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6247-01

October 11, 1990

Mr. Guy T. Bobersky
Division of Hazardous Waste Remediation
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

SUBJECT: Final Draft Preliminary Site Assessment Report
Bendix Fluid Power Division Site, Site No. 633020
Work Assignment No. D-002472-4

Dear Mr. Bobersky:

Enclosed is the Final Draft Preliminary Site Assessment Report for Task 1 for the Bendix Fluid Power Division Site.

Your comments to date have been incorporated into this report. We will prepare and issue the final report upon your authorization. As always, I can be reached at (800) 341-0460 if your have any questions or comments.

Sincerely,

E.C. JORDAN CO.

Cynthia J. Talbot

Cynthia J. Talbot
Project Manager

cc: Mr. Darrell Sweredoski (1 copy)
Regional Hazardous Waste Remediation Engineer
Region 6 - Regional Headquarters
New York State Department of Environmental Conservation
State Office Building
Watertown, New York 13601

Mr. Gary Litwin (1 copy)
Bureau of Environmental Exposure Investigation
New York State Department of Health
2 University Place
Albany, New York 12203

NYSDEC CONTRACT NO. D-002472

NYSDEC WORK ASSIGNMENT NO. D-002472-4

E.C. JORDAN CO.

FINAL DRAFT REPORT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT

PRELIMINARY SITE ASSESSMENT

BENDIX FLUID POWER DIVISION
ONEIDA COUNTY

SITE NO. 633020

OCTOBER 1990

Submitted by:

Cynthia J. Talbot
Project Manager
E.C. Jordan Co.

Approved by:

William J. Weber
NSSC Program Manager
E.C. Jordan Co.

NOTICE

This Preliminary Site Assessment report of the Bendix Fluid Power Division Site (Site No. 633020) located in the City of Utica, Oneida County, New York, was prepared expressly for New York State Department of Environmental Conservation (NYSDEC) under the Superfund Standby Contract (Contract No. D-002472 Work Assignment No. D-002472-4). The purpose of this report is to provide information necessary for the NYSDEC to reclassify the site according to the Class 2, 3 and Delist categories described in Section 2.0 of this report. The conclusions and recommendations in the report represent E.C. Jordan's (Jordan's) professional judgement and opinion based on present, generally accepted engineering practices for preliminary site characterizations and assessment. The conclusions in this report are based on record reviews, interviews, and the site walkover performed by Jordan. The health-based regulatory standards discussed in this report may change in the future. Levels of environmental contamination that are "acceptable" by current standards may not be so in the future.

The information contained in this report may not be suitable for any other use without adaptation for the specific purpose intended. Any such reuse of or reliance on the information, assessments, or conclusions in this report without adaptation will be at the sole risk and liability of the party undertaking the reuse.

JHG/NYSDEC/70B

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1.0 EXECUTIVE SUMMARY

The Bendix Fluid Power Division (Bendix) Site, Site No. 633020, is located in the City of Utica, Oneida County, New York (Figure 1). The site was the location of two earthen-bottom disposal pits used for treating cyanide-containing wastes between 1955 and 1969. The property has been owned by Lucas Aerospace Power Transmission (Lucas) since 1988.

Bendix Fluid Power Division, from 1955 to 1969, disposed of cyanide wastes from copper and cadmium plating operations, cyanide salts from heat-treating operations, and spent cyanide strippers in two on-site disposal pits (Figure 2). These wastes were treated with excess sodium hypochlorite in the pits to neutralize the cyanides. The first disposal pit, which was constructed of earth, was operated from 1955 to 1959. A test building was constructed over Disposal Pit No. 1 in 1959. At that time, the first pit's contents were excavated and deposited in the second pit. The second pit, a concrete-walled, earthen-bottom construction, was used from 1959 until 1969. Bendix excavated, removed, and filled Disposal Pit No. 2 in the summer of 1986. Bendix voluntarily initiated the removal of the disposal pits. NUS Corporation, on behalf of EPA Region II, inspected the site in June 1986. At the time of NUS's visit, the second pit was being removed. According to Lucas personnel, NYSDEC Region 6 was informed of and were present at the time of the second pit's excavation; Jordan could not confirm whether NYSDEC personnel were present.

The cyanide wastes disposed of at the Bendix Fluid Power Division Site are identified as hazardous wastes (F007, F009, and F011) by New York State Hazardous Waste Regulations 6 NYCRR 371 (1988). The wastes were further identified as hazardous by EP Toxicity testing during the removal of Disposal Pit No. 2 in 1986. The wastes were determined to be reactive, and leachate from the EP Toxicity test exceeded maximum concentrations listed in 6 NYCRR 371.3e (1988) for cyanide and barium (Environmental Resources Management, Inc., 1986).

Four monitoring wells were installed in the vicinity of the second pit, and sampled by Stearns and Wheler for Bendix in 1984. Six additional wells were installed by Stearns and Wheler in 1985, and all ten were sampled in August 1985. Two additional sampling events occurred in October 1985 and February 1986. Environmental Resources Management, Inc. performed groundwater and soils sampling and analyses for Bendix in May 1986. Analytical results for the groundwater samples detected concentrations above New York State Department of Health's Drinking Water Standards (1990) for copper, chromium, and 1,1,1-trichloroethane, and above NYSDEC Ambient Water Quality Standards (1987) for copper, cyanide, and methylene chloride. Elevated levels of other organic and inorganic

contaminants were also detected. Groundwater flow was determined to be to the north/northwest (Stearns and Wheler, 1986). Jordan did not identify adequate data to document the nature and levels of contamination remaining after the second pit was excavated in 1986.

Because both former disposal pits have been excavated, removed, and leveled with fill soil, chemical hazards from direct contact or inhalation are not anticipated to be significant.

The closest residences are located within 0.1 miles west and east of the site boundary and are served by public water. Two private wells have been identified 0.5 miles from the site. Several schools, hospitals, and public parks are within 0.3 miles of the site.

Based on the PSA Task 1 activities conducted by Jordan, hazardous wastes, as defined by New York State Hazardous Waste Regulations 6 NYCRR 371 (1988), were disposed of at the Bendix Fluid Power Division Site. Groundwater and soil contamination has been detected on-site. The disposal pits have been excavated and re-graded with fill material. Jordan was unable to identify sufficient information to determine whether groundwater and soil contamination persist since this removal, and pose a significant threat to human health and the environment. Jordan, therefore, recommends that the site remain Class 2a and that the following activities be initiated under PSA Task 3 to evaluate the current nature and distribution of contamination:

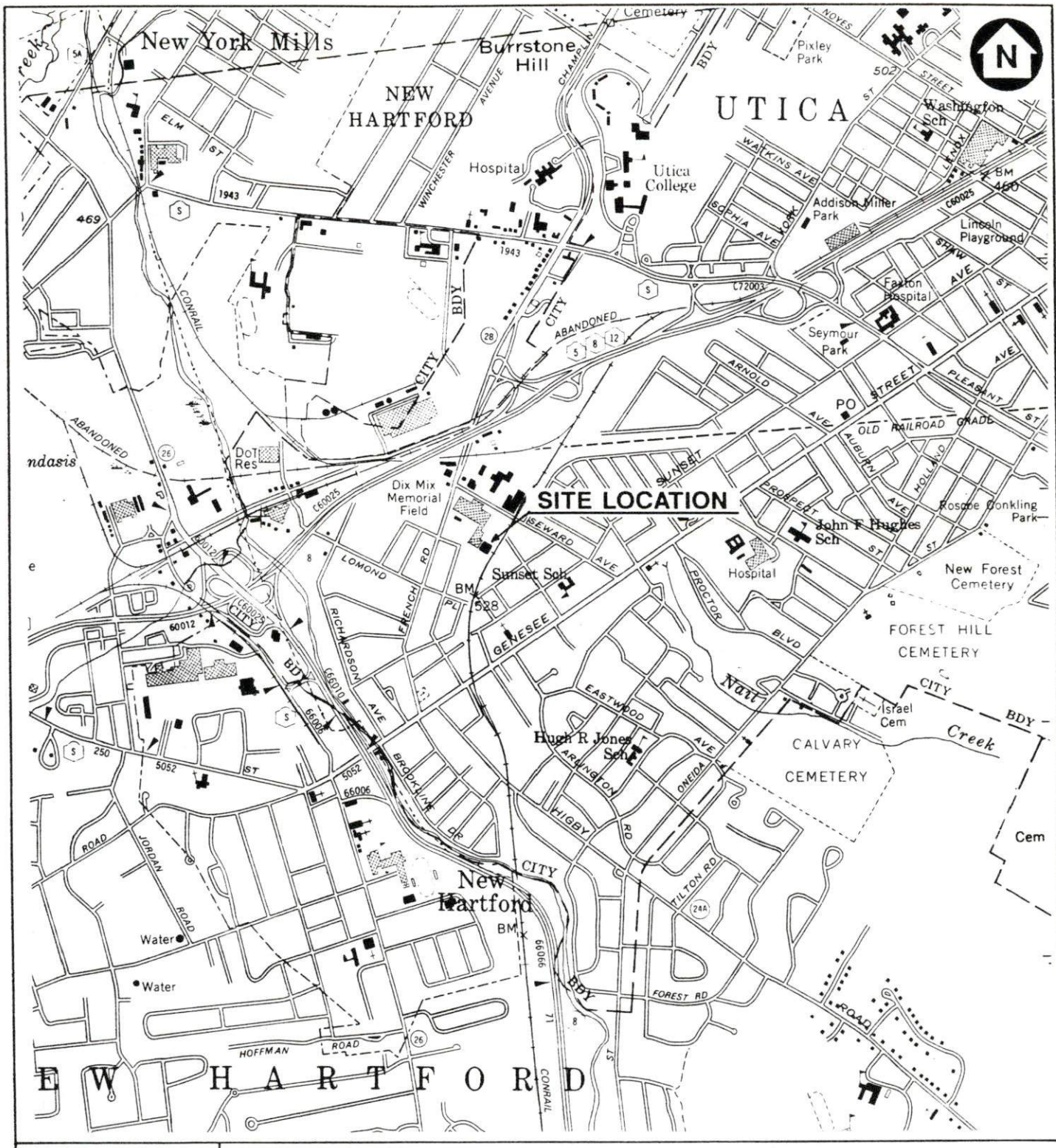
- Collect on-site soil samples in the former disposal pit areas, and analyze for the characteristic of EP Toxicity and the Target Compound List (TCL) to determine if they are hazardous as defined by New York State Hazardous Waste Regulations 6 NYCRR 371 (1988), or pose a significant threat to human health or the environment.

- Contingent upon the above results, collect groundwater samples from existing on-site monitoring wells, nearby private wells, and subsurface drainage features (i.e., storm sewers) of the site. These samples should be analyzed for the TCL to determine if NYSDOH Drinking Water Standards (1990) or NYSDEC Ambient Water Quality Standards (1987) are contravened.

Contingent upon the above results, Jordan recommends the following activities under PSA Task 4:

- Conduct a detailed records search to identify the former location of Disposal Pit No. 1, beneath the Bendix Test Building.

- Install additional groundwater monitoring wells downgradient of the former location of the Disposal Pit No. 1 to determine if NYSDOH Drinking Water Standards (1990) or NYSDEC Ambient Water Quality Standards (1987) are contravened.



QUADRANGLE LOCATION

SOURCE: N.Y.S. DEPARTMENT OF TRANSPORTATION, UTICA WEST QUADRANGLE.
DATED 1978, 7.5 MINUTE SERIES.

SITE NO: 633020

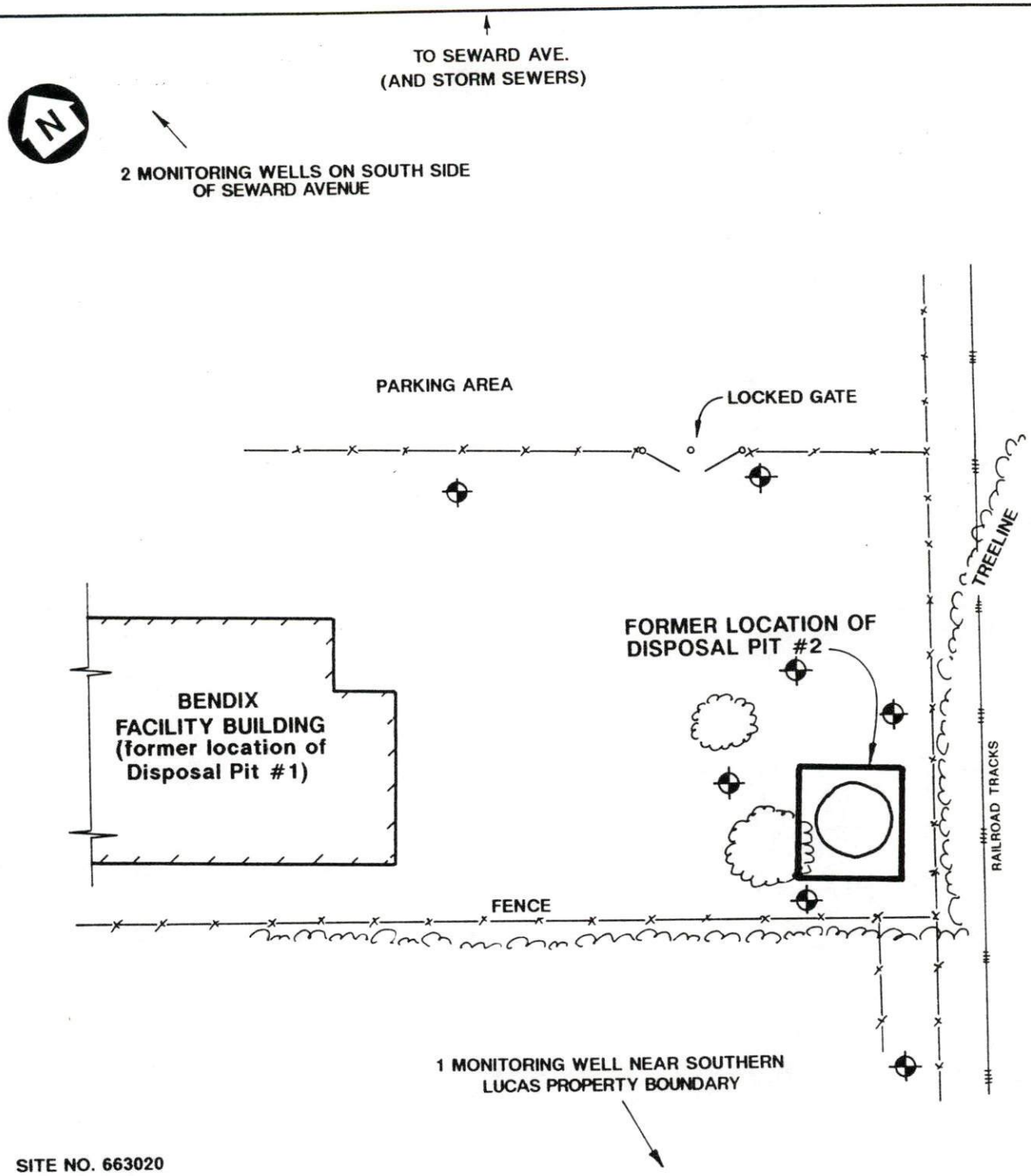
LOCATION: CITY OF UTICA
ONEIDA COUNTY, N.Y.

SCALE IN FEET

0 2,000 4,000

FIGURE 1
SITE LOCATION MAP
BENDIX FLUID POWER DIVISION SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

6247-01



SITE NO. 663020

LOCATION: CITY OF UTICA
ONEIDA COUNTY

LEGEND

⊕ MONITORING WELL LOCATION

SOURCE: PHASE I INVESTIGATION FOR
NYSDEC BY RECRA RESEARCH, INC.,
AMHEARST, NY AUGUST 1985

FIGURE 2
SITE SKETCH MAP
BENDIX FLUID POWER DIVISION SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

NOT TO SCALE

47-15-25 (2/90)—9d

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION

Original—BHSC
Copy—REGION
Copy—DEE
Copy—DOH

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

1. SITE NAME	2. TAX MAP NO.	3. TOWN	4. COUNTY
Bendix Fluid Power Division	329.07	Utica	Oneida

5. REGION	6. CLASSIFICATION	7. ACTIVITY
6	☐ Current ☐ Proposed	☐ Add ☐ Reclassify ☐ Delist ☒ Modify Description as indicated

8. DESCRIBE LOCATION OF SITE

The Bendix facility is located on the southeast corner of French Road and Seward Ave., just west of Genesee Street in the southern section of Utica.

b. Site Latitude 43°04'59" longitude 75°16'47"

c. A USGS Topographic Map is attached showing site location ☒ Yes Quadrangle Utica West ☐ No

9. BRIEFLY DESCRIBE THE SITE

Cyanide waste from copper and cadmium plating operations; spent cyanide strippers; and cyanide salts from heat-treating operations were disposed of in two disposal pits between 1955 and 1969. Cyanide wastes were treated with sodium hypochlorite in the disposal pits to neutralize the cyanides. In 1959, the first pit was excavated. In 1986, the second pit was excavated, removed and the site regraded.

b. Area 1 acres c. DEC ID Number 633020 d. EPA ID Number NYD002244911

e. PA/SI ☒ Yes ☐ No f. DEC Investigation ☐ None ☒ Phase I ☐ Phase II ☐ Other

g. A Property Survey Map is attached showing disposal areas ☐ Yes ☐ No

10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS STORED/DISPOSED OF AT THIS SITE

Spent cyanide plating solutions, containing copper and cadmium cyanides, of unknown quantities were treated on-site from 1955 to 1969.

11. SUMMARIZED SAMPLING DATA ATTACHED

☐ Air ☐ Groundwater ☐ Surface Water ☐ Soil ☐ Waste ☐ EP Tox.

b. List contravened parameters and values

No samples were collected during this site visit.

12. PLEASE PROVIDE THE FOLLOWING INFORMATION

a. Distance to nearest surface water 4,000 ft. Classification C (Sauquoit Creek)

b. Depth to nearest groundwater 14-20 ft. ☒ Aquifer ☐ Sole Source ☐ Primary ☐ Principal

c. Distance to nearest water supply 2,500 ft. Classification Private

d. Is site used for agricultural purposes (crops or livestock)? ☐ Yes ☒ No

e. Is access to site controlled (e.g. fences, gates)? ☒ Yes ☐ No

f. Has site documented fish or wildlife mortality? ☐ Yes ☒ No

g. Has site impacted on a special status fish or wildlife resource? ☐ Yes ☒ no

h. Is the site within a State Economic Development Zone? ☐ Yes ☐ No

i. For Class 2a, Health Model Score. ☐ Yes _____ ☐ No

j. For Class 2, Priority Category. ☐ 1 ☐ 2 ☐ 3 Reason _____

k. HRS Score ☐ Yes _____ ☒ No

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Lucas Aerospace PTC	211 Seward Avenue, Utica, NY	(315) 793-1301

16. APPROVAL

Date _____ Signature and Title _____

2.0 PURPOSE

Task 1, Data Records Search and Assessment, of a Preliminary Site Assessment (PSA) was conducted at the Bendix Fluid Power Division (Bendix) Site, Site No. 633020, in Utica, New York, by E.C. Jordan Co. (Jordan) under contract to the New York State Department of Environmental Conservation (NYSDEC) Superfund Standby Contract (Contract No. D-0024762, Work Assignment No. D-002472-4).

The Bendix Fluid Power Division Site is a suspected inactive hazardous waste site recognized by NYSDEC. This site is currently classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment. The purpose of a PSA is to provide the information necessary for NYSDEC to reclassify the site according to the following classifications:

Class 2 - Hazardous waste sites presenting a significant threat to the public health or the environment.

Class 3 - Hazardous waste sites not presenting a significant threat to the public health or the environment.

Delist - Sites where hazardous waste disposal is not documented.

3.0 SCOPE OF WORK

Task 1 of a Preliminary Site Assessment consists of two data-gathering tasks: a file review/records search and a site walkover. Specific activities performed for the Bendix Fluid Power Division Site under these tasks are described in the following sections.

3.1 File Reviews

The Jordan project team began collecting information on the Bendix Fluid Power Division Site at the NYSDEC Central office in Albany, New York between May 14 and 18, 1990. In addition, Jordan personnel visited the New York State Department of Health and the United States Geological Survey, and contacted the New York Geological Survey, also in Albany.

During the week of June 4, 1990, the Jordan team visited the City of Utica's municipal offices and Oneida County's offices also in Utica. Property ownership information was researched through the Real Property Tax office at the Oneida County Office Building. Jordan also obtained information from the NYSDEC regional offices in Watertown, New York. The following individuals were interviewed at the municipal, county and regional offices:

Peter Ouderkirk
Assistant Sanitary Engineer
NYSDEC Region 6 DHWR
Washington Street
Watertown, New York 13601
(315) 785-2513

Donald E. Weimer, Senior Engineer
Board of Water Supply
City of Utica
1 Kennedy Plaza
P.O. Box 345
Utica, New York 13501
(315) 792-0326

Jessica Breiten, Associate Planner
Herkimer-Oneida Counties Comprehensive
Planning Program
800 Park Avenue
Utica, New York 13501
(315) 798-5713

Louis Ferraro, Public Health Engineer
Oneida County Health Department
800 Park Avenue
Utica, New York 13501
(315) 798-5064

Michael Wolak, Deputy Commissioner
Oneida County Department of Solid Waste Management
800 Park Avenue
Utica, New York 13501
(315) 798-5474

3.2 Site Walkover

On June 5, 1990, a site walkover was conducted at the Bendix Fluid Power Division Site. The following individuals attended the visit:

Name	Title	Affiliation
Charles F. Rossoll	PSA Manager	E.C. Jordan Co.
Julie-Anne Burdick	Chemical Engineer	E.C. Jordan Co.
Guy Bobersky	Sr. Sanitary Engineer	NYSDEC (Albany)
Valerie Doolittle	Engineering Geologist	NYSDEC (Albany)
Peter Ouderkirk	Assistant Sanitary Engineer	NYSDEC Region 6
Mike Sirowich	Assistant Sanitary Engineer	NYSDEC Region 6
David Campola	General Supervisor	Lucas Aerospace
Michael Woodworth	Safety and Environmental Control Supervisor	Lucas Aerospace

The project team arrived at the site at 8:00 a.m. After initial discussions, the team reviewed the files and other information available on the site. The walkover began at 11:00 a.m. A photoionization detector, a radiation detector, and an explosimeter/oxygen meter were calibrated prior to entering the site. The field team used the instruments during the visit to monitor any anomalous readings of the measured parameters. The resulting data was used to verify that worker health and safety were protected.

The field team entered the site from Seward Avenue, to the north (see Figure 2). Jordan personnel traversed the site in a clockwise direction and observed current site conditions. The team walked the entire site area in the vicinity of the pits and the area surrounding the site. Photographs of the site were taken to be included in the site file. The site walkover was completed at 11:30 a.m.

4.0 SITE ASSESSMENT

A summary of Jordan's records search and site walkover activities is presented in the following section. Included with this summary is an overview of the site history, topography, and hydrology, and an assessment of the contamination.

4.1 Site History

The Bendix Fluid Power Division Site is located on the southeast corner of property owned by Lucas Aerospace Power Transmission Corporation (Lucas) (Oneida County, 1990). Bendix Fluid Power Division operated two waste disposal pits at the site from 1955 to 1969. The first pit operated from 1955 to 1959 and was of earthen construction. The second pit, an earthen-bottomed, concrete-walled pit, was operated from 1959 to 1969. During this time, cyanide wastes from copper and cadmium plating operations, spent cyanide strippers, and cyanide salts from heat-treating operations were disposed of in two disposal pits. These wastes were treated with excess amounts of sodium hypochlorite in the pits to neutralize the cyanides (Recra Research, Inc., 1985).

A test building was constructed in 1959 over Disposal Pit No. 1 (see Figure 2). The entire contents of the first pit were excavated and deposited in the second pit. The second pit was used until 1969. Inactive since 1969, Bendix initiated the excavation and removal of Disposal Pit No. 2 in the summer of 1986. The entire pit contents, concrete walls, and surrounding several feet of soil were excavated and disposed of off-site. Results of soil sampling and analysis conducted at the time of the closure of the pit are discussed in Section 4.4. The pit was then backfilled with silty sand and overlain with topsoil (Environmental Resources Management, Inc., 1986).

Manufacturing process wastes are currently pretreated and discharged to the municipal sewer system. The property was purchased in 1988 by Lucas. The firm continues to operate the facility, which manufactures aircraft components.

4.2 Site Topography

The Bendix Fluid Power Division Site is approximately 1 acre in size. As shown on Figure 1, the Site Location Map, the site is bordered on the west by Dix Mix Memorial Field, a recreational area; on the south and east by residential areas; and on the north by industrial facilities. According to Federal Emergency Management Agency (FEMA) maps, the site does not lie within a 100-year floodplain, although it is relatively flat and level over most of the local area (FEMA, 1984). The site was graded with fill material in 1986 and seeded.

The area within a one-half mile radius of the site is a combination of residential, commercial, and industrial development. Areas beyond a one-half mile radius are residential in all directions from the site. Although most residences within 1 mile of the site are supplied with public water (see Figure 1), two private wells have been identified 0.5 miles west of the site (NUS Corporation, 1986).

4.3 Site Hydrology

The following is a description of the hydrogeologic setting at the Bendix Fluid Power Division Site in Utica, New York.

Surface Water Hydrology. The Bendix Fluid Power Division Site lies on a fairly flat area which locally slopes gently to the north. At the time of Jordan's walkover, June 1990, the site appeared well-drained with no wet areas; drainage is facilitated by storm sewers along Seward Avenue which reportedly discharge to Sauquoit Creek (Recra Research, 1985). Although local surface slope is to the north, the site is located in a valley tributary to Sauquoit Creek, 0.7 miles west of the site (see Figure 1). Sauquoit Creek flows north to the Mohawk River, 4 miles downstream.

Two freshwater wetlands have been identified by NYSDEC in the vicinity of the site. One is 1.7 miles to the west; the other 1.9 miles to the southwest (Ozard, 1990). Both wetlands are located in different drainage basins than the site, and are not likely to be impacted by the Bendix Fluid Power Division Site.

Groundwater Hydrology. Monitoring wells installed at the site (see Figure 2) indicate that groundwater is 14 to 20 feet below the ground surface. Surveyed groundwater elevations from these wells were plotted by Stearns and Wheler to generate groundwater contour maps. These amps show groundwater flow direction to be to the north-northwest (Stearns and Wheler, 1986).

The soils at the site are classified as Lima silt loams (Recra Research, Inc., 1985). These soils are deep, moderately well-drained, and have a medium texture. Surficial geology of the site is composed primarily of well sorted, stratified lacustrine sands (Cadwell and Dineen, 1987). This unconfined aquifer is identified as capable of yielding 10 to 100 gpm (Bugliosi et.al, 1987). Bedrock underlying the site is of the Frankfort Formation, which is composed of shale and siltstone.

The immediate site and most of the surrounding area are served by the City of Utica Board of Water Supply. The City's source of water is Hinckley Reservoir, which is located 18 miles to the northeast. The nearest identified drinking water wells are two serving private residences 0.5 miles west of the site (NUS Corporation, 1986).

4.4 Contamination Assessment

In 1984, a limited site investigation was conducted by Stearns and Wheler for Bendix. Four groundwater wells were installed on-site. They were sampled and analyzed for copper, chromium, silver, cyanide, and chloroform. In August 1985, Stearns and Wheler installed six additional monitoring wells on-site and adjacent to the site. The ten wells were subsequently sampled in August 1985, October 1985, and February 1986. These samples were analyzed for chromium, copper, cyanide, chloride, chloroform, 1,1,1-trichloroethane, and methylene chloride (Stearns and Wheler, 1986). Environmental Resources Management, Inc. (ERM) performed limited groundwater sampling and analyses for Bendix in May 1986. Soil samples were also collected by ERM during excavation of the second pit in May and July 1986, and analyzed for metals. All of the above analyses confirmed the presence of elevated levels of organic and inorganic compounds in the soil and groundwater samples.

The following levels of metals were detected in samples collected from soils excavated from the second disposal pit in May and July 1986: chromium (16 to 1760 mg/kg); copper (26 to 789 mg/kg); cyanide (8 to 86 mg/kg); and hexavalent chromium (1.5 to 65 mg/kg). (Environmental Resources Management, Inc., 1986).

The following ranges of groundwater contaminants have been detected on-site between 1984 and 1986: cyanide (0 to 30 ug/l); copper (30 to 6500 ug/l); chromium (0 to 268 ug/l); chloroform (2 to 17 ug/l); 1,1,1-trichloroethane (0 to 20 ug/l); and methylene chloride (0 to 260 ug/l) (Environmental Resources Management, Inc., 1986).

The potential for air contamination does not currently exist at the Bendix Fluid Power Division Site. The property was leveled to surrounding grade using fill material, covering the old disposal pits. However, volatile organic and inorganic compounds are present in groundwater based on previous sampling events. The possibility of releasing volatile organic and inorganic compounds to the air exists if the site is disturbed.

5.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

5.1 Hazardous Waste Deposition

Based on the information available to Jordan personnel regarding the operation of the Bendix facility, deposition of hazardous wastes has been documented at this site. Wastes deposited on-site have been described by Bendix as cyanide plating wastes, cyanide stripping and cleaning wastes, and cyanide salt solutions (Recra Research, Inc., 1985). These categories of wastes are identified as F007, F009, and F011 hazardous wastes, respectively, in New York State Hazardous Waste Regulations 6NYCRR 371.4b (1988). The wastes were further identified as hazardous by EP Toxicity testing performed during the removal of Disposal Pit No. 2 in 1986. The wastes were determined reactive, and the leachate exceeded maximum concentrations listed in 6 NYCRR 371.3e (1988) for cyanide and barium (Environmental Resources Management, Inc., 1986). Jordan was unable to locate the hazardous waste manifests for removal of these wastes when the pit was excavated.

Jordan was unable to discern, based on previous sampling and analysis, whether significant concentrations of organic or inorganic contaminants remain on-site. Most previous sampling events occurred prior to the second pit being removed and the site being filled and leveled.

5.2 Significant Threat Determination

The chemical contamination potentially present at the Bendix Fluid Power Division Site may pose a threat to human health and the environment, especially to abutting property owners. Sampling and analyses performed at the site between 1984 and 1986 detected inorganic and organic contaminants in groundwater, and inorganic contaminants in the soil (see Section 4.4). Site soils were not analyzed for organic compounds. Contaminant levels in groundwater exceeded NYSDOH Drinking Water Standards (1990) for copper, chromium, and 1,1,1-trichloroethane, and exceeded NYSDEC Ambient Water Quality Standards (1987) for copper, chromium, and methylene chloride. Jordan was unable to locate adequate soil and groundwater data to represent conditions since Disposal Pit No. 2 was removed. No soil or downgradient groundwater data was available for Disposal Pit No. 1. Jordan was, therefore, unable to determine whether the site presently poses a significant threat to human health or the environment.

Contaminated groundwater could discharge to surface water or basements becoming a source of potential exposure. Storm sewers draining the site along Seward Avenue could provide an additional migration pathway. Although public water is supplied to residents and businesses in the vicinity of the site, two private wells are located 0.5 miles west of the site.

The site was graded using fill material, and access to the site at the time of Jordan's walkover was restricted. Therefore, direct contact with the wastes and inhalation are not potential hazards.

The nearest critical habitat, according to the New York Natural Heritage Program, is that of the round-leaved orchis, a rare plant species located two miles west of the site (Ozard 1990). This is not the habitat of an endangered species, nor is it expected to be adversely affected by the Bendix Fluid Power Division Site due to its location in a separate drainage basin.

5.3 Recommendations

Based on the PSA Task 1 activities conducted by Jordan, hazardous wastes, as defined by New York State Hazardous Waste Regulations 6 NYCRR 371, (1988) were disposed of at the Bendix Fluid Power Division Site. Groundwater and soil contamination was detected on-site before the disposal pits were excavated and re-graded with fill material. Jordan was unable to identify sufficient information to determine whether groundwater and soil contamination persist since this removal, and whether the site poses a significant threat to human health and the environment. Jordan, therefore, recommends that the site remain Class 2a and that the following activities be initiated under PSA Task 3 to evaluate the current nature and distribution of contamination:

- Collect on-site soil samples in the former disposal pits areas, and analyze for the characteristic of EP Toxicity and the Target Compound List (TCL) to determine if they are hazardous as defined by New York State Hazardous Waste Regulations 6 NYCRR 371 (1988), or pose a significant threat to human health or the environment.

- Contingent upon the above results, collect groundwater samples from existing on-site monitoring wells, nearby private wells, and subsurface drainage features (i.e., storm sewers) of the site. These samples should be analyzed for the TCL to determine if NYSDOH Drinking Water Standards (1990) or NYSDEC Ambient Water Quality Standards (1987) are contravened.

Contingent upon the above results, Jordan recommends the following activities under PSA Task 4:

- Conduct a detailed records search to identify the former location of Disposal Pit No. 1, beneath the Bendix Test Building.

- Install additional groundwater monitoring wells downgradient of the former location of the Disposal Pit

No. 1 to determine if NYSDOH Drinking Water Standards (1990) or NYSDEC Ambient Water Quality Standards (1987) are contravened.

APPENDIX A

BIBLIOGRAPHY

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APPENDIX B

SITE INSPECTION FORM
(USEPA FORM 2070-13)

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

EPA

I. IDENTIFICATION

01 STATE	01 SITE NUMBER
New York	D002244911

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Bendix Fluid Power Division Site	211 Seward Avenue

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST
Utica	New York	13502	Oneida		25

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
43 04 59.0	075 16 47.0	X A. PRIVATE _ B. FEDERAL _____ _ C. STATE _ D. COUNTY _ E. MUNICIPAL _ F. OTHER _____ _ G. UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
6 / 5 / 90 (MONTH DAY YEAR)	_ ACTIVE X INACTIVE	1955 (BEGINNING YEAR) 1969 (ENDING YEAR) ___ UNKNOWN

04 AGENCY PERFORMING INSPECTION (Check all that apply)
_ A. EPA _ B. EPA CONTRACTOR _____ (Name of firm) _ C. MUNICIPAL _ D. MUNICIPAL CONTRACTOR _____ (Name of firm)
_ E. STATE X F. STATE CONTRACTOR E.C. Jordan Co. (Name of firm) _ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Charles Rossoll	Hydrogeologist	E.C. Jordan Co.	(207) 775-5401
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Julie-Anne Burdick	Chemical Engineer	E.C. Jordan Co.	(207) 775-5401
Valerie Doolittle	Engineering Geologist	NYSDEC	(518) 457-0638
Guy Bobersky	Sr. Sanitary Engineer	NYSDEC	(518) 457-0638
Peter Ouderkirk	Assistant Sanitary Engineer	NYSDEC Region 6	(315) 785-2513
Mike Sirowich	Assistant Sanitary Engineer	NYSDEC Region 6	(315) 785-2513

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
David Campola	General Superv.	Lucas Aerospace 211 Seward Avenue, Utica, New York	(315) 793-1301
Michael Woodworth	Safety Superv.	Lucas Aerospace 211 Seward Avenue, Utica, New York	(315) 793-1241
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION ☐ WARRANT	08:00	Clear, cool, temperature in 50's

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Guy Bobersky	New York State Department of Environmental Conservation	(518) 457-0638

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	03 DATE
Charles Rossoll		E.C. Jordan Co.	(207) 775-5401	6 / 25 / 90 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- X A. SOLID
- _ B. POWDER, FINES
- _ C. SLUDGE
- _ D. OTHER _____ (Specify)
- _ E. SLURRY
- X F. LIQUID
- _ G. GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS _____
- CUBIC YARDS unknown
- NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

- X A. TOXIC
- _ B. CORROSIVE
- _ C. RADIOACTIVE
- X D. PERSISTENT
- _ E. SOLUBLE
- _ F. INFECTIOUS
- _ G. FLAMMABLE
- _ H. IGNITABLE
- _ I. HIGHLY VOLATILE
- _ J. EXPLOSIVE
- X K. REACTIVE
- _ L. INCOMPATIBLE
- _ M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown		Plating and heat treat solutions containing cyanide
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		Plating wastes containing copper and chromium

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04/STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
IOC	Cyanide	57-12-5	Disposal pits	ND-0.03	mg/l in groundwater
MES	Copper	7440-50-8	Disposal pits	0.030-6.5	mg/l in groundwater
MES	Chromium	7440-47-3	Disposal pits	ND-0.268	mg/l in groundwater
OCC	Chloroform	67-66-3	Disposal pits	2-17	ug/l in groundwater
OCC	111-Trichloroethane	71-55-6	Disposal pits	ND-20	ug/l in groundwater
OCC	Methylene Chloride	75-09-2	Disposal pits	ND-260	ug/l in groundwater
IOC	Chloride	--	Disposal pits	40-100	mg/l in groundwater
IOC	Cyanide	57-12-5	Disposal pits	8-86	mg/kg in soil
MES	Copper	7440-50-8	Disposal pits	26-789	mg/kg in soil
MES	Chromium	7440-47-3	Disposal pits	16-1760	mg/kg in soil

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	none identified		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 X OBSERVED (DATE: 1984-1986) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10-100 — 04 NARRATIVE DESCRIPTION

Groundwater samples from 10 on-site monitoring wells indicated the presence of volatile organic compounds and heavy metals (see Part 2 for results).

01 X B. SURFACE WATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10-100 — 04 NARRATIVE DESCRIPTION

Potential groundwater contamination could discharge to surface waters.

01 _ C. CONTAMINATION OF AIR — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Very slight potential. Disposal pit operations ceased in 1969. Property is seeded with grass in the location of pit.

01 _ D. FIRE/EXPLOSIVE CONDITIONS — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None indicated.

01 _ E. DIRECT CONTACT — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Access to Bendix property is restricted and pits were reportedly excavated in 1986.

01 X F. CONTAMINATION OF SOIL — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 ACREAGE AFFECTED: 1 acre — 04 NARRATIVE DESCRIPTION

Past operations indicate the potential of contaminants to have leached into adjacent soils.

01 X G. DRINKING WATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10-100 — 04 NARRATIVE DESCRIPTION

Although most drinking water in the area is supplied by Utica City water system from an off-site source, two private wells have been identified 0.5 miles from the site.

01 _ H. WORKER EXPOSURE/INJURY — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None indicated.

01 _ I. POPULATION EXPOSURE/INJURY — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

Access is restricted by chainlink fence and 24-hour guard. Site is not adjacent to residences.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT *PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS*	I.IDENTIFICATION	
		01 STATE New York	01 SITE NUMBER D002244911

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 _ J. DAMAGE TO FLORA — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

None indicated.

01 _ K. DAMAGE TO FAUNA — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)

None indicated.

01 _ L. CONTAMINATION OF FOOD CHAIN — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
04 NARRATIVE DESCRIPTION

None indicated.

01 _ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None indicated.

01 _ N. DAMAGE TO OFFSITE PROPERTY — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None indicated.

01 X O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 100-1,000 — 04 NARRATIVE DESCRIPTION

Groundwater contamination could infiltrate on-site storm drains if the groundwater table intercepted these pipes.

01 _ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 _ OBSERVED (DATE: _____) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None indicated.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None indicated.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 100-1,000

IV. COMMENTS

Total population potentially affected based on migration of potentially contaminated groundwater to private wells, surface waters and storm drains.

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
_ A. NPDES				
_ B. UIC				
_ C. AIR				
_ D. RCRA				
_ E. RCRA INTERIM STATUS				
_ F. SPCC PLAN				
_ G. STATE (specify)				
_ H. LOCAL (specify)				
_ I. OTHER (specify)				
X J. NONE				No known permits

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
_ A. SURFACE IMPOUNDMENT		
_ B. PILES		
_ C. DRUMS, ABOVE GROUND		
_ D. TANK, ABOVE GROUND		
_ E. TANK, BELOW GROUND		
_ F. LANDFILL		
_ G. LANDFARM		
_ H. OPEN DUMP		
X I. OTHER Disposal pit (specify)	unknown	

04 TREATMENT (check all that apply)

_ A. INCINERATION
_ B. UNDERGROUND INJECTION
_ C. CHEMICAL/PHYSICAL
_ D. BIOLOGICAL
_ E. WASTE OIL PROCESSING
_ F. SOLVENT RECOVERY
_ G. OTHER RECYCLING/RECOVERY
X H. OTHER Disposal pit (specify)

05 OTHER
X A. BUILDINGS ONSITE

06 AREA OF SITE

< 1 acre (acres)

07 COMMENTS

Disposal pit operations ceased in 1969. No permits were identified to be associated with the operation.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (check one)

_ A. ADEQUATE, SECURE _ B. MODERATE X C. INADEQUATE, POOR _ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

Unlined pits have been excavated and filled with off-site soils.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: _ YES X NO
02 COMMENTS

One disposal pit was excavated into the second and a building was constructed over its former location. The second disposal pit was excavated and removed from the site in 1986.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

EPA

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	01 SITE NUMBER
New York	D002244911

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (check as applicable)	SURFACE	WELL
COMMUNITY	A. X	A.
NON-COMMUNITY	B. _	B. X

02 STATUS		
ENDANGERED	AFFECTED	MONITORED
A. _	B. _	C. X
D. X	E. _	F. _

03 DISTANCE TO SITE	
A. 18	(mi)
B. 0.5	(mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (check one)

_ A. ONLY SOURCE FOR DRINKING

X B. DRINKING (other sources available)
COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

_ C. COMMERCIAL INDUSTRIAL IRRIGATION (Limited other sources available)

_ D. NOT USED, UNUSABLE

02 POPULATION SERVED BY GROUNDWATER 10-100

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.5 (mi)

04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
14-20 (ft)	north-northwest	14-20 (ft)	> 10,000 (gpd)	_ YES X NO

09 DESCRIPTION OF WELLS (including usage, depth, and location relative to population and buildings)

Nine monitoring wells have been installed on-site, mostly in the immediate vicinity of the site. The average depth of these wells is 26 feet. Two wells serving private residences lie 0.5 miles west of the site.

10 RECHARGE AREA		11 DISCHARGE AREA	
X YES _ NO	COMMENTS - Local groundwater may be recharged through coarse on-site soils.	_ YES X NO	COMMENTS

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

_ A. RESERVOIR, RECREATION DRINKING WATER SOURCE

_ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES

_ C. COMMERCIAL INDUSTRIAL

X D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Sauquoit Creek	_	0.7 (mi)
	_	(mi)
	_	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE
A. 10,000 NO. OF PERSONS	B. 15,000 NO. OF PERSONS	C. 25,000 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION: 0.1 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
5,000	0.1 (mi)

05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within written vicinity of site, e.g., rural, village, densely populated urban area)

Site is located in a commercial/industrial area. Dense residential development is located within 0.1 mile to the south and east.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	01 SITE NUMBER
New York	D002244911

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

_ A. 10^{-6} - 10^{-8} cm/sec X B. 10^{-4} - 10^{-6} cm/sec _ C. 10^{-4} - 10^{-3} cm/sec _ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

_ A. IMPERMEABLE (less than 10^{-6} cm/sec) _ B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) X C. RELATIVELY PERMEABLE (10^{-2} - 10^{-4} cm/sec) _ D. VERY PERMEABLE (Greater than 10^{-2} cm/sec)

03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL Ph	
Approximately 50 (ft)	unknown (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
Approximately 17 (in)	2.3 (in)	1 %	north	1 %

09 FLOOD POTENTIAL

SITE IS IN > 100 YEAR FLOODPLAIN

10 _ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. _____ (mi) OTHER: B. 1.7 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

2.0 (mi)

(Rare) ENDANGERED SPECIES: Round-leaved orchis

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AGRICULTURAL LANDS AG LAND
A. 0 (mi)	B. 0.1 (mi)	C. _____ (mi)	D. > 1 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Topography of the Utica area consists predominantly of rolling hills. The immediate site area is relatively flat and slopes gently northward at an approximate 1 percent grade.

VII. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 6 - SAMPLE AND FIELD INFORMATION

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. SAMPLES TAKEN - No samples were collected during the E.C. Jordan site walkover.

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER			
SURFACE WATER			
WASTE			
AIR			
RUNOFF			
SPILL			
SOIL			
VEGETATION			
OTHER			

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Photoionization detector	No readings above background
Radiation detector	No readings above background
LEL/O_2 meter	No changes from background

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND X AERIAL

02 IN CUSTODY OF Guy Bobersky, NYSDEC
(Name of organization or individual)

03 MAPS
X YES
_ NO

04 LOCATION OF MAPS
Guy Bobersky, NYSDEC, 50 Wolf Road, Albany, New York

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

No other field data collected during the 6/5/90 site walkover.

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D002244911

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Lucas Aerospace Power Transmission Corp.		211 Seward Avenue		Utica	New York	13503

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Bendix Fluid Power Division		211 Seward Avenue		Utica	New York	13503

IV. REALTY OWNER(S) (If applicable; list most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE	08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE	08 YEARS OF OPERATION	09 NAME OF OWNER
Bendix Fluid Power Division		211 Seward Avenue		Utica	New York	13503		

PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE	14 CITY	15 STATE	16 ZIP CODE
Allied Signal Corporation		unknown				

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D002244911

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER	
Bendix Fluid Power Division		
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE	07 ZIP CODE

III. OFF-SITE GENERATOR(s)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
None identified.			
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
CECOS International, Inc.			
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2321 Kenmore Avenue	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY Buffalo	06 STATE New York / 07 ZIP CODE 14207	05 CITY	06 STATE / 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE / 07 ZIP CODE	05 CITY	06 STATE / 07 ZIP CODE

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co. and references cited therein.

Oneida County Registry of Deeds.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 10 - PAST RESPONSE ACTIVITIES

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. PAST RESPONSE ACTIVITIES

01 _ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 X E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

First disposal pit was excavated into the second in the late 1950's. Second disposal pit was excavated and removed in 1986.

01 _ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 X G. WASTE DISPOSED ELSEWHERE — 02 DATE 1986 — 03 AGENCY _____
04 DESCRIPTION

The second disposal was excavated in 1986. Excavated material was hauled off-site.

01 _ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ O. EMERGENCY DIKING/SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ P. CUTOFF TRENCHES/SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 _ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I.IDENTIFICATION	
		01 STATE New York	01 SITE NUMBER D002244911

II. PAST RESPONSE ACTIVITIES (Continued)

01 04	R. BARRIER WALLS CONSTRUCTED DESCRIPTION	02 DATE	03 AGENCY
01 04	S. CAPPING/COVERING DESCRIPTION	02 DATE	03 AGENCY
01 04	T. BULK TANKAGE REPAIRED DESCRIPTION	02 DATE	03 AGENCY
01 04	U. GROUT CURTAIN CONSTRUCTED DESCRIPTION	02 DATE	03 AGENCY
01 04	V. BOTTOM SEALED DESCRIPTION	02 DATE	03 AGENCY
01 04	W. GAS CONTROL DESCRIPTION	02 DATE	03 AGENCY
01 04	X. FIRE CONTROL DESCRIPTION	02 DATE	03 AGENCY
01 04	Y. LEACHATE TREATMENT DESCRIPTION	02 DATE	03 AGENCY
01 04	Z. AREA EVACUATED DESCRIPTION	02 DATE	03 AGENCY
01 04	1. ACCESS TO SITE RESTRICTED DESCRIPTION	02 DATE	03 AGENCY
01 04	2. POPULATION RELOCATED DESCRIPTION	02 DATE	03 AGENCY
01 04	3. OTHER REMEDIAL ACTIVITIES DESCRIPTION	02 DATE	03 AGENCY

IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.

EPA

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 11 - ENFORCEMENT INFORMATION

I.IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D002244911

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION _ YES _ NO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

NYSDEC completed a Phase I Investigation in August 1985. USEPA completed a Site Inspection Report and Hazard Ranking System Model for the Bendix Site in August 1986.

The Bendix Site is classified 2a on the New York State Registry of Inactive Hazardous Waste Disposal Sites.

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

Preliminary Site Assessment Report, June 1990, E.C. Jordan Co., and references cited therein.