ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

Aluminum Match Plate Corporation Site No. 915005

Town of Tonawanda Erie County

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
Thomas C. Jorling, *Commissioner*

Division of Hazardous Waste Remediation
Michael J. O'Toole, Jr., *Director*

By:

DUNN ENGINEERING COMPANY

In association with

TAMS CONSULTANTS, INC.

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November 1993

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EXECUTIVE SUMMARY

Site Description

The Aluminum Match Plate Corporation occupied approximately five acres of property located at 1500 Military Road (Section 65.12, Block 1, Lot 23.11) in the Town of Tonawanda, New York (Figure ES-1). The site is located in an industrial/commercial/residential area just north of the City of Buffalo. It is bordered to the west by New York Central Railroad and on the east by Military Road (Figure ES-2). The company manufactured aluminum castings using the shell molding process and permanent mold process. From the 1940s to 1980, the company used a low-lying area, one acre in size, adjacent to the plant building for the disposal of spent foundry sands which contained a phenolic formaldehyde resin. Approximately 30 tons of spent sand were generated per week. Operations ceased and the property was sold in July 1987.

Summary of Preliminary Site Assessment

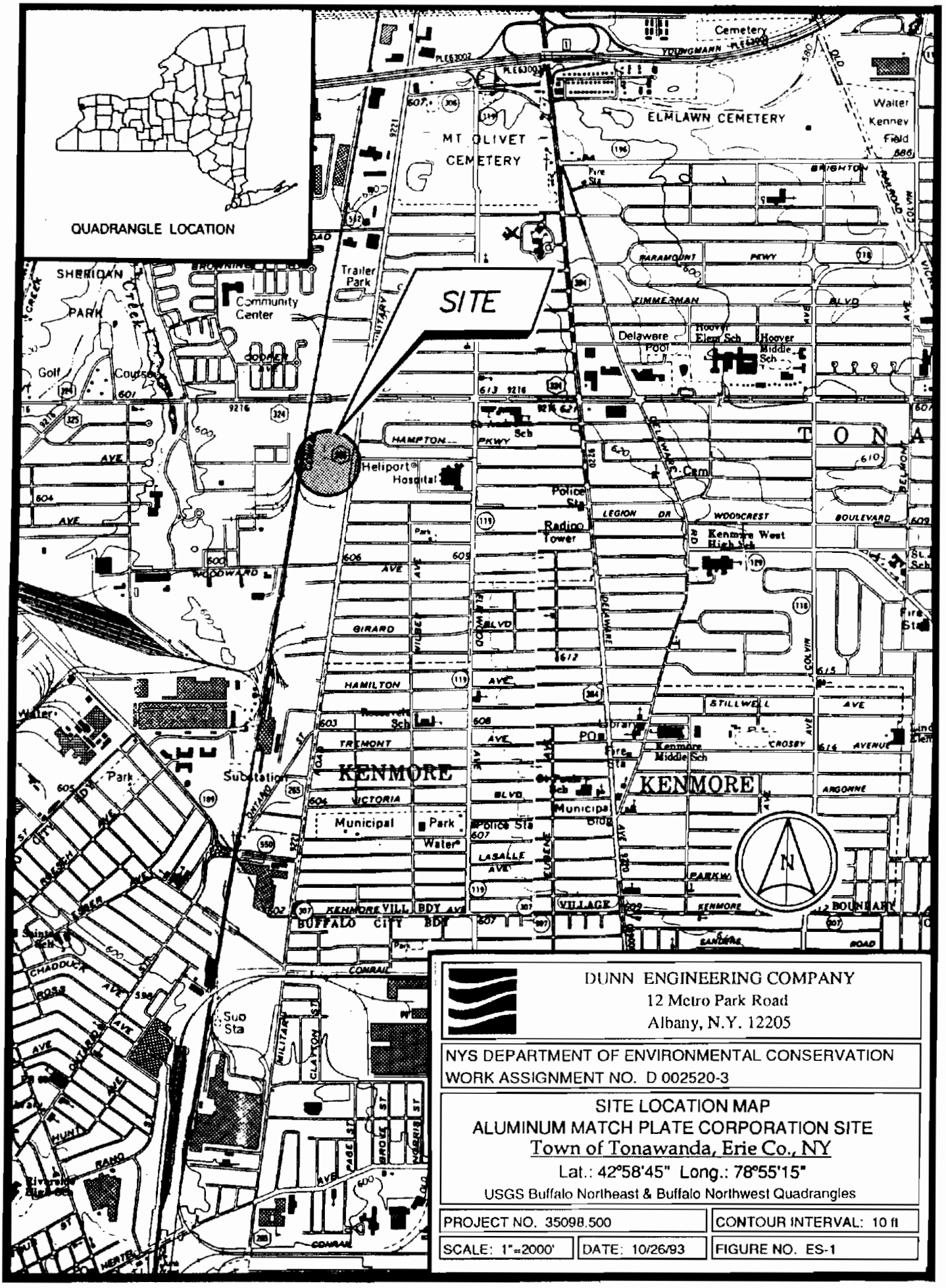
The spent foundry sands were collected in 1978 and a leachate potential test conducted. The analytical results indicated a phenol concentration of 0.16 parts per million (ppm) in the elutriate. Samples collected by the US Geological Survey (USGS) in 1982 of the soils around the disposal area did not contain detectable concentrations of phenols or mercury. The Erie County Department of Environment and Planning (ECDEP) prepared a profile for the site in August 1982 that suggested that phenol concentrations had biodegraded to undetectable levels since placement of the spent foundry sands. Additionally, they concluded that the low permeability nature of the unconsolidated materials at the site may preclude phenolic compounds from reaching the water table prior to biodegradation reducing concentrations below the ground water guidance of 0.001 ppm. As such, ECDEP recommended that no further investigation was necessary for the site.

Conclusion

Based on the information gathered as part of this Preliminary Site Assessment, DUNN concludes that the spent foundry sand containing phenolic formaldehyde resin binders is not a listed hazardous waste as defined by 6 NYCRR Part 371. As such, the disposal of hazardous waste has not been documented at this site.

Recommendation

Based on the findings presented in this document, DUNN recommends that the Aluminum Match Plate site (NYS Site No. 915005) be de-listed from the Registry of Inactive Hazardous Waste Disposal Sites in New York State. This recommendation may be subject to modification in the future if new information becomes available.

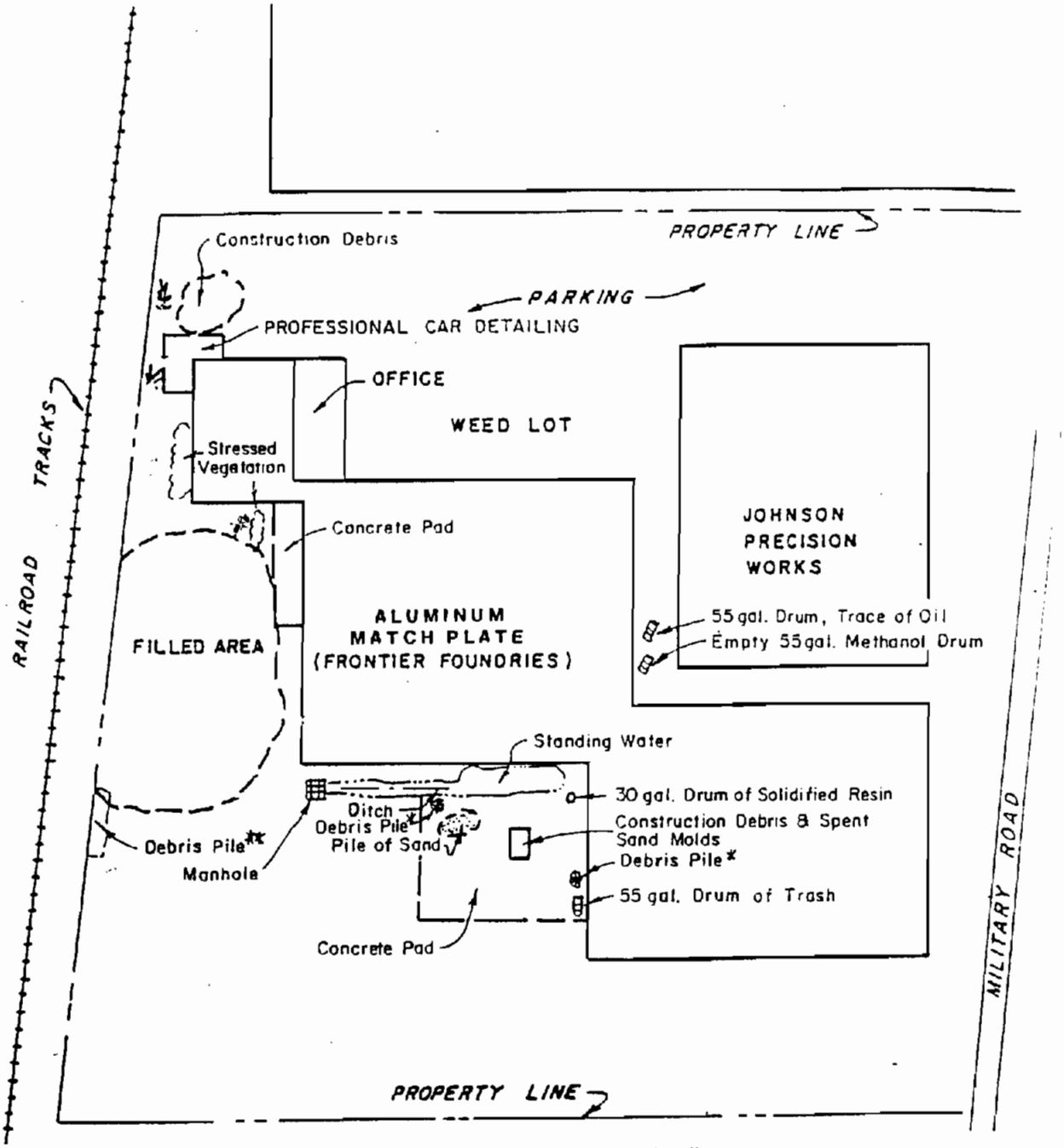


DUNN ENGINEERING COMPANY
12 Metro Park Road
Albany, N.Y. 12205

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NO. D 002520-3

SITE LOCATION MAP
ALUMINUM MATCH PLATE CORPORATION SITE
Town of Tonawanda, Erie Co., NY
Lat.: 42°58'45" Long.: 78°55'15"
USGS Buffalo Northeast & Buffalo Northwest Quadrangles

PROJECT NO. 35098.500		CONTOUR INTERVAL: 10 ft
SCALE: 1"=2000'	DATE: 10/26/93	FIGURE NO. ES-1



- Debris pile containing objects best described as plastic "test tubes"

** Debris pile containing:

- unlabeled 55 gallon drum containing silver-colored filings
- 1 empty 55 gallon drum labeled sodium methylate
- 1 8-inch diameter, 2 foot long CO_2 gas cylinder

DUNN ENGINEERING COMPANY
12 Metro Park Road
Albany, N.Y. 12205

SITE FEATURES MAP

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NUMBER: D002520-3
ALUMINUM MATCH PLATE CORPORATION SITE
CITY OF TONAWANDA ERIE COUNTY, NY

PROJECT NO. 35098.500	DATE: 10/26/93	DWG. NO. C304	NOT TO SCALE	FIGURE NO. ES-2

1.0 INTRODUCTION

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of a Preliminary Site Assessment (State Superfund Standby Contract Work Assignment No. D002520-3) of the Aluminum Match Plate site (NYS Site Number 915005) located in the Town of Tonawanda, Erie County, New York.

Dunn Engineering Company (DUNN), in association with TAMS Consultants, under contract with the NYSDEC, performed this investigation in order to determine if hazardous waste as defined by 6 NYCRR Part 371 was disposed on site, and if so, to determine significant threat to public health or the environment as a result of the presence of hazardous waste. With this information, the site can either be classified or de-listed as defined by Article 27, Title 13, of the Environmental Conservation Law (ECL).

In order to achieve the goals of this Preliminary Site Assessment (PSA), a review of the following information regarding the site was performed:

- History of use;
- Topography;
- Geology/Hydrology;
- Demographics of surrounding area;
- Proximity to possible receptors;
- Previously noted contamination or regulatory actions; and
- Evaluating the adequacy of existing data in order to classify or de-list the site.

Sources used to obtain the above listed information include the following:

- New York State Department of Environmental Conservation (NYSDEC) Region 9 files;
- New York State Department of Health (NYSDOH) records;
- Erie County Department of Health (ECDOH) records;
- Aerial photographs;
- Topographic maps;
- Phase I report by Recra Environmental , Inc. (1987); and
- DUNN/TAMS site reconnaissance.

In addition, the following individuals and agencies were contacted:

- Mr. Mark Mateunas, NYSDEC, Bureau of Hazardous Site Control;
- Mr. Dave Denk, NYSDEC Division of Regulatory Affairs;
- Mr. Mark Kendal, NYSDEC Division of Fish and Wildlife;
- NYSDEC Region 9, Division of Hazardous Waste Remediation;
- Mr. Michael Rivera, NYSDOH, Bureau of Environmental Exposure Investigation; and
- Erie County Department of Health.

Literature sources referenced in this report are presented in Appendix A. Site specific documentation used in support of the text are presented in Appendix B.

On August 21, 1990, a site reconnaissance was performed by Mr. George Moretti (DUNN) and Mr. Martin Derby (TAMS). Color photographs of the site are presented in Appendix C and Site Inspection Report (US EPA Form 2070-13) is provided in Appendix D.

2.0 SITE ASSESSMENT

2.1 Site History

The Aluminum Match Plate Corporation, located at 1500 Military Road (Section 65.12, Block 1, Lot 23.11) in the Town of Tonawanda, New York (Figure 1), manufactured aluminum castings using the shell molding process and permanent mold process until 1987 (Document B-1). From the 1940s to 1980, the company disposed spent foundry sands, which contained a phenolic formaldehyde resin, into low lying areas of the site adjacent to the plant building (Figure 2). Approximately 30 tons of spent sand were generated per week and disposed into this area (Document B-3).

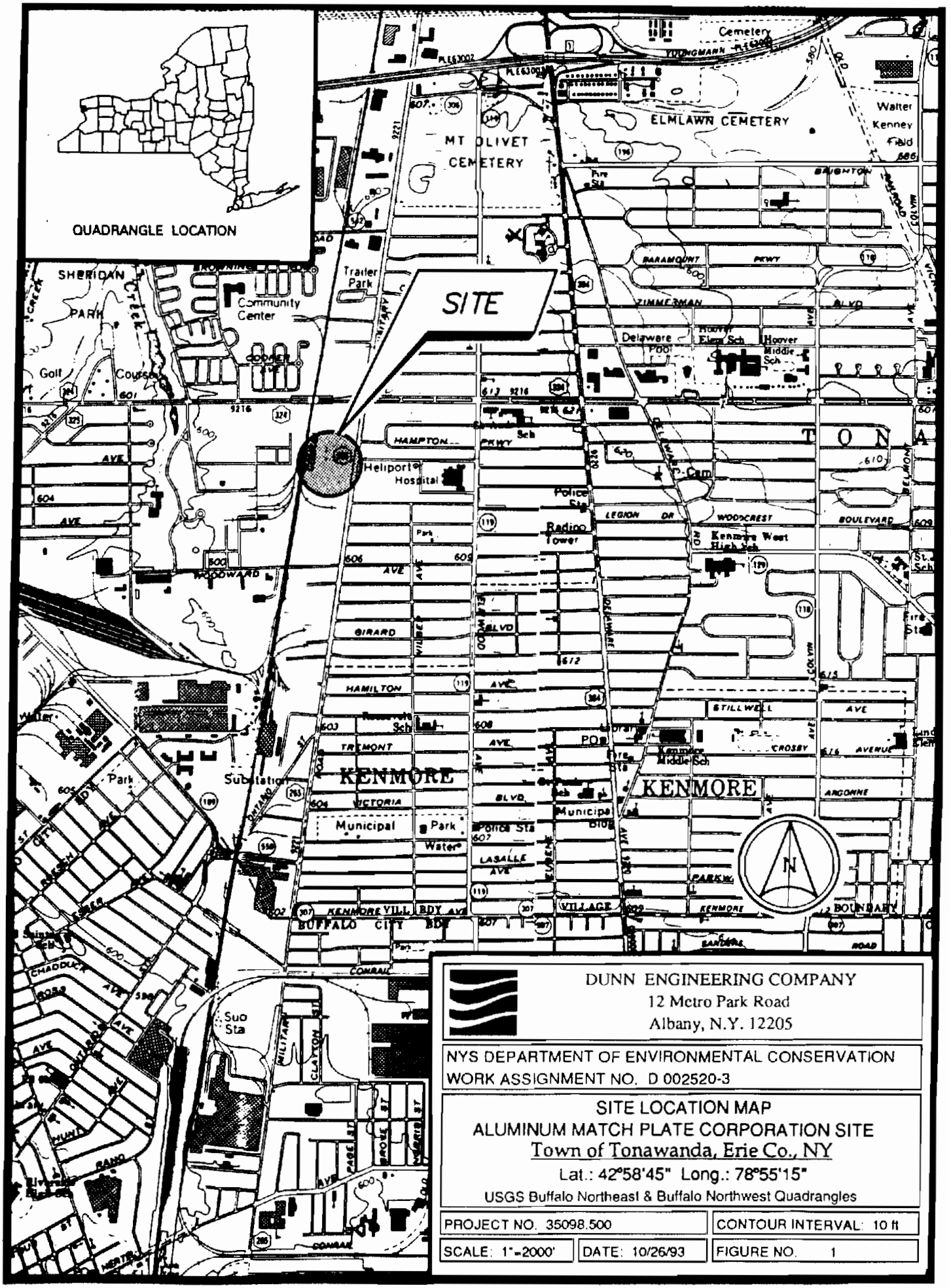
A leachate potential test conducted on a sample of the foundry sands collected in 1978 identified 0.16 parts per million (ppm) in the sample elutriate (Document B-2 and B-5). Information on the transformation and degradation of phenol is provided in the 1989 Toxicological Profiles published by the Agency for Toxic Substances and Disease Registry, U.S. Public Health Service. Phenol degrades photochemically in air and readily biodegrades in soil especially in wet conditions (Reference A-14). The Aluminum Match Plate Corporation was sold by its parent company, Frontier Bronze Corporation in July 1987, to Mr. Charles Bonda. The building is currently vacant except for a professional car detailing business.

In 1979, the NYSDEC issued a Part 360 permit to the company for the landfilling operation (Reference A-1 and Document B-3). The permit was to expire in September of 1982. In May of 1980, however, the company informed the Erie County Department of Environment and Planning (ECDEP) that on-site disposal of sand had ceased. The company then contracted with Niagara Sanitation to haul the foundry sands generated by their current operations to a disposal area in Niagara County (Document B-4). An unknown amount of foundry sand used as fill for low-lying marshy areas remains at the site.

2.2 Site Topography

The site is located in a generally level area at an elevation between 600 and 610 feet above mean sea level. Runoff from the site generally drains toward Two Mile Creek located approximately one-half mile west of the site (Figure 1). Two Mile Creek drains to the Niagara River about two miles northeast of the site.

The site is located in Zone C as designated by the Federal Emergency Management Agency (FEMA) flood zone insurance map (Reference A-3). Zone C includes areas outside the 500 year floodplain.



DUNN ENGINEERING COMPANY
12 Metro Park Road
Albany, N.Y. 12205

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NO. D 002520-3

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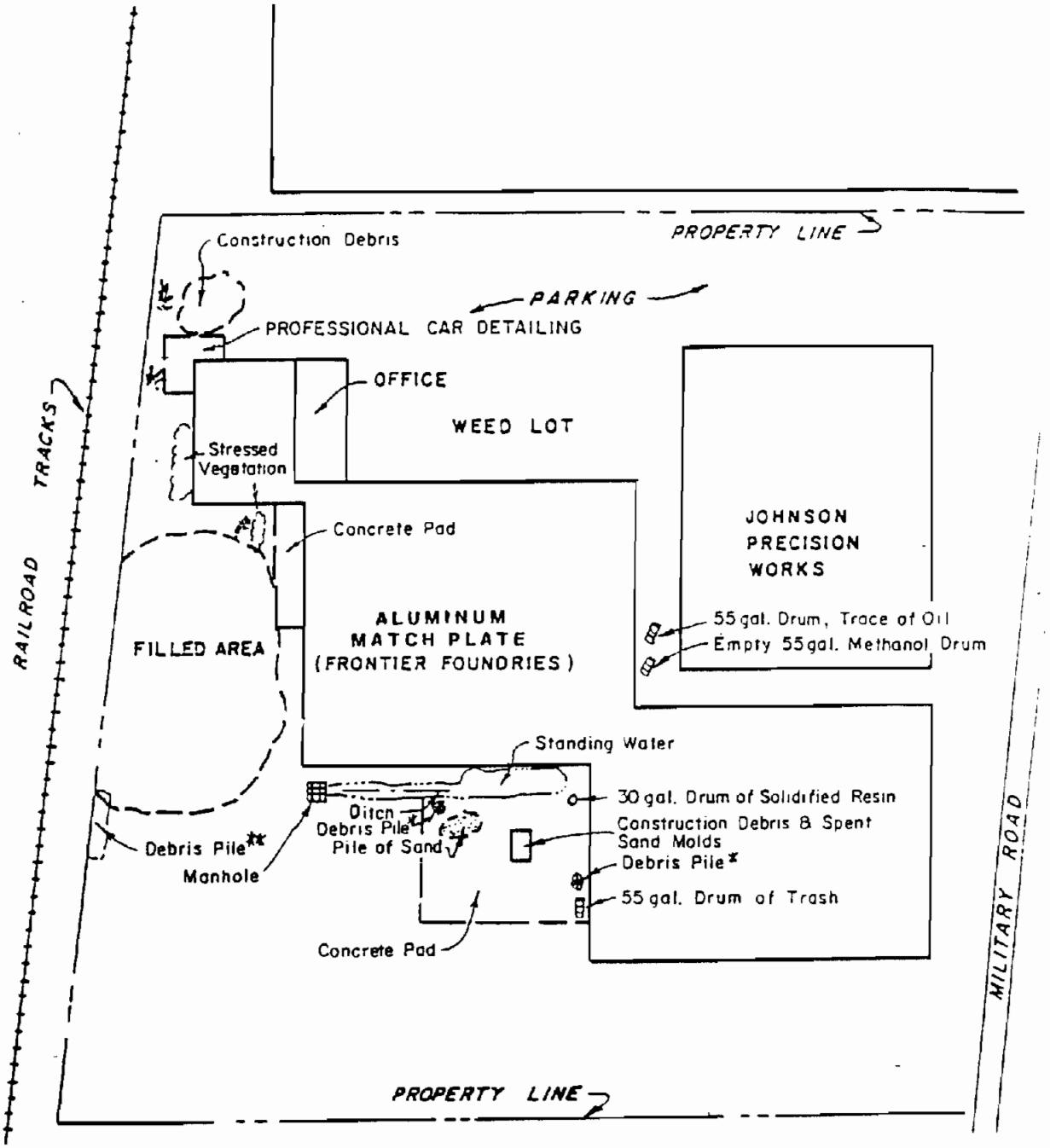

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DUNN ENGINEERING COMPANY
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SITE FEATURES MAP

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WORK ASSIGNMENT NUMBER: D002520-3
ALUMINUM MATCH PLATE CORPORATION SITE
CITY OF TONAWANDA ERIE COUNTY, NY

PROJECT NO 35098.500	DATE: 10/26/93	DWG. NO. C304	NOT TO SCALE	FIGURE NO. 2

2.3 Geology

2.3.1 Physiography

New York State is subdivided into nine distinct physiographic provinces on the basis of topographic relief and geology (Reference A-9). The Aluminum Match Plate Corporation site is located within the Erie Ontario Lowlands which are characterized as a relatively low, flat-lying area south of Lake Erie and Lake Ontario ranging in width from two to five miles. Maximum elevations are to the east and south where elevations rise 1,000 to 1,500 feet above mean sea level. The site is located in a topographically flat area with an approximate elevation of 605 feet above mean sea level. The area slopes gently toward Two Mile Creek, located one half mile west of the site.

2.3.2 Surficial Deposits

The site soils are classified as Urban Land where as much as 80 percent of the soil surface is covered by asphalt, concrete, buildings or other impervious structures (Reference A-10). Regional surficial geologic mapping indicates the presence of lacustrine silt and clay (Reference A-11) deposited by proglacial lakes.

In 1982, the U.S. Geological Survey (USGS) drilled four borings around the disposal area at the site (Reference A-2). The maximum depth of these borings was approximately 8.5 feet below the ground surface. The soils encountered during the boring process were typically one to two feet of black topsoil underlain by yellow and red clays which were dry and stiff in nature. Prior to the USGS borings, drilling was conducted along Military Road. During this phase of drilling, the borings were advanced to a depth of approximately 16 feet. Groundwater was not encountered in any of the borings conducted at the site. Two wells installed at the nearby Linde Division of the Union Carbide Corporation, located west of the site, indicate that approximately 86 feet of surficial deposits overlie bedrock (Reference A-7).

2.3.3 Bedrock

Bedrock underlying the site consists of the Late Silurian Age Camillus Shale of the Salina Group (Reference A-12). The Camillus Shale varies from thin-bedded shale to massive mudstone; it is gray to brownish gray with some reddish or greenish beds (Reference A-13). Studies of the Camillus Shale indicate the presence of gray limestones and dolostones interbedded with the shales. Gypsum has also been noted as a significant component of the Camillus Shale with beds as thick as five feet (Reference A-7). The Camillus Shale is estimated to be approximately 400 feet thick in Erie County with a southward dip of approximately 40 feet per mile. The two wells installed at the nearby Linde Division of the Union Carbide Corporation encountered the Camillus Shale at approximately 86 feet below the ground surface (Reference A-7).

2.4 Hydrogeology

2.4.1 Groundwater

The depth to groundwater within the overburden deposits underlying the site is unknown but believed to be approximately 15 feet, as shown by the borings conducted in 1982, along Military Road (Reference A-2). During test borings conducted in 1982 by the USGS, in the Tonawanda area, groundwater was encountered at various depths within permeable sand stringers (Reference A-2). Groundwater flow direction within the overburden at the site is unknown but is presumed to be to the west toward Two Mile Creek and the Niagara River. Hydraulic conductivities of the overburden deposits within the area of the site range from 10^{-5} to 10^{-7} centimeters per second (cm/sec), which are typical for clay-rich materials such as glacio-lacustrine deposits (Reference A-1).

The Camillus Shale bedrock of the region is a very productive aquifer due to the extensive network of joints, fractures, and enlarged solution channels within the rock. The highest yielding zones of the Camillus Shale are the zones where there was a high percentage of gypsum which has undergone dissolution by groundwater flow. Yields of wells constructed within the Camillus Shale typically have high productivity with specific capacities of up to 83 gallons per minute per foot (Reference A-7). Two wells completed in the Camillus Shale, at the adjacent Linde Division property, encountered groundwater at 115 feet and 82 feet in 1944. The variation in levels is thought to be due to pumping of the wells during measurement. The groundwater flow direction within the bedrock is uncertain but believed to be controlled by secondary features, such as fractures and solution channels. It is presumed to flow in westerly direction toward the Niagara River.

The degree to which the overburden may be hydraulically connected to the underlying bedrock is unknown. Because the surficial deposits have a high clay content and are generally low in permeability, the degree of hydraulic connection may be limited. Pathways may exist for groundwater movement into the fractured Camillus Shale if the lateral extent of the low permeability overburden materials is limited.

2.5 Proximity to Potential Receptors

2.5.1 Surface Water

Two Mile Creek is located approximately one-half mile west of the site. The Niagara River, located approximately two miles from the site, flows past the northwest, west and southwest boundaries of the site. Two Mile Creek is considered a Class B water body suitable for recreational purposes such as boating, fishing, and swimming. The Niagara River is considered a Class A Special water body (international boundary waters) and is a source of water supply for drinking, culinary and food processing purposes, recreational purposes and other usage (Reference A-4 and A-5).

State-designated, classified wetland BW-6 exists approximately 1.25 miles northwest of the site. No other listed wetland (regulated area larger than 12.4 acres) exists within a three-mile radius of the site, although smaller unregulated wetlands may exist (Document B-6). Two significant wildlife areas exist within a three-mile radius of the site. Wildlife areas SW15-506 and SW15-003 support several unprotected animal species. Last seen in 1975 on Strawberry Island, located approximately

2.5 miles southwest of the site in the Niagara River, the Carpiodes cyprinus or Quill Back, is an unprotected variety of fish. On Motor Island (northwest of Strawberry Island) the Moxostoma Valenciennesi or Greater Redhorse is an unprotected variety of fish which was also last seen in 1975 (Document B-7).

There are no critical habitats reported for Federally designated, endangered or threatened species within a one mile radius of the site (Document B-6). According to NYSDEC records, the Cypripedium candidum or Small White Ladyslipper is found within a three mile radius of the site and is endangered in New York State. Also, there is a NYSDEC significant coastal fish and wildlife habitat 1.9 miles away from the site.

2.5.2 Population

The site is located in an urbanized area with a commercial and industrial mix. Much of the area surrounding the site is occupied by residential property (Figure 1). The nearest residents are located within 500 feet east of the site across Military Road. Approximately 129,000 persons reside within a three mile radius of the site (Reference A-8).

The area surrounding the site is served by municipal water districts. The water source to these municipal systems is the Niagara River. Municipal water system intakes from the Niagara River are located within two miles of the site (Reference A-6). Industrial wells have been drilled in the site vicinity but the water contains high quantities of hydrogen sulfide and black suspended sediments derived from the shale bedrock and is not suitable for drinking (Reference A-7).

2.5.3 Agricultural Land

The site is located in an urban area. There is no land used for agricultural purposes within a three mile radius of the site.

2.5.4 Commercial Land

A variety of commercial and industrial enterprises exist within a three mile radius of the site, especially along Military Road.

3.0 TASK DISCUSSION

3.1 Previous Investigations

In July 1982, the USGS conducted a preliminary hydrogeologic and chemical evaluation of the site. Four test borings around the disposal area were advanced to depths not exceeding 8.5 feet. Groundwater was not encountered in any of the borings. A soil sample was taken from each hole and analyzed for iron, mercury, and phenol. Analytical results indicated the presence of high levels of iron ranging from 8,200 mg/kg in Boring 4 to 13,000 mg/kg in Boring 2. No phenols or mercury were detected in any of the samples collected from the borings. Groundwater was not encountered in any of the borings and as such, groundwater quality information was not obtained (Reference A-2). None of the borings, however, were completed in disposed spent foundry sands.

In August 1982, the ECDEP prepared a profile for the Aluminum Match Plate Corporation site (Document B-5). ECDEP personnel have suggested that the phenol originally detected in 1978 may have biodegraded to an undetectable level by 1982. In addition, the ECDEP has suggested that the low permeability of the soils may prevent the phenol contamination from reaching groundwater before the biodegradation process has sufficiently reduced phenol concentrations to levels below the groundwater guideline of 0.001 mg/l (Document B-5). Based on the nature of the disposed wastes, the low permeability of soils in the area of the site, and assumed biodegradation of any phenol contamination before reaching groundwater, this report recommended that no further investigative action was necessary.

In 1985, personnel from Recra Environmental, Inc. (RECRA) inspected the site under contract with NYSDEC as part of a Phase I Investigation. No vegetation was growing on the disposal area which appeared to be recently graded. No leachate or stained ground was observed. However, refractory rubble was observed spread on the surface of the fill area (Reference A-1).

During the DUNN/TAMS site reconnaissance performed for this PSA in August 1990, vegetation including grass, shrubs, and trees were observed growing in the former disposal area. Several areas of bare ground and/or stressed vegetation were observed. These areas were characterized by sandy soil with sand mold remnants. Piles of debris were observed located around the site. This debris included drums (empty or containing silver-colored filings, solidified resin or trash), concrete, shelves, wood and a gas cylinder labeled CO_2 (possibly a fire extinguisher). The site building was abandoned except for a small portion on the northwest end that is being used for a professional car detailing business.

4.0 CONCLUSIONS

The purpose of the PSA at the Aluminum Match Plate Corporation site is to determine if the disposal of hazardous waste as defined by 6 NYCRR Part 371 had occurred, and if so, to determine significant threat to public health and/or the environment as a result of the presence of hazardous waste. With this information, the site can either be classified or de-listed as defined by Article 27, Title 13 of the Environmental Conservation Law (ECL).

Based on the information gathered as part of this PSA, DUNN concludes that the spent foundry sand containing phenolic formaldehyde resin binders is not a listed hazardous waste as defined by 6 NYCRR Part 371. As such, the disposal of hazardous waste has not been documented at this site.

5.0 RECOMMENDATION

Based on the findings presented in this document, DUNN recommends that the Aluminum Match Plate site (NYS Site No. 915005) be de-listed from the Registry of Inactive Hazardous Waste Sites in New York State. This recommendation may be subject to modification in the future if new information becomes available.

Appendix A

List of References

LIST OF REFERENCES

A-1 Recra Environmental, Inc., Phase I Investigation, Aluminum Match Plate, Site No. 915005, Tonawanda, Erie County, New York, 1986.

A-2 USEPA, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste-Disposal Sites, 1985.

A-3 Federal Emergency Management Agency (FEMA), Flood Insurance Rate Map (FIRM), Town of Tonawanda, New York, Erie County (Community Panel Number 360260 0001-0009), 1982.

A-4 Bureau of National Affairs, Inc., Washington, DC, New York State Water Laws, 1979.

A-5 Lenz and Riecker, State of New York Official Compilation of Codes, Rules and Regulations, Title 6 NYCRR Conservation, published for the Department of State, 1967.

A-6 New York State Department of Health, New York State Atlas of Community Water System Sources, 1982.

A-7 LaSala, A. M., Jr., Groundwater Resources of the Erie-Niagara Basin, New York, New York State Department of Conservation, Water Resources Commission, Albany, New York, 1968.

A-8 Donnelly Marketing Information Services, A Company of the Dun & Bradstreet Corporation, Current Estimated Total Population, September, 1990.

A-9 Broughton, J. G., Fisher, D. W., Isachsen, Y. W., Rickard, L. V., Geology of New York State - A Short Account, Education Leaflet 20. The University of the State of New York/The State Education Department, NYS Museum and Science Service, Albany, New York, 1976.

A-10 U. S. Department of Agriculture, Soil Conservation Survey, in cooperation with Cornell University, Soil Survey of Erie County, 1986.

A-11 Cadwell, D. H., Surficial Geologic Map of New York, Niagara Sheet, 1988.

A-12 Geologic Map of New York, Niagara Sheet, 1970.

A-13 Buehler, E. J., and Tesmer, I. H., Geology of Erie County, Buffalo Society of Natural Science, Vol. 21, No. 3, 1963.

A-14 Agency for Toxic Substances and Disease Registry, U. S. Public Health Service, Toxicological Profile for Phenol and Toxicological Profile for Pentachlorophenol, April, 1989.

Appendix B

List of Documents Cited

DOCUMENTS CITED

B-1 Aluminum Match Plate Corporation, 1978, Operation Plan and Plant Process.

B-2 Letter from Richard P. Leonard, Calspan Corporation, to Matthew Van Voris, Aluminum Match Plate, October 9, 1978.

B-3 Memorandum to File, Erie County Department of Environment and Planning, from Ronald Koczaja, January 9, 1979.

B-4 Letter from Elmer A. Wetson, Aluminum Match Plate Corporation to Ronald D. Koczaja, Erie County Department of Environment and Planning, May 2, 1980.

B-5 Hazardous Waste Site Profile: Aluminum Match Plate #915005, Town of Tonawanda; Erie County Department of Environment and Planning, August 1982.

B-6 Letter and Map from Gordon Batcheller, Senior Wildlife Biologist, NYSDEC Region 9, to Sheldon S. Norzik, Recra Research, Inc., 12/19/85.

B-7 Dunn Engineering Co., Interview Forms.

Appendix C

Color Photographs

ALUMINUM MATCH PLATE SITE

PHOTO LOG

PHOTO LOG DESCRIPTION

ALUMINUM MATCH PLATE

1) The Aluminum Match Plate building.
Direction: Southeast

2) The northern side of the building.
Direction: East

3) Catch basin at the southern side of the building.
Direction: Northeast

4) Standing water in a drainage ditch at the southern side of the building.
Direction: North

5) Equipment and construction debris at the southern side of the building.
Direction: North

6) The southern side of the building.
Direction: Northeast

7) The southeastern side of the building.
Direction: West

8) Loading dock located in the front of the building.
Direction: West

9) Northern side of the building.
Direction: West

10) Northern side of the building showing empty drums.
Direction: South

11) Northwestern side of the building.
Direction: South

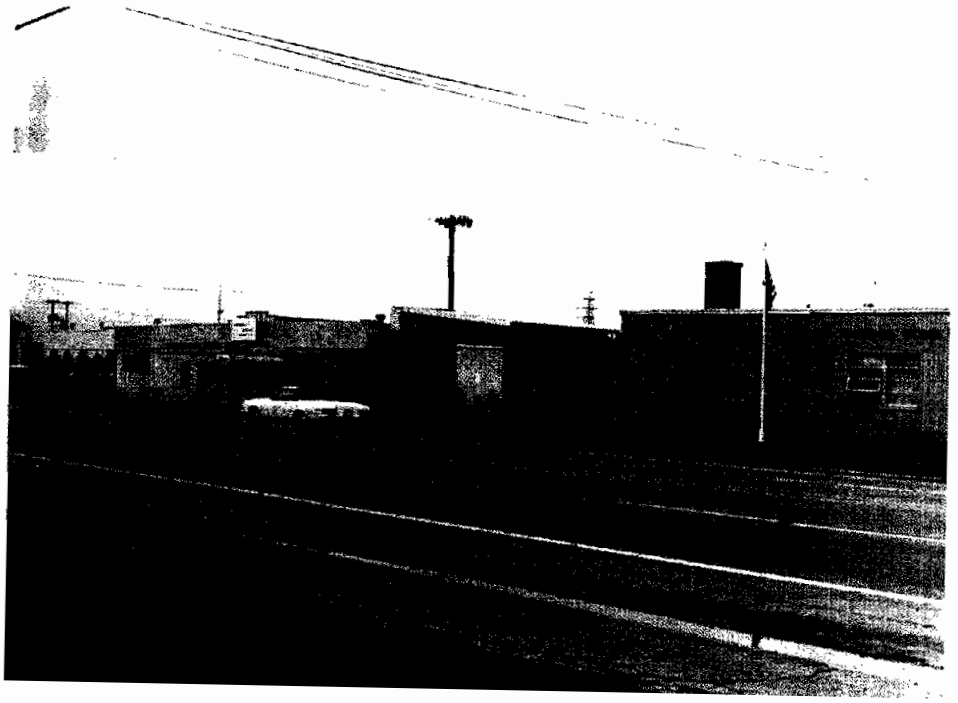
12) Northwestern side of the building. This section of the building is currently being rented to a company called Professional Car Detailing.
Direction: West

13) Soapy water would enter the loading dock area. The drainage catch basin was not located.
Direction: West

14) Construction debris pile located in the northwestern section of the site.
Direction: West

15) Construction debris pile located in the northwestern section of the site.

16) Disposal materials in the southeastern section of the site.



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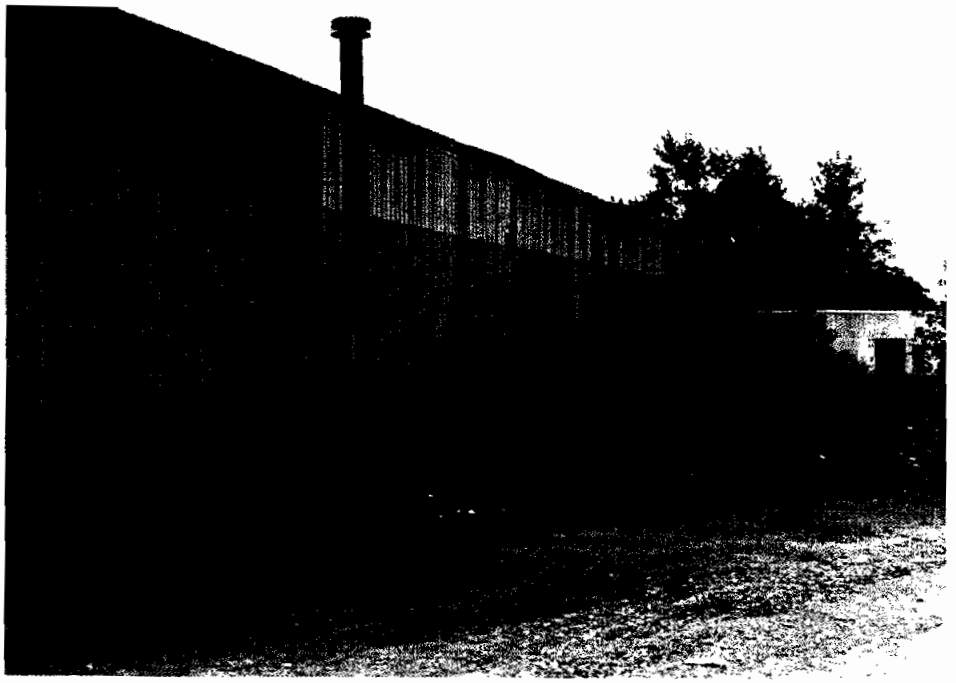

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Photo No. 3

Photo No. 4

Photo No. 5

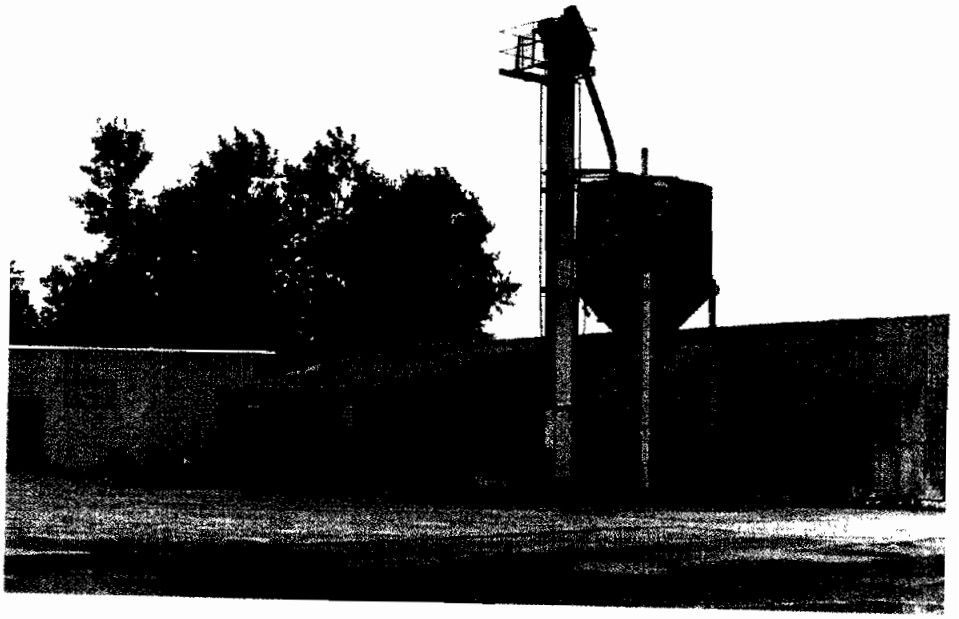

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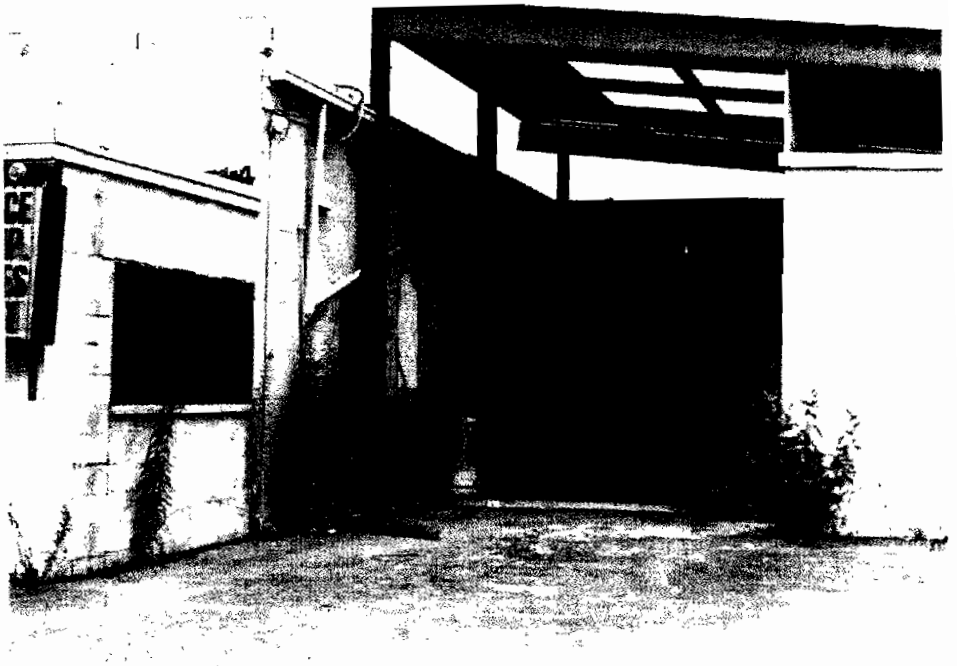
Photo No. 7



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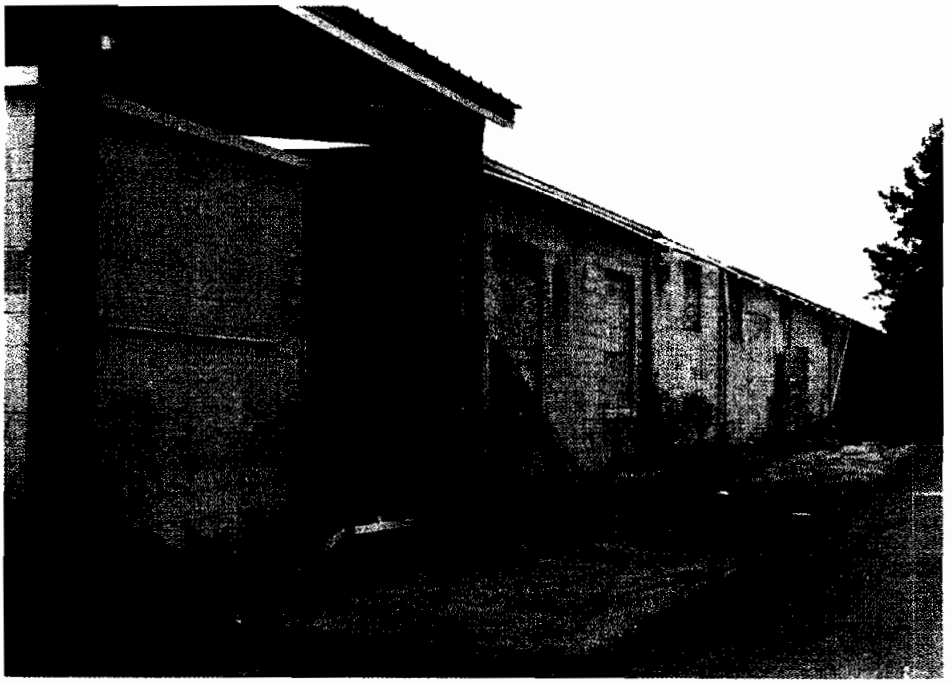

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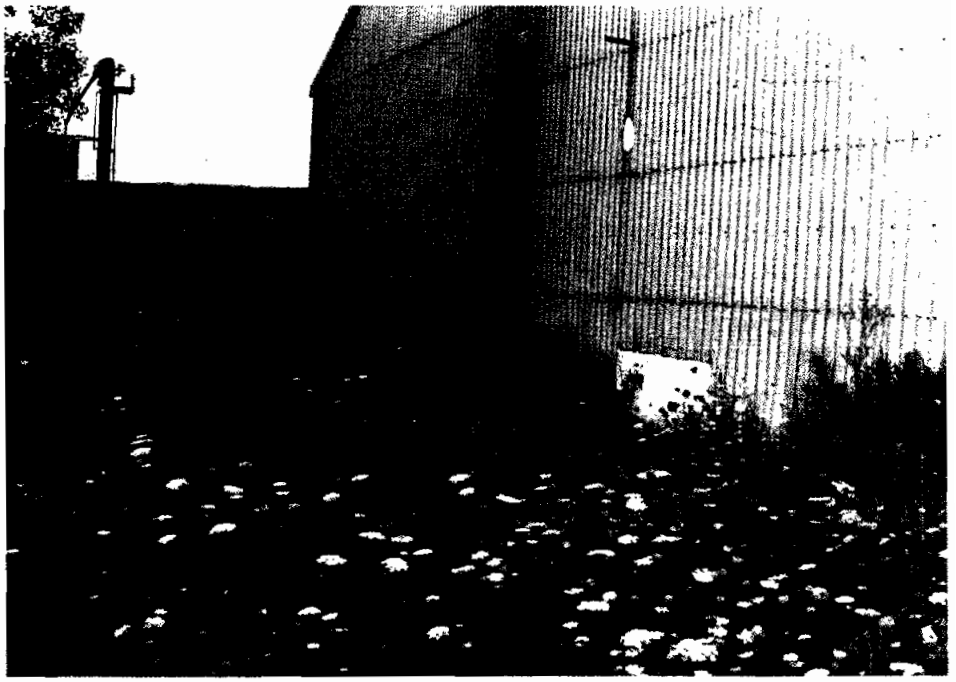
Photo No. 10



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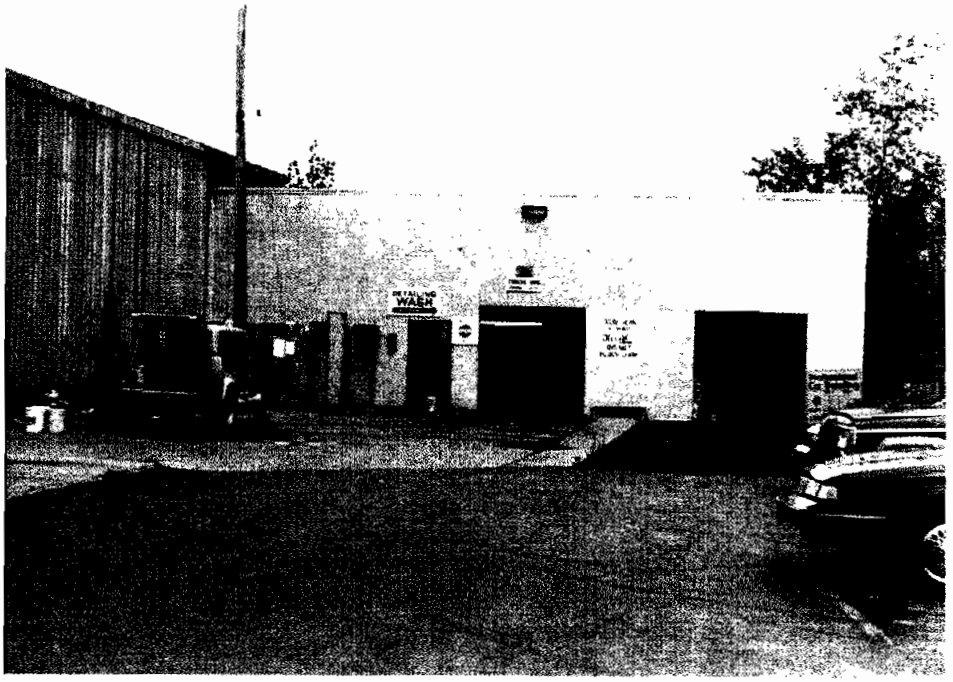

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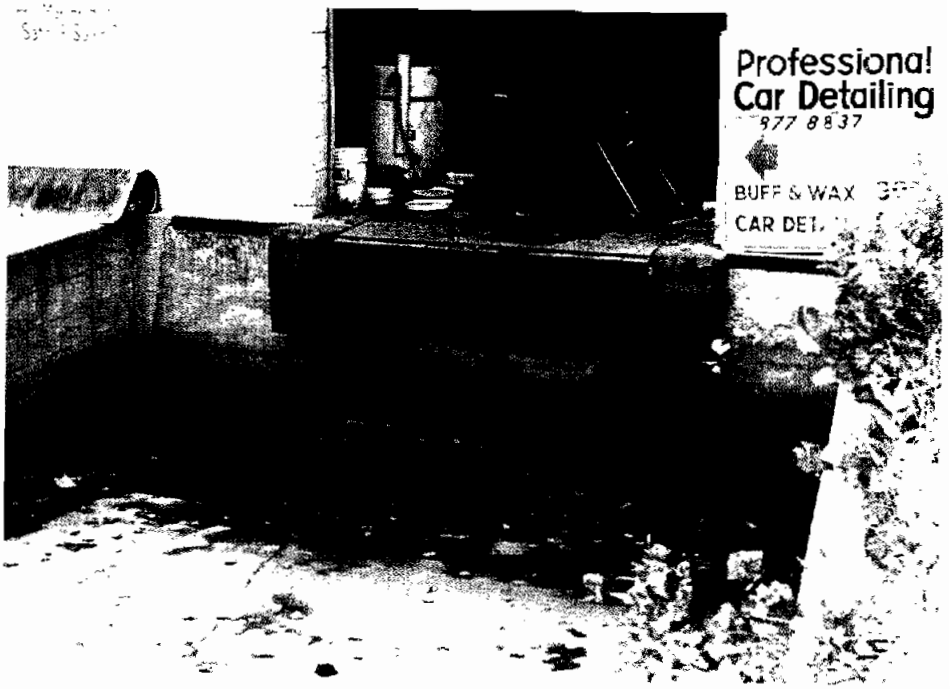

Photo No. 13

Photo No. 14

Photo No. 15

Photo No. 16

Appendix D

US EPA Form 2070-13

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. SITE NAME AND LOCATION

01 SITE NAME (Legal,common,or descriptive name of site)	02 STREET,ROUTE NO.,OR SPECIFIC LOCATION IDENTIFIER				
Aluminum Match Plate Corporation	1500 Military Road				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY	08 CONG
Tonawanda	NY	14150	Erie	CODE 029	DIST 029

09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)				
LATITUDE	LONGITUDE	X_ A. PRIVATE	__B. FEDERAL__	__C. STATE	__ D. COUNTY	__E. MUNICIPAL
42 58'45.0"N	078 53'15.0"W	__ F. OTHER_____			__ G. UNKNOWN	

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION		
08 / 21 / 90	__ACTIVE	____1940_____	___1980____	___UNKNOWN
MONTH DAY YEAR	X_INACTIVE	BEGINNING YEAR	ENDING YEAR	

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 Dunn Geoscience/TAMS Conaultants
__G. OTHER_____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO.
George Moretti	Environmental Scientist	Dunn Geoscience Engineering Co.	(716)691-3866
09 OTHER INSPECTORS	10 TITLE	11 ORGANIZATION	12 TELEPHONE NO.
Martin Derby	Hydrogeologist	TAMS Consultants, Inc.	(716)831-8084
			( )
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO.
			( )
Don Leaman		(Frontier Foundries) Titusville, Pa plant	(814)827-1800
Lerry Gephart	President	(Frontier Foundries) Titusville, Pa plant	(814)827-1800
Cam Austin		Same as above	( )
Jerry Norarin		Same as above	( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
X_ PERMISSION	1000	Cloudy, 70 degrees Farenheit
__ WARRANT		

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO.
Mark Mateunas	NYSDEC	(518)457-0639

04 PERSON RESPONSIBLE FOR SITE INSPECTION FOR	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Ted Yen		TAMS Consultants	(201)338-6680	09 / 07 / 90 MO. DAY YR.

EPA FORM 2070-13 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 2 – WASTE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. WASTE STATE, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

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

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

TONS _____Unknown_____
CUBIC YARDS _____
NO. OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply)

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

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS	Unknown	Unknown	See below
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	Unknown		

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

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONC.
OCC	Phenols	Not Applicable	Landfilled	0.16	ppm
MES	Iron	Not Applicable	Landfilled	8,200-13,000	ppm

V. FEEDSTOCKS (See Appendix for CAS Numbers)

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS	Not Applicable		FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

NYSDEC Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report.

Erie County Department of Environment and Planning (ECDEP) memorandum: from Tom Hersey to Anthony Voell concerning the results of iron, mercury, and phenol analysis – 4/3/86.

Dunn Geoscience Engineering Co./TAMS Consultants, Inc. site reconnaissance, 06/21/90.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 – DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS	I. IDENTIFICATION 01 STATE: NY 02 SITE NUMBER: D002108918

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 X_ A. GROUNDWATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:__0__ — 04 NARRATIVE DESCRIPTION
A low potential for groundwater contamination exists. The elutriate was found to contain 0.16 ppm phenols which is above the 0.001 mg/l groundwater quality standard. However, the Erie County Department of Environment and Planning has determined that the phenols should not affect the local groundwater due to the low soil permeability and biodegration of phenols.

01 X_ B. SURFACE WATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:_78557__ — 04 NARRATIVE DESCRIPTION
A low potential exists for surface water contamination as the former disposal area has not been covered, only graded. Runoff from the disposal area is likely.

01 __ C. CONTAMINATION OF AIR — 02 __ OBSERVED (DATE: _____) — __ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:_____ — 04 NARRATIVE DESCRIPTION
No potential for air contamination exists. Current site use makes air contamination unlikely.

01 __ D. FIRE/EXPLOSIVE CONDITIONS — 02 __ OBSERVED (DATE: _____) — __ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:_____ — 04 NARRATIVE DESCRIPTION
No potential for fire/explosive conditions were observed during the site reconnaissance.

01 X_ E. DIRECT CONTACT — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:14991_ — 04 NARRATIVE DESCRIPTION
A low potential for direct contact exists. Although no sand has been disposed of at the site since 1980, the landfill is not covered, only graded.

01 X_ F. CONTAMINATION OF SOIL — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 AREA POTENTIALLY AFFECTED:__<1_____(acres) — 04 NARRATIVE DESCRIPTION
A potential for soil contamination exists due to surface runoff from the disposal area.

01 X_ G. DRINKING WATER CONTAMINATION — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:_78557___ — 04 NARRATIVE DESCRIPTION
Drinking water intakes are located within 3 miles downstream of the site. The intakes serve three cities: Lockport–25,000 persons; North Tonawanda–34,879 persons; and Tonawanda–18,678 persons.

01 X_ H. WORKER EXPOSURE/INJURY — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 WORKERS POTENTIALLY AFFECTED:__Approx. 5 — 04 NARRATIVE DESCRIPTION
A low potential exists. A portion of the building is used as a carwash. The remaining portion is abandoned.

01 X_ I. POPULATION EXPOSURE/INJURY — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:_78557___ — 04 NARRATIVE DESCRIPTION
The potential exists for workers at the carwash. A low potential exists for direct contact with surface runoff from the disposal area.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 X_ J. DAMAGE TO FLORA — 02 X_ OBSERVED (DATE: 08/21/90) — __ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

Dunn/TAMS observed bare patches in the midst of heavily vegetated areas during the site reconnaissance.

01 __ K. DAMAGE TO FAUNA — 02 __ OBSERVED — __ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION (Include name(s) of species)

No injuries to fauna were observed. The is no potential as the site is in an industrialized area.

01 X_ L. CONTAMINATION OF FOOD CHAIN — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

There is a low potential as the site is in an industrialized area. There is a potential if runoff enters surface waters.

01 X_ M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums) — 02 X_ OBSERVED (DATE: 08/21/90) — __ POTENTIAL — __ ALLEGED

03 POPULATION POTENTIALLY AFFECTED:_14991____ — 04 NARRATIVE DESCRIPTION

Materials were observed strewn on the ground surface of the disposal area.

01 X_ N. DAMAGE TO OFFSITE PROPERTY — 02 __ OBSERVED (DATE: _____) — X_ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

Surface runoff may go offsite at the western edge of the site, at the railroad tracks.

01 __ O. CONTAMINATION OF SEWERS, STORM DRAINS, OR WWTPs — 02 __ OBSERVED (DATE: _____) — __ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

There is no potential as there are no sewers, storm drains, or WWTPs in the immediate vicinity.

01 X_ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 X_ OBSERVED (DATE: 08/21/90) — __ POTENTIAL — __ ALLEGED

04 NARRATIVE DESCRIPTION

Piles of debris were noted near the railroad tracks during the Dunn/TAMS site reconnaissance.

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

None known.

III. TOTAL POPULATION POTENTIALLY AFFECTED:___78557_____

IV. COMMENTS

V. SOURCES OF INFORMATION

Site reconnaissance by Dunn Geoscience Engineering Co./TAMS Consultants, Inc. on 8/21/90.

Telephone conversation between R. Rafferty, Dunn Geoscience and Mr. Frank Ferro of NYSDOH, Division of Environmental Protection, Bureau of Public Water Supply Protection, 5/31/91.

Donnelly Marketing Information Services, 1990.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION

PART 4–PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
__A. NPDES				
__B. UIC				
__C. AIR				
__D. RCRA				
__E. RCRA INTERIM STATUS				
__F. SPCC PLAN				
X_G. STATE(Specify)	15S37	9/7/79	9/7/82	NYSDEC Part 360 Landfill
__H. LOCAL(Specify)				Permit
__I. OTHER(Specify)				
__J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
__ A. SURFACE IMPOUNDMENT			__A. INCINERATION	0_ A. BUILDINGS ON SITE
__ B. PILES			__B. UNDERGROUND INJECTION	None
__ C. DRUMS,ABOVE GROUND			__C. CHEMICAL/PHYSICAL	
__ D. TANK,ABOVE GROUND			__D. BIOLOGICAL	06 AREA OF SITE
__ E. TANK,BELOW GROUND			__E. WASTE OIL PROCESSING	
X_ F. LANDFILL	Unknown		__F. SOLVENT RECOVERY	_____<1_____(Acres)
__ G. LANDFARM			__G. OTHER RECYCLING/RECOVERY	
__ H. OPEN DUMP			__H. OTHER_____	
__ OTHER_____ (Specify)			(Specify)	

07 COMMENTS

A car detailing operation is located in the northern portion of the site.
The remaining portion of the building is boarded up and is not being used.

IV. CONTAINMENT

01CONTAINMENT OF WASTES(Check one)

__A. ADEQUATE,SECURE __B. MODERATE X C. INADEQUATE,POOR __D. INSECURE,UNSOUND,DANGEROUS

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

The landfill has been graded but not covered.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: X_ YES __ NO

02 COMMENTS

Disposal of undifferentiated wastes has occurred on the edge of the property, near the railroad tracks.

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

Site reconnaissance conducted by Dunn Geoscience Engineering Co./TAMS Consultants, Inc. – 8/21/90
NYSDEC files

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 5–WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)			02 STATUS			03 DISTANCE TO SITE
	SURFACE	WELL	ENDANGERED	AFFECTED	MONITORED	
COMMUNITY	A._X___	B.____	A.____	B.____	C.____	A._2.0_(mi)
NON-COMMUNITY	C.____	D.____	D.____	E.____	F.____	B.____(mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

___A. ONLY SOURCE FOR DRINKING

___B. DRINKING (Other sources available) COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available)

___C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available)

_X_D. NOT USED, UNUSEABLE

02 POPULATON SERVED BY GROUNDWATER ___0____

03 DISTANCE TO NEAREST DRINKING WATER WELL ___>5___ (mi)

04DEPTH TO GROUNDWATER	05 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
___ 15 ___(ft)	____West_____	__Unknown__(ft)	_Unknown_(gpd)	__YES X NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Two wells are located within one mile west of the site at Union Carbide. The wells were completed at a depth of approximately 375 feet

10 RECHARGE AREA		11 DISCHARGE AREA	
___ YES	COMMENTS	___ YES	COMMENTS
___ NO	Unknown	___ NO	Unknown

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: (Y/N)	DISTANCE TO SITE
Niagara River	__N_____	____2____(mi)
Two Mile Creek	__N_____	____0.5____(mi)
	_____	_____(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A._14991_	B._59560_____	C. _128481__	___0.05____(mi)
NO. OF PERSONS	NO. OF PERSONS	NO. OF PERSONS	

03 NUMBER OF BUILDING WITHIN TWO(2)MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
_____>5000_____	_____0.05_____(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)

The site is surrounded by an industrial/commercial area. There is a densely populated residential area east of the site.

EPA

POTENTIAL HAZARDOUS WASTE SITE

SITE INSPECTION REPORT

PART 5–WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE: NY

02 SITE NUMBER: D002108918

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

___A. 10–6 to 10–8 cm/sec _X_B. 10–4 to 10–6 cm/sec ___C. 10–4 to 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 to 10–6 cm/sec) ___C. RELATIVELY PERMEABLE (10–2 to 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	
86 (ft)	Unknown (ft)	Unknown	

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
5.0 (in)	2.1 (in)	0–3 %	West	0–3 %

09 FLOOD POTENTIAL

SITE IS IN___ > 500 ___YEAR FLOODPLAIN

10

N/A_ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (5 acre minimum)

ESTUARINE: A. <3 (mi)

OTHER: B. 1.5 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

1.75 (mi)

ENDANGERED SPECIES: See Site Description section

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL	RESIDENTIAL AREAS; NATIONAL/STATE PARKS, FOREST, OR WILDLIFE RESERVES	AGRICULTURAL LANDS PRIME AG LAND	AG LAND
A. 0.05 (mi)	B. 0.05 (mi)	C. >3 (mi)	D. >3 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Endangered Species:

1. Cypripedium candidum – Small White Ladyslipper – This is endangered for New York State but not listed in the Federal list.

This species has been reported 1.75 miles from the site.

A NYSDEC significant Coastal Fish and Wildlife habitat is 1.9 miles from the site.

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

NYSDEC Phase I report prepared by RECRA Environmental, Inc. – February, 1986

Interview with Dave Denk of NYSDEC Regulations, 7/18/90.

Interview with Mark Kandel of NYSDEC Fish and Wildlife, 7/20/90.

Heritage maps, 1986 wetlands maps, and Coastal Fish and Wildlife maps supplied by the NYSDEC Division of Regulations.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6-SAMPLE AND FIELD INFORMATION	I.IDENTIFICATION 01 STATE NY	02 SITE NUMBER D002108918

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	None		
SURFACE WATER	None		
WASTE	None		
AIR	None		
RUNOFF	None		
SPILL	None		
SOIL	None		
VEGETATION	None		
OTHER	None		

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
Air Monitoring	HNu-PID readings not above background.
Radiation Monitoring	Monitor 4 mini-rad readings not above background.

IV. PHOTOGRAPHS AND MAPS

01 TYPE _X_GROUND _X_AERIAL	02 IN CUSTODY OF - Dunn Geoscience Engineering Co./ SUNY Buffalo at Amherst Undergraduate Library (Name of organization or individual)
03 MAPS X YES __NO	04 LOCATION OF MAPS Dunn Geoscience Engineering Co./TAMS Consultants, Inc.

V. OTHER FIELD DATA COLLECTED (provide narrative description)

Field notes in custody of Dunn Geoscience Engineering Co.

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

1966 aerial photographs from SUNY Buffalo
US Geological Survey Topographic map, 7.5 minute series - Buffalo NW, NY - 1986.
Site reconnaissance conducted by Dunn Geoscience Engineering Co./TAMS Consultants, Inc. on 8/21/90

EPA

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

I.IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. CURRENT OWNER(S)			PARENT COMPANY(If applicable)		
01 NAME Aluminum Match Plate Corporation		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.) 1500 Military Road		04 SIC CODE 2819	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY Tonawanda	06 STATE NY	07 ZIP CODE 14150	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S)(List most recent first)			IV. REALTY OWNER(S)(if applicable;list most recent first)		
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
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)

NYSDEC Region 9, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8-OPERATOR INFORMATION	I.IDENTIFICATION 01 STATE: NY 02 SITE NUMBER: D002108918

II. CURRENT OPERATOR(Provide if different from owner)

01 NAME	02 D+B NUMBER
Same as owner	

03 STREET ADDRESS(P.O.Box,RFD#,etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER
40 years	

OPERATOR'S 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 OPERATOR(S)(List most recent first; provide only if different from owner)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)	04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
08 YEARS OF OPERATION / 09 NAME OF OWNER			
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)	04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
08 YEARS OF OPERATION / 09 NAME OF OWNER			
01 NAME	02 D+B NUMBER	08 NAME	09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)	04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)	11 SIC CODE
05 CITY / 06 STATE	07 ZIP CODE	12 CITY / 13 STATE	14 ZIP CODE
08 YEARS OF OPERATION / 09 NAME OF OWNER			

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

NYSDEC Region 9, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report

EPA

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

I.IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D002108918

II. ON-SITE GENERATOR

01 NAME		02 D+B NUMBER
Aluminum Match Plate Corporation		
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE
1500 Military Road		2819
05 CITY	06 STATE	07 ZIP CODE
Tonawanda	NY	14150

III. OFF-SITE GENERATOR(S)

01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE

IV. TRANSPORTER(S)

01 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER
03 STREET ADDRESS(P.O.Box,RFD#,etc.)		04 SIC CODE	10 STREET ADDRESS(P.O.Box, RFD#,etc.)		11 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 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)

NYSDEC Region 9, Division of Hazardous Waste Remediation, Inactive Hazardous Waste Disposal Report

II. PAST RESPONSE ACTIVITIES

01 __ A. WATER SUPPLY CLOSED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ B. TEMPORARY WATER SUPPLY PROVIDED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ C. PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ D. SPILLED MATERIAL REMOVED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ E. CONTAMINATED SOIL REMOVED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ F. WASTE REPACKAGED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ H. ON SITE BURIAL 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ L. ENCAPSULATION 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ N. CUTOFF WALLS 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ O. EMERGENCY DIKING/SURFACE WATER DIVERSION 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 – PAST RESPONSE ACTIVITIES	I. IDENTIFICATION 01 STATE NY	 02 SITE NUMBER D002108918

II. PAST RESPONSE ACTIVITIES(Continued)

01 __ R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ S. CAPPING/COVERING 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ T. BULK TANKAGE REPAIRED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ V. BOTTOM SEALED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ W. GAS CONTROL 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ X. FIRE CONTROL 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ Y. LEACHATE TREATMENT 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ Z. AREA EVACUATED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ 2. POPULATION RELOCATED 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____
01 __ 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION No previous history	02 DATE: _____	03 AGENCY_____

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

NYSDEC Phase I report on the Aluminum Matchplate site prepared by RECRA Environmental, Inc. – February, 1986.

EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11-ENFORCEMENT INFORMATION	I. IDENTIFICATION 01 STATE NY	 02 SITE NUMBER D002108918

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ___YES _X_NO

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

No previous history.

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

NYSDEC Phase I report on the Aluminum Match Plate site prepared by RECRA Environmental, Inc. - February, 1986

Appendix E

New York State Department of Environmental Conservation
Division of Hazardous Waste Remediation

Inactive Waste Disposal Report

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS WASTE REMEDIATION
INACTIVE HAZARDOUS WASTE DISPOSAL REPORT

CLASSIFICATION CODE: D **REGION:** 9 **SITE CODE:** 915005

NAME OF SITE: Aluminum Match Plate Corporation

STREET ADDRESS: 1500 Military Road

TOWN/CITY: Tonawanda **COUNTY:** Erie **ZIP:** 14217

SITE TYPE:

Open Dump	Structure	Lagoon	Landfill	Treatment Pond
X				

ESTIMATED SIZE: 1 Acre

SITE OWNER/OPERATOR INFORMATION:

Current Owner Name: Charles and Dorothy Bonda

Current Owner Address: 144 Fairlawn, Amherst, NY

Owner(s) During Use: Aluminum Match Plate Corp.

Operator During Use: Aluminum Match Plate Corporation

Operator Address: 1500 Military Road, Kenmore, NY

Period Associated with Hazardous Waste: From 1940s to 1980

SITE DESCRIPTION:

Spent casting molds were used as fill in low areas adjacent too the plant. A Part 360 permit was issued on September 7, 1979 for the filling operation. The permit expired on September 9, 1982, however, landfilling was discontinued in 1980. A leachate potential test conducted in 1978 on the molding sands detected 0.16 ppm phenol in he elutriate. Four test borings were drilled by the USGS in 19982 under the Niagara River Toxics Investigation. Samples were analyzed for phenols, iron, and mercury. Only iron was detected. A Phase I Investigation of this site was completed in 1986.

A Preliminary Site Assessment (PSA) was completed in 1993. There is no documentation of hazardous waste disposal on site.

HAZARDOUS WASTE DISPOSED:

TYPE	QUANTITY USED
None Documented	None

ANALYTICAL DATA AVAILABLE:

Surface Water:		**Groundwater:**	
Soil:	X	**Sediment:**	
None:			

CONTRAVENTION OF STANDARDS:

Groundwater:		**Drinking Water:**	
Surface Water:		**Air:**	

LEGAL ACTION:

TYPE			STATUS	
None	State	Federal	Negotiation in Process	Order Signed
X				

REMEDIAL ACTION:

None	Proposed	Under Design	In Progress	Completed
X				

NATURE OF ACTION: None

GEOTECHNICAL INFORMATION:

Soil Type: Dense silty clay, reddish

Groundwater Depth: Greater than 8.5 feet

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

No phenol or mercury was detected in USGS samples. No further environmental problems have been associated with this site.

ASSESSMENT OF HEALTH PROBLEMS:

The area used for disposal is adjacent to railroad tracks and is approximately 1500 feet from the nearest residence. A soil sample taken in 1982 found 11,000 ppm iron and no phenols. The extract from a 1978 foundry soil sample contained 0.16 ppm phenol. All residents use public water which is obtained from the Niagara River. The PSA concluded that spent foundry sand containing phenolic formaldehyde resin binders is not a listed hazardous waste as defined by 6 NYCRR Part 371. As such, the disposal of hazardous waste has not been documented at this site.