been extremely cooperative in an effort to remedy the problem: for example, they have installed more than 150 monitoring wells in the Endicott area, and are currently pumping and treating groundwater. Additional wells are being installed for pumping groundwater. The Keytronics site is located over the IBM groundwater pollution plume, and will be also located over the expected cone of depression created by the groundwater pumping. Therefore, if any pollutants from Keytronics have reached the groundwater table, the pollutants will be captured by the IBM pumping operators. It is doubtful that it can be proven that pollutants from Keytronics have reached the groundwater table. The Keytronics plant is essentially encircled by IBM monitoring wells, and analyses of nearby monitoring well groundwater samples showed that methylene chloride (the primary hazardous waste that Keytronics supposedly disposed of) concentrations were below detectable limits.

Keytronics has discontinued the dumping of waste solvents on the ground since 1979.

In view of the above, it appears it would be a waste of time and money to do a Phase II study at the Keytronics site.

*grf*

bcc: N. Nosenchuck  
 W. Demick  
 D. Fleury  
 R. Olazagasti  
 J. Tofflemire  
 T. Zimmie  
 S. Lackey Reg. 7  
 L. Lepak " " "

JAN 11 1984

Certified Mail  
Return Receipt Requested

Mr. Harold Horton, President  
Keytronics, Inc.  
707 North Street  
Endicott, New York 13760

Dear Mr. Horton:

Re: Keytronics, Inc., Endicott, New York  
Broome County

My letter of October 12, 1983 stated that the New York State Department of Environmental Conservation intended to conduct a Phase II field investigation at Keytronics, Inc., 707 North Street, Endicott, N.Y. 13760, Broome County.

After studying the situation further, the Department has decided not to conduct a Phase II study at your site at this time. Considering other studies that have been or are being carried out in the area, a Phase II investigation would probably duplicate other efforts and not appreciably add any information.

If you have any questions in connection with this matter, please contact Mr. Walter E. Demick of my staff at 518-457-9538.

Sincerely,



Norman H. Nosenchuck, P.E.  
Director  
Division of Solid and Hazardous Waste

bcc: Commissioner Williams  
L. Marsh  
D. Banks  
N. Robinson  
J. Greenthal  
R. Torkelson  
R. Lynch  
Regional Director  
Regional Engineer  
Regional Solid Waste Engineer

M. O'Toole  
W. Wilkie  
C. Goddard  
D. King  
W. Demick  
D. Fleury  
R. Olazagasti  
J. Tofflemire  
T. Zimmie  
N. Nosenchuck (2)

TZ:grf



15 (12/75)



New York State Department of Environmental Conservation

MEMORANDUM

RECEIVED

TO: Charles N. Goddard, Albany, Room <sup>574</sup>~~411~~  
FROM: L. Lepak, Region 7  
SUBJECT: Keytronics Superfund Site - Phase II Investigation  
DATE: February 8, 1984

FEB 10 1984

DEPARTMENT OF  
HAZARDOUS WASTE CONTROL  
DIVISION OF SOLID AND  
HAZARDOUS WASTE

I concur with Mr. Zimmie's recommendation, that a Phase II investigation not be conducted at the Keytronics site. His Memo of December 2, 1983 to you outlines the reasons for his recommendation. I wish to provide some additional information on this situation, so that Central Office staff will have a complete perspective of the field situation.

The Regional water program has been working in close concert with the IBM Corporation in setting up a cleanup program for the contamination plume. The point of contact for a summary of progress-to-date in IBM's efforts to clean up this contamination is Mario Nirchi, the water program engineer in the Binghamton sub-office. Mr. Nirchi has complete technical support documents of this effort and the latest groundwater sampling results.

I have attached a copy of a reduced sized map, which Mr. Nirchi has given me (Figure 1) from the IBM documents. The approximate limits of the IBM contamination plume in the Keytronics plant area are shown on this map. I have approximately located the Keytronics plant on this map, showing it is within the limits of the plume. Groundwater flow direction in the Keytronics area is generally to the southwest, but will be affected by recovery wells installed by IBM. These recovery wells are located to contain the plume and clean up the contamination.

I have also enclosed the sampling results of the three IBM groundwater monitoring wells, which are located adjacent to the Keytronics facility. These results indicate that there is no methylene chloride contamination problem in these wells or contamination from other common industrial solvents. I recommend that we continue to monitor the results of the IBM cleanup in this area. Upon completion of the IBM cleanup, an evaluation should be made to decide if any additional cleanup or investigation is needed at the Keytronics site. It appears that the planned IBM cleanup efforts should address all present concerns, regarding historic contamination from the Keytronics facility.

Contact me if you or your staff has any questions.

L. Lepak

LTL:kr

Attach.

cc: S. Lackey  
T. Zimmie