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915048

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**ENGINEERING INVESTIGATIONS AT
INACTIVE HAZARDOUS WASTE SITES IN THE
STATE OF NEW YORK
PHASE I INVESTIGATIONS**

**SHANCO PLASTICS
TONAWANDA, ERIE COUNTY, NEW YORK
Site Code: 915048**

APRIL 1986



Prepared for:

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

50 WOLF ROAD, ALBANY, NEW YORK 12233

HENRY G. WILLIAMS, COMMISSIONER

Division of Solid and Hazardous Waste
NORMAN H. NOSENCHUCK, P.E. DIRECTOR



WEHRAN ENGINEERING, P.C.
Middletown & Grand Island, New York

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SITE CODE: 915048**

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD
ALBANY, NEW YORK 12233-0001**

Prepared by

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SHANCO PLASTICS
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APPENDIX

1.0 EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

The Shanco Plastics and Chemical Company was formerly a manufacturing facility that produced modified resin esters used in floor polishes, adhesives and printing inks. Manufacturing operations ceased in October 1977 and the property was sold to Lawrence La Paglia in 1980, who now operates a truck repair facility at the site. NYSDEC files (memorandum dated January 24, 1983) indicate that 106 drums containing potential waste materials were allegedly buried on the Shanco property in 1977, prior to Shanco's closing. Additionally, prior to the construction of the present warehouse, an unknown quantity of drummed material was allegedly buried in a pit dug on the site on which the warehouse presently stands. NYSDEC files (memorandum dated April 23, 1983) indicate that in 1979-1980, 40 drums were removed (under ECDEP supervision) and sent to CECOS for disposal. Buried wastes may include phenolic resins, sulfuric acid and caustic wastes.

The site is approximately one acre in size and is located on Kenmore Avenue in the Town of Tonawanda (see Figure 1). The site is a compound, enclosed on three sides by chain link fencing, with the side along the railroad tracks only partially fenced (see Figure 2). At the time of the Wehran site visit, the interior of the compound contained in excess of twenty disabled or partially dismantled junked vehicles and a number of 55-gallon drums containing greases and other unknown substances. It is not known if these are the same drums referred to in the NYSDEC files. The site is level, and contains a small pond along the back side of the main building (see Figure 2). The building occupies the entire eastern section of the compound, and access to the site is through the building itself or through the main gate adjacent to the building. Access can also be gained along the unfenced section of the compound adjacent to the railroad tracks. All other existing gates are secured to prohibit entry.

The Shanco site was visited on March 28, 1985 by two inspectors from Wehran Engineering. The purpose of their visit was to conduct a physical inspection of the site in support of this investigation. Prior to the inspection, all available state files (NYSDEC) were reviewed and individuals having

knowledge of the site were contacted. The inspection consisted of a walk around the site, along the perimeter and into areas adjacent to the site. Concurrent with this inspection, air quality monitoring using an HNU photoionizing organic vapor detector was accomplished.

Items of specific interest were:

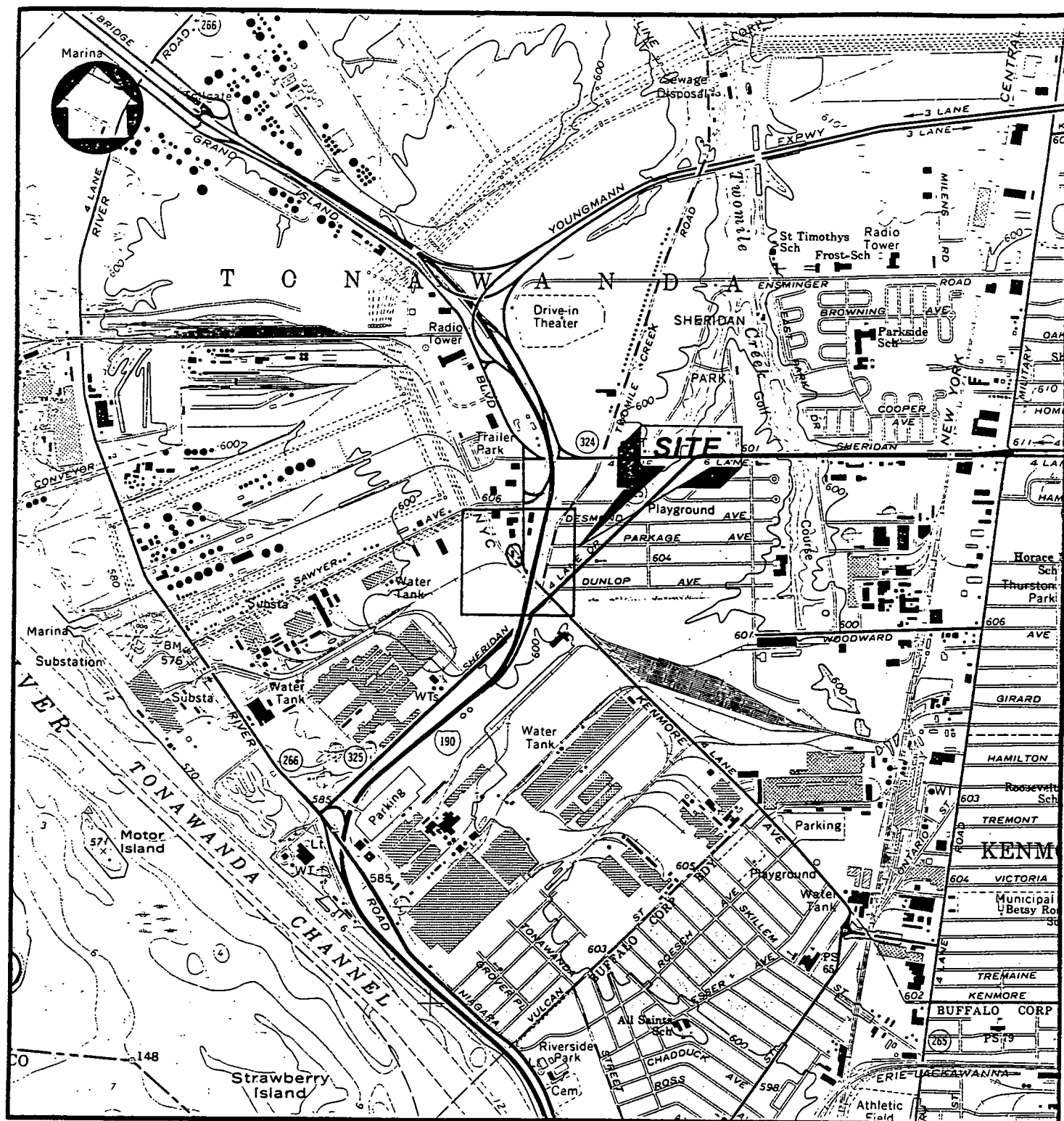
- . The overall condition of the site
- . The presence of disturbed areas
- . Protruding refuse
- . Discarded drums
- . Evidence of chemical spillage.

Prior to the inspection, the inspectors met with Mr. John Giardino, attorney for the property owner. In general, the site was poorly maintained. The presence of such a large number of abandoned vehicles hindered inspection of the site grounds. Areas where drums were reported to have been disposed of were inaccessible. In addition to the junked vehicles, large amounts of discarded material (building materials, scrap metal, vehicle parts) were strewn haphazardly about the site. This site had been previously cited for having numerous drums stored at various locations. The only drums observed were those in several of the junked vehicles. The drums, five to six in number, were assumed by the inspectors to be associated with the activities of the current owner.

The HRS score is a preliminary score based on:

- . Site inspection notes
- . NYSDEC files
- . Pertinent USGS 7-1/2 minute topographic maps (Niagara Falls, Buffalo NW, New York quadrangle)

There is no specific hydrogeologic information available for the site. The documentation records that accompany the HRS score sheets reflect the scarcity of information. Consequently, any assumptions made are explained therein. The preliminary HRS score is: $S_M = 3.96$.



SCALE: 1" = 2000'

TOPOGRAPHY TAKEN FROM
1963

BUFFALO NW, N.Y. - ONT

U.S.G.S. QUADRANGLE

7.5 MIN SERIES



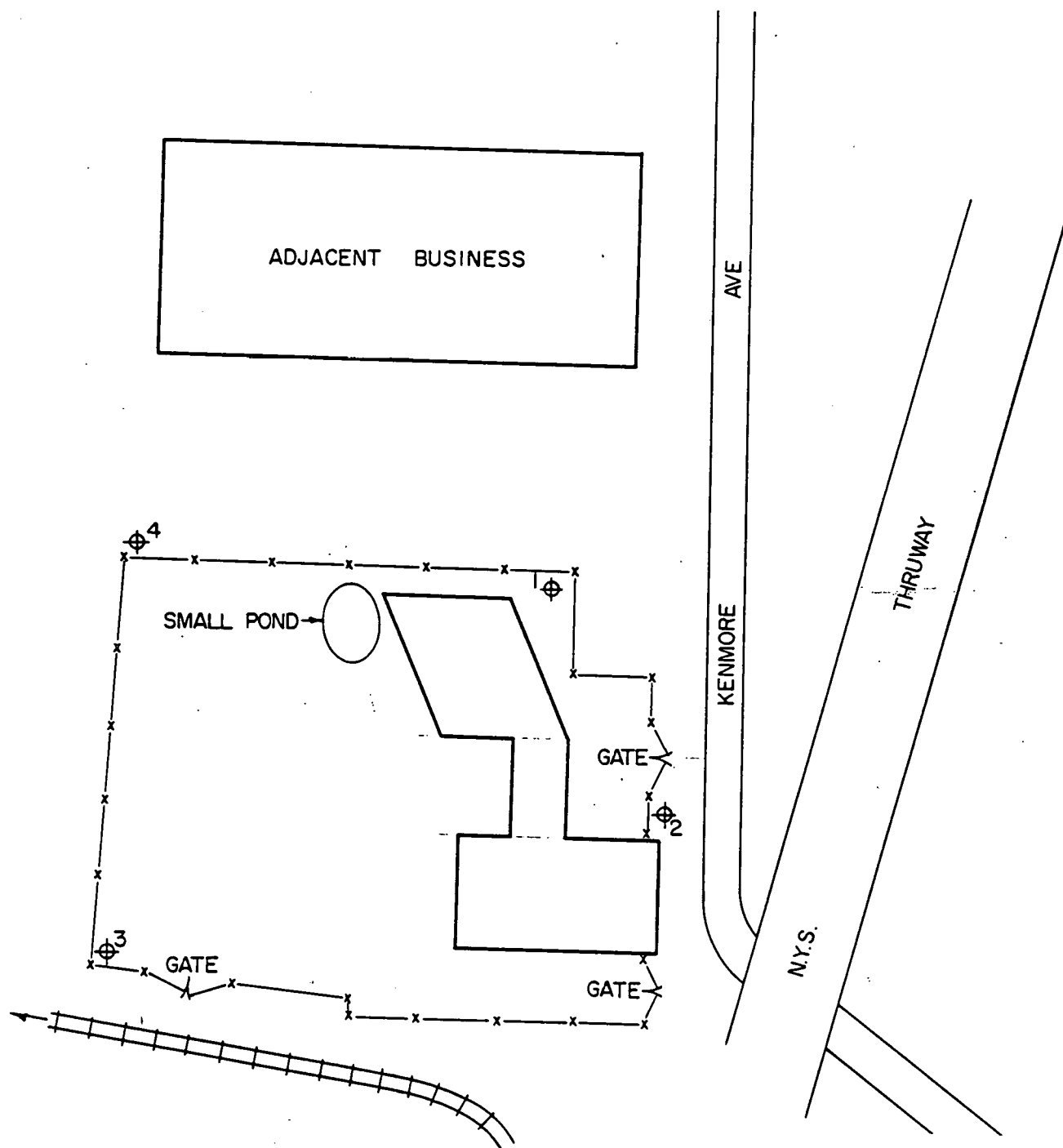
MAP LOCATION

FIGURE 1

SITE LOCATION MAP

SHANCO PLASTIC

LAT. 42° 58' 30" N LONG. 78° 54' 45" W



⊕₁ USGS TEST BORING

FIGURE 2
SITE SKETCH
SHANCO PLASTICS
N.T.S.

2.0 PURPOSE

2.0 PURPOSE

This Phase I investigation was conducted under contract to the New York State Department of Environmental Conservation Superfund Program to evaluate the potential environmental or public health hazard associated with past disposal activities at the Shanco Plastics and Chemical Company. Divided into two parts, this initial investigation consisted of a detailed file review of available information and an initial site investigation. The culmination of this phase is the development of a preliminary Hazard Ranking System (HRS) score.

Where information is lacking and a final score cannot be computed, recommendations will be made for a Phase II investigation designed to verify the assumptions made in the preliminary scoring and to collect the additional data needed to complete the site assessment.

3.0 SCOPE OF WORK

3.0 SCOPE OF WORK

To complete the preliminary HRS score for the Shanco site, the following scope of work was completed:

- . A review of the following:
 - Available information from federal, state, and municipal agencies
 - Published documents from the U.S. Geological Survey, Soil Conservation Service and state agencies for geological, hydrological and topographical data
 - Available files, reports and court cases
- . Interviews with individuals having knowledge of the site

Information gathered included well logs, land use data, water usage patterns, critical habitats and endangered species data, meteorological data, hydrological, geological and topographical data, waste characteristics and demographic information.

Following an initial file review, a site inspection was conducted. The intent of the inspection was to verify existing file information and to conduct an organic vapor detector survey to screen for potential air releases. Items of specific interest in the site investigation were:

- . Overall site environmental conditions
- . The presence of disturbed areas
- . Visual signs of waste materials (drums, sludges, etc.)
- . The occurrence of leachate
- . Site topography

A detailed analysis was performed on all data collected in preparation of a preliminary HRS score. Where information was lacking and a final HRS

score could not be computed, recommendations were made for a Phase II investigation. This investigation was designed to verify the assumptions made in the preliminary scoring and to collect the additional data needed to complete the site assessment. A summary of agencies contacted, contact person, address and information obtained follows.

SOURCES -- SHANCO PLASTICS AND CHEMICALS
(Page 1)

<u>Name/Address/Phone</u>	<u>Type of Contact</u>	<u>Date</u>	<u>Information Provided</u>
Mr. Robert Abrams, Attorney General New York State Attorney General Department of Law State Capitol, Room 221 Albany, New York 12224 (581) 474-7330	Letter	8-24-84	None available
Dr. David Axelrod, Commissioner New York State Department of Health Tower Building, Empire State Plaza Albany, New York 12237 (518) 474-8427	Letter	8-24-84	None available
Mr. Philip Barnes Acting Regional Director NYSDOT, Region 2 207 Genesee Street Utica, New York 13501 (315) 793-2447	Letter	8-24-84	None available
Mr. Larry Claire New York State Department of Environmental Conservation Region 9 600 Delaware Avenue Buffalo, New York 14202 (716) 847-4585	Interview	2-28-85	Regional files concerning site
Mr. John Czapor, Environmental Engineer USEPA, Region II 26 Federal Plaza New York, New York 10278 (212) 264-1573	Letter	8-24-84	None available
Mr. Paul Dodd, State Conservationist U.S. Department of Agriculture Soil Conservation Service James M. Hanley Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5521	Letter	8-24-84	Name and address of local representative

SOURCES -- SHANCO PLASTICS AND CHEMICALS

(Page 2)

<u>Name/Address/Phone</u>	<u>Type of Contact</u>	<u>Date</u>	<u>Information Provided</u>
Dr. Robert H. Fakundiny, State Geologist Geological Survey of New York State State Education Department Division of Museum Services Albany, New York 12230 (518) 474-5816	Letter	8-24-84	None available
Mr. John J. Giardino Attorney for Owner (Mr. Lawrence La Paglia) 1002 Chemical Bank Building 69 Delaware Avenue Buffalo, New York 14202 (716) 852-2922	Interview	3-29-85	Site history since purchase from Shanco
Mr. James L. Larocca, Commissioner NYSDOT 1220 Washington Avenue Albany, New York 12232 (518) 457-4422	Letter	8-24-84	None available
Dr. Ian Loudon, Regional Health Director New York State Northern Regional Office New York State Department of Health 9 Market Street Amsterdam, New York 12010 (518) 843-3520	Letter	8-24-84	None available
Mr. Ronald A. Koczaja Environmental Quality Engineer Bureau of Water Resources Erie County Department of Environment and Planning County of Erie 95 Franklin Street Buffalo, New York 14202 (716) 846-6966	Personal Commun.	4-7-86	Information concerning burial and removal of drummed wastes
Mr. Lawrence A. Martens, District Chief U.S. Department of the Interior U.S. Geological Survey Albany District Office P.O. Box 1350 U.S. Post Office and Court House Albany, New York 12201 (518) 472-3107	Letter	8-24-84	None available

SOURCES -- SHANCO PLASTICS AND CHEMICALS
(Page 3)

<u>Name/Address/Phone</u>	<u>Type of Contact</u>	<u>Date</u>	<u>Information Provided</u>
Mr. Carl B. Sciple, Division Engineer Army Corps of Engineers New England Division 424 Trapelo Road Waltham, Massachusetts 02154 (617) 894-2400	Letter	8-24-84	None available
Mr. Frederick J. Scullin, Jr. U.S. Department of Justice U.S. Attorney Northern District of New York 369 Federal Building 100 South Clinton Street Syracuse, New York 13260 (315) 423-5165	Letter	8-24-84	None available
Mr. Richard D. Spear, Chief Surveillance & Monitoring Branch USEPA, Region II Woodbridge Avenue Edison, New Jersey 08817 (201) 321-6685	Letter	8-24-84	None available
Mr. Ahmed Tayyebi New York State Department of Environmental Conservation Region 9 600 Delaware Avenue Buffalo, New York 14202 (716) 847-4585	Personal Commun.	4-4-86	Information concerning burial and removal of drummed wastes
Mr. Anthony T. Voell, P.E. Deputy Commissioner Division of Environmental Control Department of Environment and Planning County of Erie 95 Franklin Street Buffalo, New York 14202 (716) 846-6370	Personal Commun.	6-5-85	Copies of County documents pertaining to Shanco

4.0 SITE ASSESSMENT

4.0 SITE ASSESSMENT

4.1 SITE HISTORY

The Shanco Plastics and Chemical Company site was a manufacturing facility that produced resin esters for use in floor polishes, adhesives and printing inks. Manufacture of these products began in May 1948 and ended in 1977, when operations were moved to New Jersey.

It has been reported that during the facility's operational life, various manufacturing by-products were disposed of on site. Former employees have indicated that an unspecified number of drums (up to 106) containing various potentially hazardous materials were buried on site at several locations (NYSDEC file memoranda dated January 12, 1979, January 24, 1983). These materials are alleged to have included phenolic resin wastes, sulfuric acid wastes and caustic wastes.

There is little information to substantiate the allegations of dumping at the site. Shanco personnel familiar with past operations were unavailable. The present owner has no knowledge of prior activities at the site and thus could provide only minimal amounts of useful information. NYSDEC (Region 9) files and ECDEP personnel were the principal sources of reliable information concerning this site.

The present owner (Mr. Lawrence La Paglia) operates a vehicle repair facility in the former Shanco buildings. Modifications have been made to the existing structures to facilitate these operations. The entire site is enclosed by chain link fencing, with the exception of a section adjoining a single railroad track that runs along the southern edge of the site (see Figure 2). The nature of this boundary prohibits vehicular entry, but does allow personnel entry on to the site.

4.2 SITE TOPOGRAPHY

The site is located on a flood plain terrace of the Niagara River, approximately 1.5 miles east of the river. The site and areas adjacent to it are level, with ground surface elevation being approximately 600 feet. The slope of the flood plain is to the west (and north) towards the river, away from the site.

The site is part of a larger industrial park that runs the length of Kenmore Avenue (Figure 1). The NYS Thruway separates the Shanco site and the industrial park from residential areas to the east. South of the site, among the industrial complexes, are open fields of wild vegetation which are not considered marshlands. There are no known drinking water wells in the immediate vicinity of the site; all residents are served by municipal water drawn from the Niagara River.

4.3 SITE HYDROGEOLOGY

Local site geology is comprised of a sequence of fine-grained alluvial deposits, interbedded glaciofluvial and glaciolacustrine deposits and pre-Wisconsin glacial till, all of which are underlain by the Camillus Shale (Silurian). The approximate depth to the Camillus is 55 feet.

The glacial deposits are areally extensive, but are not considered viable aquifers for large-scale groundwater use. The Camillus Shale represents the most productive bedrock aquifer in the area. Fractured zones, solution-widened water-bearing zones and numerous gypsum beds provide copious amounts of water, sufficient for industrial use (LaSala, 1968). Depth to groundwater during static or non-pumping conditions is unknown and due to the confining layer of glacial till, would depend on the head potential of the bedrock. Industrial wells located south and east of the site indicate a piezometric surface between 30 and 35 feet. Regional groundwater flow direction, based on available data from LaSala (1968), is from south to north, with some induced infiltration from the Niagara River into the bedrock aquifer via the deep industrial wells. For the purposes of HRS scoring, the bedrock aquifer is considered to be the aquifer of concern.

4.4 SITE CONTAMINATION

Past disposal practices of dumping on the surface or in excavations at the site may have resulted in miscellaneous non-point discharges. NYSDEC file memoranda indicate that drummed manufacturing by-products (minimum of 106 drums) were buried on site in two possible locations, one beneath the present warehouse and the second behind the building in an unspecified

location. This drummed material allegedly consisted of phenolic resins, sulfuric acid and caustic wastes.

In 1976, a sludge pit (dimensions: 75' x 20' x 8'; total volume = 444 yd³) filled with phenol and phenol resins was excavated and refilled with clean fill and regraded. The location and the disposition of the excavated material are unknown. In addition no other information related to the operational history of the sludge pit is available.

Prior to 1980, all remaining drums (40 total) stored on the site were removed (under ECDEP supervision) and sent to CECOS for disposal. There is no documentation to indicate if these drums were tested for alleged hazardous materials prior to or after their removal.

Three independent sampling programs have been conducted at the Shanco site. They are:

- . Shanco Plastics and Chemicals - 1976
- . NYSDEC - 1978
- . USGS - 1983

A soil sample (sampling location unknown) was collected by Shanco and analyzed for the following parameters: pH, phenol. The analytical results are as follows:

<u>Parameter</u> <u>mg/kg</u>	<u>Wet Basis</u>	<u>Dry Basis</u>
pH	7.45	--
Phenol	45.3	58.8

The analytical procedures were in accordance with "Methods for Chemical Analysis of Water and Wastes," 1974, EPA; and "Standard Methods for the Examination of Water and Wastewater," 13th Edition.

The NYSDEC conducted a survey of industrial chemicals and the quantities used by Shanco at their facility. The following were listed:

Phthalic anhydride	- 46,925 lbs/yr
Maleic anhydride	- 77,546 lbs/yr
Phenol	- 75,980 lbs/yr

The USGS, as part of their Niagara River Toxics Investigation, undertook four shallow test borings at the Shanco site (Figure 2). Substrate analyses were completed and the results are listed in Table 1.

TABLE 1
ANALYSES OF SUBSTRATE SAMPLES FROM SHANCO PLASTICS

Sample/Boring No.:	1	2	3	4
Boring Depth (ft):	<u>3.5</u>	<u>2.0</u>	<u>3.0</u>	<u>4.0</u>
Units: ug/l				
<u>Inorganic Constituents</u>				
Molecular sulfur	--	--	--	3,000
<u>Organic Compounds</u>				
Priority Pollutants				
Phenol	170,000	--	LT*	--
Naphthalene	LT	--	--	--
Fluoranthene	--	--	LT	--
Pyrene	--	--	LT	--
Nonpriority Pollutants				
1,2,3,4,4A,9,10,10A- Octahydro-1,4A- dimethyl-2- isopropyl-1- phenanthrene carboxylic acid, methylester	100,000	--	--	--
Fenchene	250	--	--	--
Unknown hydrocarbons	400,000	--	--	--
Possibly Naturally Occurring Compounds				
Dodecane	200,000	--	--	--
Tridecane	400,000	--	--	--
Tetradecane	500,000	--	--	--
Pentadecane	500,000	--	--	--
Hexadecane	500,000	--	--	--
Heptadecane	400,000	--	--	--
Octadecane	200,000	--	--	--

* Found but below quantifiable detection limit

-- Not detected

5.0



**5.0 PRELIMINARY APPLICATION OF THE
HAZARD RANKING SYSTEM**

5.0 PRELIMINARY APPLICATION OF THE HAZARD RANKING SYSTEM

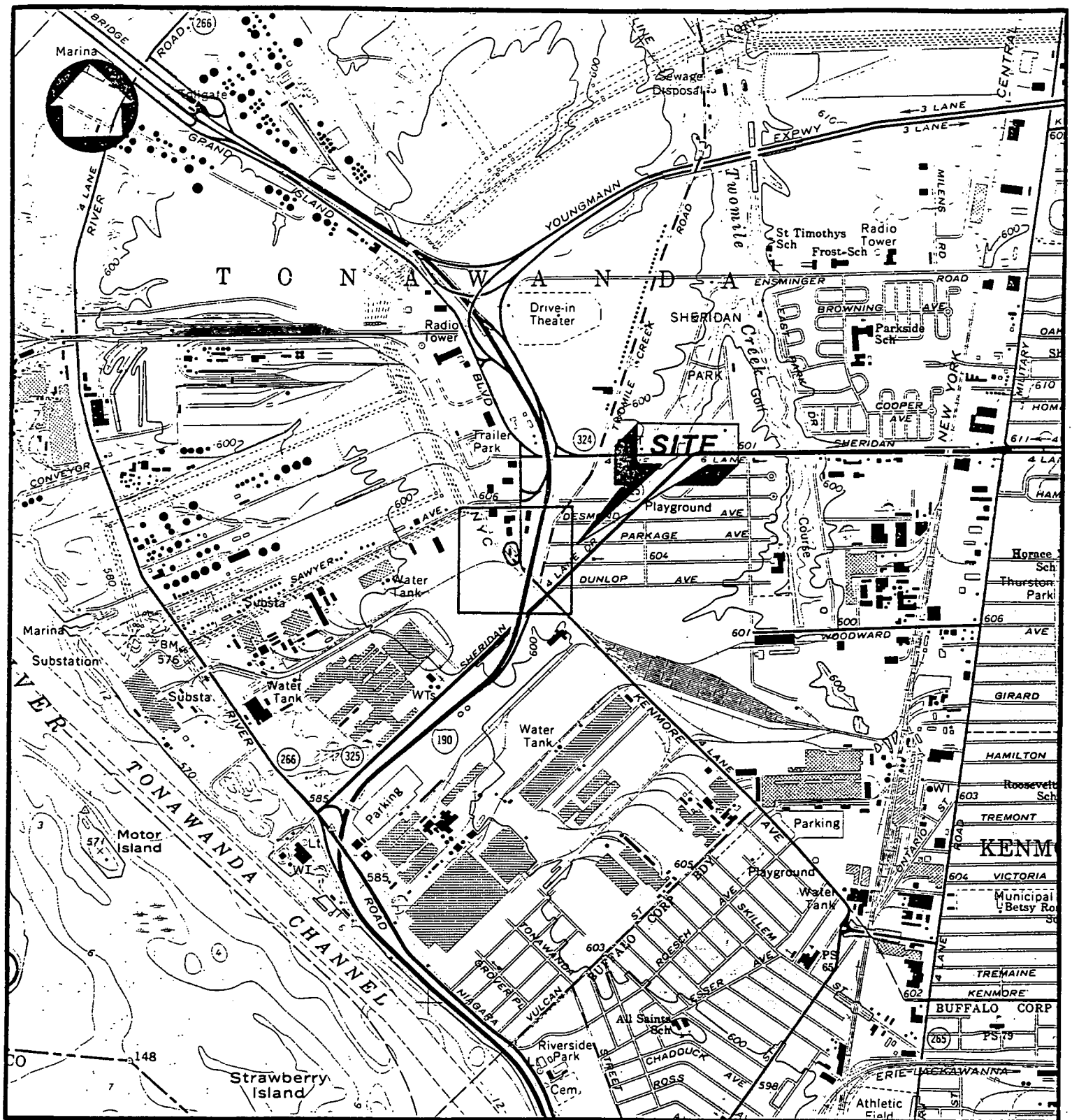
5.1 NARRATIVE SUMMARY

The Shanco Plastics and Chemical Company site encompasses an estimated one acre, located at 2716 Kenmore Avenue, Tonawanda (Erie County), New York. The Shanco Company was formerly a manufacturing facility that produced modified resin esters for use in floor polishes, adhesives and printing inks. Manufacturing operations began in May 1948 and were suspended in October 1977. The property was sold to Mr. Lawrence La Paglia in 1980 and is now used as a vehicle repair facility.

The Shanco Company is reported to have disposed of at least 106 drums containing phenolic resin wastes, sulfuric acid wastes and caustic wastes, burying them in one or more pits at the rear of their facility (NYSDEC file memorandum dated January 24, 1983). Documents indicate that 40 drums were removed to a CECOS facility for disposal. The status of the remaining drums and other buried waste material is unknown. Tests conducted by the USGS at the Shanco site indicate elevated levels of phenols and sulfur in two of four substrate samples (see Table 1).

The site is located on the Niagara River floodplain (approximately 1.5 miles east of the river) in the Town of Tonawanda. The Town of Tonawanda is served by a municipal water supply whose primary source is the Niagara River. Water intakes for the municipal water system are located on Strawberry Island (upstream from the site) and at various downstream locations at distances greater than three stream miles.

LOCATION



SCALE: 1" = 2000'

TOPOGRAPHY TAKEN FROM
1963

BUFFALO NW, N.Y. - ONT

U.S.G.S. QUADRANGLE

7.5 MIN SERIES



MAP LOCATION

FIGURE 1

SITE LOCATION MAP

SHANCO PLASTIC

LAT. 42° 58' 30" N LONG. 78° 54' 45" W

HRS WORKSHEETS

Facility Name: Shanco Plastics & Chemicals

Location: 2716 Kenmore Avenue, Tonawanda, New York 14150

EPA Region: 9

Person(s) in Charge of the Facility: John J. Giardino, Attorney
Representing Owner:
Lawrence LaPaglia

Name of Reviewer: Kevin J. Burns

Date: April 1, 1985

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

The site was formerly a manufacturing facility for various plastics and chemicals. Operations ceased in 1977; prior to that date an unknown number of drums containing various chemicals (phenols, hydrocarbons) were dumped and buried on site. The site is located approximately 1.5 miles east of the Niagara River.

Scores: $S_M = 3.96$ ($S_{gw} = 5.34$ $S_{sw} = 4.28$ $S_a = 0$)
 $S_{FE} = 0$
 $S_{DC} = 0$

GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	3.1
If observed release is given a score of 45, proceed to line 4 . If observed release is given a score of 0, proceed to line 2 .					
2 Route Characteristics					3.2
Depth to Aquifer of Concern	0 1 2 3	2	4	6	
Net Precipitation	0 1 2 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	1	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			10	15	
3 Containment	0 1 2 3	1	3	3	3.3
4 Waste Characteristics					3.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	
Total Waste Characteristics Score			17	26	
5 Targets					3.5
Ground Water Use	0 1 2 3	3	6	9	
Distance to Nearest Well/Population Served	$\left. \begin{array}{l} \text{0} \\ \text{12} \\ \text{24} \end{array} \right\} \begin{array}{l} \text{0} \\ \text{4} \\ \text{8} \end{array} \begin{array}{l} \text{8} \\ \text{16} \\ \text{32} \end{array} \begin{array}{l} \text{10} \\ \text{20} \\ \text{40} \end{array}$	1	0	40	
Total Targets Score			6	49	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			3060	57.330	
7 Divide line 6 by 57,330 and multiply by 100 $S_{gw} = 5.34$					

SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	4.1
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 2 .					
2 Route Characteristics.					4.2
Facility Slope and Intervening Terrain	0 1 2 3	1	0	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	4	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			9	15	
3 Containment	0 1 2 3	1	3	3	4.3
4 Waste Characteristics					4.4
Toxicity/Persistence	0 3 6 9 12 15 18	1	12	18	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	5	8	
Total Waste Characteristics Score			17	26	
5 Targets					4.5
Surface Water Use	0 1 2 3	3	6	9	
Distance to a Sensitive Environment	0 1 2 3	2	0	6	
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40	
Total Targets Score			6	55	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			2754	64,350	
7 Divide line 6 by 64,350 and multiply by 100 $S_{sw} = 4.28$					

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0 45	1	0	45	5.1
Date and Location: March 27, 1985 Shanco Plastics & Chemicals 2716 Kenmore Ave., Tonawanda, NY					
Sampling Protocol: See worksheet documentation					
If line 1 is 0, the S = 0. Enter on line 5 . If line 1 is 45, then proceed to line 2 .					
2 Waste Characteristics					5.2
Reactivity and Incompatibility	0 1 2 3	1		3	
Toxicity	0 1 2 3	3		9	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	
Total Waste Characteristics Score				20	
3 Targets					5.3
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	
Distance to Sensitive Environment	0 1 2 3	2		6	
Land Use	0 1 2 3	1		3	
Total Targets Score				39	
4 Multiply 1 x 2 x 3				35,100	
5 Divide line 4 by 35,100 and multiply by 100 $S_a = 0$					

	S	S ²
Groundwater Route Score (S _{gw})	5.34	28.51
Surface Water Route Score (S _{sw})	4.28	18.32
Air Route Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		46.83
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		6.84
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$		S _M = 3.96

WORKSHEET FOR COMPUTING S_M

FIRE AND EXPLOSION WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Containment	1 3	1		3	7.1
2 Waste Characteristics					7.2
Direct Evidence	0 3	1		3	
Ignitability	0 1 2 3	1		3	
Reactivity	0 1 2 3	1		3	
Incompatibility	0 1 2 3	1		3	
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	•	8	
Total Waste Characteristics Score				20	
3 Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1		5	
Distance to Nearest Building	0 1 2 3	1		3	
Distance to Sensitive Environment	0 1 2 3	1		3	
Land Use	0 1 2 3	1		3	
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5	
Total Targets Score				24	
4 Multiply 1 x 2 x 3				1,440	
5 Divide line 5 by 1,440 and multiply by 100 SFE = 0					

DIRECT CONTACT WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	0 45	1	0	45	8.1
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2					
2 Accessibility	0 1 2 3	1	3	3	8.2
3 Containment	0 15	1	0	15	8.3
4 Waste Characteristics Toxicity	0 1 2 3	5	10	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 1 2 3 4 5	4	12	20	
Distance to a Critical Habitat	0 1 2 3	4	0	12	
Total Targets Score			12	32	
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100 SOC = 0					

HRS DOCUMENTATION RECORDS

June 28, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: Shanco Plastics & Chemicals

LOCATION: 2716 Kenmore Avenue, Tonawanda, New York

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

None

Assign score = 0

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Confined aquifer in underlying bedrock formations (Camillus shale)

Source: Erie-Niagara Basin Groundwater Resources, 1968

Depth(s) from the ground surface to the highest seasonal level of the saturated zone (water table(s)) of the aquifer of concern:

Depth to bedrock water table 55 feet

Source: Erie-Niagara Basin Groundwater Resources, 1968

Depth from the ground surface to the lowest point of waste disposal/storage:

Unknown at this time

Assume 8 feet, based on depth of sludge pit

Score = 2

Source: NYSDEC Region 9 file data

Net Precipitation

Mean annual or seasonal precipitation (list months for seasonal):

36 inches

Source: Figure 5, HRS Users Manual (HW-10), USEPA, 1984

Mean annual lake or seasonal evaporation (list months for seasonal):

26 inches

Source: Figure 4, HRS Users Manual (HW-10), USEPA, 1984

Net Precipitation (subtract the above figures):

10 inches

Assign score = 2

Permeability of Unsaturated Zone

Soil Type in unsaturated zone:

Surface soils are classified as "unknown" by Soil Conservation Service
Clay (red and brown)

Source: Group III, Inactive Site Profiles

Permeability associated with soil type:

$10^{-5} - 10^{-7}$ cm/sec

Assign score = 1

Source: HRS Users Manual (HW-10), USEPA, 1984

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

Drums: buried, stored on surface

Liquid sludge

Score = 3

Source: NYSDEC Region 9 file memoranda dated January 24, 1983 and April 28, 1983
ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980
Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill - no liner
Surface impoundment - no liner
Sludge pit
Containers

Method with highest score:

Sludge pit

Assign score = 3

Source: Table 3, HRS Users Manual (HW-10), USEPA, 1984

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Phenols

Source: NYSDEC Region 9 file memoranda dated January 24, 1983, April 28, 1983 and January 13, 1984
ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980

Compound with highest score:

Phenols

Assign score = 12

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Drums: 106 buried, 40 surface storage; volume = 36.5 cubic yards
Sludge pit: 75 x 20 x 8 feet; volume = 444 cubic yards
Total volume = 480 cubic yards

Bases of estimating and/or computing waste quantity:

NYSDEC Region 9 file memoranda dated January 24, 1983, April 28, 1983 and January 13, 1984
ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980
Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Industrial

Assign score = 2

Source: Erie-Niagara Basin Groundwater Report, 1968
NYS Atlas of Community Water System Sources, 1982

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

West of the site - Dunlop Tire and Rubber

Source: Erie-Niagara Basin Groundwater Resources, 1968

Distance to above well or building:

1 mile

Source: Erie-Niagara Basin Groundwater Resources, 1968

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

Industrial wells

Source: NYS Atlas of Community Water System Sources, 1982
Erie-Niagara Basin Groundwater Resources, 1968

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

This is an industrialized area; consequently there are no irrigated lands within three miles of the site.

Source: Wehran Engineering, site inspection, March 28, 1985

Total Population served by ground water within a 3-mile radius:

None

Assign score = 0

Source: NYS Atlas of Community Water System Sources, 1982
Erie-Niagara Basin Groundwater Resources, 1968

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None

Assign score = 0

Rationale for attributing the contaminants to the facility:

Not applicable

2 ROUTE CHARACTERISTICS

Source: USGS Topographic Maps, Niagara Falls and Buffalo NW

Facility Slope and Intervening Terrain

Average slope of facility in percent:

1%

Name/description of nearest downslope surface water:

Niagara River

Average slope of terrain between facility and above-cited surface water body in percent:

1-1.5%

Assign score = 0

Is the facility located either totally or partially in surface water?

No

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

2.2 inches

Assign score = 2

Source: HRS Users Manual (HW-10), USEPA, 1984

Distance to Nearest Downslope Surface Water

1.5 miles

Assign score = 2

Physical State of Waste

Drums: buried, stored on surface

Liquid sludge

Liquid score = 3

Source: NYSDEC Region 9 file memoranda dated January 24, 1983, April 28, 1983 and August 12, 1976

Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Leaking drums

Sludge pit

Source: Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980

Method with highest score:

Leaking drums

Sludge pit

Assign score = 3

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Phenols; toxicity = 3, persistence = 1

Sulfuric acids; toxicity = 3, persistence = 0

Source: USGS Niagara River Toxics Investigation

Compound with highest score:

Phenols

Assign score = 12

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum);

Drums: 106 buried, 40 surface; volume = 36.5 cubic yards

Volume of sludge pit = 444 cubic yards

Total volume = 480 cubic yards

Assign score = 5

Basis of estimating and/or computing waste quantity:

NYSDEC Region 9 file memoranda dated January 24, 1983, April 28, 1983 and August 12, 1976

Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 26, 1979 and January 21, 1980

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Recreation

Assign score = 2

Source: NYS Codes, Rules and Regulations, Title 6

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None in immediate vicinity

Source: USGS Topographic Maps, Niagara Falls and Buffalo NW

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None in immediate vicinity

Assign score = 0

Distance to critical habitat of an endangered species or national wildlife refuge, if 1 mile or less:

None in immediate vicinity

Source: NYSDEC Endangered Species Unit, Delmar, New York, 1985

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Intakes for water supply system occur at various locations along the Niagara River Channel. None are located within 3 miles downstream of the site.

Assign score = 0

Source: NYS Atlas of Community Water System Sources, 1982

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Industrialized area, no arable land within 3 miles

Total population served:

Not applicable

Name/description of nearest of above water bodies:

Not applicable

Distance to above-cited intakes, measured in stream miles.

Not applicable

AIR ROUTE

1 OBSERVED RELEASE

Assign score = 0

Contaminants detected:

None detected

Date and location of detection of contaminants

Date: March 27, 1985

Location: Shanco Plastics, Kenmore Avenue, Tonawanda, NY

Methods used to detect the contaminants:

HNU photoionizing organic vapor detector was employed to monitor ambient air quality.

Rationale for attributing the contaminants to the site:

None detectable

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most Reactive compound:

None detected

Most incompatible pair of compounds:

Not applicable

Toxicity

Most toxic compound:

Phenols

Source: USGS Niagara River Toxics Investigation

Hazardous Waste Quantity

Total quantity of hazardous waste:

Unknown quantity of buried drums

Basis of estimating and/or computing waste quantity:

NYSDEC Region 9 files

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

0 to 4 mi 0 to 1 mi 0 to 1/2 mi 0 to 1/4 mi

+1,000; this is an estimate based upon travel through immediate vicinity of site

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None within 2 miles

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None within 2 miles

Distance to critical habitat of an endangered species, if 1 mile or less:

None

Land Use

Distance to commercial/industrial area, if 1 mile or less:

100 feet, Firestone garage borders site on the north

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

None within 2 miles

Distance to residential area, if 2 miles or less:

.5 mile, residential area to the east on opposite side of NYS Thruway

Distance to agricultural land in production within past 5 years, if 1 mile or less:

None

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

None

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

No

FIRE AND EXPLOSION

1 CONTAINMENT

Hazardous substances present:

To score the fire and explosion hazard mode either a state or local fire marshall must have certified that the facility presents a significant fire or explosion threat to the public or to a sensitive environment, or there must be a demonstrated threat based on field observations (e.g. combustible gas indicator readings). The available records give no indication that either one of these tasks has been done. Further, the available data do not suggest any imminent threat of fire and explosion at this site. Therefore the route score cannot be completed.

Type of containment, if applicable:

Not applicable

2 WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

Not applicable

Ignitability

Compound used:

Not applicable

Reactivity

Most reactive compound:

Not applicable

Incompatibility

Most incompatible pair of compounds:

Not applicable

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

Not applicable

Basis of estimating and/or computing waste quantity:

Not applicable

3 TARGETS

Distance to Nearest Population

Not applicable

Distance to Nearest Building

Not applicable

Distance to Sensitive Environment

Distance to wetlands:

Not applicable

Distance to critical habitat

Not applicable

Land Use

Distance to commercial/industrial area, if 1 mile or less:

Not applicable

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

Not applicable

Distance to residential area, if 2 miles or less:

Not applicable

Distance to agricultural land in production within past 5 years, if 1 mile or less:

Not applicable

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Not applicable

Is a historic or landmark site (National Register of Historic Places and National Natural Landmarks) within the view of the site?

Not applicable

Population Within 2-Mile Radius

Not applicable

Buildings Within 2-Mile Radius

Not applicable

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None

2 ACCESSIBILITY

Describe type of barrier(s):

Site fenced, access through gate and breaks in fence.

Score = 3

Source: Wehran Engineering, site investigation, March 28, 1985

3 CONTAINMENT

Type of containment, if applicable:

Drums allegedly buried on site; surface drums removed.

Score = 0

Source: NYSDEC Region 9 file memoranda dated January 24, 1983 and April 28, 1983
ECDEP memos in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980
Knab Bros., Inc., Proposal dated August 12, 1976 and Construction Invoice dated August 19, 1976

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Phenols

Source: NYSDEC Region 9 file memoranda dated January 24, 1983, April 28, 1983 and January 13, 1984
ECDEP memoranda in Region 9 files dated May 4, 1979, June 21, 1979, November 29, 1979 and January 21, 1980

Compound with highest score:

Phenols

Score = 2

5 TARGETS

Population within one-mile radius

3,000 estimated

Score = 3

Source: 1980 Census of Population
USGS Quadrangles, Niagara Falls and Buffalo NW

Distance to critical habitat (of endangered species)

Not applicable

Source: NYSDEC Endangered Species Unit, Delmar, NY

GROUND-WATER RESOURCES OF THE ERIE-NIAGARA BASIN, NEW YORK



Prepared for the
Erie-Niagara Basin Regional Water Resources
Planning Board

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

in cooperation with
THE NEW YORK STATE CONSERVATION DEPARTMENT
DIVISION OF WATER RESOURCES

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES COMMISSION

Basin Planning Report ENB-3

1968

OCCURRENCE OF GROUND WATER

Ground water is commonly thought of as water that comes from wells and springs. This definition makes the essential point and distinguishes ground water from other subsurface water. Water wells provide the most easily obtainable information on ground-water resources, but the information can be misleading. A casual inspection of a body of random data on wells in the area may lead to the notion that ground water occurs in a haphazard fashion. For example, it is apparent from the data in table 6 that wells vary greatly in depth and yield. Depths range from about 10 to 500 feet, and yields from a few gallons per day to more than 1,000 gpm. What is more, wells of large yield are interspersed with wells of low yield. A more careful study of the data shows that some of the variations in well characteristics reflect differences in well construction rather than in the availability of ground water. A carefully planned and constructed public-supply well gives a more complete picture of water availability than does a driven well constructed for lawn watering. But after accounting for variations in well construction, profound differences in the availability of ground water are still apparent. These differences arise mainly from the geologic and topographic features of the basin.

Ground water occurs in the saturated zone of the earth's crust. The water in the saturated zone (ground water) fills the interconnected openings in the rocks and is under hydrostatic pressure. As shown in figure 4, ground water will flow through the zone of saturation following a course that takes it from a point of higher head to a point of lower head. In this way water entering the ground on a hill may discharge through a spring on the side of the hill, into a nearby stream, or into a river many miles away. When the water standing in a well is pumped out, the head (water level) in the well is lowered. Water from the saturated zone can then move toward the well in the same manner it moves toward points of natural discharge. Where the saturated zone is not overlain by impermeable materials, its upper surface is the water table. The depth to the saturated zone in the area varies from 0 feet in some swamps to possibly more than 75 feet along the edges of some glacial terraces.

The unsaturated materials over the saturated zone make up the zone of aeration, the zone in which the openings are partly filled with air (fig. 4). Water in the zone of aeration is held to the walls of the openings by molecular forces. This prevents the free movement of water in the zone of aeration; water in this zone drains slowly downward but not laterally. Wells and springs, therefore, cannot obtain water from the zone of aeration. The zone is important, however, because water must pass through it to reach the saturated zone.

The unconsolidated deposits and the bedrock differ markedly in the types of water-bearing openings they contain (fig. 4). The unconsolidated deposits are composed of grains packed together with open spaces, or pore spaces, between the grains. Water truly permeates the unconsolidated deposits because it can fill the myriad of tiny pore spaces between the grains.

Yields of wells

The Camillus Shale is by far the most productive bedrock aquifer in the area. Except in the vicinity of Buffalo and Tonawanda, where industrial wells produce from 300 to 1,200 gpm, no attempt has been made to obtain large supplies from the formation. However, the inflow of water to gypsum mines near Clarence Center and Akron indicate that large supplies are not necessarily restricted to the Buffalo and the Tonawanda area. Two examples of large flows of water encountered in gypsum mining have already been mentioned. Pumpage from gypsum mines near Clarence Center (including the mine mentioned previously) is substantial. The water pumped is discharged to Got Creek. On July 2, 1963, the creek had a flow of 2.1 mgd (million gallons per day) about half a mile downstream from the mines, that was due almost entirely to the pumpage. Water for industrial use is pumped from a flooded, abandoned gypsum mine at Akron. This pumpage, at a rate of 500 to 700 gpm, has had no appreciable effect on the water level in the mine.

Probably the larger solution openings are most common in discharge areas near Tonawanda Creek and its tributaries and near the Niagara River; the flow of ground water becomes concentrated as it approaches the streams to which it discharges. Other discharge areas, such as low-lying swampy areas and headwaters of small streams that have perennial flow, are likely places to drill wells.

LIMESTONE UNIT

Bedding and lithology

The term "limestone unit" in this report is applied to a sequence of limestone and dolomite overlying the Camillus Shale. The limestone unit includes the Bertie Limestone at the base, the Akron Dolomite, and the Onondaga Limestone at the top. The lithology and thickness of these units are shown in figure 7. The Bertie Limestone and the Akron Dolomite are Silurian in age and are separated from the overlying Onondaga Limestone of Devonian age by an unconformity or erosional contact.

The Bertie Limestone is mainly dolomite and dolomitic limestone but contains interbedded shale particularly in the thin-bedded lower part of the formation. The middle part is brown, massive dolomite, and the upper part is gray dolomite and shale whose beds are of variable thickness. The total thickness of the formation is about 55 feet (Buehler and Tesmer, 1963, p. 30-31).

The Akron Dolomite is composed of greenish-gray and buff dolomite beds varying from a few inches to about a foot in thickness. The upper contact of the Akron is erosional and is often marked by remnants of shallow stream channels. Thin lenses of sandy sediments lie in the bottoms of some channels. The thickness of the formation is generally between 7 and 9 feet (Buehler and Tesmer, 1963, p. 33-34).

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual (HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

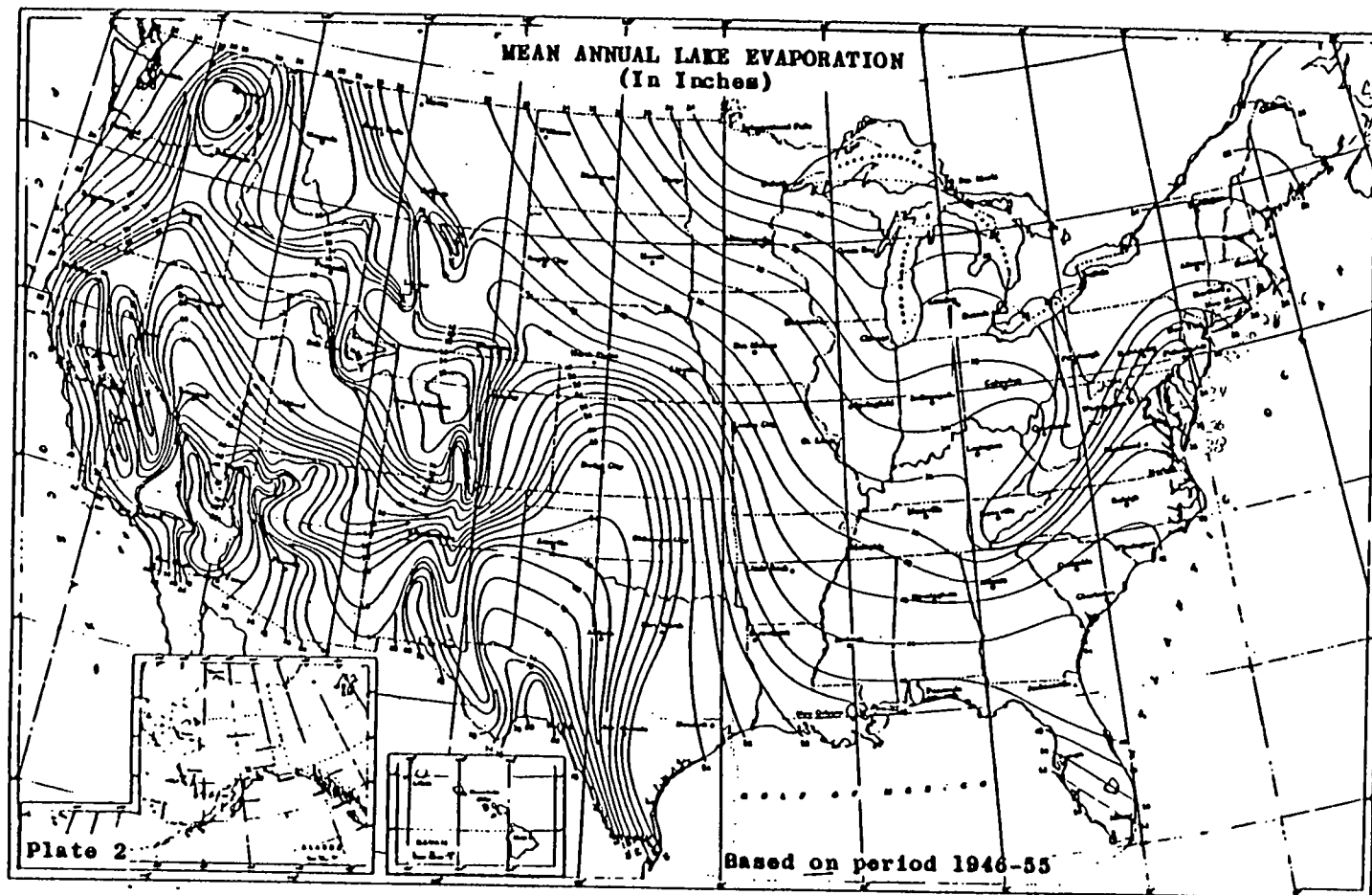
TABLE 2
PERMEABILITY OF GEOLOGIC MATERIALS*

Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	$10^{-5} - 10^{-7}$ cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	$10^{-3} - 10^{-5}$ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	$>10^{-3}$ cm/sec	3

*Derived from:

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWet ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979



Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

FIGURE 4
MEAN ANNUAL LAKE EVAPORATION
(IN INCHES)

TABLE 9

CONTAINMENT VALUES FOR SURFACE WATER ROUTE

Assign containment a value of 0 if: (1) all the waste at the site is surrounded by diversion structures that are in sound condition and adequate to contain all runoff, spills, or leaks from the waste; or (2) intervening terrain precludes runoff from entering surface water. Otherwise, evaluate the containment for each of the different means of storage or disposal at the site and assign a value as follows:

A. Surface Impoundment

	<u>Assigned Value</u>
Sound diking or diversion structure, adequate freeboard, and no erosion evident	0
Sound diking or diversion structure, but inadequate freeboard	1
Diking not leaking, but potentially unsound	2
Diking unsound, leaking, or in danger of collapse	3

B. Containers

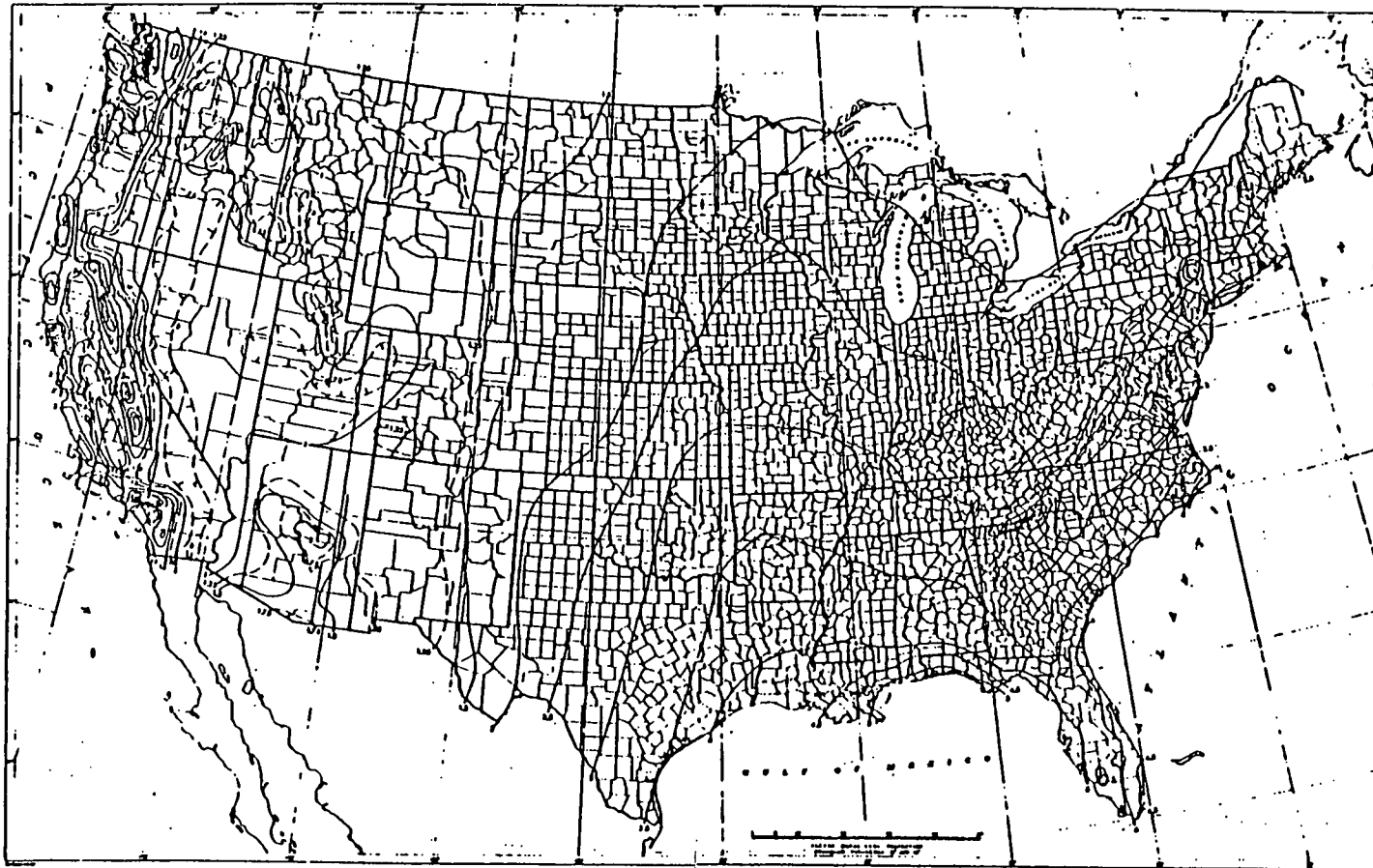
	<u>Assigned Value</u>
Containers sealed, in sound condition, and surrounded by sound diversion or containment system	0
Containers sealed and in sound condition, but not surrounded by sound diversion or containment system	1
Containers leaking and diversion or containment structures potentially unsound	2
Containers leaking, and no diversion or containment structures or diversion structures leaking or in danger of collapse	3

C. Waste Piles

	<u>Assigned Value</u>
Piles are covered and surrounded by sound diversion or containment system	0
Piles covered, wastes unconsolidated, diversion or containment system not adequate	1
Piles not covered, wastes unconsolidated, and diversion or containment system potentially unsound	2
Piles not covered, wastes unconsolidated, and no diversion or containment or diversion system leaking or in danger or collapse	3

D. Landfill

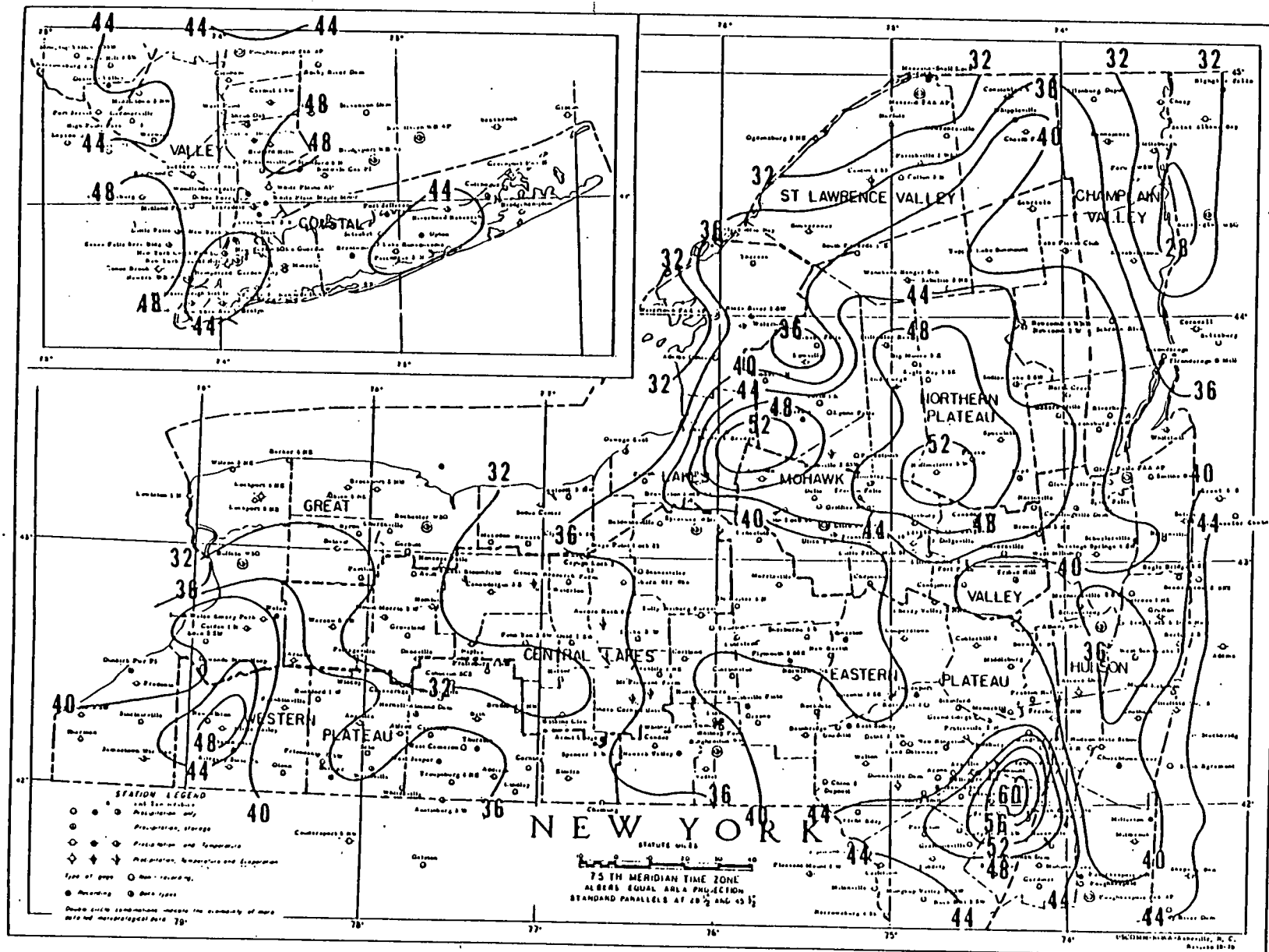
	<u>Assigned Value</u>
Landfill slope precludes runoff, landfill surrounded by sound diversion system, or landfill has adequate cover material	0
Landfill not adequately covered and diversion system sound	1
Landfill not covered and diversion system potentially unsound	2
Landfill not covered and no diversion system present, or diversion system unsound	3



Source: Rainfall Frequency Atlas of the United States, Technical Paper No. 40, U.S. Department of Commerce, U.S. Government Printing Office, Washington, D.C., 1963.

FIGURE 8
1-YEAR 24-HOUR RAINFALL
(INCHES)

MEAN ANNUAL PRECIPITATION, INCHES



Data are based on the period 1931-55. Isolines are drawn through points of approximately equal value. Caution should be used in interpolating on these maps, particularly in mountainous areas.

GROUP III

INACTIVE SITE PROFILES

Group III is made up of six (6) sites chosen by the New York State DEC which did not fit into the geographic areas of Groups I and II. These sites by name and Volume No. 3, Hazardous Waste Disposal Sites In New York State Code Numbers are:

Pratt and Letchworth Company - #915045

Shanco Plastics and Chemicals - #915048

Spaulding Fibre - #915050 - a, b and c

Times Beach - #915080

With the exception of the Times Beach area these sites were used to dispose of wastes generated by the respective firms. Times Beach was a Buffalo River dredgings disposal area utilized by the U.S. Army Corp of Engineers and has been the subject of a number of studies by various groups. The Buffalo River sediments have also been studied independently.

As with Groups I and II physical characteristics of the sites pertaining to waste disposal were evaluated through available documents and aerial photographs. Exhibit #25 locates the Groups III sites.

Bedrock, Water Table, Soils and Drainage

All of the Group III sites are located in areas where development has disturbed the native soils. As a result the existing surface soils could only be characterized as "urban" by the Soil Conservation Service.

- continued -

A series of maps prepared by the URS firm was useful in determining generalized soil conditions. Soil texture with 18-31% clay and greater than 35% clay was found in the area of the Spaulding Fibre and Shanco Plastics sites respectively. The Pratt and Letchworth site could only be characterized as being located in an area of unclassified texture.

The Pratt and Letchworth site was located in an area which could only be characterized as having "miscellaneous" soil permeability while the Shanco Plastics and Spaulding Fibre sites were rated very slow and moderately slow respectively regarding permeability.

The depth to bedrock for the Group III sites can be approximated from the generalized map, Exhibit #23 prepared from URS data.

Depth to water table was also examined by URS during their study. They believe that the Spaulding Fibre site is in an area with a semi-perched water table at a depth greater than four (4) feet. Both the Pratt and Letchworth and Shanco Plastics sites were in areas of "miscellaneous" depth to water table.

Drainage of surface waters from most of the sites could not be determined due to the surrounding land use. The Times Beach disposal area will drain directly to the lagoon behind the disposal area dike. Pratt and Letchworth will most likely drain to Scajaquada Creek. Runoff from Spaulding Fibre may enter Two Mile Creek before reaching the Niagara River.

Aerial Photography Interpretations

Aerial photographs were available for the years, 1951, 1960 and 1972. Very little information was gained from the photo evaluation of Group III sites.

• SPAULDING FIBRE

TONAWANDA ↑

• SHANCO ←

Greater than 10' to Bedrock

Keamore

• PRATTO
LEITCHWORTH

BUFFALO ↑

Greater than 4' to Bedrock

Bedrock at
2' to 4'

DELAWARE AVE
MAIN ST

TIMES
BEACH →

Greater than 10' to Bedrock

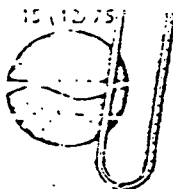
EXHIBIT # 23
Study Area III

Generalized Depth to bedrock taken
from MAP. Prepared by U.R.S.
Engineers, 1980

SHANCO PLASTICS AND CHEMICALS - #915048

Waste phenolic resins were reportedly buried on site prior to the Shanco Plastics plant closings in 1977. Much of the disposed material was exhumed and removed for off-site disposal at the CECOS facility in 1980.

Aerial photography did not reveal any additional data concerning this site. Site inspections have not found any obvious problems associated with past disposal practice. We recommend no further activity at this location.



New York State Department of Environmental Conservation

MEMORANDUM

TO: Barbara Guibord
FROM: Glen Bailey
SUBJECT: Shanco Plastics

DATE: 1/24/83

On Monday, January 24, 1983 I talked with Dick Shanley of the OCTF. Shanley said that he had been contacted by a former employee of Shanco, who stated that in 1977 he participated in the burial of 105 or 106 drums of wastes on the Shanco property. The wastes included phenolic resin wastes, sulfuric acid wastes and caustic wastes.

Shanley said that his information was that Shanco Plastics had been purchased by Centrèx Corporation of New Jersey, which is the U. S. subsidiary of a European chemical corporation. The former Shanco site at Wales and Kenmore Avenues is currently the location of Larry's Collision Shop.

The inventory of Hazardous Waste Disposal Sites in New York State lists Shanco Plastics & Chemicals at Volume 3, Page 8 - 9 - 115, site code 915048. The site narrative indicates that some abandoned materials had been removed, but that there was no information to confirm that wastes had been buried at the site.

GB:jar

cc: John Guenthal
Peter Buechi ✓



New York State Department of Environmental Conservation

MEMORANDUM

TO: Peter Buechi
 FROM: Ahmad-Tagyebi AT
 SUBJECT: Shanco Plastics
 DATE: April 28, 1983

According to our files, approximately 40 drums containing waste material were removed from Shanco Plastics and sent to CECOS for disposal. This operation took place during 1979 and early part of 1980. ECDEP administered the operation.

ECDEP's memos of November 1978 and January 21, 1980 indicate that additional drums may have been buried in Shanco's property, adjacent to "the building". Exact location and number of drums have not been specified. Mr. Shanley's recollection of such burial indicated in the attached memo (GB's memo of 1/24/83) may be useful, particularly if he is willing to identify the exact location where the drums were buried.

AT:dd
 Enclosure

AHMAD,
 WOULD YOU CONTACT MR. SHANLEY (GLEN SHOULD HAVE NUMBER) TO OBTAIN NAME OF FORMER EMPLOYEE WHO PROVIDED INFORMATION ON THE DRUMS. THEN CONTACT FORMER EMPLOYEE AND SEE IF HE WOULD BE WILLING TO INDICATE LOCATION OF DRUMS ON A SITE MAP OR ON THE SITE ITSELF.

P.T.

**The Following
Image(s) are
the Best Copy
Available**

BIEL'S

COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Ronald D. Koczaja DATE May 4, 1979
TO FILE - Complaint No. 985 ✓
SUBJECT Illegally Dumped Garbage and Spilled Drums at the Former

Shanco Plastics
2716 Kenmore Avenue
Tonawanda, New York

The writer inspected the site on May 2, 1979 after receiving notification from Mr. Mitrey, New York State DEC.

Prior to the inspection, the complainant, Mr. Gfroerer of Hartwood Realty (874-6670) was contacted. Mr. Gfroerer reported an apparent act of vandalism whereby the plant grounds were broken into, garbage dumped, and a number of drums overturned. Mr. Gfroerer indicated that he is responsible for the property and objected to conducting a joint inspection.

The inspection found drums labeled Carbolic Acid, Class B Poison and Glycerine outside of the fenced yard. The glycerine drums were uncapped and full of liquid which did not appear to be glycerine. The carbolic acid drums were capped, on their side, and partially full. Numerous abandoned drums, wood, and pallets were visible inside the fenced yard. The contents and quantity of material in the drums is unknown. In an area between the building and northern fence were rusted drums, some of which had broken open spilling their contents on the ground. The material appeared to be resin.

Mr. Groerer was notified by certified mail that the abandoned materials must be identified and disposed of properly.

RDK/jk

cc: Mr. Clare
Mr. Campbell
Mr. Mitrey, NYSDEC

COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Ronald D. Koczaja DATE June 21, 1979

TO File

SUBJECT Industrial Waste Disposal

Shanco Plastics
2716 Kenmore Avenue, Tonawanda

Shanco Plastics, which ceased operations at this facility in 1977, was reported by the IATF to dispose of waste material on plant grounds. During a complaint investigation the grounds were inspected to determine if visual evidence of potential environmental problems or nuisances were created by the past disposal practices. The buildings are now occupied by 4 Seasons Automotive Products.

Waste resinous materials were observed drummed and in piles along the northern edge of the building. The stacked drums were severely rusted and in many cases had split open spilling the material on to the ground.

There was no visual evidence of a landfill operation on or adjacent to the plant grounds. No leachate or seepage was observed on or surrounding the facility.

Efforts have been made to remove the waste materials abandoned by Shanco Plastics at the time of closing. This activity should eliminate any immediate hazard associated with on site disposal methods practiced at this plant.

RDK:JG

cc: J. Tygert
D. Campbell
L. Clare

November 29, 1979

Synres Chemical Corporation
1036 Commercial Street
Union, New Jersey 07083

Attn: Ms. Joyce Pomerance

Re: Waste Materials
Shanco Plastics Facility
(Former)
2716 Kenmore Avenue
Tonawanda, New York

Dear Ms. Pomerance:

We have been working since May of this year to have materials abandoned by Shanco Plastics removed from the site. Your May 29, 1979 letter stated Newco Chemical Waste Systems Incorporated was acting on your behalf for the removal of waste.

To date the majority of material has been removed, however an estimated 20 drums many deteriorated, containing a resinous material remain. Efforts through the facility occupants, "4" Seasons Automotive Products, has not resulted in the proper disposal of this material. We are therefore requesting that Synres Chemical Corporation take an active interest in this problem to ensure the complete clean up of the site. This should be completed by January 1, 1980. If at all possible, we would like to avoid a legal referral to the New York State Department of Environmental Conservation and are looking forward to your continued cooperation.

Very truly yours,

Ronald D. Koczaja
Environmental Quality Engineer
Bureau of Water Resources

RDk:jk

cc: J. Tygert, NYSDEC

COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Ronald D. Koczaja DATE January 21, 1980
TO Donald Campbell
SUBJECT Formal Shanco Plastic Site, abandoned waste disposal

Following discussions with Mr. Daniel Serianni of Newco Waste System Inc. the writer met two of Newco personnel at the Shanco Plastic site. The Newco people were directed to the remaining waste to be removed. Samples were taken of both solid and liquid wastes for Newco analysis. Approximately 40 drums in deteriorated condition are involved. This office will be notified when removal is complete and Mr. Serianni and the writer will conduct a final inspection.

RDK:BO

cc: J. Tygert

*Copy
Return to
Chuck*

KNAB BROS., INC.

1888 MILITARY ROAD • TELEPHONE: 876-1245 • KENMORE DRIVE 14

b
August 12, 1976

Shanco Plastics
2716 Kenmore Avenue
Kenmore, New York 14217

Proposal

Excavate for sludge pit, approximate size is 75' x 20' and 8' deep.

\$500.00

Clear entire lot in rear of building, clearing sludge, plastic, rubble etc., place in sludge pit with bulldozer.

\$280.00

Load and haul excess fill from south side of lot to form two piles and then place into pit. Backfill pipe along Kenmore Avenue (installed by town) and grade to existing surroundings. Furnish and deliver one tandem load of stone, level and grade drive.

\$420.00

Level, grade and clear fill from sludge pit excavation over entire lot at rear of building.

Level and grade lot and drive south of building.

\$480.00

Total price of job:

\$1,680.00

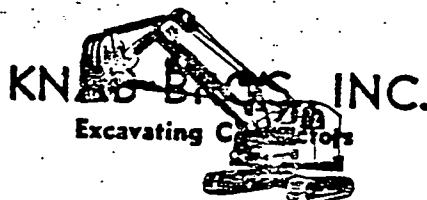
KNAB BROTHERS, INC.

Edward J. Knab
Secretary/Treasurer

(Edward J. Knab)

EDWARD J KNAB
873-1293

ALBERT E. KNAB
773-3955



1800 MILITARY ROAD
KENMORE, NEW YORK 14217
OFFICE: 876-1245

HYDRAULIC BACK HOE
TRENCHING
HYLIFT RENTAL
TRUCKING
BULLDOZING
SEWER CONSTRUCTION
WATER LINES

Nº 9156

To Shanco Plastics

Job 2716 Kenmore Ave.

Invoice Date August 19, 1976

8/16- 8/18	Excavate for sludge pit, approx size is 75' x 20', 8' deep.	\$ 500 00
	Clear entire lot in rear of building, clearing sludge, plastic, rubble etc., place in sludge pit with bulldozer.	280 00
	Load and haul excess fill from south side of lot (two piles) and place into sludge pit. Backfill pipe along Kenmore Ave. (installed by Town) and grade to existing surroundings. Furnish and deliver one tandem load of stone, level and grade drive.	420.00
	Level and grade clean fill (from sludge pit excavation) over entire lot at rear of building. Level and grade lot and drive south of building.	480 00
	Total	\$1,680 00

ENTERED AUG 06 1976

SHANCO PLASTICS & CHEMICALS, INC.

VENDOR	VOUCHER NO.	INVOICE NO.	AMOUNT	DISCOUNT	NET AMOUNT
04960	005831	9150	1,680.00	.00	1,680.00
CHECK NUMBER					
03293			1,680.00 *	.00 *	1,680.00 *

DETACH BEFORE DEPOSITING

SHANCO PLASTICS & CHEMICALS, INC.
111 WALES AVENUE
TONAWANDA, NEW YORK 14150

10-4
220

CHECK NUMBER	MO.	DATE	YR.
03293	09	20	76

PAY ****1,680 DOLLARS 00 CENTS

DOLLARS	CTS.
\$ 1,680.00	

TO KNAB BROS INC
1800 MILITARY ROAD
KENMORE NEW YORK 14217

AUTHORIZED SIGNATURE

NON-NEGOTIABLE

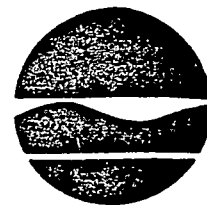
AUTHORIZED SIGNATURE

BROAD STREET OFFICE
MANUFACTURERS AND TRADERS
TRUST COMPANY
TONAWANDA, N.Y.

⑆0220⑉0004⑆

8790 81

New York State Department of Environmental Conservation
600 Delaware Avenue, Buffalo, NY 14202-1073



Henry G. Williams
Commissioner

RECEIVED

FEB 13 1985

January 13, 1984

BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID AND
HAZARDOUS WASTE

Mr. Steven Polowitz
Abbate & Polowitz
396 Ellicott Square Building
Buffalo, New York 14203

Re: Shanco Plastics Site, #915048

Dear Mr. Polowitz:

In response to our telephone conversation of this date, find enclosed the results from the sampling conducted by the U.S. Geological Survey at the subject site under the Niagara River Toxics Investigation.

You will note that the enclosed data is still in a draft form as it has not been subject to the full review process required prior to USGS publication.

Should you have questions regarding the enclosed material, feel free to contact this office at 847-4590.

Yours truly,

Peter J. Buechi, P.E.
Associate Sanitary Engineer

PJB:cag
Enc.

cc: John McMahon



New York State Atlas of Community Water System Sources 1982

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

LIBRARY
WATER ENGINEERING
600 East Main Street
Madison, New York 10040

K5.1
N



ERIE COUNTY

ID NO COMMUNITY WATER SYSTEM

POPULATION

SOURCE

Municipal Community

	Akron Village (See No 1 Wyoming Co, Page 10).	3640	
1	Alden Village.	3460.	Wells
2	Angola Village.	8500.	Lake Erie
3	Buffalo City Division of Water.	357870.	Lake Erie
4	Caffee Water Company.	210.	Wells
5	Collins Water District #3.	704.	Wells
6	Collins Water Districts #1 and #2.	1384.	Wells
7	Erie County Water Authority (Sturgeon Point Intake).	375000.	Lake Erie
8	Erie County Water Authority (Van DeWater Intake).	NA.	Niagara River - East Branch
9	Grand Island Water District #2.	9390.	Niagara River
10	Holland Water District.	1670.	Wells
11	Lawtons Water Company.	138.	Wells
12	Lockport City (Niagara Co).		Niagara River - East Branch
13	Niagara County Water District (Niagara Co).		Niagara River - West Branch
14	Niagara Falls City (Niagara Co).		Niagara River - West Branch
15	North Collins Village.	1500.	Wells
16	North Tonawanda City (Niagara Co).		Niagara River - West Branch
17	Orchard Park Village.	3671.	Pipe Creek Reservoir
18	Springville Village.	4169.	Wells
19	Tonawanda City.	18538.	Niagara River - East Branch
20	Tonawanda Water District #1.	91269.	Niagara River
21	Wanakah Water Company.	10750.	Lake Erie

Non-Municipal Community

22	Aurora Mobile Park.	125.	Wells
23	Bush Gardens Mobile Home Park.	270.	Wells
24	Circle B Trailer Court.	50.	Wells
25	Circle Court Mobile Park.	125.	Wells
26	Creekside Mobile Home Park.	120.	Wells
27	Donnelly's Mobile Home Court.	99.	Wells
28	Gowanda State Hospital.	NA.	Clear Lake
29	Hillside Estates.	160.	Wells
30	Hunters Creek Mobile Home Park.	150.	Wells
31	Knox Apartments.	NA.	Wells
32	Maple Grove Trailer Court.	72.	Wells
33	Millgrove Mobile Park.	100.	Wells
34	Perkins Trailer Park.	75.	Wells
35	Quarry Hill Estates.	400.	Wells
36	Springville Mobile Park.	114.	Wells
37	Springwood Mobile Village.	132.	Wells
38	Taylor's Grove Trailer Park.	39.	Wells
39	Valley View Mobile Court.	42.	Wells
40	Villager Apartments.	NA.	Wells

**The Following
Image(s) are
the Best Copy
Available**

BIEL'S

Table 1. Analyses of substrate samples from Shuman Plastics, Tonawanda, N.Y., May 31, 1983. (Locations shown in fig. 1. Concentrations are in mg/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

	Sample number and depth below land surface (ft)			
	1 3.5	2 2.0	3 2.0	4 2.0
<u>Inorganic constituents</u>				
Molecular sulfur ¹	--	--	--	7,000 Tentative I.D.
<u>Organic compounds</u>				
Priority pollutants	* 170,000/billion > very elevated -			
Phenol	--	--	--	--
Naphthalene	--	--	--	--
Fluoranthene	--	--	--	--
Pyrene	--	--	--	--
Nonpriority pollutants	Will require further analysis @ the property			
1,2,3,4,4A,9,10,10A-Octahydro-1,4A-dimethyl-7-isopropyl-1-phenanthrene	--	--	--	--
carboxylic acid, methyl ester	100,000	--	--	--
Fenchone ¹	200	--	--	--
Unknown hydrocarbons	400,000	--	--	--
Possibly naturally occurring compounds	relatively clean			
Dodecane ¹	200,000	--	--	--
Tridecane ¹	400,000	--	--	--
Tetradecane ¹	500,000	--	--	--
Pentadecane ¹	500,000	--	--	--
Hexadecane ¹	500,000	--	--	--
Heptadecane ¹	400,000	--	--	--
Octadecane ¹	200,000	--	--	--

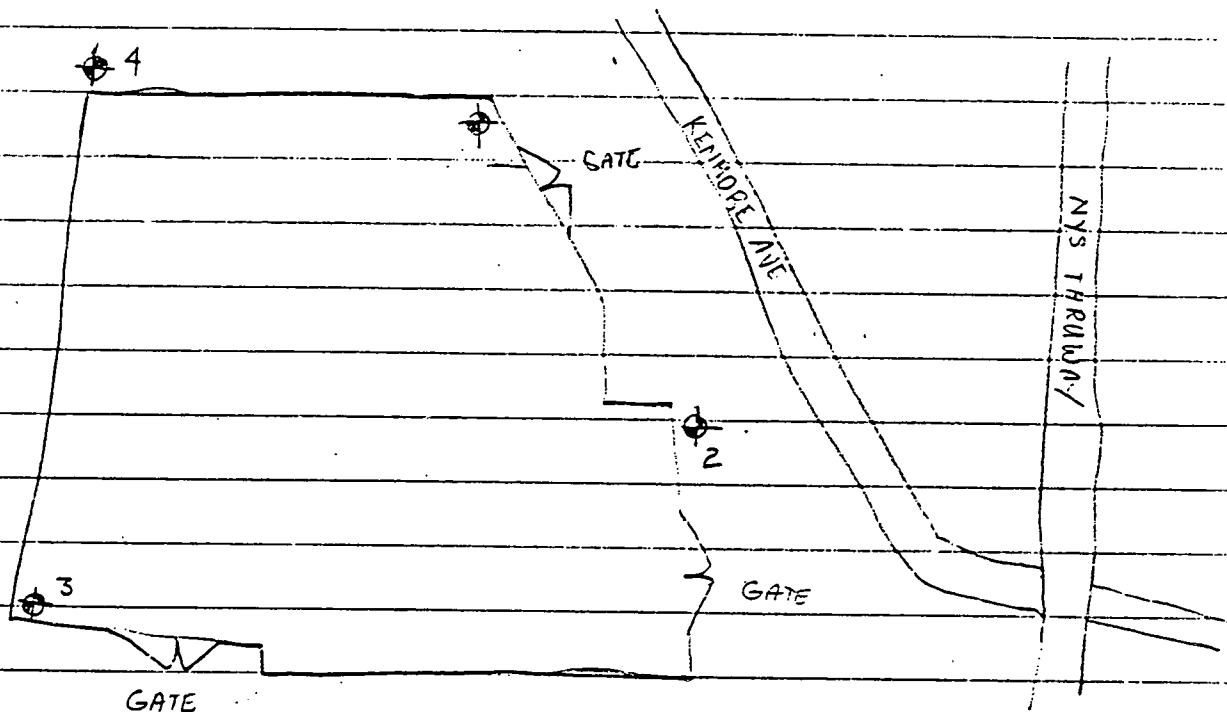
is waiting for
Final report from
Geological Survey

DRAFT

¹ Tentative identification based on comparison with the National Bureau of Standards (NBS) library. No external standard was available. Concentration reported is semiquantitative and is based only on an internal standard. GC/MS spectra were examined and interpreted by GC/MS analysts.

NYSCE
REGION 9
FILES

SHANCO CHEMICALS



- SITE USED TO DISPOSE: PHENOLS, PHENOLIC RESINS AT RATE OF 20 TONS/YR TILL 1976
- UNK. AMOUNTS OF POLYMERIZERS, CARBOLIC ACIDS, AND DRUMMED CHEMICAL WASTES.
- DRUMMED MATERIALS REMOVED FOR PROPER DISPOSAL
- 4 TEST BORINGS DRILLED IN 1933 by USGS

<u>BOREHOLE</u>	<u>DEPTH</u>	<u>DESCRIPTION</u>
1	0-3.5 (3.5)	TOPSOIL, CLAY sample 3.5
2	0-2.0 (2.0)	TOPSOIL, CLAY SAMPLE 2.0
3	0-3.0 (3.0)	FILL, CLAY (RED), SAMPLE 3.0
4	0-4.0 (4.0)	FILL, (BLACK); Clay (Red) Sample 4.0

USGS Niagara River Toxics In

STATE OF NEW YORK

OFFICIAL COMPILATION

OF

CODES, RULES AND REGULATIONS

MARIO M. CUOMO
Governor

GAIL S. SHAFFER
Secretary of State

Published by
DEPARTMENT OF STATE
162 Washington Avenue
Albany, New York 12231

CURRENT PAGES

PART 837

LAKE ERIE (EAST END)—NIAGARA RIVER DRAINAGE BASIN

(Statutory authority: Public Health Law, art. 12)

Sec.	Sec.
837.1 Adopting order	837.4 Table I
837.2 Definitions and conditions	837.5 Map A
837.3 Assigned classifications and standards of quality and purity	837.6 Map B
	837.7 Quadrangle maps

Section 837.1 Adopting order. Pursuant to the authority contained in article 12 of the Public Health Law, the Water Pollution Control Board having made proper studies and having held public hearings on due notice with reference thereto, hereby adopts and assigns the following classifications and standards of quality and purity to the various waters as specifically designated and described below and subject to the definitions and conditions as stated.

837.2 Definitions and conditions. The several terms, words or phrases herein-after mentioned shall be construed as follows:

(a) *Class* as appearing in table I, as the letters A, A-special (International boundary waters), B, C, D or E opposite each specifically designated waters means Class A, A-special (International boundary waters), B, C, D or E, as the case may be, as set forth in Part 701 and 702, *supra*.

(b) *Standards* as appearing in table I, as the letters A, A-special (International boundary waters), B, C, D or E opposite each specifically designated waters shall mean the standards of quality and purity established for class A, A-special (International boundary waters), B, C, D or E, as the case may be, as set forth in Part 701 and 702, *supra*. The symbol (T) after any class designation shall mean that the designated waters are trout waters and that the dissolved oxygen specification for trout waters shall apply thereto.

(c) *Waters index number* as appearing in table I shall mean that number which has been applied to any specifically designated waters as appearing on the maps set forth in section 837.7, *infra*.

(d) *Name* as appearing in table I shall mean the name, if any, by which the specifically designated waters are generally known and which name, if any, appears on the reference maps. In cases of specifically designated waters which have no name, the named tributary to which the unnamed waters are tributary is indicated so far as possible. In the table, an item number is assigned consecutively to each specifically designated waters.

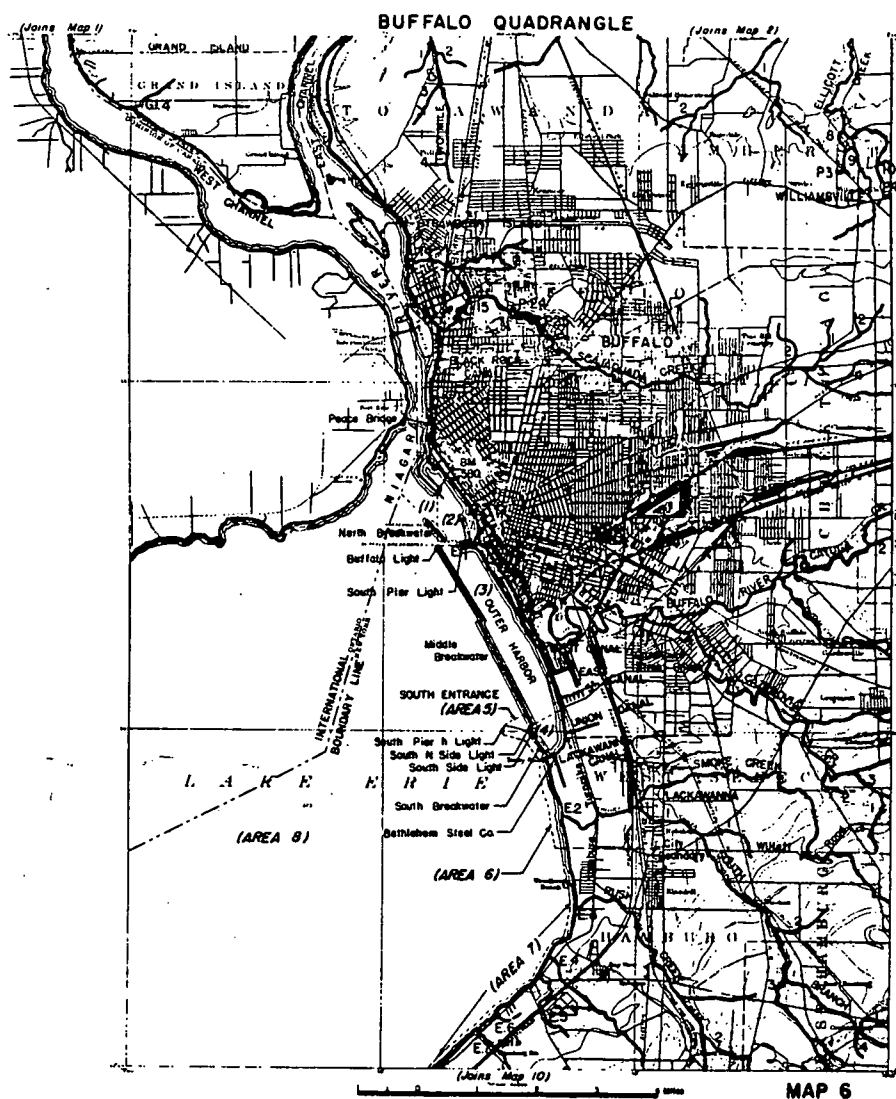
(e) *Description* as appearing in table I shall mean a brief indication as to the location of the specifically designated waters so that by reference to reference maps such waters may be located without reference to their waters index numbers. Entries under column headed "Description" also include designations of sections of a stream to which a particular assignment of a class and standards shall apply.

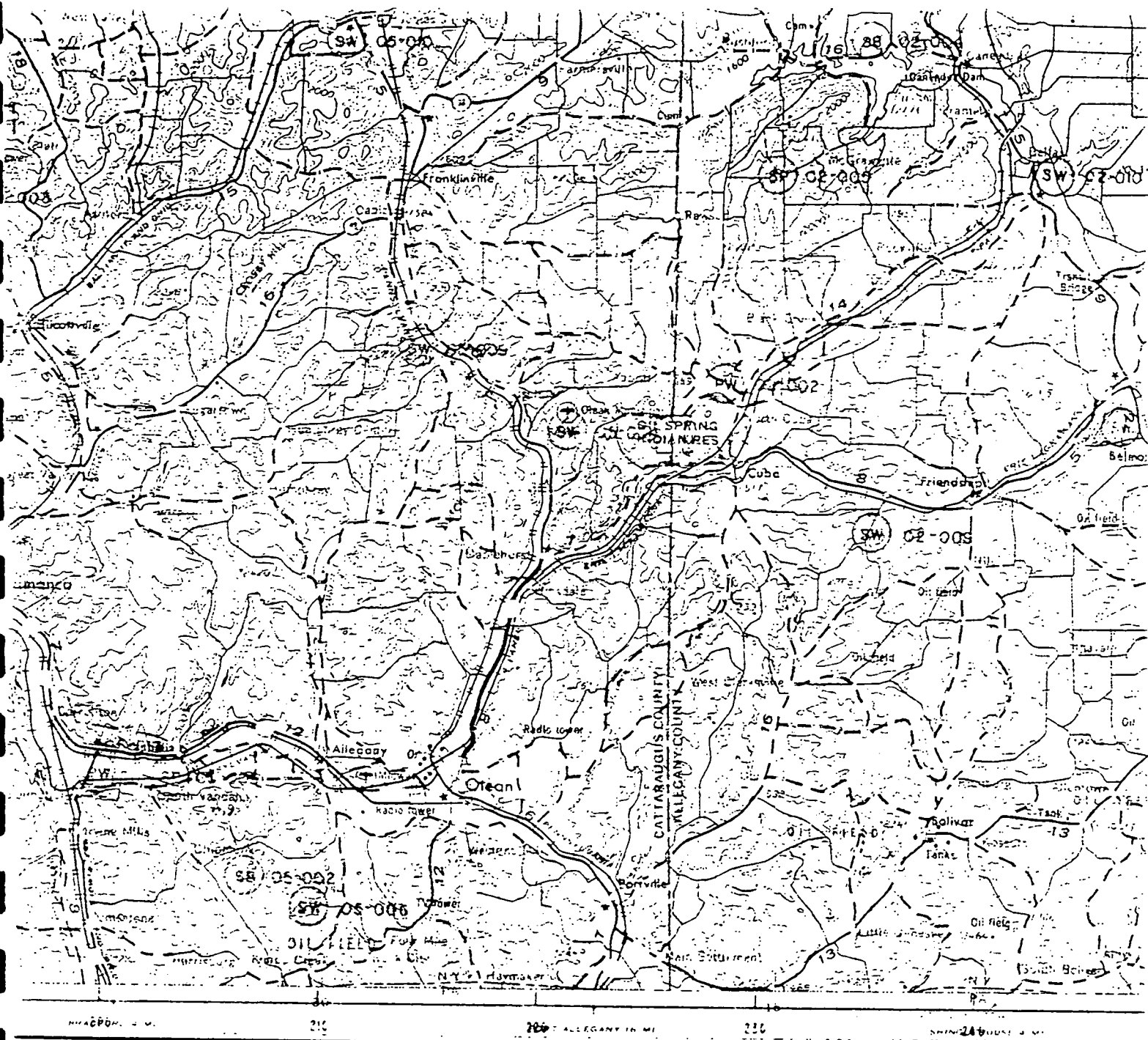
(f) *Map ref. no.* The numbers appearing in the table under the heading designate the following maps which have been partially reproduced as maps 1 to 13, inclusive, with superimposed tracing in black of streams and other waters and waters index numbers in section 837.7, *infra*.

837.4 Table I.

TABLE I
 Classifications and Standards of Quality and Purity Which Are Assigned to All Surface Waters within the Lake
 Erie (East End) - Niagara River Drainage Basin; Erie, Niagara, Genesee, Orleans and Wyoming Counties,
 New York

Item No.	Waters Index Number	Name	Description	Map Ref. No.	Class	Standards
1	0-158	Niagara River American side	Waters from international boundary to American shore between confluence with Lake Ontario and Lake Erie. Latter point is defined as a line running due west from south end of Bird Island tier to international boundary. These waters include all bays, arms, and inlets thereof, but not trib. streams or Black Rock Canal.	1,2,6	A- Special (inter- national boundary waters)	A- Special (inter- national boundary waters)
2	Black Rock Canal	Black Rock Canal	Waters east of Sqaw Island and Bird Island tier between canal locks and a line from south end of Bird Island tier to Buffalo harbor light #6.	6	C	C
3	0-158-1 and 2	Tributaries of Niagara River	Enter Niagara River from east in Town of Lewiston approximately 4.5 and 7.0 miles respectively from mouth.	1	C	C
4	0-158-3	Fish Creek	Enters Niagara River from east approximately 2.0 miles north of Niagara-Lewiston town line.	1,2	D	D
5	0-158-4 and P 1	Tributary of Niagara River	Enters Niagara River from east approximately 0.7 mile north of Niagara-Lewiston town line.	1	D	D





SIGNIFICANT HABITAT OVERLAY NO. 1 OF 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF FISH AND WILDLIFE
BUREAU OF WILDLIFE



PREPARED FOR: SIGNIFICANT HABITAT UNIT
WILDLIFE RESOURCES CENTER
DELMAR, NEW YORK 12054
(518) 457-5782

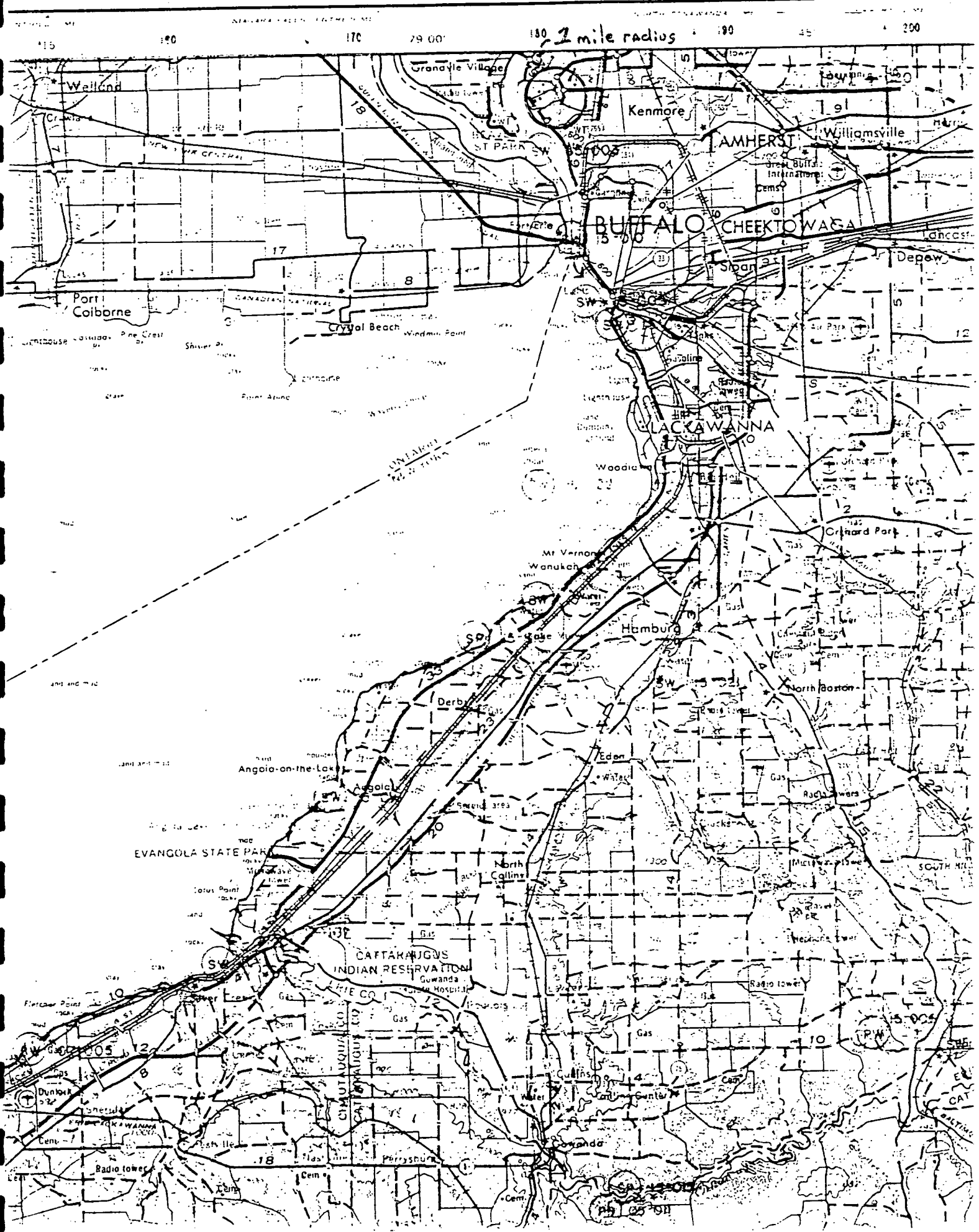
PREPARED BY: HABITAT INVENTORY UNIT

QUAD: BUFFALO

SCALE: 1:50,000 PA. U. S.

AUGUST 1980

REVISED: 12/31/85



PC80-1-334
N.Y.

CHARACTERISTICS OF THE POPULATION
General Population
Characteristics

NEW YORK

1980

Census of Population

U.S. Department of Commerce
BUREAU OF THE CENSUS

EPA FORMS 2070-12 AND 2070-13



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
01 STATE: 02 SITE NUMBER
NY 915048

II. SITE NAME AND LOCATION

01 SITE NAME (Name, address, or specific name of area) Shanco Plastics & Chemicals		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 2716 Kenmore Avenue	
03 CITY Tonawanda	04 STATE NY	05 ZIP CODE 14217	06 COUNTY Erie
07 COUNTY CODE		08 CONG DIST	
09 COORDINATES LATITUDE 42 58 30 N		LONGITUDE 78 54 45 W	

10 DIRECTIONS TO SITE (Starting from nearest public road)

Exit NYS Thruway onto Kenmore Avenue, proceed south on Kenmore. Site is located next to the Thruway overpass.

III. RESPONSIBLE PARTIES

01 OWNER (if owner) Mr. Larry LaPaglia		02 STREET (Business, mailing, residential) 2716 Kenmore Avenue	
03 CITY Tonawanda	04 STATE NY	05 ZIP CODE 14202	06 TELEPHONE NUMBER ()
07 OPERATOR (if owner and different from owner) (Specify)		08 STREET (Business, mailing, residential)	
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
13 TYPE OF OWNERSHIP (Check one) ☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER: (Specify)		☐ G. UNKNOWN	

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check one)

☐ A. RCRA 3001 DATE RECEIVED: MONTH DAY YEAR ☐ B. UNCONTROLLED WASTE SITE (RCRA 103) DATE RECEIVED: MONTH DAY YEAR ☐ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION ☒ YES DATE 03/28/85 ☐ NO MONTH DAY YEAR		02 (Check one) ☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☐ D. OTHER CONTRACTOR ☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER Wehran Engineering CONTRACTOR NAME(S):	
--	--	--	--

02 SITE STATUS (Check one) ☐ A. ACTIVE ☐ B. INACTIVE ☐ C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR ENDING YEAR ☐ UNKNOWN	
---	--	--	--

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Phelolic resin wastes, sulfuric acid, caustic wastes.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

Migration of material via groundwater and (or) surface water routes into commercial and (or) municipal water sources.

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium or unknown, complete Part 2 - Waste Information and Part 3 - Description of Potential Contaminants and Pathways) ☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on site within 60 days) ☐ D. NONE (No further action needed, complete current inspection form)			
--	--	--	--

VI. INFORMATION AVAILABLE FROM

01 CONTACT Dennis G. Fenn		02 OF (Agency/Organization) Wehran Engineering		03 TELEPHONE NUMBER 914, 343-0660	
04 PERSON RESPONSIBLE FOR ASSESSMENT Kevin J. Burns		05 AGENCY Wehran		06 ORGANIZATION Wehran	
07 TELEPHONE NUMBER 914, 343-0660		08 DATE 5/21/86 MONTH DAY YEAR			



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
01 STATE | 02 SITE NUMBER
NY | 915048

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown At This Time

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown At This Time

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 1-2
(Address)

02 ☐ OBSERVED (DATE: 1983)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

Phenols found in substrate samples taken from borings analyzed by USGS.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown At This Time

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown At This Time

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown At This Time



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☐ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Extent Unknown

01 ☐ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (Include names of species)

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Extent Unknown

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Extent Unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(Solid, semi-solid, or liquid materials)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Various drums were placed in pits (1975 - 1977(?)) and strewn about site till they were removed in 1980.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

None

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL

☐ ALLEGED

Unknown

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL

☐ ALLEGED

Drums containing alleged phenols were buried on site.

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

None observed

III. TOTAL POPULATION POTENTIALLY AFFECTED: Over 1,000

IV. COMMENTS

Lack of detailed information hindered complete evaluation of site.

V. SOURCES OF INFORMATION (City records, references, etc., state how, where, when, results)

NYSDEC Region 9 Files



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 915048

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site) Shanco Plastics & Chemicals		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER 2716 Kenmore Avenue				
03 CITY Tonawanda		04 STATE NY	05 ZIP CODE 14217	06 COUNTY Erie	07 COUNTY CODE	08 CONG DIST
09 COORDINATES LATITUDE 42 58 30 N LONGITUDE 78 54 45 W		10 TYPE OF OWNERSHIP (Check one) ☒ A. PRIVATE ☐ B. FEDERAL ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL ☐ F. OTHER ☐ G. UNKNOWN				

III. INSPECTION INFORMATION

01 DATE OF INSPECTION 3 27 85 MONTH DAY YEAR	02 SITE STATUS ☐ ACTIVE ☒ INACTIVE	03 YEARS OF OPERATION 1948 1979 BEGINNING YEAR ENDING YEAR	UNKNOWN
--	---	--	---------

04 AGENCY PERFORMING INSPECTION (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. MUNICIPAL ☐ D. MUNICIPAL CONTRACTOR
☐ E. STATE ☒ F. STATE CONTRACTOR Wehran Engineering (Name of firm) ☐ G. OTHER (Specify)

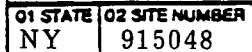
05 CHIEF INSPECTOR Tim Roeper	06 TITLE Geologist	07 ORGANIZATION Wehran Engineering	08 TELEPHONE NO. (914) 343-0660
09 OTHER INSPECTORS Kevin Burns	10 TITLE Geologist	11 ORGANIZATION Wehran Engineering	12 TELEPHONE NO. (914) 343-0660
			()
			()
			()
			()

13 SITE REPRESENTATIVES INTERVIEWED John J. Giardino	14 TITLE Atty. for Site Owner	15 ADDRESS 1002 Chemical Bank Bld. Buffalo, NY	16 TELEPHONE NO. (716) 852-2922
			()
			()
			()
			()
			()

17 ACCESS GAINED BY (Check one) ☒ PERMISSION ☐ WARRANT	18 TIME OF INSPECTION 1:00 pm	19 WEATHER CONDITIONS Clear & Warm
---	----------------------------------	---------------------------------------

IV. INFORMATION AVAILABLE FROM

01 CONTACT Dennis G. Fenn	02 OF (Agency/Organization) Wehran Engineering			03 TELEPHONE NO. (914) 343-0660
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM Kevin J. Burns	05 AGENCY	06 ORGANIZATION Wehran Engineering	07 TELEPHONE NO. 914-343-0660	08 DATE 05 21 86 MONTH DAY YEAR



☐ I. HIGHLY VOLATILE
☐ J. EXPLOSIVE
☐ K. REACTIVE
☐ L. INCOMPATIBLE
☐ M. NOT APPLICABLE

EPA FORM 2070-13(7-91)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE NY	02 SITE NUMBER 915048

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown at this time.

01 ☐ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown at this time.

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☐ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

None

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 1-2
(Acres)

02 ☐ OBSERVED (DATE: 1983)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL ☐ ALLEGED

Phenols found in substrate samples taken from borings analyzed by USGS.

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown at this time.

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown at this time.

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL ☐ ALLEGED

Unknown at this time.



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

Extent Unknown

01 ☐ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)

Extent Unknown

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

Extent Unknown

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
(Spills/Leaks/Seepage/Leaks/Drums)
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

Various drums were placed in pits (1975-1977(?)) and strewn about site till they were removed in 1980.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Unknown

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

Drums containing alleged phenols were buried on site.

III. DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

None Observed

IV. TOTAL POPULATION POTENTIALLY AFFECTED: over 1,000

V. COMMENTS

Lack of detailed information hindered complete evaluation of site.

VI. SOURCES OF INFORMATION (Cite specific references, e. g., SCRs (Reg. 192), Aesthetics Analysis, Reports)

NYSDEC Region 9 files (ECDEP Memos)



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 915048

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
☐ A. NPOES	N/A			
☐ B. UIC	N/A			
☐ C. AIR	N/A			
☐ D. RCRA	N/A			
☐ E. RCRA INTERIM STATUS	N/A			
☐ F. SPCC PLAN	N/A			
☐ G. STATE (Specify)	N/A			
☐ H. LOCAL (Specify)	N/A			
☐ I. OTHER (Specify)	N/A			
☐ J. NONE	N/A			

III. SITE DESCRIPTION

N/A

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	☒ A. BUILDINGS ON SITE
☐ B. PILES			☐ B. UNDERGROUND INJECTION	1
☐ C. DRUMS, ABOVE GROUND	40		☐ C. CHEMICAL/PHYSICAL	
☐ D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL	
☐ E. TANK, BELOW GROUND			☐ E. WASTE OIL PROCESSING	
☐ F. LANDFILL			☐ F. SOLVENT RECOVERY	
☐ G. LANDFARM			☐ G. OTHER RECYCLING/RECOVERY	1 (Acres)
☐ H. OPEN DUMP			☐ H. OTHER (Specify)	
☐ I. OTHER (Specify)				

07 COMMENTS

Drums allegedly buried on site in two locations, none exhumed and removed, drums stored on surface removed in 1980. Sludge pit containing various materials exhumed, and refilled with clean fill in 1976.

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☒ B. MODERATE ☐ C. INADEQUATE, POOR ☐ D. INSECURE, UNSOUND, DANGEROUS

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

Drums containing off spec phenolic resins were stored on the site and allegedly buried on site.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☐ YES ☒ NO

02 COMMENTS

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

NYSDEC Region 9 Files (ECDEP Memos)



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 915048

DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as appropriate)	02 STATUS	03 DISTANCE TO SITE															
<table><tr><td>SURFACE</td><td>WELL</td></tr><tr><td>COMMUNITY A. ☒</td><td>B. ☐</td></tr><tr><td>NON-COMMUNITY C. ☐</td><td>D. ☐</td></tr></table>	SURFACE	WELL	COMMUNITY A. ☒	B. ☐	NON-COMMUNITY C. ☐	D. ☐	<table><tr><td>ENDANGERED</td><td>AFFECTED</td><td>MONITORED</td></tr><tr><td>A. ☐</td><td>B. ☐</td><td>C. ☒</td></tr><tr><td>D. ☐</td><td>E. ☐</td><td>F. ☐</td></tr></table>	ENDANGERED	AFFECTED	MONITORED	A. ☐	B. ☐	C. ☒	D. ☐	E. ☐	F. ☐	A. 1.5 (mi) B. (mi)
SURFACE	WELL																
COMMUNITY A. ☒	B. ☐																
NON-COMMUNITY C. ☐	D. ☐																
ENDANGERED	AFFECTED	MONITORED															
A. ☐	B. ☐	C. ☒															
D. ☐	E. ☐	F. ☐															

GROUNDWATER

04 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) ☐ D. NOT USED, UNUSEABLE

05 POPULATION SERVED BY GROUND WATER	Unknown	03 DISTANCE TO NEAREST DRINKING WATER WELL	Unknown (mi)	
04 DEPTH TO GROUNDWATER	06 DIRECTION OF GROUNDWATER FLOW	06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD OF AQUIFER	08 SOLE SOURCE AQUIFER
+30 (ft)	Unknown	70 (ft)	Unknown (gpd)	☐ YES ☐ NO

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

Locations of nearby wells are unknown at this time.
Industrial wells in use one mile west and east from site, depth of wells 100-140 feet.

10 RECHARGE AREA	11 DISCHARGE AREA								
<table><tr><td>YES</td><td>COMMENTS</td></tr><tr><td>NO</td><td></td></tr></table>	YES	COMMENTS	NO		<table><tr><td>☐ YES</td><td>COMMENTS</td></tr><tr><td>☒ NO</td><td></td></tr></table>	☐ YES	COMMENTS	☒ NO	
YES	COMMENTS								
NO									
☐ YES	COMMENTS								
☒ NO									

SURFACE WATER

12 SURFACE WATER USE (Check one)

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

13 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:	AFFECTED	DISTANCE TO SITE
Niagara River	☐	1.5 (mi)
	☐	(mi)
	☐	(mi)

DEMOGRAPHIC AND PROPERTY INFORMATION

14 TOTAL POPULATION WITHIN	02 DISTANCE TO NEAREST POPULATION						
<table><tr><td>ONE (1) MILE OF SITE</td><td>TWO (2) MILES OF SITE</td><td>THREE (3) MILES OF SITE</td></tr><tr><td>A. +1,000 NO. OF PERSONS</td><td>B. +2,000 NO. OF PERSONS</td><td>C. +10,000 NO. OF PERSONS</td></tr></table>	ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	A. +1,000 NO. OF PERSONS	B. +2,000 NO. OF PERSONS	C. +10,000 NO. OF PERSONS	.5 (mi)
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE					
A. +1,000 NO. OF PERSONS	B. +2,000 NO. OF PERSONS	C. +10,000 NO. OF PERSONS					
15 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING						
+250	50 feet (mi)						

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

Industrial, urban residential



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one) Unknown

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

02 PERMEABILITY OF BEDROCK (Check one) Unknown

☐ A. IMPERMEABLE (Less than 10^{-6} cm/sec) ☐ 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

60 (ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

unknown (ft)

05 SOIL pH

7.45

06 NET PRECIPITATION

30 (in)

07 ONE YEAR 24 HOUR RAINFALL

2 (in)

08 SLOPE

SITE SLOPE
1 %

DIRECTION OF SITE SLOPE
west

TERRAIN AVERAGE SLOPE
1 %

09 FLOOD POTENTIAL

SITE IS IN 100 YEAR FLOODPLAIN

10

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

11 DISTANCE TO WETLANDS (if any present)

None in vicinity
ESTUARINE

OTHER

A. (mi)

B. (mi)

12 DISTANCE TO CRITICAL HABITAT (if endangered species)

None in vicinity

(mi)

ENDANGERED SPECIES:

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS: NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. 50 feet (mi)

B. .5 (mi)

C. 5 (mi) D. 5 (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is situated in an industrialized residential housing area which is part of the western fringe of the City of Buffalo.
West of the site are various refineries and processing plants and ultimately the Niagara River.
In general, the site is flat with no major topographic relief within 1.5 miles of the site.

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

NYSDEC Files
Site visit - March 28, 1985



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - SAMPLE AND FIELD INFORMATION

I IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

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

TYPE	02 COMMENTS
None	
None	
None	
None	

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☐ GROUND ☐ AERIAL	02 IN CUSTODY OF _____ (Name of organization or individual)
03 MAPS ☐ YES ☐ NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

USGS has made 4 borings into the topsoil, as well as conducting substrate analyses. Various hazardous substances were detected; phenols, hydrocarbons.

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

USGS bore hole data, USGS Niagara River toxics investigations, NYSDEC Region 9 Files



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		03 NAME		09 D+B NUMBER	
Larry LaPaglia c/o John J Giordano							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
1002 Chemical Bank Bldg. 69 Delaware Avenue							
05 CITY	06 STATE	07 ZIP CODE		12 CITY	13 STATE	14 ZIP CODE	
Buffalo	NY	14202					
01 NAME		02 D+B NUMBER		03 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		03 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		03 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		03 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) (Last 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	
Shanco Plastics & Chemicals							
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
1036 Commerce Avenue							
05 CITY	06 STATE	07 ZIP CODE		05 CITY	06 STATE	07 ZIP CODE	
Union	NJ	07083					
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 (Check specific references, e.g., state files, airport surveys, reports)

NYSDEC Region 9 Files



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II. CURRENT OPERATOR (Provide if different from owner)

OPERATOR'S PARENT COMPANY (if applicable)

01 NAME Larry LaPaglia c/o John J. Giordano		02 D+8 NUMBER		10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 1002 Chemical Bank Bldg. 69 Delaware Avenue		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY Buffalo		06 STATE NY	07 ZIP CODE 14202	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					

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

PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)

01 NAME		02 D+8 NUMBER		10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

01 NAME		02 D+8 NUMBER		10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD /					

01 NAME		02 D+8 NUMBER		10 NAME		11 D+8 NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					

SOURCES OF INFORMATION (Give specific references, e.g., state files, company records, reports)

NYSDEC Region 9 Files



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II. ON-SITE GENERATOR

01 NAME Shanco Plastics	02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 111 Wales Avenue	04 SIC CODE
05 CITY Tonawanda	06 STATE 07 ZIP CODE NY 14150

III. OFF-SITE GENERATOR(S)

01 NAME	02 D+8 NUMBER	01 NAME	02 D+8 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+8 NUMBER	01 NAME	02 D+8 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 SEC (Chem-Trol)	02 D+8 NUMBER	01 NAME	02 D+8 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 Model City	06 STATE 07 ZIP CODE NY	05 CITY	06 STATE 07 ZIP CODE
01 NAME Frontier	02 D+8 NUMBER	01 NAME	02 D+8 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 Lockport	06 STATE 07 ZIP CODE NY	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (Cite specific references, e.g., ASES files, laboratory analyses, reports)

NYSDEC Region 9 Files



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

L IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Unknown

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Unknown

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

Unknown

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☒ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE 9/79 - 3/80

03 AGENCY ECDEP

40 Drums excavated and transported to CECOS.

01 ☒ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE unknown

03 AGENCY _____

Drums containing various materials were buried on site.

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None



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

L IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 915048

II PAST RESPONSE ACTIVITIES (CONTINUED)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

No

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

None

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, agency files, records)

NYSDEC Region 9 Files



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

I. IDENTIFICATION

01. STATE	02. SITE NUMBER
NY	915048

II. ENFORCEMENT INFORMATION

01. PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐ NO

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

Legal action to expedite removal of materials on site was suggested by Erie County Department of Environment and Planning. It is not known whether this was pursued or not. No record exists in the NYSDEC files.

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

NYSDEC Region 9 Files



**6.0 ASSESSMENT OF DATA ADEQUACY
AND RECOMMENDATIONS**

6.0 ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 GROUNDWATER ROUTE

With no analytical data available to confirm groundwater contamination attributable to the site, the HRS score was developed based on assumptions of soil and groundwater characteristics. Some general information was available from the following sources: (1) New York State Atlas of Community Water System Sources, 1982; (2) Erie-Niagara Basin Groundwater Resources Report, 1968; and (3) Erie County soil maps, which provided subsurface hydrogeologic data for areas surrounding the site. These sources, however, could not verify the direction or gradient of flow for groundwater at the site. In addition, the classification of the soils was too general to accurately determine the permeability of the soils at the site.

A preliminary score of 5.34 was computed for S_{gw} , mainly based on the waste materials assumed to be present and their inferred proximity to the water table. In order to verify the potential threat of groundwater contamination, the Phase II hydrogeologic investigation would be designed to achieve the following objectives:

1. Determine depths to groundwater at and around the site.
2. Identify the soils in the unsaturated zone and determine their permeability characteristics.
3. Verify the potential groundwater migration routes.
4. Evaluate possible fluctuations in the water table and river level due to floods, pumping or other influential factors.

6.2 SURFACE WATER ROUTE

The site is located on the Niagara River floodplain, approximately 1.5 miles east of the river. Surface drainage from the site is interpreted to be to the southwest, towards the Niagara River. The intakes for the municipal water systems that serve the region are located at sufficient distances from the site as to be considered not at risk. Additionally the potential for off-site contamination of nearby surface water attributable to this site is considered minimal.

Data was sufficient to calculate a preliminary score of $S_{sw} = 4.28$. In order to verify the potential threat to surface water, the Phase II hydrogeologic investigation would encompass the following:

1. Evaluate surface drainage patterns in detail.
2. Sample and analyze shallow drainage swales adjacent to the site.

6.3 AIR ROUTE

No measurable readings of organic vapors were detected with the HNU Photoionizer during the site inspection, so the air route score was 0. Additional monitoring should be performed during the Phase II investigation to check for possible contamination resulting from disturbance of the ground surface by subsurface drilling and also as a standard safety measure for personnel involved in the investigation.

6.4 FIRE AND EXPLOSION

There has been no fire or explosion threat certified by a local fire marshall at the site, resulting a score of zero. The reported wastes are not known to be highly reactive or ignitable, but final determination of a fire or explosion threat can only be made after further investigation to verify the actual waste types disposed of.

6.5 DIRECT CONTACT ROUTE

There was no evidence of exposed waste during the site inspection and there are no records of any direct contact causing injury to humans or animals. Although the site is covered, the adequacy of this cover cannot presently be determined. The Phase II work plan should include analysis of the thickness and quality of the cover soil at the site to determine the actual potential threat by direct contact with the wastes.

7.0 PHASE II WORK PLAN

7.0 PHASE II WORK PLAN

INTRODUCTION AND OBJECTIVES

During the Phase I investigation, it was determined that for the Shanco site there is insufficient data to accurately assess the potential threat to groundwater. This Phase II work plan is designed to further characterize the site as follows:

- . Identify the types and concentrations of allegedly disposed materials.
- . Further identify subsurface hydrogeologic conditions at the site.
- . Determine the presence or absence of contamination in the groundwater and surface water.
- . Evaluate whether or not contamination from the site poses any environmental or health concerns.
- . Provide a final Hazard Ranking Score (HRS).
- . Provide NYSDEC with a preliminary remedial cost estimate.

Procedures to be utilized for sampling and analysis, as well as health and safety, will be conducted in conformance with the consultant's generic procedures previously submitted to NYSDEC.

WORK PLAN

To accomplish the above mentioned objectives, the following tasks and subtasks are recommended:

Task 1 - Preparation of Site-Specific Work Plans

Wehran will prepare and submit for NYSDEC approval revised work plans for those sites NYSDEC recommends for Phase II investigation. These plans will include site-specific:

- . Scope of work
- . Health and safety plan

- . Sampling and analytical plan
- . Detailed cost estimate

All plans will conform with the contractor's previously submitted established procedures.

Task 2 - Identify, Obtain and Evaluate Additional Data

To consider the possible cost for future remedial investigations, it will be necessary to collect and evaluate additional information relating to the area surrounding the Shanco site including but not limited to:

- . Uses of local groundwater and the nearby Niagara River
- . Available regional water supply sources
- . Boring logs, if available, for all wells in the immediate area

Task 3 - Hydrogeologic Investigation

Data Evaluation

The information obtained in Task 2 will be used to aid in the location of test borings and monitoring wells.

Test Borings

In order to define the geology beneath the subject site, three shallow borings to 45 feet and three deep borings to 75 feet will be drilled under the continuous supervision of Wehran Engineering. Split-spoon samples will be collected at standard five-foot intervals in accordance with the procedures of the Standard Penetration Test. Soils will be visually classified in the field for grain size (according to the Unified Classification System) and lithology. Representative portions of each sample will be stored in moisture-tight jars at the office of Wehran Engineering in Middletown, New York, for future reference. In addition, it is anticipated that three samples will be analyzed in the laboratory for grain size, Atterberg limits, and hydrometer.

If a confining layer or other strata determined to be of particular significance to the migration of contamination is encountered, additional investigations will be conducted. These additional investigations will be performed as an extra, subject to NYSDEC approval, and may include the collection of undisturbed soil samples using Shelby tubes, continuous split-spoon sampling, and laboratory permeability testing.

Monitoring Well Installation

Monitoring wells will be installed in each of the six borings. All wells will be constructed using two-inch diameter, Schedule 40, threaded flush-joint PVC pipe and fifteen-foot long factory slotted PVC screens. The screened interval will be determined in the field according to the hydrologic conditions encountered. A sand pack will be placed around each screen to prohibit clogging of the screen openings. A bentonite pellet seal will be placed at the top of the sand to isolate it from upper soil zones. The annular space will be filled to the surface with a bentonite-cement grout using the "Tremie" method. A steel casing with a protective lock will then be cemented in place to prevent vandalism.

Survey Well Locations and Elevation

A survey will be conducted to determine the relative elevations of both ground surface and "top of casing" at each boring location. The location of each well will also be determined with sufficient accuracy for plotting on a site map.

In Situ Permeability Determinations

A variable head borehole test will be conducted in order to measure the in situ permeability of the soils at each monitoring well location. This test will involve recording the recovery of water level after bailing. Prior to the procedure, the static water level will be measured and recorded to facilitate a determination of groundwater flow direction.

Groundwater Sample Collection

Groundwater samples will be collected for analysis from each of the six wells using the following procedure.

- . The static water level in each well will be measured and recorded.
- . Each well will be purged of at least three well volumes of water using a separate teflon bailer for each well. Each bailer will be cleaned in the laboratory prior to use.
- . Samples will be collected from each well by the use of the above-mentioned bailer. Each sample will then be placed in the appropriate container, stored on ice, and transported to the lab in accordance with standard chain-of-custody protocol.

The samples will be analyzed for the Hazardous Substances List (HSL), Priority Pollutant Heavy Metals and water quality indicator parameters including: COD, pH, conductivity, chlorides, TSS, TDS, and iron.

The following assumptions have been made in the development of this scope of services and the associated costs:

- . All drilling locations are accessible to a truck-mounted drilling rig as determined by the drilling subcontractor.
- . The soils do not contain excessive amounts of cobbles or boulders.
- . It is anticipated that the three shallow wells and three deep wells would be approximately 45 and 75 feet deep, respectively, and that twelve normal, eight-hour days would be required for their installation.

Geophysical Survey

A terrain conductivity or earth resistivity survey will be conducted in order to obtain additional subsurface information. Both of these geophysical methods evaluate changes in the earth's resistance/conductance to an induced electrical current which may reflect changes in stratigraphy and/or groundwater quality. The survey would be implemented in areas of the site

deemed appropriate based on existing geologic and water quality data. In addition, an effort would be made to locate the former sludge pit using geophysical methods.

Task 4 - Surface Water/Soils Investigation

An areal composite soil sample needs to be collected to determine if the sludge pit is leaching contaminants. The soil sample will be analyzed for the HSL and Priority Pollutant Metals. Surface water and sediment samples of the ponded area on site will be collected and analyzed for the same parameters indicated above. Additional surface soil sampling to locate areas of elevated contamination will be undertaken as needed.

Task 5 - Qualitative Air Monitoring

Throughout all Phase II activities conducted at the site, air monitoring will be performed using the HNU Systems Photoionizer, both upwind and downwind of the site. If consistent, unusually high values are observed (five to ten ppm above background) with the HNU, a more quantitative air analysis would be triggered as an extra, subject to NYSDEC approval.

Task 6 - Laboratory Analysis

During the field investigation the following samples will be collected for analysis by a subcontractor laboratory:

- Nine water samples (six wells, one surface water, one field blank, one trip blank) for HSL, Priority Pollutant Heavy Metals and water quality indicator parameters
- One sediment sample for HSL and Priority Pollutant Heavy Metals
- One soil sample for HSL and Priority Pollutant Heavy Metals

Task 7 - Preliminary Remedial Cost Estimate

The consultant will consider the possible cost for future remedial investigations, engineering plans and specifications, and the physical remediation anticipated for the site. A range of possible remedial costs will

be developed using best engineering judgment and previous experience with possible feasible remedial schemes. This task is not intended to perform a cost-effectiveness analysis of feasible remedial alternatives but rather to provide a cost range estimate adequate for legislative budget reporting purposes.

Task 8 - Phase II Report Preparation

Under this task, the engineer will compile a final report for the site. This report will contain the following:

- . Phase II information developed under Tasks 1 through 7
- . Final Site Assessment and HRS

Extras

This work plan has been developed based upon available site information as contained in the Phase I report. If conditions encountered during the Phase II investigation indicate the need for additional services or extras such as difficult drilling, poor access, etc., not included within the original scope of work, the costs will be negotiated with the NYSDEC. Such extra services will be performed on a time and materials basis with prior authorization by the NYSDEC project officer.

NYSDEC SUPERFUND INVESTIGATIONS
PHASE II - TOTAL PROJECT COST SUMMARY¹
SITE: SHANCO

Wehran's Labor and Expenses	\$ 56,000.00
Subcontractors:	
Driller	53,000.00
Laboratory	<u>22,000.00</u>
 TOTAL ESTIMATED COST	 \$ 131,000.00*

¹This cost estimate does not include any provisions for inflation and salary adjustments and can be considered current for approximately three months.

*Note: This cost estimate has been developed for budgeting purposes only. Should this site be selected for Phase II investigation, Wehran will develop a detailed cost estimate for NYSDEC approval.

APPENDIX

TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC Phase I Round 3

PROJ. No. 04339 EX

PROJECT Shanco Plastics

DATE May 28, 1985

CALL TO/FROM Mr. Anthony Voell

TIME 1405

REPRESENTING Erie Co. DEP

PHONE No. 716-846-6370

SUMMARY OF CONVERSATION:

Discussed: info in Erie Co. files concerning Shanco county profile - initial report - profile report.

bedrock geology - >10'
groundwater at site - unknown
monitoring wells - none

municipal water supplies - several intakes along Niagara River.
industrial wells? - unknown

16-18 pages available in County Files @ 25¢ each.

COPIES TO: _____

BY: K. Burns

Kevin J. Burns (m)

WE WEHRAN ENGINEERING
CONSULTING ENGINEERS

TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC Phase I Round 3

PROJ. No. 04339 EX

PROJECT Shanco Plastics

DATE April 7, 1986

TIME 0945

CALL TO/FROM Mr. Ron. Koczaja

REPRESENTING Erie Co. Dept. of Env. Planning

PHONE No. 716-846-6966

SUMMARY OF CONVERSATION:

- Queried Mr. Koczaja about allegation by former Shanco employee concerning buried drums.
- He indicated that to his knowledge allegation not followed up - he never saw the fact sheet.
- He indicated that the number of barrels removed was 40 - these were decomposed hardened resins stored along north wall of building.
- 2 - 3 barrels removed contained new raw material.
- Everything that was removable was removed (all the surface storage).
- No removal of alleged buried drums was accomplished.
- Material buried under present warehouse - remains.
- Probably hardened off-spec resins
- Indicated that owing to the nature of the material (hardened) the threat to ground water will be small - area is served by municipal water.

COPIES TO: _____

BY: K. Burns

Kevin J. Burns 

WE WEHRAN ENGINEERING
CONSULTING ENGINEERS

TELEPHONE CONVERSATION MEMORANDUM

CLIENT NYSDEC Phase I Round 3

PROJ. No. 04339 EX

PROJECT Shanco Plastics

DATE April 4, 1986

TIME 1455

CALL TO/FROM Mr. Ahmed Tayyebi

REPRESENTING NYSDEC - Region 9

PHONE No. 716-847-4585

SUMMARY OF CONVERSATION:

- Discussed Mr. Tayyebi's 4-28-83 memo concerning Shanco Plastics Site.
- Mr. Tayyebi indicated that Erie Co. DEP contacted former Shanco employee who stated drums were buried on the site.
- He indicated that Ron Koczaja (ECDEP) would know about this matter.
- He confirmed that 40 drums removed from an open area and that some were exhumed and removed for disposal.
- Was aware of Joyce Pomerance letter dated 1-12-79 alledging that drums may have been buried under existing buildings prior to their construction. Mr. Tayyebi felt that this was a different location than that referred to in Bailey memo 1-24-83.

COPIES TO: _____

BY: K. Burns

Kenneth J. Burns

**The Following
Image(s) are
the Best Copy
Available**

BIEL'S

(Shanco Plastics & Chemicals)

June 28, 1976

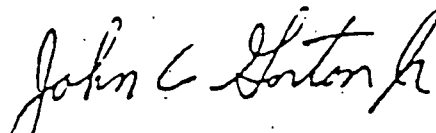
REPORT OF ANALYTICAL TESTING

Date Received: 6/24 Requested By: Mr. Orbanac
Code Number: 0018 (soil sample) Shanco Plastics & Chemicals
Town of Tonawanda, N.Y.

ANALYTICAL RESULTS

<u>Parameter-mg/kg</u>	<u>Wet Basis</u>	<u>Dry Basis</u>
pH	7.45	-
Acidity	147.9	191.8
Phenol	45.3	58.8

The analytical procedures are in accordance with "Methods for Chemical Analysis of Water and Wastes", 1974, EPA, and "Standard Methods for the Examination of Water and Wastewater", 13th edition.


John C. Gorton, Jr.
Laboratory Director

COMPANY NAME
HANCO PLASTICS & CHEMICALS INC.

ICS NO. REGION BASIN COUNTY SIC CODE
77586 09 01-01 14 2821

ADDRESS
2716 KENMORE AVE.

CITY
TONAWANDA

STATE ZIP CODE PRINCIPAL BUSINESS OF COMPANY
NY 14150 RESIN MFG.

IND. PERMIT NO. MUNI PERMIT NO. AIR FACILITY CODE EPA ESTAB. NO.
0000000 0026395 141600 1290 - -

RECEIVING WATER
NIAGARA RIVER

WATER BODY I.D. USGS QUAD.
0101 0001 I-05-4

NYDEC-BY JOHN PULASKI
DATE: 8/25/78

- 93 -

INDUSTRIAL CHEMICAL SURVEY - POSITIVE RESPONDERS TO ICS
FOR REGION NO. 9

CHEMICAL NAME	CAS NO.	AVG. ANNUAL USE	UNITS: G=GALLONS, L=POUNDS	USE CODE
PHthalic ANHYDRIDE	000085-44-9	46,925	L	REA
P-TERT BUTYL PHENOL	000098-54-4	-1	L	REA
MALEIC ANHYDRIDE	000108-31-6	77,564	L	REA
PHENOL	000108-95-2	75,980	L	REA
OCTYLPHENOL	027193-28-8	-1	L	REA
BISPHENOL ANHYDRIDE 171	F99000-00-0	-1	L	REA

To: Mr. T. O'Connor
Mr. N. Orbanac

cc: Mr. F. Reese
Mr. C. v Aalten
Mr. J. Smolders

Date: July 7, 1976

Dict: R. Rijnart

Typ.: lr

Subject: Visit Shenco 6/28/76

1. Water pollution:

To meet the requirements of Town of Tonawanda, Sanitary department, Mr. O'Grady, the following actions are taken or will be undertaken as soon as possible.

- 1.1 A modified settling basin has been installed, size 6'6" x 6' x 6' (approximate sized).
- 1.2 The phenol and phenol resin based landfill behind the factory will be removed and replaced with clean soil.
- 1.3 Around the flaker a retain dike will be installed and an overflow system with a skimming device will be included in the "dike". The sides of the flaker will be closed-off by means of removable plates. It is essential to reduce the amount of solid resin and resin dust falling on the floor and subsequently being washed into the sewer. A heating coil will be installed inside diked area (freezing;)
- 1.4 In the future the factory floor will be "dry cleaned" and not washed down, to minimize the amount of powdered resin from entering into the sewer.
- 1.5 It is essential to minimize the amount of resin dust on the areas surrounding the factory, which subsequently are washed into the storm sewer by means of the storm water. The new flaker will reduce the amount of resin dust by avoiding the crushing of the resin and clean-up of the resin pans.
- 1.6 The open sewer trenches in the factory will be blocked off as much as possible, to avoid the solid resin and dust from running into the sewer.
- 1.7 It is essential to collect all the reaction water from the receiver. For the time being to be stored in drums but eventually a storage tank will be required for subsequent removal by an authorized company or for incineration at the premises.

HAZARD ANALYSIS

Site: #915048

Owner:

SYRNES Chemical

Surrounding Land Use:

Residential 1/8 mile to East,
Industrial 1/4 mile to West and
1/2 mile to South, adjacent to
commercial on the North.

Anticipated Effect of Disposal Site on Groundwater Drinking Supplies:

None - area served by surface source.
Public Water Supply.

Surrounding Area:

None - site inactive

Airborne Transport of
Pollutants:

None - site inactive

Need for Immediate Action:

None

Need for Future Action:

None recommended by DEP

Responsible Agency:

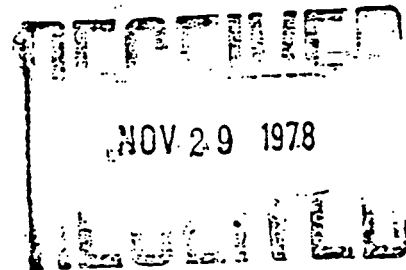
COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Anthony T. Voell DATE November 27, 1978
TO Peter Millock, Inter-agency Task Force - Niagara Falls
SUBJECT Abandoned Chemical Company

Paul MacClennan of the Buffalo Evening News mentioned in a telephone conversation of 11/24/78 that Shanco Chemical Corporation of Tonawanda may have buried drums of chemicals on their plant site. The company has since gone out of business, he said he may have mentioned this to State representatives previously, Please accept this memorandum as a reminder regarding this site.

AVoell
Anthony T. Voell, P.E.
Deputy Commissioner



cc: Donald Tamol

ATV/maa

SYNRES CHEMICAL CORPORATION



P. O. BOX 3112, 1036 COMMERCE AVENUE, UNION, NEW JERSEY 07083
TELEPHONE 201-964-5280 TELEX 138293 CABLE ADDRESS: SYNRESFCD UNON

BUREAU OF PUBLIC WATER SUPPLY

From _____
To _____
Other _____
Cross Ref. _____

RECEIVED

JAN 18 1979

OFFICE OF
GENERAL COUNSEL

January 12, 1979

Ms. Judith S. Schreiber
Interagency Task Force on
Hazardous Wastes
Main Post Office Box 561
Niagara Falls, New York 14302

Dear Ms. Schreiber:

This is in answer to your communication dated November 30, 1978. In response to questions numbered:

1. You will find attached hereto as Appendix "A" a detailed company history.
2. & 3. Attached hereto as Appendix "B" are:
 - a) Excerpt of memorandum of Mr. R. Rijnart dated July 7, 1976, and
 - b) Copies of proposal from, invoiced by, and check payable to Knab Bros., Inc. which are self-explanatory.

R. Rijnart is Vice President Operations of Synres Chemical Corporation, T. O'Connor was General Manager of our Shanco division until May 5, 1978, and N. Orbanac was Manager of the Tonawanda plant until October, 1977.

Mr. Orbanac recently volunteered the information that in the early 1950's, prior to the construction of the present warehouse at the Tonawanda plant, a hole was dug on the site on which the warehouse now stands, and drummed wastes were deposited therein.

4. Our records go back as far as 1970. For any time before that, we are unable to comment as to the waste haulers used by Shanco Plastics and Chemicals.

Ms. Judith S. Schreiber
January 12, 1979
Page 2

Attached hereto as Appendix "C" are lists of invoices, dates, numbers and amounts covering waste disposals by a) Chem-Trol and b) Frontier.

The Tonawanda plant produced and the waste haulers removed:

- a) water with phenol rests and possibly traces of sulfuric acids, and
- b) rosin and resin dusts from sweeping of floors.

Cordially yours,

Joyce Pomerance

Joyce Pomerance
Controller

smg
enclosures

cc: Mr. James Nesper
Mr. William Bowden

APPENDIX 'A'

HISTORY SHANCO PLASTICS & CHEMICALS, INC.

1. FOUNDED: May 7, 1948
2. INCORPORATED: May 7, 1948
State of Delaware
3. PURCHASE BY SYNRES: January 15, 1975
4. STATUS OF DIVISION: On December 31, 1976, Shanco Plastics & Chemicals, Inc., was merged into Synres Chemical Corporation and continued as: Shanco Plastics & Chemicals, Division of Synres Chemical Corporation.
5. OFFICES:
 - (1) Through December 31, 1976 at:
111 Wales Avenue
Tonawanda, New York, and
 - (2) from January 1, 1977 on at:
1036 Commerce Avenue
Union, New Jersey 07083
6. PRODUCTION:
 - (1) Company started production after its incorporation at 2716 Kenmore Avenue, Tonawanda. Products manufactured were modified rosin esters used in floor polishes, adhesives, printing inks.
 - (2) After acquisition, Synres continued production until October, 1977, when it ceased manufacture at Kenmore Avenue to relocate manufacture of the resins to Kenilworth, New Jersey. The Kenmore Avenue plant has been inactive since October, 1977.

APPENDIX "C"

CHEM-TROL

4a.

<u>Date Rec'd.</u>	<u>Invoice No.</u>	<u>Invoice Date</u>	<u>Amount</u>
7/13/70	1006-D	7/09/70	\$127.05
1/25/71	1090-D	1/15/71	268.80
11/10/71	A-1533-D	10/30/71	271.36
11/10/71	A-1533-D	10/30/71	271.36
1/16/72	A-2019	5/31/72	676.24
6/16/72	A-2019	5/31/72	676.24

To

From

file
Shanco Plastics
complaint 00985

RJK

X

Subject

- No. 9 & 10 FOLD

MESSAGE

Site Reinspected 5/15/79 - drums
labeled carbonic acid class B' press not
secured as requested. other drums not secured
as well. No response received to letter of 5/4/79

Date 5/15/79 Signed

RJK

REPLY

cc D.C.

- No. 9 FOLD

- No. 10 FOLD

Date

Signed

Wilson Jones Company

GRAYLINE FORM 44-102 3-PART
© 1978 • PRINTED IN U.S.A.

RECIPIENT—RETAIN WHITE COPY, RETURN PINK COPY

SYNRES CHEMICAL CORPORATION



P. O. BOX 3112, 1036 COMMERCE AVENUE, UNION, NEW JERSEY 07083
TELEPHONE 201-964-5280 TELEX 138293 CABLE ADDRESS: SYNRESFCD UNON

T. Tona

May 29, 1979

Mr. Ronald D. Koczaja
Environmental Quality Engineer
Bureau of Water Resources
Department of Environment and Planning
95 Franklin Street
Buffalo, New York 14202

Re: Your letter of 5/23/79
Waste Materials
Shanco Plastics Facility

Dear Mr. Koczaja:

In December, 1978 and January, 1979 we contracted with Newco Chemicals Waste Systems, Inc. to remove the waste materials at our Tonawanda facility. In the course of the removal by Newco, the drums mentioned in your letter were inadvertently missed.

We have requested that Newco take samples of the material and we expect to have an answer from them by the end of next week as to the exact method of disposal.

We apologize for the fact of these drums still being on our property, but it had really been our impression that Newco had done the waste removal job completely in January. If you require any further information about the nature of the drums, Mr. Zawadsky of Newco Chemicals Waste Systems, Inc. has the responsibility for the analysis at this time.

Very truly yours,

Joyce Pomerance

JOYCE POMERANCE

JP/dlb

**The Following
Image(s) are
the Best Copy
Available**

BIEL'S

June 20, 1979

4 Seasons Automotive Products
2716 Kenmore Avenue
Tonawanda, New York 14217

Attn: Mr. Peter Fleischer

Re: Abandoned Chemicals
and Waste - former
Shanco Plastics facility

Dear Mr. Fleischer:

This letter will confirm our discussions during my
June 18, 1979 inspection.

It is our understanding that Newco Chemical Waste
Systems evaluated and removed approximately 450 drums of material
for disposal. A small number of the drums which had apparently
been abandoned were retained by your firm.

Our inspection found that a small number of drums and
a quality of waste material had been overlooked during the removal
operation. Specifically two drums, partially hidden under wood
pallets, labeled 100% phenol must be removed in addition to a
substantial accumulation of rusted drums and resinous materials.
You indicated that this would be taken care of.

The inspection found that substantial work has been
accomplished and efforts are under way to effect total clean-up.
Please inform this office when the clean up has been completed.

Very truly yours,

Ronald D. Koczaja
Environmental Quality Engineer
Bureau of Water Resources

RDK:lao

cc: R. Mitrey
L. Clare
D. Campbell

To file - Shamo Plastic

Speed Letter

complaints

From

DOXO C. J. J.

Subject

- No. 9 & 10 FOLD

MESSAGE

4R Zawadsky of Newco Waste Systems
reported that Gus Green will be returning to the
Shamo site to remove the remaining wastes in
the near future. An itemized report of the
material removal, date, and disposal will be submitted
ppm 7-7-79 Date 6/29/79 Signed DOXO C. J. J.

REPLY

D. C.

- No. 9 FOLD

- No. 10 FOLD

Date

Signed

Wilson Jones Company
GRAYLINE FORM 44-102 3-PART
16-78 • PRINTED IN U.S.A.

RECIPIENT—RETAIN WHITE COPY. RETURN PINK COPY

December 10, 1979

Synres Chemical Corporation
1036 Commercial Street
Union, New York 07088

Attn: Ms. Joyce Pomerance

Re: Waste Materials
Shanco Plastics Facility
(Former)
2716 Kenmore Avenue
Tonawanda, New York

Dear Ms. Pomerance:

Thank you for your prompt response to our November 29, 1979 letter.

It is my understanding that Synres Chemical will apply for a N.Y.S. Industrial Waste Scavenger hauler's permit and intends to remove the remaining material for disposal in New Jersey.

We request that you notify this office the date for clean-up and removal so that we may monitor the action.

Very truly yours,

Ronald D. Koczaja
Env. Quality Engineer
Bureau of Water Resources

ROK:ao

cc: J. Tygert
D. Campbell



COUNTY OF ERIE

EDWARD J. RUTKOWSKI
COUNTY EXECUTIVE

DEPARTMENT OF ENVIRONMENT AND PLANNING
95 Franklin Street - Buffalo, New York 14202

JOAN E. LORING
COMMISSIONER
(716) 846-6725

March 4, 1980

DIVISION OF ENVIRONMENTAL CONTROL
ANTHONY T. VOELL, P.E.
DEPUTY COMMISSIONER
(716) 846-4370

Cecos International
4626 Royal Avenue
Niagara Falls, New York

Attn: Mr. D. Serianni

Re: Former Shanco Plastic
facility, Kenmore Ave., Tonawanda
Abandoned Waste disposal

Dear Mr. Serianni:

As discussed during the February 28, 1980 site inspection it appeared that the abandoned waste materials for which proper disposal was requested in May 1979 had been removed. The clean up effort involved numerous drums of unknown content and resinous material. Investigation of past waste burial on site was not addressed or requested as part of this action.

Drummed material on site at the time of inspection were not those identified for removal but assumed to be associated with activities of the current property leasee, 4 Seasons Automotive Products Inc.

Should you have any questions or comments feel free to contact this office.

Very truly yours,

Ronald D. Koczaja
Env. Quality Engineer
Bureau of Water Resources

RDk:ao

cc: J. Tygert
D. Campbell
Synres Chemical

COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Don Campbell, P.E. DATE June 5, 1981
TO Lawrence G. Clare, P.E.
SUBJECT SHANCO PLASTICS

Inspection Date: June 4, 1981

Site # 915048, page B-9-115. Reference site appeared devoid of any drums observed in earlier inspections.

Property use is that of diesel engine repair shop.

Present owner (Larry LaPaglia) arranged with realtor to have all drums hauled away by CECOS.

No Leachate observed. No evidence of prior Leachate conditions.

Sampling not recommended.

The appropriate section of aerial photograph # 19N311, dated 1972, is enclosed with this report.

DC:rb

Enc.

[Handwritten signature]



LANGDON MARSH
EXECUTIVE DEPUTY COMMISSIONER

STATE OF NEW YORK
DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
ALBANY, NEW YORK 12233-0001

RECEIVED

FEB 13 1985

December 6, 1983

BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID-LED
HAZARDOUS WASTE

Re: Site #915048 - Shano Plastics and
Chemicals
Town of Tonawanda

Dear Sir or Madam:

In accordance with the provisions of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), 42 U.S.C. §9601 et seq., the Department of Environmental Conservation has determined that you may be responsible for the release or threatened release of hazardous substances at the above-referenced site. As a potentially responsible party, you may be liable for the present and future costs of response, removal and remediation and for damages to the natural resources of the State of New York at and around the referenced site.

In view of the foregoing, this letter constitutes a claim by the State of New York pursuant to 42 U.S.C. §9612(a) for all costs, damages and claims recoverable now and in the future under federal and state law, including CERCLA. Unless, in a timely fashion, all investigative, removal and remedial work necessary at the site and its environs is performed and unless the State is reimbursed for all damages to its natural resources and for all past, present and future response, removal and remediation costs, this claim will not have been satisfied. In such event, the State of New York may hold you liable and subject to New York's claims under federal and state law through legal action.

Sincerely,

Langdon Marsh

Langdon Marsh
Executive Deputy Commissioner

Larry's Collision
2716 Kenmore Avenue
Tonawanda, New York 14150



January 9, 1985

Town of Tonawanda Engineering Office
2919 Delaware Avenue
Tonawanda, New York 14217

Dear Sir:

Wehran Engineering of Middletown, New York is under contract with the New York State Department of Environmental Conservation, Bureau of Solid Waste, to conduct site evaluations and field investigations at potential uncontrolled hazardous waste sites. As a part of this program, Wehran must determine what information is currently available for each assigned site. In accordance with this effort, we are requesting that your office provide us with any available information and the names of possible contact persons regarding the Shanco Plastics Site located in the Town of Tonawanda.

This information may include such items as existing field reports, regional office memoranda, historical data, sampling data, hydrologic or geologic data, borings or drilling logs, past and present owners' information, photographs, surveys, or any other information pertinent to any of the listed sites that would assist us in conducting a preliminary investigation and evaluation.

In responding to this letter, a photocopy of any site data is requested to be sent to the attention of Mr. James P. Hearty at the address indicated below within seven days. Please inform him of any charges for provision of such information. If you have any questions regarding this letter, please contact Mr. Hearty as soon as possible at (914) 343-0660. Further, should your office not have any information relevant to any of the sites listed, a written response to that effect would be greatly appreciated.

Thank you for your cooperation and prompt attention to this request.

Very truly yours,

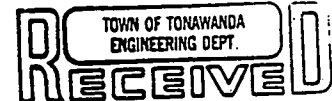
WEHRAN ENGINEERING, P. C.

A handwritten signature in cursive script that reads 'Kevin M. Burger' followed by a stylized monogram 'JPH'.

Kevin M. Burger
Project Manager

KMB/gbm

Address all correspondence to:
Attn: James P. Hearty



JAN 14 1985

Research & Design Center:
666 East Main Street
Middletown, NY 10940
(914) 343-0660

SHANCO PLASTICS & CHEMICALS INC.

111 WALES AVE

TONAWANDA N.Y. 14150

1/16/85 ATT: TRAVERS J. O'CONNOR

They discontinued operations several
years ago. Whereabouts unknown

AMK (over)



County of Erie

EDWARD J. RUTKOWSKI
COUNTY EXECUTIVE

DEPARTMENT OF ENVIRONMENT AND PLANNING

JOAN E. LORING
COMMISSIONER

January 29, 1985

ANTHONY T. VOELL
DEPUTY COMMISSIONER
ENVIRONMENTAL CONTROL

Kevin M. Burger
Project Manager
Wehran Engineering
666 East Main Street
Middletown, New York 10940

Re: Your Letter January 9, 1985

Dear Mr. Burger:

We would be pleased to meet with you to discuss information which we have in our files regarding the Shanco Plastics site in the Town of Tonawanda.

Please contact me to arrange for a convenient date to come in and review our file information.

Very truly yours,

ANTHONY T. VOELL, P.E.
Deputy Commissioner
Division of Environmental Control

ATV:jk

cc: Peter Buechi, NYSDEC

JOHN J. GIARDINO
Attorney at Law

FEB 13 1985

BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID AND
HAZARDOUS WASTE

1002 CHEMICAL BANK BUILDING
69 DELAWARE AVENUE
BUFFALO, NEW YORK 14202
TELEPHONE (716) 852-2922

February 11, 1985

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

Att: Charles N. Goddard, P.E.
Chief, Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste

Re: Notice of Preliminary Field Investigation
Dated January 8, 1985
Site - Shanco Plastics & Chemicals
ID#915048
Address - Tonawanda/Erie County

Dear Mr. Goddard:

Your notice of January 8, 1985 has been forwarded to my office. I will be handling this matter for the owner, Lawrence LaPaglia. Kindly address all future correspondence to my attention.

Mr. LaPaglia purchased the subject property in 1980, several years after the operation of the Shanco Plastic & Chemical Plant had been discontinued. Accordingly, the present owner has no reliable information concerning the generators of waste at the site, the types and quantities of such wastes, or the period or nature of the operations conducted at the site.

In May of 1983, sampling was conducted at the site as part of the Niagara River Toxics Investigation. A report in draft form relating the results of the sampling was forwarded to the owner and a copy is enclosed with related correspondence. No final report was furnished and no request for further investigation was made until your current notice.

The owner is not aware of any health or environmental problems at the site. The owner operates a public garage at the site.

2. RAO

3. ~~RAO~~ - MC
last

New York State Department of
Environmental Conservation
Att: Charles N. Goddard, P.E.

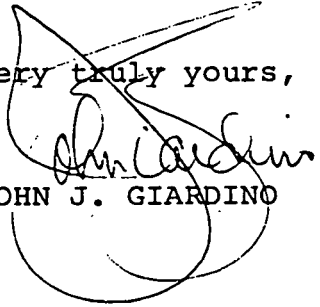
-2-

February 11, 1985

We will cooperate with your department to the best of our ability. This letter with its enclosures reflects the information available to the owner.

If we can be of further assistance, kindly advise.

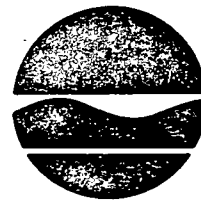
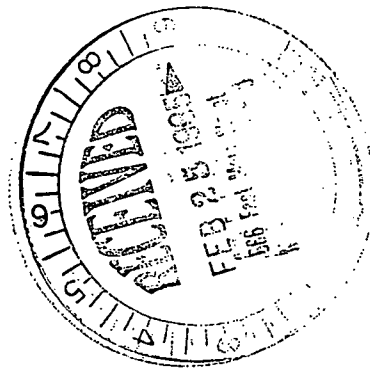
Very truly yours,



JOHN J. GIARDINO

JJG/kb
cc: Lawrence LaPaglia

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



Henry G. Williams
Commissioner

February 21, 1985

Mr. Kevin Burger
Wehran Engineering, P.C.
666 East Main Street
Middletown, New York 10940

Dear Kevin:

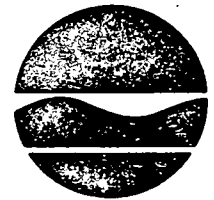
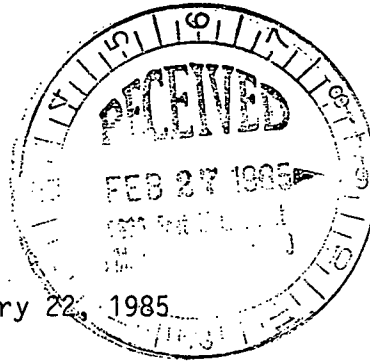
Please find enclosed information pertinent to the Phase I investigation for Shanco Plastics, ID #915048, Tonawanda/Erie County. Please incorporate any new information into the Phase I report.

Sincerely,

Anita G. Grikstas
Senior Engr. Geologist
Eastern Site Investigations
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste

Enclosure

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



Henry G. Williams
Commissioner

February 22, 1985

Mr. Kevin Burger
Wehran Engineering, P.C.
666 East Main Street
Middletown, New York 10940

Dear Mr. Burger:

Re: Shanco Plastics and Chemicals
ID #915048

Enclosed please find a copy of the results of sampling at the above mentioned site and some additional information which may be helpful to your Phase I investigation efforts.

If you have any additional questions, please feel free to call me at (518) 457-0639.

Sincerely,

A handwritten signature in cursive script, appearing to read "Navid Fathi".

Navid Fathi
Assistant Sanitary Engineer
Eastern Investigation Section
Bureau of Hazardous Site Control
Division of Solid and Hazardous Waste

Enclosure

WEHRAN ENGINEERING

GRAND ISLAND, NEW YORK 14072

(716) 773-1801

LETTER OF TRANSMITTAL

TO WEHRAN ENGINEERING
666 E. MAIN ST.
MIDDLETOWN, N.Y. 10940

DATE	FEB 28, 1985	JOB NO.	0424339 BIO
ATTENTION	KEVIN BURGER		
RE:	REGION 9 FILE INFO		
	ON 3 W.N.Y. SITES		

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via A. E. the following items:

- ☐ Shop drawings ☐ Prints ☐ Plans ☐ Samples ☐ Specifications
☐ Copy of letter ☐ Change order ☐ file info

[illegible]

THESE ARE TRANSMITTED as checked below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ copies for approval
☒ For your use ☐ Approved as noted ☐ Submit _____ copies for distribution
☒ As requested ☐ Returned for corrections ☐ Return _____ corrected prints
☐ For review and comment ☐ _____
☐ FOR BIDS DUE _____ 19____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS

Kevin:
I had Dan Clark, one of our technicians, go to DEC in Buffalo to look at the files we then requested that they be copied and we would pick them up. After we reviewed what DEC copied for us we found that not all info in the file was given to us. Attached is a brief summary of what is missing. Our DEC contact was Larry D. Clare @ 716/847-4585

COPY TO.

SIGNED:

Jim Dairler

2-28-85

1/1

PHOTO COPIED
V

MISSING ITEMS FROM EXCH FILE

1) TOWN OF LEWISTON - COMPLETE FILE WAS PHOTOCOPIED.

2) SHANCO PLASTICS - 13 PAGES MISSING

1) LIST OF EMPLOYEES TO CONTACT

2) MEMO'S

3) UNION CARBIDE - Carbon Products Div. - 83 pg MISSING

IN THE orig. FILE there was a LOT MORE INFORMATION
FROM UNION CARBIDE. For ex. HISTORY ^{OF FILE} FROM 1930 TO 1975

NUMBER OF PAGES PER FILE

1) TOWN OF LEWISTON 9 pg

2) SHANCO PLASTICS 48 pg

3) UNION CARBIDE 128 pg → JUST CARBON PRODUCTS DIV.



County of Erie

EDWARD J. RUTKOWSKI
COUNTY EXECUTIVE

DEPARTMENT OF ENVIRONMENT AND PLANNING

JOAN E. LORING
COMMISSIONER

ANTHONY T. VOELL
DEPUTY COMMISSIONER
ENVIRONMENTAL CONTROL

May 30, 1985

Wehran Engineering Co.
Research & Design Center
666 E. Main St.
Middletown, New York 10940

Attn: Mr. Kevin Burns

RE: Shanco Plastics Company
Information

Dear Mr. Burns:

As discussed on May 28, 1985, I am attaching copies of material from our file on this company.

Twenty-three pages were copied, please forward a check for \$5.75 to cover the copying costs. Please make the check payable to the Erie County Department of Environment and Planning.

If you have any questions regarding the material, please give me a call.

Very truly yours,

Anthony T. Voell
DEPUTY COMMISSIONER

ATV:mmc
cc: D. Fiorello

RECORD OF CONTACT

12/20
Date

Name of Contact: Shanco (can't understand his name)

Address: Union NJ.

Telephone: _____

Affiliation: Pyrochem Corp.

Comments: Needs more time to answer q's & go
slur Rls → Jan 15th.

Will send a letter to me to shut effect.

RECORD OF CONTACT

12/1/78

Date

Name of Contact: Travers J. O'Connor

Address: 10 Grace Way Morristown NJ

Telephone: 201-539-8781

Affiliation: Shanco Plastics, General Manager 75-78

Comments: _____

12/1/78 no answer

RECORD OF CONTACT

12/18

Date

Name of Contact: Joyce Pomerance

Address: Sydney (Shanco) NJ.

Telephone: 201-964-5280

Affiliation: Shanco

Comments: she can't answer my Q questions.

Passed on to Mr. Reese, President, who will call
back tomorrow.

Shanco

10/19

→ bought by Sunrise Chem.
Mr. Long with R&D there,
not production

INTERAGENCY TASK FORCE ON HAZARDOUS WASTES
M.P.O. Box 561
Niagara Falls, New York 14302
(716) 285-3057

I. General Information

1. Company Name Shanco Plastics & Chemicals

Mailing Address 1036 Commerce Avenue Union New Jersey 07083
Street City State Zip

Present Plant
Location

☐ Same as Above

2716 Kenmore Avenue, Tonawanda, New York 14150
Street City State Zip

2. If Subsidiary or Division, Name of Parent Company Synres Chemical Corporation

3. Person Responsible for Present
Plant Operations Operations ceased in October, 1977.
Name _____

Title _____ Telephone _____

4. Person Answering this
Questionnaire Joyce Pomerance
Name _____

Controller (201) 964-5280
Title _____ Telephone _____

II. Company History

1. Date Company Founded May 7, 1948

Date and State of
Incorporation Delaware

Date Company Began
Operations in Erie
or Niagara County May 7, 1948

2. Other Company Names No
since 1930 (specify
time periods) _____

3. Other Plant Locations No
In Erie or Niagara
County since 1930
(specify locations
and time periods) _____

4. Names of Companies No
Acquired which have
Operated Plants in
Erie or Niagara County
since 1930 (specify
name of company, date
of acquisition, location
of plant, and periods
of operation). _____

III. Company Personnel (see note)

1. Identify all plant managers from 1930 to present. Indicate years of service in that position, last known address and telephone number.
2. Identify all plant purchasing agents from 1930 to present. Indicate years of service in that position, last known address and telephone number.
3. Identify all plant personnel with supervisory responsibility for treatment or disposal of industrial wastes from 1930 to present. Indicate years of service, last known address and telephone number.

IV. Industrial Waste Production, Treatment and Disposal1. Processes Used at Plant (1930-1975)

- a. esterification
- b. oxidization
- c. condensation
- d. _____
- e. _____

Dates

- a. 1948-October, 1977
- b. Unknown to us
- c. 1948-October, 1977
- d. _____
- e. _____

2. Products (1930-1975)

- a. rosin esters
- b. oxidized wax
- c. phenolic resins
- d. _____
- e. _____

- a. 1948-October, 1977
- b. Unknown to us
- c. 1948-October, 1977
- d. _____
- e. _____

3. On Site Waste Treatment (1930-1975)

- a. To the best of our knowledge, wastes were
- b. never treated on site.
- c. _____
- d. _____
- e. _____

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____

4. List all Waste Haulers since 1930 Including Your CompanyName SEC (Chem-Trol)Address _____
Street City NY
State

Telephone _____

Name FrontierAddress _____
Street Lockport NY
City State

Telephone _____

5. Identify all Treatment or Disposal Sites In Erie or Niagara County used since 1930
(use separate sheet for each site).

- a. Name of Site _____
- b. Location _____
- c. Owner or Operator _____
- d. Time Period Site was Used _____

e. Describe Waste Types Treated or Disposed at this Site	Physical State	Total Quantity	Type of Container If Any
(1) _____	_____	_____	_____
_____	_____	_____	_____
(2) _____	_____	_____	_____
_____	_____	_____	_____
(3) _____	_____	_____	_____
_____	_____	_____	_____
(4) _____	_____	_____	_____
_____	_____	_____	_____
(5) _____	_____	_____	_____
_____	_____	_____	_____

- f. Wastes Were ☐ land disposed ☐ incinerated ☐ reclaimed
☐ treated ☐ other (specify) _____

g. Names of waste haulers including your company transporting such wastes to this site, if a disposal site.

Name _____ Telephone _____

Street _____ City _____ State _____

Time Periods such Hauler Transported to this Site _____

Name _____ Telephone _____

Street _____ City _____ State _____

Time Periods such Hauler Transported to this Site _____

h. List Names and Addresses of other Companies using this Site, if a disposal site.

Name of Company _____

Street _____ City _____ State _____

Time Periods such Other Company Used this Site _____

NEW YORK STATE REGISTRY FORMS

V. Sources of Information

Please indicate the sources of all information set forth in response to Questions IV. 4 and IV. 5 above. (Specify names of individuals and sources).

1. Management

- (1) Charles O'Connor, President, 5/7/48-1/15/75 (died in 1977)
- (2) Travers J. O'Connor, General Manager, 1/15/75-5/78

2. Plant Managers

- (1) Albert Schuster, 5/7/48-1968 (when he died)
- (2) Enoch M. Orbanac, 1968-12/31/77

3. Purchasing Agent

- (1) Charles O'Connor as president, 5/7/48-1960
- (2) Enoch M. Orbanac, 1960-10/77 (when plant ceased to operate).

* Travers J. O'Connor
10 Grace Way
Morristown, New Jersey 07960

201-539-8781

Enoch M. Orbanac
658 Woodstock Avenue
Tonawanda, New York 14150

*File Shanks
Plastic*

COUNTY OF ERIE
DEPARTMENT OF ENVIRONMENT & PLANNING
DIVISION OF ENVIRONMENTAL CONTROL

MEMORANDUM

FROM Ronald D. Koczaja DATE November 26, 1979
TO Donald Cambell *Shan 116*
SUBJECT Reinspection "4 Seasons Automotive Products" (former Shanco Plastics)
Kenmore Avenue, Tonawanda

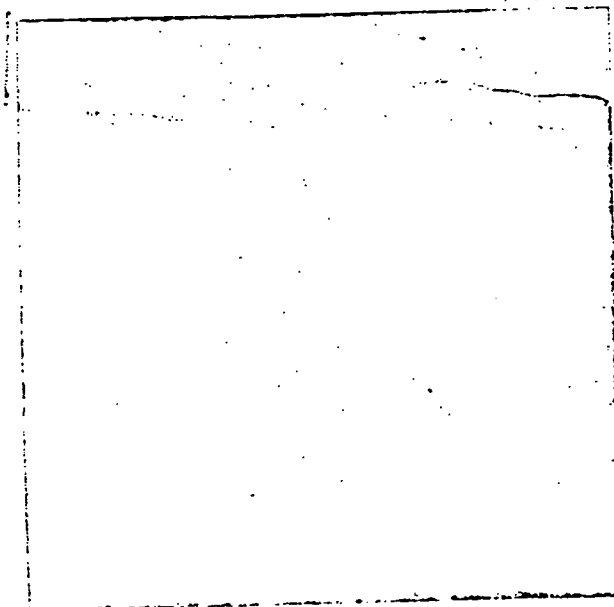
The referenced site was reinspected on November 23, 1979. No action had been taken to remove the material contained in deteriorated drums located along the north side of the building. The clean up of abandoned material has been continuing for an extended length of time. The writer would recommend referring this matter to the DEC for legal action to bring this problem to a conclusion. Please advise.

RDK

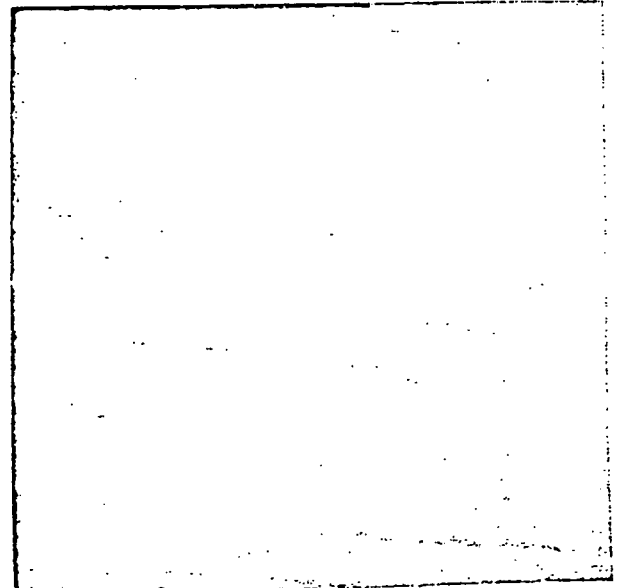
cc: J. Tygert

Please do.

D.C.



*... ..
... ..*



*Shanco Plastic plant (former)
now 4 Seasons automotive inc.
scheduled visit*

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

47-15-11(2/80)

Code: _____

Site Code: 915048

Name of Site: Shanco Plastics and Chemicals

Region: 9

County: Erie

Town/City Tonawanda

Street Address 2716 Kenmore Avenue

Status of Site Narrative:

The site is a one acre tract located on Kenmore Avenue in the City of Tonawanda. The Shanco Plastics and Chemicals Company was formerly a manufacturing facility that produced modified resin esters used in floor polishes, adhesives and printing inks. The NYSDEC indicates that up to 106 drums containing waste material were buried on site prior to Shanco's closing. As many as 40 of these drums may have been removed to CECOS. Possible wastes included phenolicresins, sulfuric acid and caustic wastes. The site is now inactive and is a truck repair facility owned by Mr. Larry LaPaglia.

Type of Site: Open Dump ☐
Landfill ☐
Structure ☒

Treatment Pond(s) ☐
Lagoon(s) ☐

Number of Ponds _____
Number of Lagoons _____

Estimated Size 1 Acres

Hazardous Wastes Disposed? Confirmed ☐ Suspected ☒

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
Phenolic resins	Unknown
Sulfuric acid	Unknown
Caustic wastes	Unknown

* Use additional sheets if more space is needed.

Name of Current Owner of Site: Larry LaPagliaAddress of Current Owner of Site: 2716 Kenmore Avenue, Tonawanda, NY

Time Period Site Was Used for Hazardous Waste Disposal:

May 19 48 To October 19 77Is site Active ☐ Inactive ☒

(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐

Nature of Action:

Status of Legal Action: None State ☐ Federal ☐Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

Possible migration of buried materials to the west towards the Niagara River or into any industrial wells that may be located in the vicinity.
Site is in close proximity to residential areas.

Assessment of Health Problems:

Persons Completing this Form:

Kevin J. BurnsWehran EngineeringNew York State Department of Environmental
Conservation

New York State Department of Health

Date August, 1985

RECEIVED

FEB 06 1987

U.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 9