NYSDEC SUPERFUND STANDBY CONTRACT
WORK ASSIGNMENT NO. D002472-6.1

PRELIMINARY SITE ASSESSMENT EVALUATION REPORT OF INITIAL DATA VOLUME I

LSB WAREHOUSING SITE
VILLAGE OF BLASDELL, NEW YORK

SITE NO. 915132

Submitted to:

New York State Department of Environmental Conservation
Albany, New York

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PRELIMINARY SITE ASSESSMENT
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EXECUTIVE SUMMARY

The LSB Warehousing site, Site No. 915132, is a 1.65-acre site located in the Village of Blasdell, Erie County, New York. The property was used by LSB Warehousing, a trucking firm, from 1976 to 1984. Manufacturer's Hanover Trust Company repossessed the property in 1987, and the site is currently not in use. The site history before 1976 is not known; however, 1960 aerial photographs show the site to be vegetated and undeveloped (E.C. Jordan Co., 1991a).

The Erie County Department of Environment and Planning (ECDEP) conducted a site walkover in 1985 in response to a report of an abandoned, overturned tanker. The ECDEP found the tanker empty but noted that the western part of the site had been used as an unauthorized landfill and that numerous waste containers were present. As a result of the walkover, ECDEP recommended that the area be "placed on the DEC list for further investigation, testing, and classification" (ECDEP, 1985). In 1989, Manufacturer's Hanover employed a contractor to improve the appearance of the site by removing abandoned vehicles, tires, and wood and metal debris. At this time, Manufacturer's Hanover had the contents of four 55-gallon containers sampled and analyzed in preparation for removal.

The results of the container-content sampling and analysis indicated that hazardous waste was present at the site. Two of the four container samples exceeded the Extraction Procedure (EP) Toxicity criterion for lead. In September 1989, Manufacturer's Hanover authorized container removal at the site. The four containers that were sampled were removed from the site by Tonawanda Tank Transport and shipped to Chem Met Services in Michigan. The site location of these containers was not documented prior to removal.

The site is currently a Class 2a site listed in the New York State Department of Environmental Conservation (NYSDEC) Registry of Inactive Hazardous Waste Sites. Although there has been documented past disposal of hazardous waste on site, the source was removed and there were no data to establish whether a significant threat to public health or the environment exists. NYSDEC personnel have participated in several of the site walkovers since the site was brought to their attention in 1985, although all sampling and removal actions have been the actions of Manufacturer's Hanover. ABB Environmental Services (formerly E.C. Jordan Co.) conducted a Task 1 Data Records Search and Assessment at the site in 1990. The Task 1 report recommended that Task 3 activities be initiated at the

site to obtain data to evaluate the potential significant threat to public health and the environment (E.C. Jordan Co. 1991a).

The Task 3 investigation consisted of sampling several media. Four surface soil samples were collected at the site. Five surface water/sediment pairs were collected from the unnamed stream and cattail marsh along the southern and western site boundaries. One slag/waste pile sample was collected from a location at the middle of the site near the cattail marsh. Six test pits were excavated, and subsurface soils were sampled from four of the six test pits.

Leachable levels of barium, lead, selenium, mercury, and chromium were present in soil and waste samples analyzed for EP Toxicity, but the concentrations detected were below New York State regulatory limits defining the samples as hazardous under the toxicity characteristic. Soil and waste samples were also analyzed for characteristics of hazardous waste including ignitability, corrosivity, and reactivity. No samples failed any of these tests. Analysis of surface soil, subsurface soil, surface water, sediment, and waste pile samples for Target Compound List analytes detected a number of compounds in these media. Volatile organic compounds were detected in the sediment samples at low concentrations. Semivolatile organic compounds were detected at trace levels or levels lower than the Contract Required Quantitation Limit in all the samples. One surface soil sample indicated the presence of polychlorinated biphenyls at 220 micrograms per kilogram. This is below the standard set forth in Title 6 of New York Codes, Rules, and Regulations (6 NYCRR) Part 371 of 50 parts per million. Inorganic compounds were detected in all samples at concentrations consistent with background ranges of inorganics in soil and/or background samples collected upgradient of the site.

Compounds detected in surface water were compared to New York State Class D Surface Water Standards. Four samples exceeded the Class D standard of 300 micrograms per liter for iron. All other compounds detected were below standards.

On the basis of the information developed from the Task 1 and Task 3 investigations at the LSB Warehousing site, it is recommended that the site be removed from the registry of *Inactive Hazardous Wastes Sites in New York State*. This recommendation is based on the following reasons:

- There is no evidence that a listed hazardous waste, as defined in 6 NYCRR Part 371 (NYSDEC, 1992a) is currently present at the site.

- There is no evidence that material exhibiting the characteristics of hazardous waste as defined in 6 NYCRR Part 371 (NYSDEC, 1992a) is currently present on the site. Waste containers containing materials that exceeded EP Toxicity analyses were removed from the site in 1989.

- NYSDEC believes that the elevated inorganic levels detected at the site are related to the industrial development of the area and are not a consequence of hazardous waste disposal at the site.

Because Task 3 activities have provided the information necessary to support a recommendation to delist the site, Task 4 activities are not warranted.

The Task 3 activities are reported in two volumes. Volume I presents the project purpose, description of the Task 3 scope of work, results of Task 3 sampling and analysis, and final recommendation for delisting the site. Also included in Volume I are Appendix A, the revised Registry Site Classification Decision Form and Appendix B, the revised Site Inspection Form, USEPA Form 2070-13. Volume II, Supporting Documentation, contains the Geophysical Survey Summary Report, field data records, test pit logs, laboratory results, and the Survey Control Report.

1.0 PURPOSE

ABB Environmental Services (ABB-ES), formerly E.C. Jordan Co., is submitting this Evaluation Report of Initial Data to the New York State Department of Environmental Conservation (NYSDEC) as part of the Preliminary Site Assessment (PSA) of the LSB Warehousing site in Blasdell, New York (Figure 1-1). This report was prepared in response to Work Assignment No. D002472-6.1 and in accordance with the requirements of the NYSDEC Superfund Standby Contract, Contract No. D002472, dated November 1989 between NYSDEC and ABB-ES.

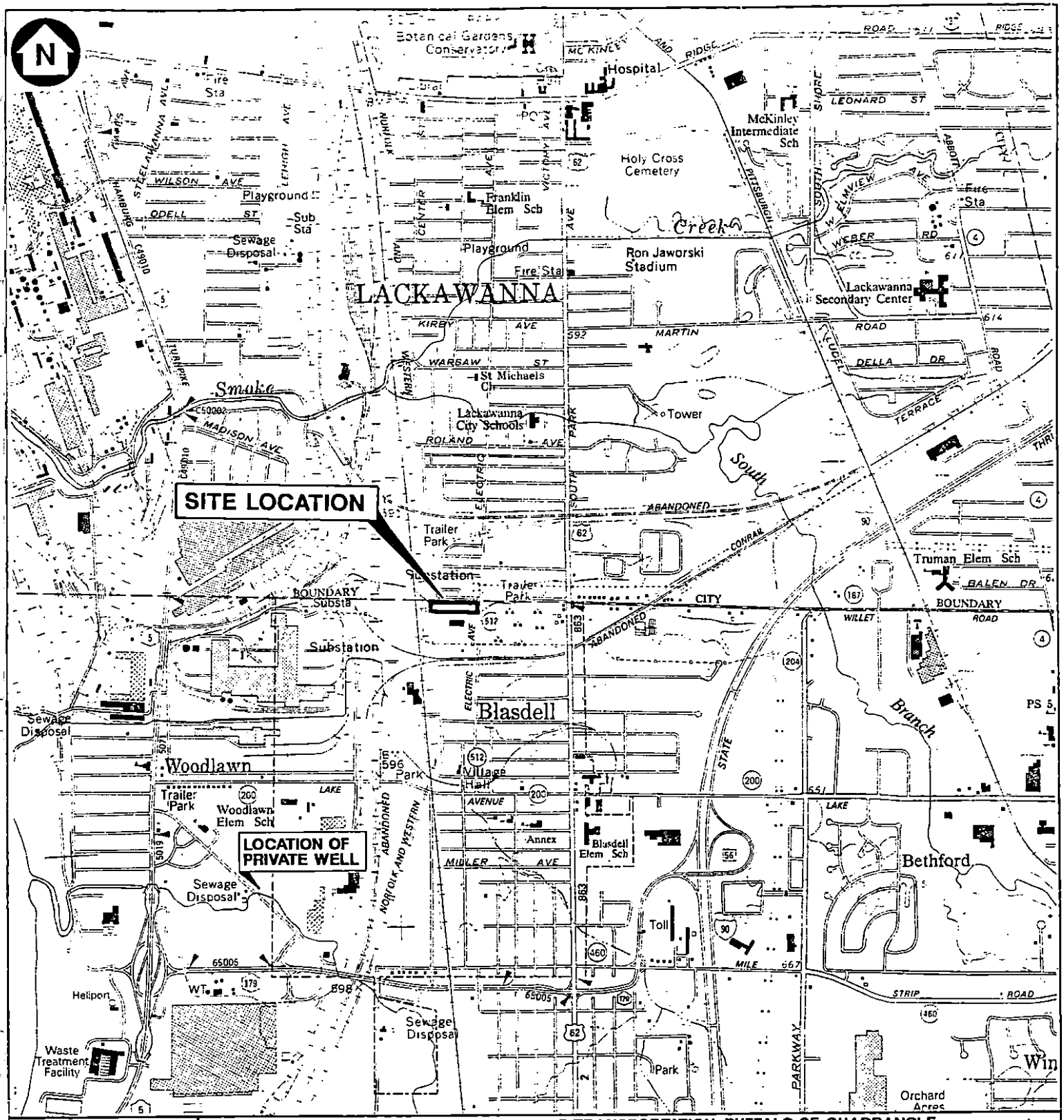
The LSB Warehousing site is a suspected inactive hazardous waste site recognized by NYSDEC on its registry of *Inactive Hazardous Waste Sites in New York State* (NYSDEC, 1992c). The site (Site No. 915132) has been assigned as a Class 2a site. Upon completion of Task 1, a recommendation to reclassify the site could not be made because although hazardous waste disposal was documented at the site, the waste had been removed in 1989, and there was no documentation of significant threat to public health or the environment (E.C. Jordan Co., 1991a).

ABB-ES completed Task 2, preparation of Site Work Plan, in September 1992 (E.C. Jordan Co., 1992c). ABB-ES prepared a scope of work for Task 3 and Task 4 field investigation programs to develop the data necessary to reclassify the site according to guidelines set forth in Title 6 of New York Codes, Rules, and Regulations (6 NYCRR), Part 375 (NYSDEC, 1992b) and 6 NYCRR, Part 371 (NYSDEC, 1992a). The PSA activities were designed to result in a recommendation to reclassify LSB Warehousing to one of the following categories:

Class 2 - Hazardous waste sites presenting a significant threat to public health or the environment; defined by NYSDEC as sites that had a release(s) resulting in violation of NYSDEC environmental quality standards and guidelines.

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

Delist - Sites where hazardous waste disposal is not documented or where an inconsequential amount has been disposed.



SOURCE: N.Y.S. DEPARTMENT OF TRANSPORTATION, BUFFALO-SE QUADRANGLE
DATED 1989, 7.5 MINUTE SERIES

SITE NO: 915132
LOCATION: VILLAGE OF BLASDELL
ERIE COUNTY

SCALE IN FEET
0 2000 4000

FIGURE 1-1
SITE LOCATION MAP
LSB WAREHOUSING SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

ABB Environmental Services

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The purposes of the Task 3 investigation were to conduct environmental sampling and analyses to develop the data necessary to reclassify the site. Task 4 activities were only to be conducted if hazardous waste disposal was confirmed during Task 3 and additional data were required to evaluate the potential significant threat posed by the wastes detected on site. The Task 3 investigation included:

- A geophysical survey to investigate the presence of buried containers in the western area of the site and to facilitate the siting of explorations.

- Collection of four surface soil samples and one slag/waste pile sample to provide data to assess whether hazardous materials have been disposed of at the site.

- Collection of five surface water/sediment pairs from the unnamed stream and cattail marsh along the southern border of the site. The surface water data were evaluated against New York State Class D surface water quality standards and guidance values set forth under 6 NYCRR Parts 700-705 (NYSDEC, 1991) to establish whether there has been contravention of these standards. The sediment samples were collected to assess if hazardous material, as defined by New York State Hazardous Waste Regulations promulgated under 6 NYCRR Part 371 (NYSDEC, 1992a), has been disposed of into the stream and marsh.

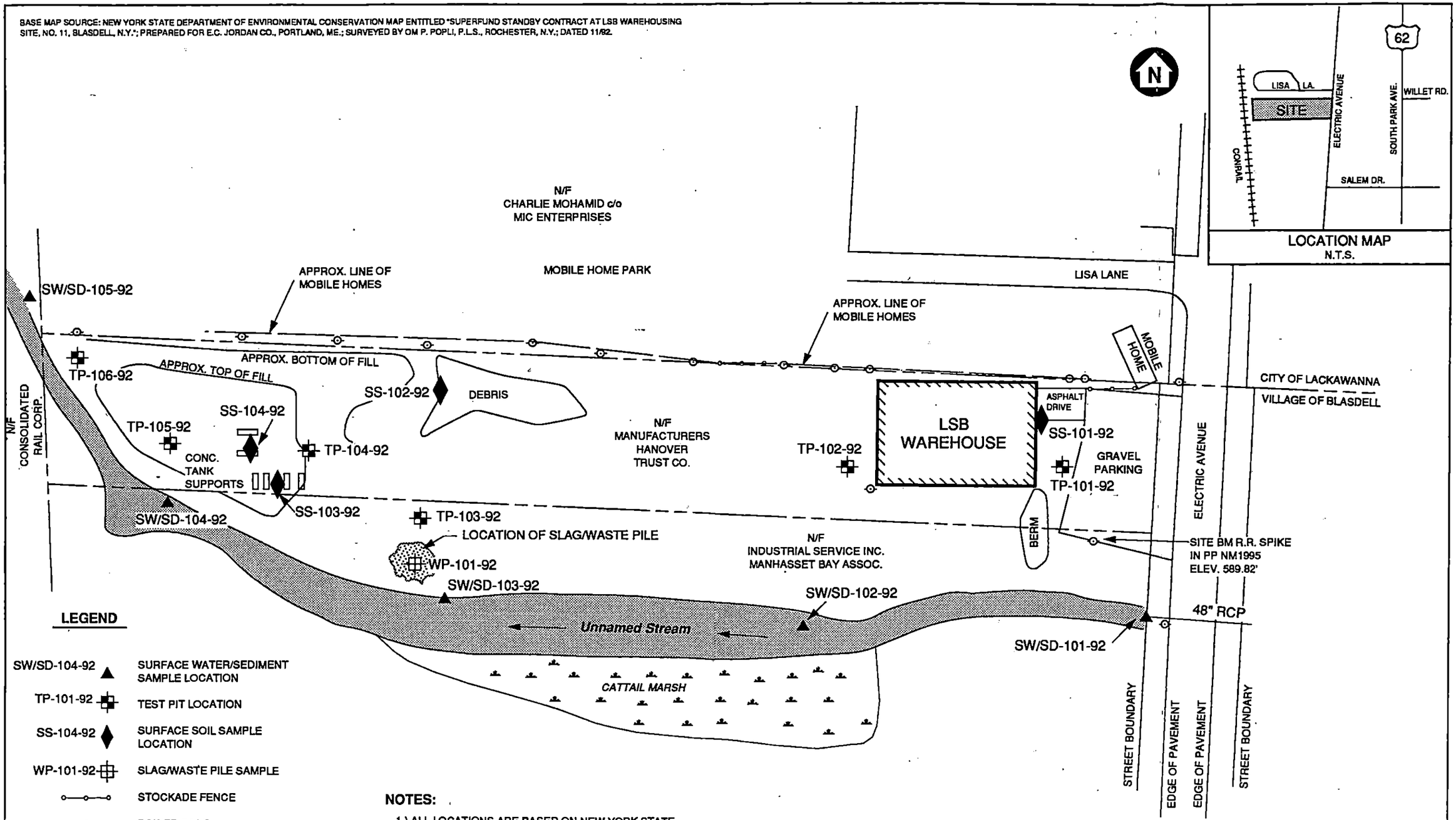
- Collection of four subsurface soil samples from six test pits to assess whether hazardous waste, as defined by 6 NYCRR Part 371 (NYSDEC, 1992a), is present in the fill material disposed of at the site.

Task 3 sampling locations are shown in Figure 1-2.

Task 3 activities are reported in two volumes. Volume I presents the project purpose, description of the Task 3 scope of work, results of the Task 3 activities and analysis, and final recommendations for reclassification of the site. Included in Volume I are Appendix A, the revised Registry Site Classification Decision Form, and Appendix B, the revised Site Inspection Form (USEPA Form 2070-13). Volume II, Supporting Documentation, contains the Geophysical Survey Summary Report, field data records, test pit logs, laboratory results, and the Survey Control Report.

9301004D

BASE MAP SOURCE: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION MAP ENTITLED "SUPERFUND STANDBY CONTRACT AT LSB WAREHOUSING SITE, NO. 11, BLASDELL, N.Y."; PREPARED FOR E.C. JORDAN CO., PORTLAND, ME.; SURVEYED BY OM P. POPLI, P.L.S., ROCHESTER, N.Y.; DATED 11/82.



LEGEND

- SW/SD-104-92 — SURFACE WATER/SEDIMENT SAMPLE LOCATION
- TP-101-92 — TEST PIT LOCATION
- SS-104-92 — SURFACE SOIL SAMPLE LOCATION
- WP-101-92 — SLAG/WASTE PILE SAMPLE
- STOCKADE FENCE
- POWER POLE
- PROPERTY LINE

SCALE IN FEET

0 60 120

NOTES:

1.) ALL LOCATIONS ARE BASED ON NEW YORK STATE PLANE COORDINATE SYSTEM WEST ZONE.

2.) ALL PROPERTY LINE AND RIGHT OF WAY INFORMATION DETERMINED BY CURRENT TAX MAP INFORMATION ONLY.

3.) ABBREVATIONS: N/F = NOW OR FORMERLY
CONC. = CONCRETE
RCP = RIGID CONCRETE PIPE

FIGURE 1-2
SITE PLAN AND SAMPLING LOCATIONS
LSB WAREHOUSING SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC
ABB Environmental Services

2.0 SCOPE OF WORK

The completed Task 3 program is described in this section. Task 3 activities were performed in accordance with the site Work Plan and Quality Assurance Plan (QAPP) (E.C. Jordan Co., 1992c).

2.1 SITE RECONNAISSANCE

On April 9, 1992, ABB-ES personnel performed a site reconnaissance with a representative from NYSDEC Region 9, Mr. David Locey, to discuss sampling locations and rationale. On the previous day, ABB-ES personnel visited the site with representatives from Parratt-Wolff (drilling contractor) and Om P. Popli Associates, Inc. (surveying contractor) to review site access. The representatives from Parratt-Wolff (Mr. Butch Stevens) and Om P. Popli Associates, Inc. (Mr. Kevin Ryan) approved access for all site sampling and exploration locations.

Exploration locations and rationale were discussed with the NYSDEC representative. All sampling locations were approved by NYSDEC and were recorded on a site sketch map. During the site reconnaissance, Mr. Locey noted that the site had recently been graded and seeded with grass, and the unnamed stream to the southern edge of the site had been redirected and channelized. It was later established that this work was conducted by the Lackawanna Department of Sewage Management. Work in the area of the unnamed stream was completed in the late summer of 1991. The culvert under Electric Avenue was replaced, and a channel was reconstructed in the area within 50 feet on each side of the culvert. Discussions with the Lackawanna Department of Sewage Management revealed that no buried containers were located during this construction. It was also revealed that a culvert under the railroad tracks at the rear of the site was also replaced at this time.

A change in scope was identified during development of the draft work plan and was discussed with Mr. Locey at the site. ABB-ES' Task 1 report contained a recommendation to analyze the soil samples for the presence of polychlorinated biphenyls (PCBs). This analysis was inadvertently omitted from the Project Management Work Plan submitted to NYSDEC in November 1991 (E.C. Jordan Co., 1991b). This analysis was reintroduced into the scope of work with NYSDEC's approval.

Because of the reworking of the site, Mr. Locey expressed his concern that surface soil samples would not accurately reflect the site's potential contamination. He

requested, during the site walkover, that an additional waste/slag pile sample be added to the sampling program.

2.2 FILE REVIEW

ABB-ES personnel conducted Task 1, Data Records Search and Assessment, at the site in 1990. ABB-ES did not review any additional file information during the preparation of this report.

2.3 GEOPHYSICAL SURVEY

ABB-ES personnel conducted a geophysical survey at the LSB Warehousing site on October 5 and 6, 1992. The Site Work Plan (E.C. Jordan Co., 1992c) called for the use of magnetometry and ground-penetrating radar (GPR) at the site. The GPR survey was to be conducted to investigate any anomalies indicated by the magnetometer survey. Based on the results of the magnetometry survey, the GPR survey was not required. Magnetometry was used at the site to investigate the western area of the property for the presence of buried containers and to facilitate the siting of exploration locations.

Instrumentation used at the site consisted of an OmniPlus gradiometer for data collection and a field computer for data processing. Data were collected every 20 feet within an approximate 160-by-620-foot survey area.

Magnetic survey results are presented in the form of vertical gradient contours in Figure 2-1. Magnetic anomalies identified during the survey primarily occur along the outer periphery of the survey area. Magnetic anomalies identified along the southern portion of the site are attributed to the presence of ferrous debris observed on the ground surface bordering the stream. Debris appeared to be stockpiled along the stream bank. Ferrous debris consisted of sheet metal, metal cabinets, tires, paint cans, bed springs, and concrete with rebar. Other debris consisted of wood scraps, glass, and wall board. Magnetic anomalies identified along the northern portion of the site are due to the presence of the warehouse, house trailers, and a depression containing metallic pipes and rods. It was not necessary to investigate any of the anomalies with GPR.

The Geophysical Summary Report can be referred to in Volume II - Supporting Documentation.

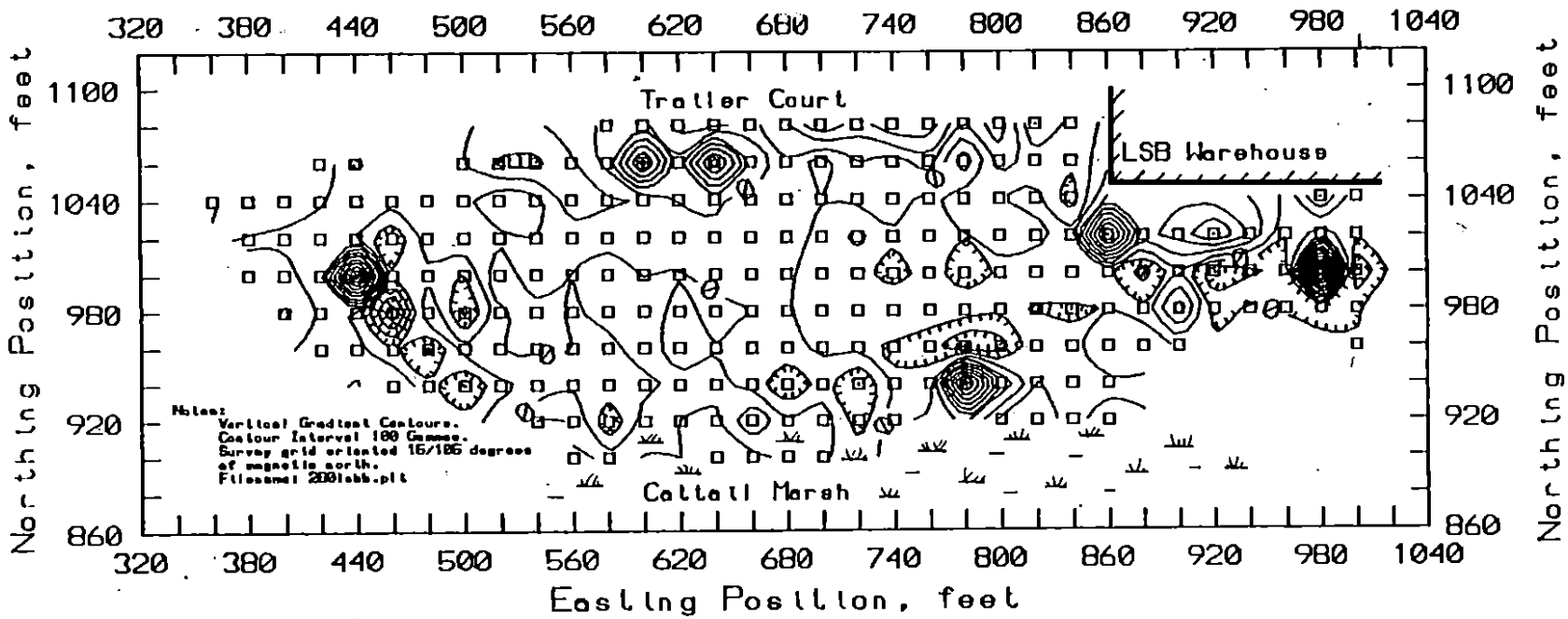


FIGURE 2-1
MAGNETIC SURVEY
LSB WAREHOUSING SITE
PRELIMINARY SITE ASSESSMENT
NEW YORK STATE DEC

2.4 ENVIRONMENTAL SAMPLING

The following subsections describe the Task 3 sampling activities completed between October 13 and 29, 1992. ABB-ES personnel conducted field investigations in accordance with the scope of work set forth in the Site Work Plan (E.C. Jordan Co., 1992c) and specifications presented in the Program QAPP. The health and safety procedures for all on-site activities were in conformance with the Program Health and Safety Plan (HASP) (E.C. Jordan Co., 1992b) and the site-specific HASP (E.C. Jordan Co., 1992c). Task 3 environmental sampling was conducted using Level C dermal personal protection.

Analytical data presented in this Volume I, *Evaluation Report of Initial Data*, meets the data quality objectives set forth in the site-specific QAPP (E.C. Jordan Co., 1992c) and are suitable for site reclassification. A complete listing of laboratory analytical data is presented in Volume II, Supporting Documentation. Data validation and usability documentation are included therein.

2.4.1 Surface Soil Sampling

Four surface soil samples, designated as SS-101-92 through SS-104-92, were collected at the site (see Figure 1-2). Sample SS-101-92 was collected in front of the LSB Warehouse in an area where stained soils were observed. Sample SS-102-92 was collected at the western end of a debris-filled depression that contained construction debris, pallets, a semi-crushed drum, and white goods. Samples SS-103-92 and SS-104-92 were collected between concrete supports located at the rear of the site. It is believed that the supports were foundations for aboveground storage tanks at one time (according to a citizens interview).

All surface soil samples were collected no deeper than 6 inches below ground surface (bgs) using a stainless steel spoon. Samples were collected and documented following the procedures set forth in the Program QAPP (E.C. Jordan Co., 1992a). Samples were screened for the presence of volatile organic compounds (VOCs) in the field with a Photovac TIP photoionization detector (PID). No readings above background were detected. Sampling personnel recorded screening results and sample descriptions on Surface Soil Sample Data Records (see Volume II).

Surface soil samples were sent to NYTEST Environmental, Inc. (NYTEST) for analysis of Target Compound List (TCL) VOCs, TCL semivolatile organic compounds (SVOCs), TCL PCBs, TCL inorganics, and for characteristics of

hazardous wastes including Extraction Procedure (EP) Toxicity (metals only), corrosivity, ignitability, and reactivity. The results are presented and discussed in Subsection 3.4.1.

2.4.2 Subsurface Soil Sampling

Six test pits were excavated by Parratt-Wolff, Inc., of West Syracuse, New York, to investigate and sample the fill material disposed of at the site. Test pits, designated TP-101-92 through TP-106-92, were excavated at locations shown on Figure 1-2. The test pits were excavated to depths ranging from 4 to 11.5 feet bgs. ABB-ES personnel logged the geologic and fill characteristics of each test pit during the excavation. Test pit logs are presented in Volume II.

Water was encountered between 4 and 10.5 feet bgs in the test pits. No water was encountered in test pits TP-101-92 and TP-106-92. In all the test pits, a layer of fill material was observed to be between 2 and 7 feet thick. In four of the six test pits (TP-101-92, TP-104-92, TP-105-92, and TP-106-92), a grey silty clay, presumably native soil, was observed underlying the fill materials.

Subsurface soil samples and one duplicate sample, designated PS-102-92 through PS-105-92 and PS-105D-92, were collected from four of the six test pits. The four sampling locations were selected based on field results and observations (PID readings, observed staining, or odor) to represent the most contaminated material encountered in the six test pits. Samples were screened for the presence of VOCs in the field with a PID. All PID readings were below background levels.

Subsurface soil samples were sent to NYTEST for analysis of TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and for characteristics of hazardous wastes including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. The results of these analyses are presented and discussed in Subsection 3.4.2.

2.4.3 Surface Water and Sediment Sampling

ABB-ES personnel collected five pairs of surface water and sediment samples and one duplicate, designated SW/SD-101-92 through SW/SD-105-92 and SW/SD-101D-92, respectively, from the unnamed stream and cattail marsh located adjacent to the site along its southern and western boundary. Surface water was collected using a pre-cleaned plastic 1-quart sample bottle to fill the other sample bottles. Sediment was collected using either a stainless steel auger or shovel and

a stainless steel bucket. The sediment sample was collected after the surface water sample at all locations. Sampling locations are shown on Figure 1-2.

Surface water/sediment sample SW/SD-101-92 and the duplicate sample SW/SD-101D-92 were collected on the western side of the road at the culvert crossing under Electric Avenue. This sampling location is considered the upstream location to provide background data on the quality of surface water and sediment in the stream and cattail marsh. Samples SW/SD-102-92, SW/SD-103-92, and SW/SD-104-92 were collected at the eastern, central, and western areas of the marsh, respectively, as shown on Figure 1-2. These samples were collected to provide data on the quality of the surface water and sediment in the marsh area. Sample SW/SD-105-92 was collected in the extreme western part of the site where the stream exits the site to provide data on the quality of surface water and sediment at this location.

All samples were collected and documented in accordance with procedures described in the Program QAPP (E.C. Jordan Co., 1992a). Samples were screened for the presence of VOCs in the field with a PID. No PID readings above background were noted. Surface water was measured in the field at the time of sampling, using a Yellow Springs Instrument Model 3500 meter, for temperature, pH, and specific conductivity. Because of an equipment failure, the sampling crew returned to the site two weeks later to obtain dissolved oxygen readings. At this time, all field water quality data were recorded. Sampling personnel recorded screening results, field measurements, and sample descriptions on Surface Water/Sediment Field Sampling Data Records (see Volume II).

Surface water and sediment samples were sent to NYTEST for laboratory analyses including TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and the sediment samples were also analyzed for characteristics of hazardous wastes including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. The results of these analyses are presented and discussed in Subsection 3.4.3.

2.4.4 Slag/Waste Pile Sampling

One slag/waste pile sample, designated WP-101-92, was collected from the northern edge of the site. The slag/waste pile was a dark green granular material with a petroleum odor. The purpose of the slag/waste pile sample was to provide data to assess whether hazardous materials have been disposed of at the site. The sampling location is shown on Figure 1-2.

The slag/waste pile sample was collected and documented following the procedures set forth in the Program QAPP. The sample was screened for the presence of VOCs using a PID. No readings above background levels were detected. Sampling personnel recorded screening results and sample descriptions on a Surface Soil Sampling Data Record Sheet (see Volume II).

The slag/waste pile sample was sent to NYTEST for analysis of TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and characteristics of hazardous waste including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. Analytical results are presented and discussed in Subsection 3.4.4.

3.0 SITE ASSESSMENT

3.1 SITE HISTORY

The LSB Warehousing site is located at 1995 Electric Avenue, in the Village of Blasdell, Erie County, New York (see Figures 1-1 and 1-2). John Losey Enterprises purchased the property in 1976 and used the property mainly for local steel transfer trucking operations. Mr. Losey secured a real estate loan through Manufacturer's Hanover Trust Company. The title to the property was transferred in 1982 from Mr. Losey to LSB Warehousing, Mr. Losey's trucking firm. Mr. Losey subsequently defaulted on his property loan and declared bankruptcy in 1984. Manufacturer's Hanover repossessed the property in January 1987 (Ecology and Environment, 1989).

Aerial photographs of the site show that it was maintained as a pasture in 1939. The surrounding area was rural. Aerial photographs from 1958 show much vegetation was removed, exposing bare ground surface. A trailer court is adjacent to the site; the eastern portion of the site was being developed, and the property extended south beyond its present boundaries. During July 1976, the Erie County Department of Environment and Planning (ECDEP) investigated the site and established that it had been used as a landfill. By 1978, aerial photographs show the site consolidated into its present boundaries with a warehouse and evidence of heavy site use along the western periphery of the property (Ecology and Environment, 1989).

Aerial photographs from 1983 show the west end of the site overgrown with vegetation. Aerial photographs from 1986 and 1987 show considerable vegetation throughout the site (Ecology and Environment, 1989).

In July 1986, the ECDEP inspected the site in response to a complaint filed by a neighbor concerning an abandoned, overturned tanker trailer at the site. ECDEP employees observed that the tanker trailer was partially filled with tar residue. No samples were collected. It was also noted that the area was used as a residential dumping ground as evidenced by scattered household debris and abandoned cars. An unreported number of abandoned 55-gallon drums were also observed. No remedial action was undertaken, but ECDEP recommended that the site be placed on the suspected inactive hazardous waste site list for the State of New York (Ecology and Environment, 1989).

3.2 SITE DESCRIPTION

The LSB Warehousing site is located 1.7 miles east of Lake Erie and 3,000 feet south of the South Branch of Smoke Creek. The northern site property boundary abuts the Lackawanna City line. The ground surface at the site is predominantly a generally flat fill surface with a 1 percent average slope. The elevation of the site is about 585 feet above mean sea level.

The adjacent trailer court to the north and gravel storage lot across Electric Avenue to the east are at similar elevations. An unnamed stream and cattail marsh, located on property owned by Thypin Steel Corp., border the site to the south. A network of rail beds and wetlands abut the property to the west. Fill at the site appears thickest in the western half of the property with steep banks that slope approximately 6 feet down to the stream.

Site Geology and Hydrogeology. Surface soils at the site are predominantly fill and are classified as urban land. The fill appears to have a sandy gravelly matrix; however, no records of the material's source were found. Metal debris, tires, concrete rubble, and wood litter the site and protrude from the stream bank suggesting that debris is also present beneath the surface. The fill overlies native soil of the Niagara series. The Niagara silt loam is composed of deep, somewhat poorly drained, silty, loamy, lacustrine deposits. These laminated silt and clay deposits were deposited in preglacial lakes and range up to 100 meters thick in the south Buffalo area. Permeability of clay layers within this deposit are expected to be in the range of 10^{-4} to 10^{-8} centimeters per second. Niagara soils are exposed in the marshy lowland and stream banks adjacent to the site.

Bedrock is not exposed on the LSB property. The New York Museum and Science Service maps the uppermost bedrock unit as the Stafford Limestone member followed by the Marcellus shale member, both of the Devonian Skaneateles Formation. The low-permeability Marcellus shale is typically 30 to 55 feet thick. A series of limestone formations (Onondaga, Bertie, Lockport) beneath the Marcellus shale form the first significant aquifers beneath the site.

Groundwater is not used for domestic purposes in the vicinity of the site. The City of Lackawanna is serviced by a community water system with water intakes on Lake Erie. The Town of Hamburg utilizes municipal wells located several miles from the site to the east. The nearest private drinking water well is reported to be located 1 mile south of the site (see Figure 1-1). According to the Hamburg Tax Assessor's office, the residence associated with this drinking water

well has been demolished. The shallow groundwater system is probably separated from the deeper limestone by the lacustrine clay deposits.

The unnamed stream and cattail marsh located adjacent to the site on the southern boundary is not a classified or regulated surface water body. In lieu of any promulgated classification, Class D standards will be used for purposes of evaluating analytical data of surface water samples collected from this area. ABB-ES personnel were directed to use Class D standards by Mr. David Locey, NYSDEC Region 9.

3.3 PREVIOUS INVESTIGATIONS

The ECDEP conducted a site walkover in 1985 in response to a report of an abandoned, overturned tanker on site. The ECDEP found the tanker empty but noted that the western part of the site had been used as an unauthorized landfill and that numerous waste containers were present. As a result of the walkover, ECDEP recommended that the area be "placed on the DEC list for further investigation, testing, and classification" (ECDEP, 1985). In 1989, Manufacturer's Hanover employed a contractor to improve the appearance of the site by removing abandoned vehicles, tires, and wood and metal debris. At this time, Manufacturer's Hanover had the contents of four 55-gallon containers sampled and analyzed by Tonawanda Tank Transport in preparation for removal. The material was analyzed for EP Toxicity (metals only), PCBs (U.S. Environmental Protection Agency [USEPA] Method 8080), flash point, and petroleum products (USEPA Method 310-13) (E.C. Jordan Co., 1991a).

The results of the container-content sampling and analysis indicated that hazardous waste was present at the site. Two of the four samples exceeded the EP Toxicity criterion for lead. The regulatory limit of EP Toxicity for lead is 5 milligrams per liter (mg/L). The two samples that failed this analysis had lead detected at 5.95 and 160 mg/L. Other metals detected in the samples by the EP Toxicity analysis were arsenic, barium, cadmium, and mercury. Gasoline and lubricating oil were present in materials in the drums. PCBs were not detected. In September 1989, Manufacturer's Hanover authorized a container removal of the site. The four containers that had been sampled, two of which failed EP Toxicity, were removed from the site by Tonawanda Tank Transport and shipped to Chem Met Services in Michigan for disposal.

A Phase I Investigation of the LSB Warehousing site was conducted in 1989 by Ecology and Environment. The Phase I Investigation consisted of a detailed file

review of available information and a site inspection. At the time of this investigation, Ecology and Environment employees observed no hazardous materials on the site (Ecology and Environment, 1989). In the Phase I report, a reference is made to an investigation conducted by the "DEP" in July, 1976. The report does not indicate whether this is the state or federal DEP nor does it provide any supporting information about this investigation.

ABB-ES' 1990 Task 1 site inspection team observed six to eight 55-gallon containers or parts of containers on the site and in the adjacent cattail marsh. A slag/waste pile of green granular material was also noted on the south-central edge of the site near the cattail marsh. Information collected and reviewed during the Task 1 Data Records Search and Assessment documented the presence of characteristic hazardous waste at the site; however, there was insufficient evidence to establish whether the site poses a significant threat to public health or the environment. Task 3 and 4 activities were recommended to establish whether hazardous materials were still on site and if the site poses a significant threat.

3.4 CONTAMINATION ASSESSMENT

The following subsections present the results of the sampling and analysis conducted at the LSB Warehousing site during the PSA Task 3 investigation. Evaluation of the data is limited to the project purpose of establishing whether hazardous waste was disposed of on the site and whether waste material poses a potentially significant threat to public health or the environment. Hazardous waste is evaluated based on the results of characteristic testing of EP Toxicity, ignitability, corrosivity, and reactivity. To evaluate the potential significant threat, surface water results were compared to Class D surface water standards. Because there are no standards promulgated for soil or sediment, the only evaluation of data for these media is a comparison of inorganic data against background soil concentration ranges for inorganics in soils of New York State and the eastern United States (Table 3-1).

3.4.1 Surface Soil Sampling Analytical Results

Four surface soil samples, SS-101-92 through SS-104-92, were collected at the site and analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and characteristics of hazardous wastes including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. The samples were typically a dark brown to brown silty sand. Results of these analyses and regulatory limits are summarized in Table 3-2. EP Toxicity and hazardous waste characteristic testing results were all within

TABLE 3-1
RANGES OF BACKGROUND INORGANIC CONCENTRATIONS IN SOIL

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	NEW YORK REGION[1] (mg/kg)	EASTERN UNITED STATES[2] (mg/kg)
Aluminum	1,000 – 25,000	7,000 – > 100,000
Arsenic	3 – 12	<0.1 – 73
Barium	15 – 600	10 – 1,500
Beryllium	0 – 1.75	<1 – 7
Cadmium	0.01 – 2	NA
Calcium	130 – 35,000	100 – 280,000
Chromium	1.5 – 40	1 – 1,000
Cobalt	2.5 – 60	<0.3 – 70
Copper	< 1 – 15	<1 – 700
Iron	17,500 – 25,000	100 – > 100,000
Lead	10 – 37	<10 – 300
Magnesium	1,700 – 6,000	50 – 50,000
Manganese	50 – 5,000	<2 – 7,000
Mercury	0.042 – 0.066	0.01 – 3.4
Nickel	0.5 – 25	<5 – 700
Potassium	8,500 – 43,000	50 – 37,000
Selenium	<0.1 – 0.125	<0.1 – 3.9
Silver	NA	NA
Sodium	6,000 – 8,000	<500 – 50,000
Vanadium	25 – 60	<7 – 300
Zinc	37 – 60	<5 – 2,900

NOTES:

[1] Concentrations obtained from "Background Concentrations of 20 Elements in Soils with Special Regard for New York State" (no date). Paper prepared by E. Carol McGovern, NYSDEC Wildlife Resources Center.

[2] Shacklette, M.T. and J.G. Boerngen, 1984. "Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States"; USGS Professional Paper 1270.

mg/kg = milligrams per kilogram

NA = Not Available

TABLE 3–2
SURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SS–101	SS–102	SS–103	SS–104	RL
TCL Volatile Organic Compounds (µg/kg)						
None detected at concentrations above detection limits						N/A
TCL Semivolatile Organic Compounds (µg/kg)						
Naphthalene	330	74 JJ	–	110 JJ	–	N/A
2–Methylnaphthalene	330	84 JJ	–	140 JJ	30 JJ	N/A
Dimethylphthalate	330	–	210 DJJ	–	–	N/A
Acenaphthylene	330	58 JJ	–	75 JJ	–	N/A
Acenaphthene	330	–	–	66 JJ	–	N/A
Dibenzofuran	330	41 JJ	–	96 JJ	18 JJ	N/A
Diethylphthalate	330	–	280 DJJ	8 JJ	37 JJ	N/A
Fluorene	330	44 JJ	–	110 JJ	–	N/A
Phenanthrene	330	460 JJ	230 DJJ	1400 J	430 JJ	N/A
Anthracene	330	87 JJ	–	410 JJ	–	N/A
Carbazole	330	30 JJ	–	120 JJ	41 JJ	N/A
Fluoranthene	330	460 JJ	360 DJJ	1600 J	710 JJ	N/A
Pyrene	330	570 JJ	260 DJJ	1500 J	380 JJ	N/A
Benzo(a)Anthracene	330	220 JJ	–	710 JJ	200 JJ	N/A
Chrysene	330	–	–	1200 J	–	N/A
Di–n–octylphthalate	330	44 JJ	–	23 JJ	96 JJ	N/A
Benzo(b)Fluoranthene	330	210 JJ	–	590 JJ	–	N/A
Benzo(k)Fluoranthene	330	230 JJ	–	480 JJ	–	N/A
Benzo(a)Pyrene	330	–	–	650 JJ	–	N/A

TABLE 3–2
SURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SS–101	SS–102	SS–103	SS–104	RL
TCL Polychlorinated Biphenyls (µg/kg)						
Aroclor–1254	33	220	–	–	–	50,000
TCL Inorganics (mg/kg)						
Aluminum	40	19500	14000	14100	7190	N/A
Antimony	12	26.8 J	9.1 []J	32.0 J	70.0J	N/A
Arsenic	2	20.6 J	5.2 J	19.8 J	13.6 J	N/A
Barium	40	258	91.4	128	225	N/A
Beryllium	1	2.8	0.69 []	1.4	0.62 []	N/A
Calcium	1000	94300	10200	48900	17800	N/A
Chromium	2	31.1	26.0	33.0	60.1	N/A
Cobalt	10	10.9 []	9.5 []	14.9	24.2	N/A
Iron	20	38200	19600	68000	154000	N/A
Lead	0.6	303 J	238 J	176 J	729 J	N/A
Magnesium	1000	18700 J	4590 J	8600 J	8460 J	N/A
Manganese	3	1790	427	1160	1340	N/A
Mercury	0.04	0.19	–	–	–	N/A
Nickel	8	31.1 J	24.1 J	46.7 J	91.6 J	N/A
Potassium	1000	2260	2270	2070	1690	N/A
Sodium	1000	611 []	101 []	198 []	198 []	N/A
Vanadium	10	22.7	28.9	28.9	29.7	N/A
Zinc	4	616 J	194 J	189 J	841 J	N/A

TABLE 3–2
SURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SS–101	SS–102	SS–103	SS–104	RL
Hazardous Waste Characteristics						
Corrosivity (pH)	–	7.18	5.79	5.89	5.87	2 ≥ pH ≥ 12.5
Ignitability (degrees F)	–	–	–	–	–	<140 F
Reactivity – Cyanide (mg/kg)	1	–	–	–	–	250
Reactivity – Sulifide (mg/kg)	1	–	–	–	–	500
Extraction Procedure Toxicity Analysis (mg/L)						
Barium	0.010	0.537 J	0.491 J	0.543 J	0.493 J	100

NOTES:

CRQL = contract required quantitation limit (organics)

CRDL = contract required detection limit (inorganics)

SS = surface soil

RL = regulatory limit for hazardous wastes

TCL = target compound list

mg/L = milligrams per liter

N/A = not applicable

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

D = diluted result

J = estimated

JJ = estimated below sample secific CRQL

(–) = non–detect

[] = less than sample specific CRDL

regulatory limits. No TCL VOCs were detected. Nineteen TCL SVOCs were detected in the surface soil samples. All the results are reported as estimated (i.e., J or JJ) for minor quality control deficiencies or because the concentrations are lower than the Contract Required Quantitation Limit (CRQL). TCL PCB analyses indicated that Aroclor-1254 was detected in SS-101-92 at 220 micrograms per kilogram (μg/kg). No PCBs were detected at the other surface soil sampling locations. These data can be compared to New York State Standards for PCBs promulgated for the identification of hazardous waste. As set forth in 6 NYCRR Part 371, materials contaminated with PCBs at concentrations greater than 50 parts per million (ppm) are considered hazardous. This detection of Aroclor-1254 is less than 1 ppm. TCL inorganics detected in these samples were compared to background ranges of inorganics for soils of New York State and/or the eastern United States. Elements detected at concentrations greater than background ranges include: arsenic, beryllium, calcium, chromium, iron, lead, magnesium, mercury, nickel, and zinc.

3.4.2 Subsurface Soil Sampling Analytical Results

Four subsurface soil samples designated PS-102-92 through PS-105-92, and one duplicate, PS-105D-92, were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and characteristics of hazardous waste including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. For descriptions of the samples, see Volume II - Supporting Documentation, Section 3.0. Results of the analyses and regulatory limits are summarized in Table 3-3.

EP Toxicity and hazardous waste characteristic testing results were all within regulatory limits. No TCL VOCs were detected. Twenty-two TCL SVOCs were detected in subsurface soil samples. Most of the SVOCs detected are at low concentrations, below the CRQL of 330 μg/kg as indicated by the "JJ" qualifier. The results of PS-103-92 indicated the presence of acenaphthene at a concentration of 3,300 μg/kg and fluorene at 3,300 μg/kg. Both PS-103-92 and PS-105-92 indicated the presence of benzo(b)fluoranthene at 22,000 and 1,100 μg/kg, respectively; benzo(k)fluoranthene at 16,000 and 860 μg/kg, respectively; and benzo(a)pyrene at 24,000 and 920 μg/kg, respectively. These compounds were not detected in PS-105-92 duplicate. No TCL PCBs were detected. TCL inorganics detected in these samples were compared to background ranges of inorganics for soils of New York State and/or the eastern United States. Elements detected at concentrations greater than background ranges include: arsenic, calcium, chromium, iron, lead, magnesium, mercury, nickel, and zinc.

TABLE 3–3
SUBSURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/CRDL DEPTH	PS–102 4'	PS–103 6'	PS–104 6'	PS–105 8'	PS–105 DUP 8'	RL
TCL Volatile Organic Compounds (µg/kg)							
None detected at concentrations above detection limits							N/A
TCL Semivolatile Organic Compounds (µg/kg)							
2,4–Dimethylphenol	330	–	–	–	12 JJ	18 JJ	N/A
Naphthalene	330	1200 JJ	290 JJ	33 JJ	150 JJ	160 JJ	N/A
2–Methylnaphthalene	330	690 JJ	240 JJ	39 JJ	170 JJ	200 JJ	N/A
Acenaphthylene	330	130 JJ	350 JJ	22 JJ	58 JJ	63 JJ	N/A
Acenaphthene	330	1500 JJ	3300	12 JJ	87 JJ	77 JJ	N/A
Dibenzofuran	330	1200 JJ	1900 JJ	30 JJ	140 JJ	110 JJ	N/A
Diethylphthalate	330	–	–	21 JJ	22 JJ	19 JJ	N/A
Fluorene	330	1600 JJ	3300	25 JJ	210 JJ	160 JJ	N/A
Phenanthrene	330	12000 J	42000 DJ	540 JJ	2400 J	2200 J	N/A
Anthracene	330	3800 J	9200 J	120 JJ	310 JJ	360 JJ	N/A
Carbazole	330	11 JJ	2700 J	41 JJ	220 JJ	210 JJ	N/A
Fluoranthene	330	10000 J	34000 J	830 J	2400 J	2500 J	N/A
Pyrene	330	12000 J	35000 J	290 JJ	1300 J	1100 J	N/A
Benzo(a)Anthracene	330	4800 J	28000 J	350 JJ	760 JJ	1100 J	N/A
Chrysene	330	7700 J	54000 DJ	390 JJ	1600 J	1600 J	N/A
Di–n–octylphthalate	330	210 JJ	50 JJ	10 JJ	14 JJ	–	N/A
Benzo(b)Fluoranthene	330	3000 J	22000	180 JJ	1100	700 JJ	N/A
Benzo(k)Fluoranthene	330	3400 J	16000	210 JJ	860	770 JJ	N/A
Benzo(a)Pyrene	330	4000 J	24000	–	920	820 JJ	N/A
Indeno(1,2,3–c,d)Pyrene	330	3900 J	20000 J	–	700 JJ	530 JJ	N/A
Dibenz(a,h)Anthracene	330	–	5600 J	–	–	–	N/A
Benzo(g,h,i)perylene	330	–	10000 J	–	560 JJ	–	N/A

TABLE 3–3
SUBSURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/CRDL DEPTH	PS–102 4'	PS–103 6'	PS–104 6'	PS–105 8'	PS–105 DUP 8'	RL
TCL Polychlorinated Biphenyls (µg/kg)							
None detected at concentations above detection limits							N/A
TCL Inorganics (mg/kg)							
Aluminum	40	12400 J	13300	19300	8810	10300	N/A
Antimony	12	20.3 []J	15.7 []J	–	14.5 []J	18.8 J	N/A
Arsenic	2	31.4 J	4.7 J	3.5 J	9.8 J	10.1 J	N/A
Barium	40	436 J	153	56.8	141	123	N/A
Beryllium	1	0.55 []J	0.88 []	0.25 []	1.3	1.5	N/A
Calcium	1000	23100 J	25500	10000	24000	40200	N/A
Chromium	2	72.6 J	21.8	659	17.1	18.6	N/A
Cobalt	10	16.6 []J	11.4 []	3.8 []	8.8 []	10.0 []	N/A
Iron	20	77300 J	33500	6900	31100	23300	N/A
Lead	0.6	962 J	165	133 J	119 J	127 J	N/A
Magnesium	1000	4960 J	5040 J	2170 J	4800 J	10000 J	N/A
Manganese	3	1050 J	532	267	518	617	N/A
Mercury	0.04	0.30 J	0.79	–	0.19	0.19	N/A
Nickel	8	35.8 J	21.9 J	27.5 J	17.9 J	25.2 J	N/A
Potassium	1000	1630 []J	1120 []	398 []	1370	1410	N/A
Sodium	1000	358 []J	283 []	729 []	278 []	328 []	N/A
Vanadium	10	30.8 J	23.5	3.7 []	29.0	29.5	N/A
Zinc	4	1620 J	593 J	346 J	243 J	263 J	N/A
Hazardous Waste Characteristics							
Corrosivity (pH)	–	6.40	6.76	6.15	8.01	–	$2 \geq pH \geq 12.5$
Ignitability (degrees F)	–	–	–	–	–	–	<140 F
Reactivity – Cyanide (mg/kg)	1	–	–	–	–	–	250
Reactivity – Sulfide (mg/kg)	1	–	–	–	–	–	500

TABLE 3–3
SUBSURFACE SOIL SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/CRDL DEPTH	PS–102 4'	PS–103 6'	PS–104 6'	PS–105 8'	PS–105 DUP 8'	RL
Extraction Procedure Toxicity Analysis (mg/L)							
Barium	0.010	0.579 J	0.510 J	0.468 J	0.298 J	0.454 J	100
Lead	0.040	–	–	0.0605	–	–	5
Selenium	0.051	–	–	–	0.0568	–	1

NOTES:

CRQL = contract required quantitation limit (organics)

CRDL = contract required detection limit (inorganics)

SS = surface soil

RL = regulatory limit for hazardous wastes

TCL = target compound list

mg/kg = milligrams per kilogram

mg/L = milligrams per liter

N/A = not applicable

µg/kg = micrograms per kilogram

J = estimated

JJ = estimated below sample specific CRQL

D = diluted result

[] = less than sample specific CRDL

– = non–detect

DUP = duplicate

3.4.3 Surface Water/Sediment Sampling Analytical Results

The following paragraphs discuss the results of the paired surface water/sediment samples collected from the unnamed stream and cattail marsh at the site.

Surface Water. Five surface water samples, designated SW-101-92 through SW-105-92, were collected from the stream and marsh adjacent to the site. The samples were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, and TCL inorganics. Analytical results are presented in Table 3-4. NYSDEC Class D Surface Water Standards are also included in Table 3-4 for purposes of comparison. No TCL VOCs were detected in the surface water samples. Two TCL SVOCs were detected in samples SW-101-92, SW-102-92, and SW-103-92. As indicated by the "JJ" qualifier, these data are estimated values at concentrations below the CRQL. No SVOCs were detected in samples SW-104-92 and SW-105-92. No TCL PCBs were detected in the surface water samples. A number of inorganic compounds were detected in the surface water.

All surface water analytical results were compared to New York State Class D Surface Water Quality Standards. Four samples exceeded the Class D standard of 300 mg/L for iron. All other compounds detected were below standards. Exceedances were detected at all locations including the upgradient location.

Sediment. Five sediment samples, designated SD-101-92 through SD-105-92, were collected at the same location as the surface water samples. The sediment samples were analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and for characteristics of hazardous wastes including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. Analytical results and regulatory limits are presented in Table 3-5.

EP Toxicity and hazardous waste characteristic testing results were all within regulatory limits. Three TCL VOCs were detected in the sediment samples. Acetone was detected at a range of 22 J μg/kg to 360 J μg/kg. Acetone was detected in the trip blank and therefore should not be considered a site contaminant. Carbon disulfide was detected in two samples at 2 J μg/kg and 11 JJ μg/kg. Toluene was detected in two samples at 8 JJ μg/kg and 14 μg/kg. Twenty-seven TCL SVOCs were detected, and most were reported at concentrations less than the CRQL. No TCL PCBs were detected in the sediment samples. A number of inorganic compounds were detected in the samples. Inorganics detected were compared to New York State and eastern United States background concentrations of inorganics in soil. Arsenic, beryllium, calcium,

TABLE 3–4
SURFACE WATER SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SW–101	SW–101 DUP	SW–102	SW–103	SW–104	SW–105	NYS Class D (µg/L)
TCL Volatile Organic Compounds (µg/L)								
None detected at concentrations above detection limits								N/A
TCL Semivolatile Organic Compounds (µg/L)								
Diethylphthalate	10	2 JJ	1 JJ	3 JJ	2 JJ	–	–	N/A
bis(2–Ethylhexyl)phthalate	10	1 JJ	1 JJ	1 JJ	1 JJ	–	–	N/A
TCL Polychlorinated Biphenyls (µg/L)								
None detected at concentrations above detection limits								N/A
TCL Inorganics (µg/L)								
Aluminum	200	66.4 []	60.1 []	4750	2000	54.9 []	–	N/A
Antimony	60	–	–	55.9 []	–	–	–	N/A
Barium	200	165 []	170 []	254	151 []	92.4 []	79.4 []	N/A
Beryllium	5	–	–	–	–	–	1.2 []	N/A
Calcium	5000	107000 J	108000 J	144000 J	111000 J	101000 J	96200 J	N/A
Chromium	10	5.0 []	–	20.0	5.6 []	–	–	a
Cobalt	50	–	–	11.9 []	–	–	–	110 G
Copper	25	–	–	29.4	14.2 []	6.3 []	–	b
Iron	100	2370	2390	15400	6320	1440	164	300
Lead	3	3.5 J	–	77.3	36.0	5.1	4.5	c
Magnesium	5000	31200 J	31700 J	33800 J	31400 J	28200 J	25900 J	N/A
Manganese	15	425	417	1410	854	603	33.8	N/A
Nickel	40	–	–	34.5 []	–	25.5 []	–	d
Potassium	5000	13200 J	13100 J	14600 J	13700 J	11300 J	10200 J	N/A

TABLE 3–4
SURFACE WATER SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SW–101	SW–101 DUP	SW–102	SW–103	SW–104	SW–105	NYS Class D (µg/L)
TCL Inorganics (µg/L) Continued								
Silver	10	8.5 []J	–	–	–	–	4.9 []J	e
Sodium	5000	76300	77600	76600	74500	69200	65200	N/A
Vanadium	50	–	–	23.2 []	12.5 []	–	–	190
Zinc	20	9.5 []	8.5 []	255	124	10.5 []	9.5 []	f

NOTES:

CRQL = contract required quantitation limit (organics)

CRDL = contract required detection limit (inorganics)

SW = surface water

TCL = target compound list

a = exp(0.819 [ln ppm hardness] + 3.688)

b = exp(0.9422 [ln ppm hardness] – 1.464)

c = exp(1.266 [ln ppm hardness] – 1.416)

d = exp(0.76 [ln ppm hardness] + 4.02)

e = exp(1.72 [ln ppm hardness] – 6.52)

f = exp (0.83 [ln ppm hardness] + 1.95)

G = Guidance values taken from New York State Division of Water Technology and Operational Guidance Series (Ambient Water Quality Standards and Guidance Values, November 15, 1992)

NYS = New York State

µg/L = micrograms per liter

N/A = not applicable

J = estimated

JJ = estimated below sample specific CRQL

– = non detect

[ ] = less than sample specific CRDL

TABLE 3–5
SEDIMENT SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SD–101	SD–101 DUP	SD–102	SD–103	SD–104	SD–105	RL
TCL Volatile Organic Compounds (µg/kg)								
Acetone	10	22 J	–	82 J	–	360 J	73 J	N/A
Carbon Disulfide	10	2 J	–	–	11 JJ	–	–	N/A
Toluene	10	14	8 JJ	–	–	–	–	N/A
TCL Semivolatile Organic Compounds (µg/kg)								
Phenol	330	160 JJ	1200	–	–	–	–	N/A
4–Methlyphenol	330	92 JJ	430 JJ	–	–	–	–	N/A
2,4–Dimethylphenol	330	–	–	–	–	–	5 JJ	N/A
Naphthalene	330	33 JJ	54 JJ	53 JJ	–	59 JJ	36 JJ	N/A
2–Methylnaphthalene	330	32 JJ	49 JJ	32 JJ	46 JJ	45 JJ	40 JJ	N/A
Acenaphthylene	330	120 JJ	270 JJ	150 JJ	180 JJ	28 JJ	14 JJ	N/A
Acenaphthene	330	50 JJ	69 JJ	54 JJ	67 JJ	36 JJ	12 JJ	N/A
Dibenzofuran	330	33 JJ	58 JJ	44 JJ	59 JJ	37 JJ	17 JJ	N/A
Diethylphthalate	330	37 JJ	–	29 JJ	41 JJ	–	13 JJ	N/A
Fluorene	330	76 JJ	150 JJ	95 JJ	120 JJ	53 JJ	19 JJ	N/A
N–Nitrosodiphenylamine	330	9 JJ	12 JJ	–	–	–	–	N/A
Phenanthrene	330	520	1000	680 JJ	750 JJ	590 JJ	260 JJ	N/A
Anthracene	330	140 JJ	270 JJ	170 JJ	180 JJ	–	61 JJ	N/A
Carbazole	330	40 JJ	64 JJ	65 JJ	71 JJ	59 JJ	26 JJ	N/A
Di–n–butylphthalate	330	180 JJ	150 JJ	140 JJ	560 JJ	–	–	N/A
Fluoranthene	330	960	1900	1600 J	1900 J	1000 JJ	420 JJ	N/A
Pyrene	330	690 J	1600	1200 J	1500 J	580 JJ	250 JJ	N/A
Butylbenzylphthalate	330	27 JJ	79 JJ	150 JJ	69 JJ	–	–	N/A
Benzo(a)Anthracene	330	400 JJ	980	620 JJ	780 JJ	240 JJ	120 JJ	N/A
Chrysene	330	550	1100	790 JJ	1100 JJ	730 JJ	270 JJ	N/A
Di–n–octylphthalate	330	10 JJ	11 JJ	–	23 JJ	–	34 JJ	N/A
Benzo(b)Fluoranthene	330	390 JJ	850	640 JJ	980 JJ	560 JJ	170 JJ	N/A

TABLE 3–5
SEDIMENT SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SD–101	SD–101 DUP	SD–102	SD–103	SD–104	SD–105	RL
TCL Semivolatile Organic Compounds (µg/kg) Continued								
Benzo(k)Fluoranthene	330	310 JJ	720	510 JJ	680 JJ	390 JJ	190 JJ	N/A
Benzo(a)Pyrene	330	370 JJ	800	530 JJ	740 JJ	440 JJ	150 JJ	N/A
Indeno(1,2,3–c,d)Pyrene	330	290 JJ	600	470 JJ	650 JJ	–	–	N/A
Dibenz(a,h)Anthracene	330	82 JJ	120 JJ	98 JJ	140 JJ	–	–	N/A
Benzo(g,h,i)perylene	330	160 JJ	240 JJ	220 JJ	380 JJ	–	–	N/A
TCL Polychlorinated Biphenyls (µg/kg)								
None detected at concentrations above detection limits								N/A
TCL Inorganics (mg/kg)								
Aluminum	40	16400	11100	16300 J	20400 J	13700 J	13500	N/A
Antimony	12	22.2 J	–	40.3 J	64.9 J	–	–	N/A
Arsenic	2	6.5 J	8.2 J	R	R	14.8 J	18.7 J	N/A
Barium	40	121	122	159 J	241 J	160 J	159	N/A
Beryllium	1	1.7	1.4 []	1.2 []J	2.0 []J	1.5 []J	1.1 []	N/A
Calcium	1000	81500	74500	20700 J	30400 J	27800 J	37300	N/A
Chromium	2	17.8 J	43.3 J	79.8 J	53.5 J	37.1 J	33.4	N/A
Cobalt	10	8.1 []	6.9 []	15.4 []J	14.9 []J	10.5 []J	10.0 []	N/A
Iron	20	20300	23100	38800 J	54500 J	41300 J	23700	N/A
Lead	0.6	37.3	59.3	262 J	278 J	193 J	262 J	N/A
Magnesium	1000	10800 J	10300 J	6880 J	7840 J	5180 J	5450 J	N/A
Manganese	3	897	1050	425 J	862 J	846 J	644	N/A
Mercury	0.04	–	–	0.27 J	–	–	–	N/A
Nickel	8	21.7	21.5	78.5 J	66.1 J	59.8 J	31.7	N/A
Potassium	1000	1550	1480 []	2320 []J	2440 []J	1830 []J	1460 []	N/A
Sodium	1000	423 []	517 []	283 []J	476 []J	438 []J	306 []	N/A
Vanadium	10	22.5 J	34.9 J	51.3 J	65.5 J	46.5 J	27.7	N/A
Zinc	4	148 J	177 J	601 J	884 J	544 J	283 J	N/A

TABLE 3-5
SEDIMENT SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
CITY OF BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	SD-101	SD-101 DUP	SD-102	SD-103	SD-104	SD-105	RL
Hazardous Waste Characteristics								
Corrosivity (pH)	–	9.40	9.22	7.34	7.19	6.47	6.25	2 ≥ pH ≥ 12.5
Ignitability (degrees F)	–	–	–	–	–	–	–	<140 F
Reactivity – Cyanide (mg/kg)	1	–	–	–	–	–	–	250
Reactivity – Sulfide (mg/kg)	1	–	–	–	–	–	–	500
Extraction Procedure Toxicity Analysis (mg/L)								
Barium	0.010	0.624 J	0.721 J	0.603 J	0.563 J	0.696 J	0.601 J	100
Mercury	0.0002	–	–	–	–	0.0052	0.0096	0.2

NOTES:

CRQL = contract required quantitation limit (organics)

CRDL = contract required detection limit (inorganics)

SD = sediment sample

RL = regulatory limits for hazardous wastes

TCL = target compound list

DUP = duplicate

N/A = not applicable

chromium, iron, lead, magnesium, mercury, nickel, vanadium, and zinc exceeded the background concentrations for New York State ranges. None exceeded ranges for the eastern United States.

3.4.4 Slag/Waste Pile Sampling Analytical Results

One slag/waste pile sample, designated WP-101-92, was collected from the northern edge of the site. The slag/waste pile sample was analyzed for TCL VOCs, TCL SVOCs, TCL PCBs, TCL inorganics, and for characteristics of hazardous wastes including EP Toxicity (metals only), corrosivity, ignitability, and reactivity. Analytical results and regulatory limits are presented in Table 3-6.

EP Toxicity and hazardous waste characteristic results were all within regulatory limits. No TCL VOCs were detected. Thirteen TCL SVOCs were detected in the sample, all at concentrations below the CRQL. No TCL PCBs were detected. TCL inorganic concentrations were compared to New York State and/or eastern United States background concentrations of inorganics in soil. Chromium, lead, nickel, and zinc exceeded these background ranges.

TABLE 3-6
SLAG/WASTE PILE SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	WP-101	RL
TCL Volatile Organic Compounds (µg/kg)			
None detected at concentrations below detection limits			N/A
TCL Semivolatile Organic Compounds (µg/kg)			
Naphthalene	330	11 JJ	N/A
2-Methylnaphthalene	330	13 JJ	N/A
Dibenzofuran	330	4 JJ	N/A
Diethylphthalate	330	7 JJ	N/A
Fluorene	330	5 JJ	N/A
N-Nitrosodiphenylamine	330	6 JJ	N/A
Phenanthrene	330	63 JJ	N/A
Carbazole	330	5 JJ	N/A
Fluoranthene	330	110 JJ	N/A
Pyrene	330	60 JJ	N/A
Benzo(a)Anthracene	330	31 JJ	N/A
Chrysene	330	70 JJ	N/A
Di-n-octylphthalate	330	5 JJ	N/A
TCL Polychlorinated Biphenyls (µg/kg)			
None detected at concentrtions below detection limits			N/A
TCL Inorganics (mg/kg)			
Aluminum	40	19300	N/A
Antimony	12	11.3 []J	N/A
Barium	40	5.1 []	N/A
Calcium	1000	257 []	N/A
Chromium	2	1440	N/A
Cobalt	10	2.1 []	N/A
Iron	20	1770	N/A
Lead	0.6	45.8 J	N/A
Manganese	3	110	N/A
Nickel	8	60.5 J	N/A
Sodium	1000	1060 []	N/A
Zinc	4	293 J	N/A

TABLE 3–6
SLAG/WASTE PILE SAMPLING ANALYTICAL DATA

LSB WAREHOUSING SITE
BUFFALO, NEW YORK

COMPOUND	CRQL/ CRDL	WP–101	RL
Hazardous Waste Characteristics			
Corrosivity (pH)	–	5.72	2 ≥ pH ≥ 12.5
Ignitability (degrees F)	–	–	<140 F
Reactivity – Cyanide (mg/kg)	1	–	250
Reactivity – Sulfide (mg/kg)	1	–	500
Extraction Procedure Toxicity (mg/L)			
Barium	0.010	0.379 J	100
Chromium	0.005	0.0188	5

NOTES:

CRQL = contract required quantitation limit (organics)

CRDL = contract required detection limit (inorganics)

WP = waste pile

TCL = target compound list

[ ] = less than sample specific CRDL

RL = regulatory limits for hazardous wastes

N/A = not applicable

µg/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

JJ = estimated below sample specific CRQL

– = non–detect

J = estimated

mg/L = milligrams per liter

4.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

The following subsections further evaluate the findings presented in Section 3.0 against the purpose of the PSA investigation to establish whether hazardous waste was disposed of on site and evaluate whether the site poses a potential significant threat to public health or the environment. Analytical results of the Task 3 sampling program were presented in Section 3.0. Evaluation of data presented in Section 3.0 included: (1) comparison of surface water results to New York State Class D Surface Water Quality Standards, (2) comparison of soil and sediment inorganic results to background ranges for inorganics in soils of New York State and the eastern United States, and (3) comparison of hazardous waste characteristic testing results to regulatory criteria for hazardous waste characteristics.

4.1 HAZARDOUS WASTE DEPOSITION

The results of the PSA Task 1 investigation documented the presence of hazardous waste on site. This waste has since been removed and the Task 3 investigation of LSB Warehousing did not provide data indicating that hazardous waste remains at the site. As set forth in NYSDEC regulations on the Identification of Listing of Hazardous Waste, 6 NYCRR Part 371, there would need to be documentation of listed hazardous waste having been disposed of on site, or material would have to fail one of the hazardous waste characteristic tests (i.e., either EP Toxicity, corrosivity, ignitability, or reactivity). Materials contaminated with PCBs at concentrations greater than 50 ppm are also defined as hazardous waste.

The Task 1 records search indicated that two containers disposed of on the site exceeded the EP Toxicity level for lead. These containers were removed from the site in September 1989 by Tonawanda Tank Transport (E.C. Jordan Co., 1991a).

Soil, waste, sediment, and water samples collected during the Task 3 investigation did not fail any of the characteristic tests for hazardous wastes. While EP Toxicity (metals only) on the soil, sediment, and waste samples did detect leachable levels of several elements, the concentrations were below regulatory limits.

The lead levels detected in surface soils and subsurface soils exceeded the background concentration ranges that have been established for soils in New York State and the eastern United States. Several other inorganics detected at the site

also exceeded these ranges. NYSDEC believes that the elevated inorganic levels are related to the industrial development of the area and are not a consequence of hazardous waste disposal at the site.

Aroclor-1254 was detected in sample SS-101-92 at 220 μg/kg. This concentration is well below the 50 ppm regulatory definition of hazardous for PCB-contaminated wastes.

4.2 SIGNIFICANT THREAT DETERMINATION

NYSDEC regulations pertaining to Inactive Hazardous Waste Sites, 6 NYCRR Part 375, set forth a number of definitions of significant threat. For purposes of the Task 3 investigation, significant threat would be established by the contravention of environmental quality standards. Significant threat was evaluated by comparing surface water sample results to New York State Class D Surface Water Standards.

Although the elevated lead levels (in addition to the other inorganics) found in the surface soils and subsurface soils do not represent a contravention of environmental quality standards, there are potential public health risks. The site's proximity to an adjacent trailer park and unrestricted site access allows for site use by the neighboring public for recreational purposes (i.e., picnicking, and pet exercising).

Iron was detected in the surface water at concentrations greater than the Class D standard of 300 micrograms per liter. This exceedance has been evaluated and is not considered to be related to site activities because the iron levels are elevated in the surface water as it enters the site.

4.3 RECOMMENDATIONS

Although information collected during the Task 1 investigation does document the presence of characteristic hazardous wastes as defined by 6 NYCRR Part 371, the amount of hazardous waste (2 drums) is considered an inconsequential amount and has subsequently been removed from the site. The Task 3 investigation did not document the presence of any remaining hazardous wastes on site. The area is heavily industrialized and NYSDEC believes that the elevated inorganic levels in the soil are related to the areas industrial development and not result of hazardous waste disposal. It is, however, recommended that the site be secured to prevent unauthorized access.

Based on these results, it is recommended that the LSB Warehousing site be removed from NYSDEC's Registry of Inactive Hazardous Waste Sites in New York. Therefore, PSA Tasks 4 through 6 will not be conducted.

ABB-ES	ABB Environmental Services
bgs	below ground surface
CRQL	Contract Required Quantitation Limit
ECDEP	Erie County Department of Environment and Planning
EP	Extraction Procedure
GPR	ground-penetrating radar
HASP	Health and Safety Plan
µg/kg	micrograms per kilogram
mg/L	milligrams per liter
NYCRR	New York Compilation of Codes, Rules, and Regulations
NYSDEC	New York State Department of Environmental Conservation
NYTEST	NYTEST Environmental, Inc.
ppm	parts per million
PCBs	polychlorinated biphenyls
PID	photoionization detector
PSA	Preliminary Site Assessment
QAPP	Quality Assurance Project Plan
SVOCs	semivolatile organic compounds
TCL	Target Compound List
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds

E.C. Jordan Co., 1991a. *Final Report Task 1: Data Records Search and Assessment, LSB Warehousing.* Prepared for New York State Department of Environmental Conservation, Albany, New York. March.

E.C. Jordan Co., 1991b. Preliminary Site Assessments, Various Locations, Work Assignment No. D002472-6.1, Project Management Work Plan, Amendment No. 1; November.

E.C. Jordan Co., 1992a. *Program Quality Assurance Project Plan.* Prepared for the New York State Department of Environmental Conservation, Albany, New York. June.

E.C. Jordan Co., 1992b. *Program Quality Health and Safety Plan, Part II, Revision I.* Prepared for the New York Department of Environmental Conservation, Albany, New York. June.

E.C. Jordan Co., 1992c. *Preliminary Site Assessment, Site Work Plan, LSB Warehousing Site, Village of Blasdell, New York.* Prepared for the New York State Department of Environmental Conservation; Albany, New York. September.

Ecology and Environment Engineering, 1989. *Engineering Investigations at Inactive Hazardous Waste Sites - Phase I Investigation.* Prepared for New York State Department of Environmental Conservation (NYSDEC), Division of Hazardous Waste Remediation, Albany, New York. September 1988.

Erie County Department of Environment and Planning, (ECDEP), 1985. *Memorandum.* Dated July 25 from E. Joseph Sciascia, Senior Environmental Quality Engineer, to P. Buechi. Re: Complaint Investigation 3531.

New York State Department of Environmental Conservation (NYSDEC), 1991. *New York Codes, Rules, and Regulations, Title 6, Parts 700-705 - Water Quality Regulations for Surface Waters and Groundwaters.* Effective September 1, 1991.

New York State Department of Environmental Conservation (NYSDEC), 1992a. *New York Codes of Rules, and Regulations, Title 6, Part 371 - Identification and Listing of Hazardous Wastes.* Effective January 31, 1992.

New York State Department of Environmental Conservation (NYSDEC), 1992b. *New York Codes, Rules, and Regulations, Title 6, Part 375, Inactive Hazardous Waste Disposal Site Remedial Program*. Effective May 1992.

New York State Department of Environmental Conservation (NYSDEC), 1992c. *Inactive Hazardous Waste Sites in New York State, Volume 9*. Prepared by the New York State Departments of Conservation and Health, Albany, New York. April.

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

Original-BHSC
Copy-REGION
Copy-DEE
Copy-DOH
Copy-PREPARER

REGISTRY SITE CLASSIFICATION DECISION

1. SITE NAME	2. SITE NO	3. TOWN/CITY/VILLAGE	4. COUNTY
LSB Warehousing	915132	Blasdell	Erie

5. REGION: 9

6. CLASSIFICATION: Current 2a Proposed Delist Modify

7. LOCATION OF SITE (Attached U.S.G.S Topographic Map showing site Location)

a. Quadrangle	b. Site Latitude	Longitude	c. Tax Map Number
Buffalo S-E	42° 48' 12"	78° 49' 35"	151.38-1-1

8. BRIEFLY DESCRIBE THE SITE (Attach site plan showing disposal/sampling locations)

The 1.65-acre site is moderately overgrown with vegetation. An abandoned warehouse is located at the eastern end of the site. The property was used by a trucking firm from 1984. The western part of the site was used as an unauthorized landfill. An unnamed stream and cattail marsh borders the site to the south. The stream was recently regraded and culverts installed as it enters and exits the site.

a. Area 1.65 acres b. EPA ID Number D986886091

c. Completed (X) Phase I ( ) Phase II (X) PSA ( ) RI/FS (X) PA/SI ( ) Other

9. HAZARDOUS WASTES DISPOSED

In 1989, four drums at the site were sampled. Two of the drums failed EP Toxicity analysis for lead. The drums were removed from the site in 1989. PSA Task 3 sampling at the site did not indicate evidence of hazardous waste disposal (as defined by 6 NYCRR 371) at the site.

10. ANALYTICAL DATA AVAILABLE

a. ( ) Air ( ) Groundwater (X) Surface Water (X) Soil (X) Waste (X) EPTox ( ) TCLP

b. Contravention of Standards or Guidance Values

Iron detected in the surface water at both upstream and downstream sampling locations exceeded Class D standards.

11. JUSTIFICATION FOR CLASSIFICATION DECISION

Based on the information developed during the PSA Task 3 investigation, the presence of listed hazardous waste cannot be documented at the site. Soil and sediment samples did not fail characteristic hazardous waste testing.

12. SITE IMPACT DATA

a. Nearest surface water: Distance 0 ft. Direction on-site Classification small unclassified stream crosses site
b. Nearest groundwater: Depth 0-10 ft. Flow Direction unknown ( ) Sole Source ( ) Primary ( ) Principal
c. Nearest water supply: Distance 15 mi. Direction west Active (X)Yes ( )No
d. Nearest building: Distance 0 mi. Direction on-site Use abandoned

e. In State Economic Development Zone?	( )Y	(X)N	i. Controlled site access?	( )Y	(X)N
f. Crops or livestock on site?	( )Y	(X)N	j. Exposed hazardous waste?	( )Y	(X)N
g. Documented fish or wildlife mortality?	( )Y	(X)N	k. HRS Score NA		
h. Impact on special status fish or wildlife resource?	( )Y	(X)N	l. For Class 2: Priority Category NA		

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Manufacturer's Hanover Trust Co.	Rochester, New York 14603	

16. PREPARER

Signature Date

Kathleen Maguire, P.E., Geotechnical Engineer, ABB Environmental Services
Name, Title, Organization

17. APPROVED

Signature Date

Name, Title, Organization

APPENDIX B

SITE INSPECTION REPORT
USEPA FORM 2070-13

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

EPA

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D986886091

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
LSB Warehousing	1985 Electric Avenue

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG. DIST
Blasdell	New York	14219	Erie	029	38

09 COORDINATES LATITUDE	LONGITUDE	10 TYPE OF OWNERSHIP (Check one)
42 48 12.N	078 49 35.W	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
10 / 13 / 92 (MONTH DAY YEAR)	_ ACTIVE X INACTIVE	1961 (BEGINNING YEAR) 1984 (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 ABB Environmental Svcs. (ABB-ES) (Name of firm) _ G. OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
Kathleen Maguire	Geotechnical Engineer	ABB-ES	(207) 775-5401
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Brian Butler	Geologist	ABB-ES	(207) 775-5401
Glenn Daukas	Geologist	ABB-ES	(207) 775-5401
Shelly Preasley	Engineer	ABB-ES	(207) 775-5401
Srikanth Maddineni	Environmental Engineer II	NYSDEC - Central Office	(518) 457-0638
David Locey	Environmental Engineer II	NYSDEC - Region 9	(716) 851-7220

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			( )
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X PERMISSION _ WARRANT	N/A	Clear, 50° F

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Sri Maddineni	NYSDEC, 50 Wolf Road, Albany, NY	(518) 457-0638

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	03 DATE
Kathleen Maguire		ABB-ES	(207) 775-5401	5 / 4 / 93 (MONTH DAY YEAR)

EPA FORM 2070-13 (7-81)

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

EPA

I. IDENTIFICATION	
01 STATE	01 SITE NUMBER
New York	D986886091

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

- TONS
- CUBIC YARDS
- NO. OF DRUMS
- UNKNOWN X

3 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE	50	gallons	One 55-gallon container and contents were sampled
SOL	SOLVENTS			and removed from site in 1989.
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			One drum of unknown material
MES	HEAVY METALS	700	pounds	containing lead was removed from site in 1989.

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04/STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
MES	Lead	7439-92-1	55-gallon container	160	mg/l

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Evaluation Report of Initial Data, May, 1993, ABB Environmental Services and references cited therein.

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: D986886091

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X A. GROUNDWATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Unknown; no sampling has been completed. Groundwater is not used for potable purposes in the vicinity of the site.

01 X B. SURFACE WATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 1-10 — 04 NARRATIVE DESCRIPTION

Unknown; site is bordered by a cattail marsh, beaver pond, and small stream. 55-gallon containers and debris in the marsh indicate a potential for contamination. The potential also exists for surface water contamination via stormwater runoff or groundwater discharge. Iron was detected at concentrations greater than New York State Class D Surface Water Quality Standards.

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

No known contamination.

01 X D. FIRE/EXPLOSIVE CONDITIONS — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10-100 — 04 NARRATIVE DESCRIPTION

No known fire or explosion hazard associated with hazardous substances. The abandoned warehouse on-site may pose a fire hazard.

01 X E. DIRECT CONTACT — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10-100 — 04 NARRATIVE DESCRIPTION

No known contact. No known hazardous substances on-site but site is used by local residents of abutting trailer park for recreation and there is therefore a potential for direct contact.

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

Several inorganic compounds were detected at the site at levels exceeding the background ranges established for New York State and the Eastern United States. Analysie of surface soil samples in 1982 detected the PCB Aroclor-1254 at 220 µg/kg.

01 X G. DRINKING WATER CONTAMINATION — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Low potential. Site area is supplied by municipal water authority that withdraws water from Lake Erie. There are no known drinking water wells downgradient of site.

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

No known injuries. Site is not currently used.

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

Site is used by local residents for recreation and pet walking.

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	D986886091

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

No known damage to flora. Much of the property consists of landfill that has encroached on wetland and is eparsely vegetated in areas of the site.

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

No known damage to fauna. Evidence of wildlife use of site noted during walkover included wildfowl (heron, duck), beaver, turtle, snake.

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

No known contamination of food chain. Potential exists due to proximity of wetland and observed use by wildlife.

01 X M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 X OBSERVED (DATE: 7/90) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The character of the landfill material was observed to vary and has not heen adequately covered.

01 X N. DAMAGE TO OFFSITE PROPERTY — 02 _ OBSERVED (DATE: _____) X POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

55-gallon containers and debris were observed in the marsh bordering the site. The exact location of the property line is not known but it appears that debris extends onto the lot south of the site.

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

No known contamination.

01 X P. ILLEGAL/UNAUTHORIZED DUMPING — 02 X OBSERVED (DATE: 7/90) _ POTENTIAL _ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

The use of the site for landfill was not authorized.

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

Areas of wood and rusted metal debris were observed across the site. 55-gallon containers (intact or crushed) were noted scattered in the marsh and on the landfilled area.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 100

IV. COMMENTS

Condition of sits warehouse is unknown. The building is boarded and shut with large holes in second story walls. The building shows evidence of a fire.

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

Evaluation Report of Initial Data, May, 1993, ABB Environmental Services, and references cited therein.

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

EPA

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D986886091

II. PERMIT INFORMATION - No permits known to have been issued

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				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
_ A. SURFACE IMPOUNDMENT		
_ B. PILES		
X C. DRUMS, ABOVE GROUND	6 - 8	55 gal
X D. TANK, ABOVE GROUND	1	100 gal (approx)
_ E. TANK, BELOW GROUND		
X F. LANDFILL	unknown	
_ G. LANDFARM		
_ H. OPEN DUMP		
_ I. OTHER (specify)		

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
- _ H. OTHER (specify)

05 OTHER
- X A. BUILDINGS ONSITE

06 AREA OF SITE: 1.65 (acres)

07 COMMENTS

55-gallon drums were noted in site wetland. The site has been landfilled to an unknown extent. Landfill banks are approximately 6 feet high bordering wetland at rear (west) of site. One small tank that appeared to be a home heating oil tank was observed in the marsh. The site was regraded in 1992 at the rear of the site in the landfill area and at the locations where the stream exits and enters tbe site.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (check one) - Unknown

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

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

Several drums were observed partially submerged in marshy area along south property boundary.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X YES _ NO

02 COMMENTS

The landfilled material has not been covered and is exposed in several sparsely vegetated areas of the site. One pile of green slag was observed as was one area of wood and metal debris in a depression. The site is unrestricted and can easily be accessed by foot.

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

Evaluation Report of Initial Data, May 1993, ABB-ES 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	D986886091

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. _	E. _	F. _

03 DISTANCE TO SITE

A. 15 (mi)
B. 1 (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 1 family

03 DISTANCE TO NEAREST DRINKING WATER WELL 1 (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
< 10 (ft)	WSW	50-80 (ft)	Unknown (gpd)	_ YES X NO

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

There is no information for the closest and only private well.

10 RECHARGE AREA

X YES
_ NO

COMMENTS - Site is within a recharge area.

11 DISCHARGE AREA

X YES
_ NO

COMMENTS - Discharge may occur from higher landfilled portion of site to adjacent wetland.

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

X A. RESERVOIR, RECREATION DRINKING WATER SOURCE
_ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
_ C. COMMERCIAL INDUSTRIAL
_ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Lake Erie	_	1.7 (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. 16,854 NO. OF PERSONS	B. 38,961 NO. OF PERSONS	C. 73,425 NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

adjacent (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

23,451

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.1 (mi)

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

There is a trailer court adjacent (north) to the site.

POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

EPA

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE	01 SITE NUMBER
New York	D986886091

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

_ A. 10^{-6} - 10^{-8} cm/sec _ B. 10^{-4} - 10^{-6} cm/sec X 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) X B. RELATIVELY IMPERMEABLE (10^{-4} - 10^{-6} cm/sec) _ 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
25-30 (ft)	Unknown (ft)	6-9

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE		
		SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
9 (in)	2.1 (in)	< 3 %	East	< 3 %

09 FLOOD POTENTIAL

SITE IS IN N/A YEAR FLOODPLAIN

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

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTAURINE	OTHER
A. N/A (mi)	B. 0.5 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

500 feet (mi)

ENDANGERED SPECIES: Class II New York State Wetland

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. on-site (mi)	B. adjacent (mi)	C. > 2 (mi)	D. > 2 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Site was a commercial industry, now bankrupt, within residential (north and south), undeveloped (east) and industrial (west) transitional zones. Site is located on a lacustrine plain 1.5 miles from Lake Erie. The site and surrounding area is relatively flat with an approximate 1% grade. The rear of the site drops off to a drainage ditch with a change in elevation of approximately 8 feet.

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

Evaluation Report of Initial Data, May 1993, ABB-ES and references cited therein.

EPA

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

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D986886091

II. SAMPLES TAKEN - None

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	0		
SURFACE WATER	5	NYTEST Environmental, Inc. Port Washington, New York	Included in Report
WASTE	1	NYTEST Environmental, Inc. Port Washington, New York	Included in Report
AIR	0		
RUNOFF	0		
SPILL	0		
SOIL	13	NYTEST Environmental, Inc. Port Washington, New York	Included in Report
VEGETATION	0		
OTHER	0		

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air Monitoring	No readings observed with a Photovac Tip that were above background
pH - Surface Water	7.7 to 10.3
Specific Conductivity - Surface Water	580 μmhos/cm to 630 μmhos/cm
Temperature - Surface Water	7.8° C to 12.7° C
Dissolved Oxygen - Surface Water	0.68 ppm to 6.73 ppm

IV. PHOTOGRAPHS AND MAPS

01 TYPE X GROUND _ AERIAL

02 IN CUSTODY OF Sri Maddineni, NYSDEC
(Name of organization or individual)

03 MAPS
X YES
_ NO

04 LOCATION OF MAPS
Sri Maddineni, NYSDEC

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

Visual description of samples.

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

Evaluation Report of Initial Data, May 1993, ABB-ES 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: D986886091

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
Manufacturers Hanover Trust Co.		P.O. Box 1914		Rochester	New York	14603

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
LSB Warehousing Corp.		1995 Electric Avenue		Blasdell	New York	14219
John Losey Enterprises, Inc.		1995 Electric Avenue		Blasdell	New York	14219

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)

Evaluation Report of Initial Data, May 1993, ABB-ES and references cited therein.

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

EPA

I. IDENTIFICATION	
01 STATE: New York	01 SITE NUMBER: D98688091

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER	04 SIC CODE
No current operator		

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	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	13 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	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	04 SIC CODE
LSB Warehousing		

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	05 CITY	06 STATE	07 ZIP CODE
1995 Electric Avenue	Blasdell	New York	14219

08 YEARS OF OPERATION	09 NAME OF OWNER
1982-1984	

PREVIOUS OPERATOR'S PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER	13 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE
John Losey Enterprises		

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	05 CITY	06 STATE	07 ZIP CODE
1995 Electric Avenue	Blasdell	New York	14219

08 YEARS OF OPERATION	09 NAME OF OWNER
1976-1982	

10 NAME	11 D+B NUMBER	13 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER	04 SIC CODE

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

10 NAME	11 D+B NUMBER	13 SIC CODE

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	14 CITY	15 STATE	16 ZIP CODE

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

Evaluation Report of Initial Data, May 1993, ABB-ES 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: D986886091

II. ON-SITE GENERATOR

01 NAME	02 D+B NUMBER
No current operator	
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
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
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

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

Evaluation Report of Initial Data, May 1993, ABB-ES and references cited therein.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE: New York 01 SITE NUMBER: D986886091

II. PAST RESPONSE ACTIVITIES

01 _ A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ B. TEMPORARY WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ C. PERMANENT WATER SUPPLY PROVIDED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ H. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ L. ENCAPSULATION	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ O. EMERGENCY DIKING/SURFACE WATER DIVERSION	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ P. CUTOFF TRENCHES/SUMP	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			
01 _ Q. SUBSURFACE CUTOFF WALL	02 DATE	03 AGENCY	
04 DESCRIPTION			
N/A			

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE: New York 01 SITE NUMBER: D986886091

II. PAST RESPONSE ACTIVITIES (Continued)

01 _ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 _ 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY	
N/A			
01 X 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE 9/29/89	03 AGENCY	

Four 55-gallon containers were removed from the site. Two contained hazardous wastes.

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

Evaluation Report of Initial Data, May 1993, ABB-ES 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	D986886091

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION _ YES X NO

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

July 1985 - Erie County Department of Environment and Planning performed a site walkover to investigate a complaint regarding an abandoned tanker.

Sept 1989 - Manufacturer's Hanover had four 55-gallon containers, two holding hazardous waste, removed from the site. Tonawanda Tank Transport performed the removal. Containers were disposed of at Chem Met in Michigan.

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

Evaluation Report of Initial Data, May 1993, ABB-ES and references cited therein.