932084 A

## ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

#### PHASE I INVESTIGATION

97th Street Methodist Church
City of Niagara Falls

Site No. 932084A Niagara County

Date: January 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

By:
ENGINEERING-SCIENCE
In Association With
DAMES & MOORE

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

97TH STREET CHURCH SITE
9610 COLVIN BLVD.

NYS SITE NUMBER 932084A

CITY OF NIAGARA FALLS

NIAGARA COUNTY

NEW YORK STATE, 14304

Prepared For

DIVISION OF SOLID AND HAZARDOUS WASTE

NEW YORK STATE

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
50 WOLF ROAD

ALBANY, NEW YORK 12233-0001

Prepared By

ENGINEERING-SCIENCE 290 ELWOOD DAVIS ROAD LIVERPOOL, NEW YORK 13088

In Association With

DAMES & MOORE
2996 BELGIUM ROAD
BALDWINSVILLE, NEW YORK 13027

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#### 97TH STREET CHURCH

#### TABLE OF CONTENTS

			Page
SECTION	I	EXECUTIVE SUMMARY	I-1
		Site Location Map Site Plan	I-4 I-5
SECTION	II	PURPOSE	II-1
SECTION	III	SCOPE OF WORK	III-1
SECTION	IV	SITE ASSESSMENT	IV-1
		Site History Site Topography Site Hydrology Site Contamination Sampling Locations	IV-1 IV-1 IV-3 IV-4 IV-8
SECTION	v	PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM  Narrative Summary Site Location Map HRS Worksheets HRS Documentation Records and References Potential Hazardous Waste Site - Preliminary Assessment Potential Hazardous Waste Site - Site Inspection Report	V-1
SECTION	VI	ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS  Assessment of Data Adequacy Phase II Work Plan Phase II Cost Estimate	VI-1 VI-1 VI-1 VI-2
APPENDI:	X A	REFERENCES Sources Contacted Documentation	
APPENDI	х в	PROPOSED UPDATED NYS REGISTRY	

#### SECTION I

## EXECUTIVE SUMMARY 97TH STREET CHURCH SITE

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC), presents the results of the Phase I investigation for the 97th Street Church Site (NYS Number 932084A, EPA Site Number D980534697) located in the City of Niagara Falls, Niagara County, New York (see Figure I-1).

#### SITE BACKGROUND

The 2-acre 97th Street Church Site (Wesley United Methodist Church), has been owned by the Western New York Conference since 1961. Prior to then, the site was undeveloped and owned by Mary Anne Nye Johnston and Mabel George, respectively. In 1958, Olin Chemical reportedly disposed of 23 tons of broken concrete potentially contaminated with mercury. This material may have been used as on-site fill to improve the property for future development. A site plan is provide in Figure I-2.

There has been some confusion concerning the disposal of concrete at the 97th Street Church According to Olin Chemicals, Olin Chemicals disposed of concrete at the 99th Street site in 1958. The church on the 99th Street site was demolished and sold in 1965 (Bitterman, 1985). No wastes from Olin Chemicals were disposed of at the 97th Street site (Olin Chemicals, 1985).

Sampling conducted at the site indicated the presence of several organic compounds; however, mercury was below detection limits. Since no record of past disposal of organics at the site exists, coupled with the sites close proximity to Love Canal, it is possible that Love Canal may be the source of organic contamination.

#### ASSESSMENT

In an attempt to quantify the risk associated with this site, the Hazard Ranking Scoring system (HRS) was applied as currently being used by the NYSDEC to evaluate abandoned hazardous waste sites in New York State. This system takes into account the types of wastes at the site, receptors, and transport routes to apply a numerical ranking of the site. As stated in 40 CFR Subpart H Section 300.81, the HRS scoring system was developed to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems or ecological or environmental damage. It is assumed by the EPA that a uniform application of the ranking system in each state will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment.

Under the HRS, three numerical scores are computed for each site, to express the relative risk or danger from the site, taking into account the population at risk, the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecological systems and other appropriate factors. The three scores are:

 $S_{M}$  reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes ( $S_{GW}$  = groundwater route score,  $S_{SW}$  = surface water route score, and  $S_{A}$  = air route score).

- o  $S_{\mbox{\scriptsize FE}}$  reflects the potential for harm from substances that can explode or cause fires.
- o S<sub>DC</sub> reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

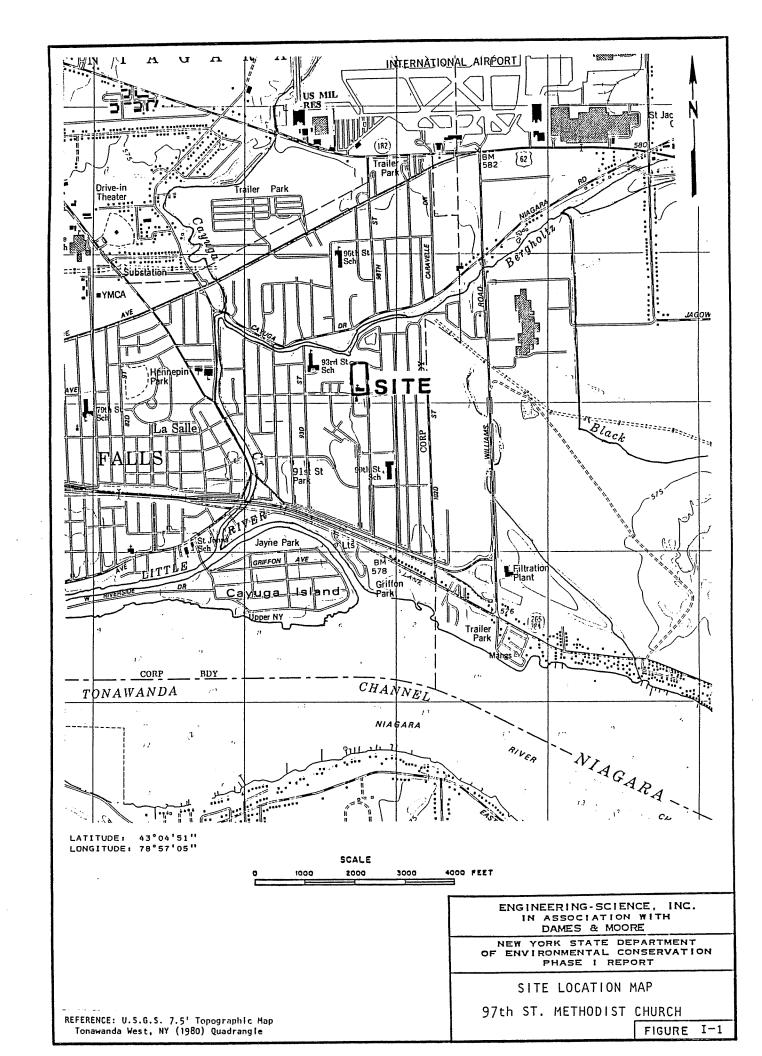
The preliminary HRS score was:

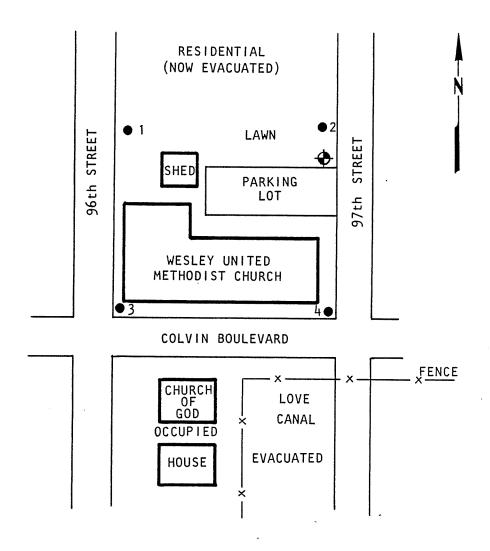
$$S_{M} = 0$$
  $S_{A} = 0$   $S_{GW} = 0$   $S_{E} = 0$   $S_{E} = 0$ 

These scores are relatively low and reflect low target ratings.

#### RECOMMENDATIONS

No Phase II work is recommended for the 97th Street Methodist Church site as a result of information discovered during this study. Olin Chemical reports that the 23 tons of concrete containing mercury was disposed of at the 99th Street Methodist Chruch site, not the 97th Street Methodist Church site.





NOT TO SCALE

#### **EXPLANATION:**

- TEST BORING AND SUBSTRATE SAMPLE by U.S.G.S. 1982
- MONITORING WELL FOR LOVE CANAL STUDY

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

PLOT PLAN 97th ST. METHODIST CHURCH

FIGURE I-2

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#### SECTION II

#### PURPOSE

The purpose of the Phase I investigation at the 97th Street Church Site site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, all available data and records, combined with information collected from a site inspection, were reviewed and evaluated. investigation at this site focused on the suspected deposition of 23 tons of broken concrete at the site in August and September of 1958. Based on this initial evaluation of the 97th Street Church Site, Olin Chemical did not dispose of 23 tons of concrete containing mercury at Therefore, a Phase II study is the 97th Street Methodist Church Site. not recommended, and a Phase II work plan and cost estimate have not been provided herein.

#### SECTION III

#### SCOPE OF WORK

The scope of work for the New York State Inactive Site Investigation Program (Phase I) was to collect and review all available information necessary for the documentation and preparation of a Hazard Ranking System score and a Phase II work plan and cost estimate if required. The work activities performed included data collection and review, a site inspection, and interviews with knowledgeable individuals of past and present disposal activities at the site.

The sources contacted during this Phase I investigation included government agencies (federal, state and local), present site owners and operators, and any other individuals that may have knowledge of the site, as identified during the performance of the investigation. These sources are listed in Appendix A. The intent of the list is to identify all persons, departments, and/or agencies contacted during the third round of the Phase I investigations even though useful information may not have been collected from each source contacted.

#### SECTION IV

#### SITE ASSESSMENT

#### SITE HISTORY

The two (2) acre 97th Street Church Site (Wesley United Methodist Church) has been owned by the Western New York Conference since 1961 (Western NY Conference, 1985). Prior to then, it was owned by Mary Anne Nye Johnston, who purchased the property from Mabel George (Niagara County, 1985 and French, 1985). The church was abandoned in 1978 following the discovery of contamination at the Love Canal, 400 feet to the southeast ((Niagara County, 1982).

According to the NYSDEC Site Profile Report for the 97th Street Methodist Church, Olin Chemical was thought to have used the site to dispose of 23 tons of broken concrete in August and September of 1958. The materials were supposedly used as fill in the low-lying areas of the site. No other incidents of waste disposal are known to have occurred at the site.

There has been some confusion concerning the alledged disposal of Olin Chemical wastes at the 97th Street Church site. According to Olin Chemical, concrete from Olin Chemical was disposed of in 1958 at the 99th Street Church. The church congregation later moved to the 97th Street Church location (Kapteina, 1985). The 99th Street Church was sold in 1965 and the church building was demolished so private residences could be constructed (Bitterman, 1985).

#### SITE TOPOGRAPHY

The 97th Street Church Site site is located in the City of Niagara Falls, Niagara County, New York State. The ground surface is flat and has been developed into an asphalt-surfaced parking lot and a small lawn surrounding the church.

The approximately 2-acre rectangular site is located in a surburban area which has now been largely abandoned due to its proximity to the Love Canal, immediately across the street to the south of this site. To the east, north, and west of the site are abandoned surburban homes. Surface water on this site drains into Black Creek via the 96th Street storm sewer. Black Creek is 3/4 of a mile east of the site and flows northward into Bergholtz Creek. North of the site, Bergholtz Creek flows west into Cayuga Creek, and passes within 500 feet of the site.

#### Local Sensitive Environments

There are no wetlands within 1 mile of the site. However, the Niagara River and associated tributaries are located along the migration pathway of three endangered species: peregrine falcon, bald eagle, and golden eagle. The river and its major tributaries may provide a wintering-over area for these birds; an adult eagle was observed on the upper Niagara River in late December, 1984. In addition, these rivers may provide potential breeding areas for these endangered birds, but this has never been confirmed.

The river supports a large water fowl population because of its year-round rich fishing grounds, especially at the source of the river and north of Grand Island (approximately 5 miles down river from the site). Wetlands also provide habitats for waterfowl. The largest wetland in the Upper Niagara area is on Buckhorn Island (north end of Grand Island).

The fish population within the Niagara River is part of the larger Lake Erie fish population. The threatened lake sturgeon occurs in Lake Erie and the Niagara River. It is a deep water benthic fish, which may occasionally injest bottom sediment. It commonly occurs off Sturgeon Point (southeast shore of Lake Erie), and is caught occasionally in the Niagara River.

The effects of contamination on the fish and wildlife populations of the Niagara River are largely unknown. An ongoing toxicological study of the common golden eye duck, which feeds on mollusks, is aimed at assessing the impact of known and suspected contaminants on the health of this population.

#### SITE HYDROLOGY

This summary of site hydrogeology is based on information from USGS Topographic Maps, NYS Museum and Science Service Bedrock Geology Map and Quaternary Geology Map, site profile reports from the Niagara County Health Department (NCHD) and NYSDEC, and a subsurface investigation by E. C. Jordan Company.

#### Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south.

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened pre-existing valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water subsequently shaped channels and deposited thick accumulations of stratified, granular sediments.

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. This region is covered by both lake sediments and morainal materials. Sediments associated with Lake Tonawanda are especially widespread in this region. Lake Tonawanda was a shallow elongate lake which occupied an east-west valley and drained north into Lake Iroquois. The sediments consist of beach ridges and lacustrine silts and clays (indicating quiet or deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers, whereas lacustrine clays, as well as tills, often inhibit groundwater movement. However, fine-grained, water-lain sediments, such as silts and clays, frequently contain horizontal laminations and sand seams. These internal features facilitate lateral groundwater movement through otherwise low permeability materials.

#### Site Hydrogeology

Bedrock beneath the site is expected to be Lockport Dolomite and to occur at a depth of approximately 26 ft. This rock unit is massive and jointed and forms an (unused) bedrock aquifer.

Overlying the bedrock is a sandy till layer, approximately 3 feet thick. Over this soil unit is a sequence of lacustrine reddish brown and grey-brown silt and clay with fine sand seams (Lake Tonawanda deposits) (USGS Boring Descriptions, 1982). Due to the low permeability of these fine grained deposits, there is not expected to be a soil aquifer. For the HRS score, a permeability of less than 10<sup>-7</sup> cm/sec has been assumed.

Due to the proximity of the site to the Love Canal, pumping and other activities which alter the natural groundwater flow regime in the Canal area may also influence the groundwater flow in the subsurface of

the site. Therefore, depth to groundwater and flow direction is indeterminant.

#### SITE CONTAMINATION

Based on information provided in NYSDEC Site Profile Report for the 97th Street Methodist Church Site, Olin Chemical was thought to have disposed of approximately 23 tons of broken concrete at the site in 1978. According to Olin, this material was comprised of discarded concrete "cells" or reactors, used in chlorine manufacture. Olin indicated that the concrete may have been contaminated by residual mercury, used in an amalgam to remove sodium from the reactor vessels (NYSDEC, 1985). No waste material was visible during a site investigation (ES and D&M Site Inspection, 3/25/85).

There has been some confusion concerning the alledged disposal of Olin Chemical wastes at the 97th Street site. A site listed as the "99th Street Methodist Church" was thought to have received the Olin wastes rather than the 97th Street site. According to Olin Chemicals' records (provided in Appendix), concrete from Olin Chemicals was disposed of in 1958 at the 99th Street Methodist Church. The church's congregation was later transferred to the 97th Street Methodist Church when the 99th Street Church was closed (Kapteina, 1985). According to the NYS telephone directory, the 99th Street Methodist Church did exist on 99th Street in 1946 until approximately 1961 (Olin Chemicals, 1985). The church sold the property in 1965 and the church structure was demolished so private residences could be constructed (Bitterman, 1985). No information is available which indicates if the Olin Chemicals concrete wastes were excavated and removed from the 99th Street Church site following the demolition of the church building. The 99th Street site is located within the fenced area of the Love Canal site, which has been capped.

In 1982, the USGS drilled four test borings at the 97th Street site (see Figure IV-1). Soil samples were taken from all four borings and a groundwater sample was taken from one boring. Analytical results are

presented in Table IV-1. As can be seen from these results, mercury, the contaminant suspected to be present at the site, was not found in any of the soil samples at the site (USGS, 1982). However, three priority pollutants were detected in the groundwater, two of which were at high concentrations. The samples were interpreted via GC/MS analysis.

As part of the Love Canal investigation and remedial action program, two monitoring wells were installed adjacent to the church's parking lot (see Figure IV-2). One well (No. 31-51) was completed in the overburden; the second (No. 32-51), in the bedrock. These wells were most recently sampled by the NYSDEC in the summer of 1984, at which time analyses were conducted for both organic and inorganic priority pollutants. Quantifiable results of these and previous EPA samplings of the two wells are presented in Table IV-2. Mercury, the contaminant of interest, was below detection limits (0.2 ug/liter for the EPA analysis) in all samples.

However, several organic priority pollutants were found at levels ranging from 10 to 30 ug/liter. Due to the lack of evidence of past disposal of organic compounds at the site, coupled with the site's location, 400 feet northeast from the Love Canal, it is possible that the Canal may be the source of the organic contaminants at the 97th Street Church Site.

In addition, the site was surveyed for volatile organics using an HNu meter. All readings were below 1 ppm (ES and D&M Site Inspection, 3/25/85).

TABLE IV-1

RESULTS OF SOIL SUBSTRATE AND GROUNDWATER SAMPLING AT 97TH STREET CHURCH SITE CONDUCTED BY USGS

Parameter <sup>a</sup>		Sampild Substrat 2 (11.5')		-	roundwater 4A
рн					7.0
Specific Conductan	ce				2,730
Inorganics					
Iron	6,500	5,200	4,300	2,400	
Mercury	р	b	þ	þ	
Organics					
Diethylphthalate	:				LT <sup>C</sup>
Butylbenzyl- phthalate					315
Bis(2-ethylhexy) phthalate	L)-				252

SOURCE: USGS, 1982.

a Soil results are reported in mg/kg; water results in mg/liter.

Constituent was not found.

LT indicates consituent found, but at levels below the quantifiable detection limit.

TABLE IV-2

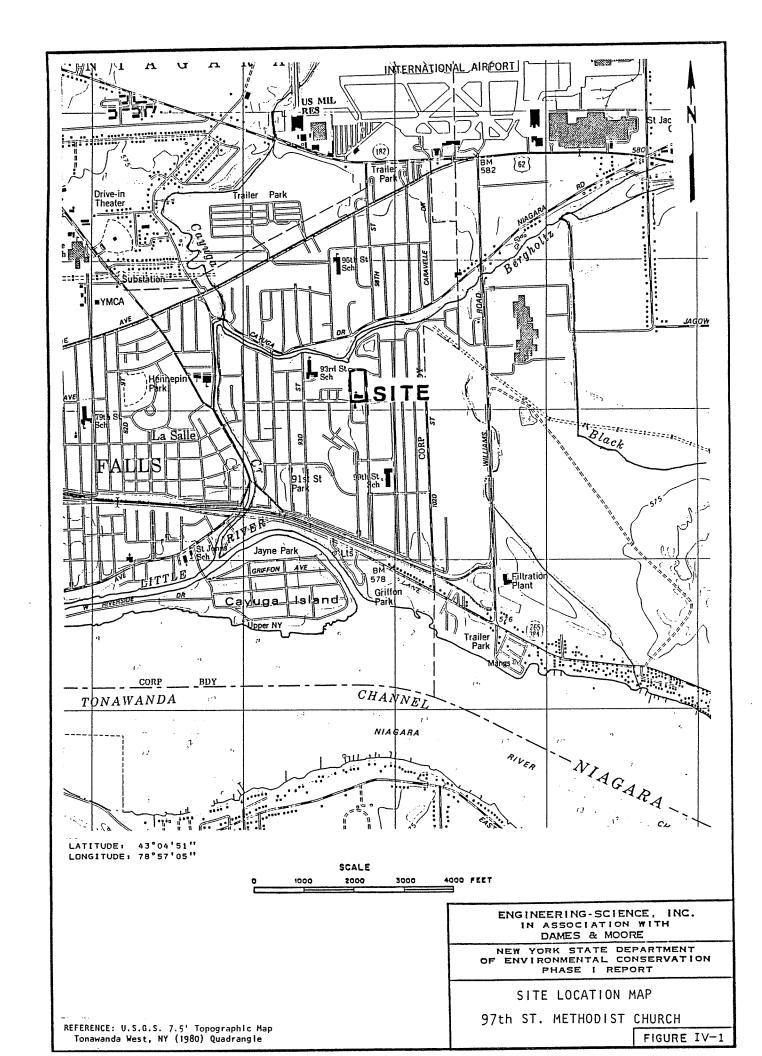
RESULTS OF GROUNDWATER SAMPLING AT 97TH STREET CHURCH SITE CONDUCTED BY USEPA AND NYSDEC AS PART OF LOVE CANAL INVESTIGATION/REMEDIATION

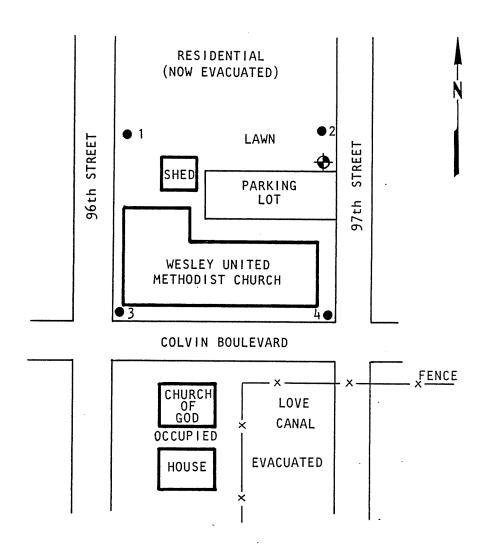
BDL	BDL
12	b
10	þ
b	15
b	31
þ	23
b	2,500
	12 10 b b

SOURCE: S. Barlowe, NYSDEC-Albany, Personal Communication, 4/23/85.

Priority pollutants (inorganic and organic) were either not detected or below quantifiable detection limits.

b Constituent either not detected or below quantifiable detection limits.





NOT TO SCALE

#### **EXPLANATION:**

- 3 TEST BORING AND SUBSTRATE SAMPLE by U.S.G.S. 1982
- MONITORING WELL FOR LOVE CANAL STUDY

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

PLOT PLAN
97th ST. METHODIST CHURCH

FIGURE IV-2

#### PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

#### NARRATIVE SUMMARY

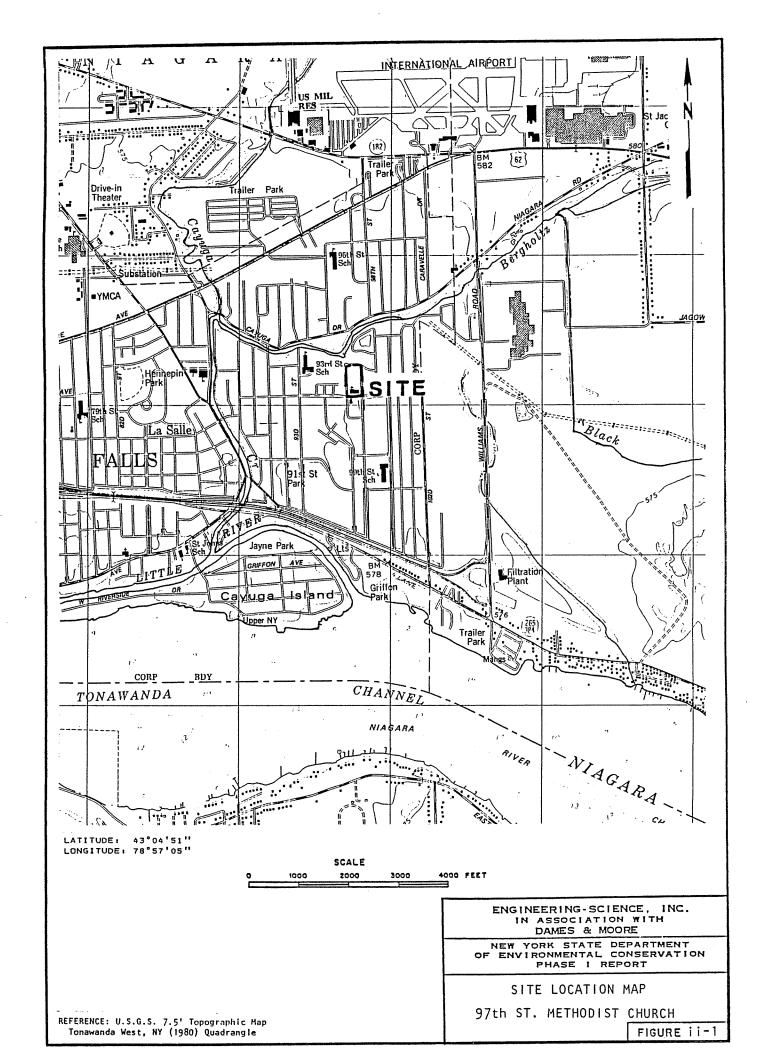
The two (2) acre 97th Street Church Site (Wesley United Methodist Church) has been owned by the Western New York Conference since 1961. The church, completed in 1968, was abandoned in 1978 as a result of contamination at nearby Love Canal.

Based on information provided in the NYSDEC Site Profile Report for the 97th Street Methodist Church site, Olin Chemical may have disposed of 23 tons of broken concrete "cells" (reactors) at the site in 1958. According to Olin, these cells were used in chlorine production and may have retained residual amounts of mercury (NYSDEC, 1985 and Niagara County, 1985).

There has been some confusion concerning the alledged disposal of Olin Chemical wastes at the 97th Street site. According to Olin Chemical, concrete from Olin Chemical was disposed of in 1958 at the 99th Street Church site. The church's congregation later moved to the 97th Street Church location (Kapteina, 1985). The 99th Street Church was sold in 1965, and the church building was demolished so private residences could be constructed (Bitterman, 1985).

No mercury was detected (detection limits of 0.2 ppb) at the site based on sampling conducted by the USGS (soil substrate and groundwater) and the USEPA and NYSDEC (groundwater). Several organics were found at levels on the order of 10 to 100 ug/liter; however, due to the lack of evidence of disposal of organic compounds at the site, coupled with the site's downgradient position in relation to the nearby Love Canal, it is possible that these wastes may have originated from the Love Canal.

HNU sampling conducted at the site detected no volatile organics above 1 ppm (ES and D&M Site Inspection, 3/25/85).



#### HRS COVER SHEET

Facility Name:	97th Street Church Site (Wesley United Methodist Church)
Location: 9610	Colvin Blvd., Niagara Falls, NY
EPA Region: II	
Person(s) in cha	rge of the facility: V. French, Western NY Conference
Name of Reviewer	: S. J. Tiffany Date: 4/24/85
General Descript	ion of the facility:
Recent interview	vs with Olin Chemicals and Western NY Conference of the
United Methodist	Church employees indicates that Olin Chemical disposed
of concrete was	te at the 99th Street Methodist Church site rather than
the 97th Stree	t Church site. Contaminants detected in groundwater
samples at the	97th Street Church site may be from the Love Canal site
located approxi	mately 400 feet from the site. No mercury has been
detected in gro	oundwater samples collected to date. However, several
organic contamir	ants were detected during past USEPA and NYSDEC sampling

efforts. The source of organics is possibly from the nearby Love Canal.

Scores: 
$$S_{M} = 0$$
  $(S_{gw} = 0 S_{sw} = 0 S_{a} = 0)$   $S_{FE} = 0$   $S_{DC} = 0$ 

Facility Name: 97th Street Church Date: 4/85

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 Depth to Aquifer of	4	6	3.2				
Concern Net Precipitation Permeability of the Unsaturated Zone	$\begin{array}{cccc} 0 & 1 & 2 & 3 \\ 0 & 1 & 2 & 3 \end{array}$	1 1	2/	3			
Physical State	0 1 2 3	1	0	3			
Total Route	Characteristics Sc	ore	7	15			
3 Containment 0 1 2 3 1				3	3.3		
4 Waste Characteristics					3.4		
Toxicity/Persistence Hazardous Waste Quantity	0 3 6 9 12 15 1 0 1 2 3 4 5 6 7	8 1 7 8 1	0	18			
Total Waste	Characteristics Sco	re	0	26			
5 Targets					3.5		
Ground Water Use Distance to Nearest Well/Population Served	30	9 40	<b>-</b>				
Total T	3	49					
6 If line 1 is 45, mu If line 1 is 0, mul	0	57,330					
7 Divide line 6 by 57	s <sub>gw</sub> =	0.0					

## GROUND WATER ROUTE WORK SHEET

Facility Name: 97 th Street Church Date: 4/24/85							
Surface Water Route Work Sheet							
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)		
1 Observed Release	<b>6</b> 45	1	0	45	4.1		
If observed release is							
2 Route Characteristics	·				4.2		
Facility Slope and	<u>(1)</u> 1 2 3	1	0	3			
Intervening Terrain 1-yr. 24-hr. Rainfal Distance to Nearest		1 2	2 6	3 6			
Surface Water Physical State	0 (1) 2 3	1	1	3			
Total Route	Characteristics Sco	re	9	15			
3 Containment	<b>(</b> ) 1 2 3	1	0	3	4.3		
4 Waste Characteristics	;				4.4		
Toxicity/Persistence Hazardous Waste Quantity	① 3 6 9 12 15 1 ② 1 2 3 4 5 6 7		00	18 8	_		
. Total Waste	Characteristics Sco	ore	0	26			
5 Targets					4.5		
Surface Water Use Distance to a Sensi	0 1 <b>②</b> 3 tive <b>⑥</b> 1 2 3	· 3 2	6	9 6			
Environment Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40		0	40	_		
Total	Targets Score		6	55			
6 If line 1 is 45, multiple 1 is 0, mult	nultiply $1 \times 4 \times 4$	5 4 × 5	0	64,350			

7 Divide line 6 by 64,350 and multiply by 100

Facility Name: 97 th Street Church Date: 4/a4/85

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/o	april 19	185					
Sampling Protocol:	HNU M	eter pur	vey					
If line 1 is 0, the S	S <sub>a</sub> = 0. Enter	on line						
2 Waste Characteristics						5.2		
Reactivity and	① 1 2	3	1	0	3			
Incompatibility Toxicity Hazardous Waste	① 1 2 ① 1 2 3	3 4 5 6 7 8	3 1	0. 0	9 8			
Total Wast	e Characteris	tics Score	<u></u>	0	20			
Targets  Population Within 4-Mile Radius Distance to Sensitive Environment Land Use		2 15 18 7 30 3	1 2 1	21 0 3	30 6 3	5.3		
Total Tar	gets Score			24	39			
4 Multiply 1 × 2 × 3					35,100			
5 Divide line 4 by 35,	S <sub>a</sub> = 0		-					

### AIR ROUTE WORK SHEET

Facility Name: 97th Street Church Date: 4/24/85

Worksheet for Computing  $S_{\mathbf{M}}$ 

	S	s <sup>2</sup>
Groundwater Route Score (S <sub>gw</sub> )	0	0
Surface Water Route Score (S <sub>SW</sub> )	0	0
Air Route Score (S <sub>a</sub> )	0	0
$s_{gw}^2 + s_{sw}^2 + s_a^2$		
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		0
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		0

## WORK SHEET FOR COMPUTING SM

Facility Name: 97th Street Church Date: 4/a4/85

Fire and Explosion Work Sheet								
Rating Factor		igned Circle		Multi- plier	Score	Max. Score	Ref. (Section)	
1 Containment	1	3		1		3	7.1	
2 Waste Characteristics							7.2	
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0	3 1 2 3 1 2 3 1 2 3 2 3 4		1 1 1 1 8 1	·	3 3 3 8		
Total Wast	e Cha	racteri	stics	Score		20		
Targets  Distance to Nearest Population Distance to Nearest	0	1 2 3		5 1		5 3	7.3	
Building Distance to Sensitive Environment Land Use Population Within		1 2 3 1 2 3 1 2 3	; ; ; 4	1 - 1 5 1		3 3 5		
2-Mile Radius Buildings Within 2-Mile Radius	0		, 4			5	_	
Total T	argets	Score				24		
4 Multiply 1 x 2 x 3					•	1,440		
5 Divide line 4 by 1,440 and multiply by 100 $S_{FE} = p$								

## FIRE AND EXPLOSION WORK SHEET

Facility Name: 97th Street Church Date: 4/a4/85

	Direct Contact	: Work She	et		
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Incident	<u>45</u>	1	0	45	8.1
If line 1 is 45, pro	-				·
2 Accessibility	0 1 2 3	1	13)	3	8.2
3 Containment	0 15	1	0		8.3
Waste Characteristics Toxicity	0 1 2 3	5	O	15	8.4
5 Targets  Population Within 1-Mile Radius Distance to a Critical Habitat	0 1 2 3 4 (	5) 4 4	20	20 12	8.5
Total Ta	rgets Score		QÛ	32	
6 If line 1 is 45, mul	tiply 1 x 4 x tiply 2 x 3 x			21,600	
7 Divide line 6 by 21,	600 and multiply	ру 100	S <sub>DC</sub> =	0	

## DIRECT CONTACT WORK SHEET

# DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: 97th Street Church Site (Wesley United Methodist Church)

LOCATION: 9610 Colvin Blvd., Niagara Falls, NY

#### GROUNDWATER ROUTE

#### 1. OBSERVED RELEASE

Contaminants detected (5 maximum):

Bis(2-ethylhexyl) phthalate, Iron, Butylbenzyl phthalate (USGS Draft Report, 1982) were detected. However, no organic wastes are suspected to be disposed on-site. Furthermore, the probable source of the groundwater contamination is the Love Canal, located approximately 400 feet from the site.

Rationale for attributing the contaminants to the facility:

The above-listed contaminants are not attributed to this site. For HRS scoring, no observed release is considered.

\* \* \*

#### 2. ROUTE CHARACTERISTICS

(USGS Borings Descriptions, USGS, 1982)

#### Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

- 1. Probable shallow, perched aquifer.
- 2. Bedrock aquifer in Lockport Dolomite.

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

Approximately 1.5' to local perched water level. 42' to Lockport Dolomite which is the aquifer of concern.

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

Unknown.

#### Net Precipitation

U.S. Dept. of Commerce, National Climatic Center, (Climatic Atlas of the United States, 1979).

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

Mean annual precipitation is 36".

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

Mean annual lake evaporation is 27".

Net precipitation (subtract the above figures):

$$9" (36" - 27" = 9").$$

#### Permeability of Unsaturated Zone

Soil type in unsaturated zone:

- 1. Topsoil at 0 1.5' depth.
- 2. Clay at 1.5' to 26'.

Permeability associated with soil type

10<sup>-7</sup> cm/sec for clay (Freeze, R.A., and J.A. Cherry, Ground Water, 1979).

#### Physical State

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

Not applicable, no waste were disposed at the 97th Street Site (Kapteina, 1985).

#### CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

No waste disposal activities are known to have occurred on-site. Waste disposal activities were suspected at this site but have been determined to have occurred at the 99th Street Church Site (Olin Chemicals, 1985, and Kapteina, 1985).

Method with highest score:

Not applicable. No waste disposal activities occured at the site.

#### 4. WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

Not applicable (Kapteina, 1985).

Compound with highest score:

Not applicable.

#### 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):

Not applicable - see above (Kapteina, 1985).

Basis of estimating and/or computing waste quantity:

Not applicable - see above (Kapteina, 1985).

#### 5. TARGETS

(Niagara County Health Department, Site Profile Report, 1982)

#### Ground Water Use

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

No uses of aquifer within a 3 mile radius.

#### Distance to Nearest Well

Location of nearest well drawing from <a href="aquifer of concern">aquifer of concern</a> or occupied building not served by a public water supply:

No uses of aquifer within a 3 mile radius.

Distance to above well or building:

Not applicable.

#### Population Service by Ground Water Wells Within a 3-Mile Radius

(NYS Atlas of Community Water System Sources, 1982).

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

None within 3 miles.

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):

None within 3 miles.

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

Not applicable.

#### SURFACE WATER ROUTE

#### 1. OBSERVED RELEASE

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

No surface water samples collected for analysis (NYSDEC Registry Sheet, 12/83).

Rationale for attributing the contaminants to the facility:

Not applicable.

#### 2. ROUTE CHARACTERISTICS

(USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980)

#### Facility Slope and Intervening Terrain

Average slope of facility in percent:

1.0%.

Name/description of nearest downslope surface water:

Bergholtz Creek.

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

1.0%.

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

Is the facility completely surrounded by areas of higher elevation?

#### 1-Year 24-Hour Rainfall in Inches

2.1" (U.S. Department of Commerce Technical Paper No. 40).

#### Distance to Nearest Downslope Surface Water

0.4 mile (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980)

#### Physical State of Waste

Not applicable. No waste have been disposed on-site (Kapteina, 1985).

#### 3. CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

Not applicable. No wastes have been disposed on-site (Kapteina, 1985).

Method with highest score:

Not applicable, see above.

#### 4. WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated

No waste disposal activities are known to have occurred on-site. The disposal of concrete containing mercury were suspected at this site but have been determined to have occurred at the 99th Street Church site (Olin Chemicals, 1985 and Kapteina, 1985).

Compound with highest score:

Not applicable - see above (Olin Chemicals, 1985 and Kapteina, 1985).

#### 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):

Not applicable - see above (Olin Chemicals, 1985 and Kapteina, 1985).

Basis of estimating and/or computing waste quantity:

Not applicable.

\* \* \*

#### 5. TARGETS

#### Surface Water Use

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

Recreational greenspace and boating. Commercial and industrial shipping.

Is there tidal influence?

No.

#### Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Dept. of Fish & Wildlife Files).

#### 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:

None within specified distances (NYS Atlas of Community Water System Sources, 1982).

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

Not applicable.

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

Contaminants detected:

None.

Date and location of detection of contaminants:

ES and D&M Site Inspection, 3/25/85.

Methods used to detect the contaminants:

HNu meter readings were taken and all readings were less than 1 ppm, indicating no releases of volatile organics.

Rationale for attributing the contaminants to the site:

Not applicable.

\* \* \*

#### 2. WASTE CHARACTERISTICS

#### Reactivity and Incompatibility

Most reactive compound:

No known reactive compounds exist on-site.

Most incompatible pair of compounds:

No known incompatible compounds exist on-site.

#### Toxicity

Most toxic compound:

No hazardous wastes were disposed on-site (Kapteina, 1985).

#### Hazardous Waste Quantity

Total quantity of hazardous waste:

No hazardous wastes were disposed on-site (Kapteina, 1985).

Basis of estimating and/or computing waste quantity:

No hazardous wastes were disposed on-site (Kapteina, 1985).

\* \* \*

#### 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

48,763 (Compiled from 1980 US Census Data - current population may be lower as result of Love Canal evacuation).

#### Distance to a Sensitive Environment

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

None within 2 miles (western NYS not a coastal area).

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

None within 1 mile (NYS Wetlands Maps).

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

None within 1 mile (NYSDEC Region 9, Dept. of Fish & Wildlife Files).

#### Land Use

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

Approximately 0.5 mile (ES and D&M Site Inspection, 3/25/85).

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

More than 2 miles (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

Distance to residential area, if 2 miles or less:

Site is in residential area, which is currently partially abandoned due to proximity to the Love Canal (ES and D&M Site Inspection, 3/25/85).

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

More than 1 mile (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

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

More than 2 miles (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

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

No.

#### FIRE AND EXPLOSION

#### 1. CONTAINMENT

Hazardous substances present:

No information was discovered during the Phase I study which indicates that a fire and explosion situation existed or presently exists at the site.

Type of containment, if applicable:

Not applicable, see above comment.

\* \* \*

#### WASTE CHARACTERISTICS

#### Direct Evidence

Type of instrument and measurements:

No measurements to determine the fire and explosion potential were taken on-site.

#### Ignitability

Compound used:

No ignitable compounds are known to exist on-site (Olin Chemical, 1985 and Kapteina, 1985).

#### Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site (Olin Chemical, 1985 and Kapteina, 1985).

#### Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site (Olin Chemical, 1985 and Kapteina, 1985).

#### Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste are known to be disposed on-site that create a potential fire and explosion situation.

Basis of estimating and/or computing waste quantity:

(Olin Chemical, 1985 and Kapteina, 1985).

\* \* \*

#### 3. TARGETS

#### Distance to Nearest Population

Site is in a residential area, 0.0 mile (ES and D&M Site Inspection, 3/25/85).

#### Distance to Nearest Building

97th Street Church building is located on-site (ES and D&M Site Inspection, 3/25/85).

#### Distance to Sensitive Environment

Distance to wetlands:

None within 1 mile of the site (NYS Wetlands Maps).

Distance to critical habitat:

None within 1 mile (NYSDEC, Region 9, Department of Fish and Wildlife, 1985).

#### Land Use

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

Approximately 0.5 mile (ES and D&M Site Inspection, 3/25/85).

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

More than 2 miles (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

Distance to residential area, if 2 miles or less:

Site is in a residential area, which is currently partially abandoned due to the proximity to Love Canal (ES and D&M Site Inspection, 3/25/85).

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

More than 1 mile (USGS Topographic Map: Tonawanda West, NY Ouadrangle, 1980).

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

More than 2 miles (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

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

No.

#### Population with 2-Mile Radius

24,493 people (US Census Data, 1980).

#### Buildings Within 2-Mile Radius

6,445 buildings (USGS Topographic Map: Tonawanda West, NY Quadrangle, 1980).

#### DIRECT CONTACT

#### 1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

No information was obtained during the Phase I investigation which indicates that a direct contact incident occurred at this site.

\* \* \*

#### 2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the facility (ES/D&M Site Visit).

\* \* \*

#### 3. CONTAINMENT

Type of containment, if applicable:

No waste disposal activities are known to have occurred on-site. Waste disposal activites were suspected at this site but have been determined to have occurred at the 99th Street Church site (Olin Chemicals, 1985; Kapteina, 1985). Unlined landfill.

\* \* \*

#### 4. WASTE CHARACTERISTICS

#### Toxicity

Compounds evaluated:

Not applicable (Kapteina, 1985).

Compound with highest score:

Not applicable.

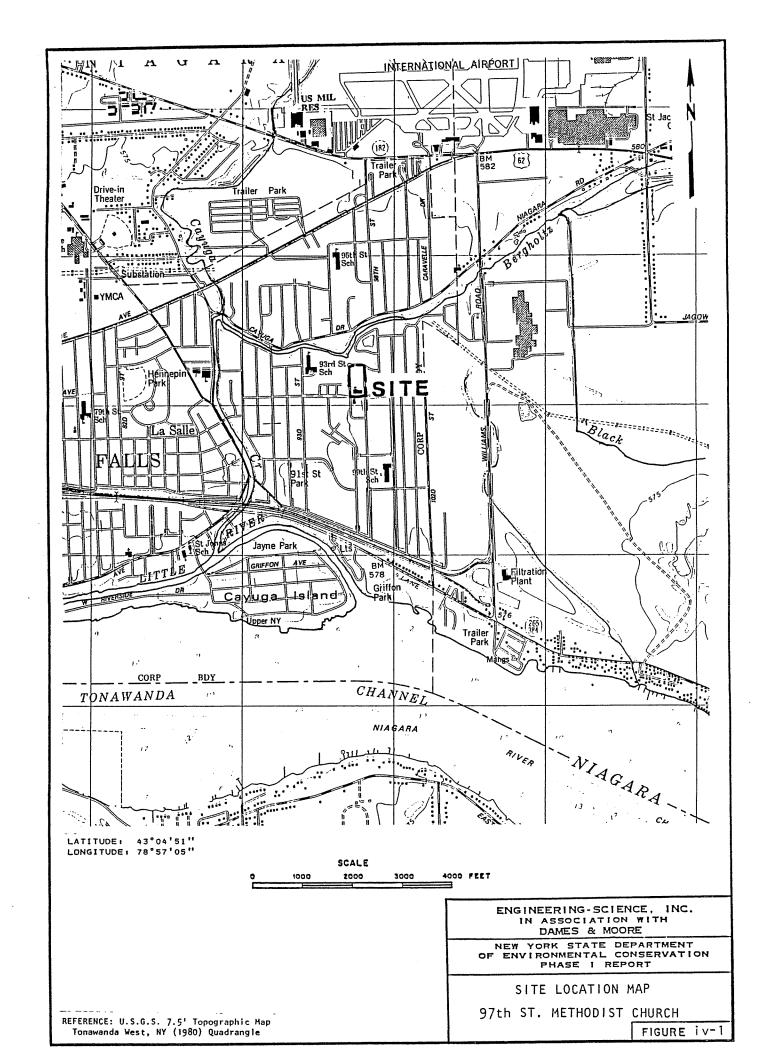
#### 5. TARGETS

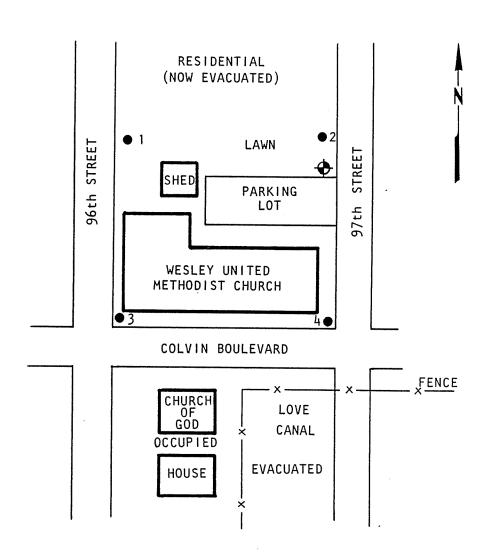
#### Population within one-mile radius

11,264 (US Census Data, 1980).

#### Distance to critical habitat (of endangered species)

None within one mile (NYSDEC, Region 9).





NOT TO SCALE

#### **EXPLANATION:**

- 3 TEST BORING AND SUBSTRATE SAMPLE by U.S.G.S. 1982
- MONITORING WELL FOR LOVE CANAL STUDY

ENGINEERING-SCIENCE, INC. IN ASSOCIATION WITH DAMES & MOORE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE I REPORT

PLOT PLAN
97th ST. METHODIST CHURCH

FIGURE iv-2

### **\$EPA**

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

	TIFICATION
01 STATE	D9853467

<b>YEFA</b>	PART 1 - SITE INFORMA	[/V / ] <del>[</del>	/V / 19 7805 09 817	
II. SITE NAME AND LOCATION				
01 SITE NAME (Legal, common, or descriptive name of site)	thodist Church		CBING -	
10.12aara Fells		104 STATE 05 ZIP CODE 06 CC	NOON OL	07COUNTY 08 CONG CODE DIST 060 36
09 COORDINATES LATITUDE 430451	0785705.		0	
10 DIRECTIONS TO SITE (Starting from nearest public ros	d) .			
III. RESPONSIBLE PARTIES				
OI OWNER (18 known) United Matholist (	hurch,	02 STREET (Business, mailing, resident	. St	a .
Rulalo			06 TELEPHONE NUMBER (716)633 - 8558	
07 OPERATOR (If known and different from owner)	and the second s	08 STREET (Business, making, residen	(tal)	
09 CITY			12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) A. PRIVATE  B. FEDERA	AL: (Agency name)	C. STATE	□D.COUNTY □ E. MUN	NICIPAL
☐ F. OTHER:	· (Specify)	G. UNKNOW	N	
14 OWNER/OPERATOR NOTIFICATION ON FILE (C	heck all that apply)		- ATE DECENTED: /	/ × C NONE
A. RCRA 3001 DATE RECEIVED: MON		LED WASTE SITE (CERCLA 103 c)	DATE RECEIVED: MONTH DA	Y YEAR
IV. CHARACTERIZATION OF POTENTIA				
01 ON SITE INSPECTION  X YES DATE /2 - 8    NO MONTH DAY YEAR	BY (Check all Inst apply)  A. EPA  B. E.  LOCAL HEALTH OF	PA CONTRACTOR C. S FICIAL F. OTHER:	STATE D. OTHER (Specify)	CONTRACTOR
	CONTRACTOR NAME(S):			
02 SITE STATUS (Check one)  \[ \begin{align*}     \	UNKNOWN	BEGINNING YEAR ENDING YEAR	UNKNOW!	١
04 DESCRIPTION OF SUBSTANCES POSSIBLY PR	RESENT, KNOWN, OR ALLEGED			<b>5</b>
NO Hazardos	uastes are k	noun to se ch	sposel at 97	Street
(4	wet site			'
05 DESCRIPTION OF POTENTIAL HAZARD TO EN				
OS DESCRIPTION OF POTENTIAETHEATO TO EN	VIII CHILLET AND OTT OF GENERAL			
V. PRIORITY ASSESSMENT				
01 PRIORITY FOR INSPECTION (Check one. If high or			us Conditions and Incidents)	
	MEDIUM Inspection required)  C. LOW (Inspect on to	me avadable basis) D. NONE (No further a	ction needed, complete current dispos	ution (orm)
VI. INFORMATION AVAILABLE FROM				Log TELEPHONE WILLIAMS
5 R Stell I	O2 OF (Agency: Org.) SMQ I VU	aring-Salmi	e (ES)	03 TELEPHONE NUMBER (703) 5円 - 15号
04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE 15.25
1501 littory		C 3	1781591-7575	MONTH DAY YEAR

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2- WASTE INFORMATION

		IFICATION
ο <sub>λ</sub>	STATE	02 SITE NUMBER

	ATES, QUANTITIES, AN ATES (Check all Inst apply)	02 WASTE QUANTI		03 WASTE CHARACTE	RISTICS (Check all that ac	ply)	
A. SOLID B. POWDER C. SLUDGE	E SLURRY  F. LIQUID  G. GAS	(Measures of	wasie quantities ndependent)	☐ A. TOXIC ☐ B. CORROS ☐ C. RADIOA ☐ D. PERSIST	CTIVE 🔠 G. FLAMI	TIOUS [] J. EXPLOSI	VE /E ATIBLE
D. OTHER	(Specity)	NO. OF DRUMS _					
I. WASTE T	YPE			•			
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE						
OLW	OILY WASTE			· ·			
SOL	SOLVENTS						
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	HEMICALS					
IOC	INORGANIC CHEMIC	ALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
	OUS SUBSTANCES (See A	poendix for most frequen	tly cited CAS Numbers)				
1 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATIO
T CATEGOR.		£	e contace	ins merci	ma lotar	and s lists	
	13 tons of	25 /2	201920	, L	ne GITA	Short 16	of site.
	SUSPECTIA	GT SEL	ng works	l from	20 11	SIEW CH	i- Ha
	However, 1	Mormatio	DEFENCE	1 4 4	den con	ence acon	10000
	phase I	study	determan	po that	the cas	1 Ch - 1 -	7.0
	at me	ggra Stre	et chu	site,	not 911	Street.	ne
	gar stra	et Chi		/n 10	torsen It	ere been	e me
	cour sy	stom for	- love	Charact !	carel 1	overs he	
	former So	iti.					<u> </u>
				<u> </u>			_l
V. FEEDST	OCKS (See Appendix for CAS Num	Ders)		- <sub>1</sub>	T		T
CATEGOR	Y 01 FEEDSTO	CK NAME	02 CAS NUMBER	CATEGORY	O1 FEEDS	TOCK NAME	02 CAS NUMBE
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
	S OF INFORMATION (C)	le specific references, e.:	g., state files, sample analysi	s. reports )	<u> </u>		
VI. 300KC			;				
•	Olin Chemo	: د حدا					
	0 .						

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDEN	TIFICATIO <b>N</b>
O1 STATE	02 SITE NUMBER 0980534697

PART 3 - DESCRIPTION	OF HAZARDOUS CONDITIONS AND	INCIDENT	S	
II. HAZARDOUS CONDITIONS AND INCIDENTS		1982		•
01 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 BOBSERVED (DATE: US65 04 NARRATIVE DESCRIPTION	170)	POTENTIAL )	- Alleged Halate
Unknown v	02 BOBSERVED (DATE: USGS) 04 NARRATIVE DESCRIPTION e U 2   S 07 Bis (2 -	-ph+h	alate	J
01 XB. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	POTENTIAL	☐ ALLEGED
Unknown				
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:	)	☐ POTENTIAL	☐ ALLEGED
No				
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	☐ POTENTIAL	□ ALLEGED
No				
01 ☐ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	)	□ POTENTIAL	☐ ALLEGED
No .				
01 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 OBSERVED (DATE: 04 NARRATIVE DESCRIPTION	)	POTENTIAL	□ ALLEGED
No.				
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	□ POTENTIAL	ALLEGED
No				
01   H. WORKER EXPOSURE/INJURY  03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:	)	□ POTENTIAL	☐ ALLEGED
No				
01 XI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:04 NARRATIVE DESCRIPTION	)	POTENTIAL	□ ALLEGED
No				

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	I. IDEN	TIFICATION
	O1 STATE	02 SITE NUMBER 0980534697
_	10/	1 1 0 1 5 C C C C C C C C C C C C C C C C C C

PART 3 - DESCRIPTION OF H.	AZARDOUS CONDITIONS AND INC	CIDENT	s 10 1 10 9	80534671
II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			V	
01 🖸 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:	)	POTENTIAL	□ ALLÈGED
Unknown			,	
			POTENTIAL	□ ALLEGED
01 D K. DAMAGE TO FAUNA 04:NARRATIVE DESCRIPTION (Include name(s) of species)	02 - OBSERVED (DATE:		A POTENTIAL	O Million
Unknown				
01 C L CONTAMINATION OF FOOD CHAIN	02 🗆 OBSERVED (DATE:	}	POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION				
Untraun				
01: M. UNSTABLE CONTAINMENT OF WASTES	02 🗆 OBSERVED (DATE:	)	POTENTIAL	☐ ALLEGED
(Spits/RunoII/Standing liquids, Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	_ 04 NARRATIVE DESCRIPTION		,	
Unknown				
01   N. DAMAGE TO OFFSITE PROPERTY  NARRATIVE DESCRIPTION	02   OBSERVED (DATE:	)	□ POTENTIAL	☐ ALLEGED
No				
	•*•		□ POTENTIAL	□ ALLEGED
01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWT 04 NARRATIVE DESCRIPTION	PS 02 □ OBSERVED (DATE:	}	U POTENTIAL	
Unknown				
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 🖸 OBSERVED (DATE:	)	☐ POTENTIAL	□ ALLEGED
No				
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR A	LLEGED HAZARDS			
No				
·				
III. TOTAL POPULATION POTENTIALLY AFFECTED:				
IV. COMMENTS				
		···		
V. SOURCES OF INFORMATION (Cité specific relevences, é.g., state			•	
Site visit, (1985)	usus (1982)			

9	

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE | 02 SITE NUMBER | D 980534697

PART1-SIT	E LOCATION AN	D INSPEC	CTION INFORM	ATION	
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		1		PECIFIC LOCATION IDENT	
97th Street Methodist	Church	196	ادر) ۱۵(	UN Bluc	\
O3 CITY			05 ZIP CODE	08 COUNTY	07COUNTY 08 CONG CODE DIST
MIAGARA FALLS				NIAGIAR	A 063 36
09 COORDINATES 43 04 51. 072 57 25.	10 TYPE OF OWNERS  (X.A. PRIVATE  (1) F. OTHER	HIP (Check on	DERAL	C. STATE D. CC	DUNTY 🗆 E. MUNICIPAL IKNOWN
III. INSPECTION INFORMATION					
01 DATE OF INSPECTION 02 SITE STATUS	03 YEARS OF OPER	958	. —	UNKN	(O)AM
MONTH DAY YEAR	-	GINNING YEA			Ona
04 AGENCY PERFORMING INSPECTION (Check all that apply)					
A. EPA B. EPA CONTRACTOR RENGINGE	عصرون - عاروم	_ C.MI	JNICIPAL D. !	AUNICIPAL CONTRACT	OR(Name of firm)
ESTATE DE STATE CONTRACTOR Daniel	(Name of firm)	_ 🗆 G. 01	HER	(Specify)	
05 CHIEF INSPECTOR	06 TITLE			07 ORGANIZATION	08 TELEPHONE NO.
JA STEELE T	EN POONS	nontrice.	Scientist	200	(23) 1525 × 1
09 OTHER INSPECTORS	10 TITLE	-3	-	11 ORGANIZATION	12 TELEPHONE NO.
	100000	4.7			( )
to the transition of the same	77.000	A		· · · · · ·	
14162 Papitans				Niegane (	
					( )
-					( )
					( )
13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE		15ADDRESS	· clast	16 TELEPHONE NO
To Jones Co French	Costor .		13-15A10	M 2406	7 (7/3) 233-2-21
ii Donald ware	A		2 Brantu Bullalo	wod Rd	( )
VIII CONCE TO THE			Has		( )
					( )
					( )
					( )
17 ACCESS GAINED BY 18 TIME OF INSPECTION (Check one)  PERMISSION WARRANT  3	19 WEATHER CO		freezy .	and cood	
IV. INFORMATION AVAILABLE FROM					
S. Rosert STEELE I	02 OF (Agency/Org		og Line	€ 1 1 A	03 TELEPHONE NO.
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY		GANIZATION	07 TELEPHONE NO.	08 DATE
S. Royal STEENS II	SU NASIYO!	000	ES.	(SAME)	MONTH DAY YEAR



# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	TEICATION
01 STATE	02 SITE NUMBER D980534697

II. WASTE ST	ATES, QUANTITIES, AN	ID CHARACTERI	STICS				
	TATES (Check all that apply)	02 WASTE QUANTI	TY AT SITE	03 WASTE CHARACTE	RISTICS (Check all that app		_
John soulo	□ E SLURRY	(Messures of must be	waste quantities independenti	☐ A. TOXIC ☐ E. SOLUBLE ☐ I. HIGHLY			
A. SOLID B. POWDER	R, FINES E F. LIQUID	TONS _		☐ B. CORROS			
C. SLUDGE		CUBIC YARDS		D. PERSIST			
C D. OTHER	(Specify)	NO. OF DRUMS				_ m. 1401 A	
III. WASTE T	YPE	1					
CATEGORY	SUBSTANCE N	IAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMÈNTS		
SLU	SLUDGE						
OLW	OILY WASTE			·			
SOL	SOLVENTS						
PSD	PESTICIDES					``	
occ	OTHER ORGANIC C	HEMICALS					
IOC	INORGANIC CHEMIC	CALS					
ACD	ACIDS						
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	OUS SUBSTANCES (See .	Appendix for most frequen	tly cited CAS Numbers)			T	L OF MEASURE OF
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
	23 tons or	t concret	e contain	ing merci	my compo	und 5 lets	
	SUSPECTED	of bei	is dispose	e at t	ne 97th	Street Ch	och Site.
	However 1	who mates	- obtaine	& from	Olin Ches	and den	5 the
	share I	study	determo	ed that	this ugsi	e us de	sescol
	at the	99th Stre	et chuic	site,	not 975	Street.	The
	agn str	est Chr.	L site	In no	lorger the	ere been	re me
	cover so	, stom for	love	Land	card c	over the	
	former S	iti.					
V EEEDST	OCKS (See Appendix for CAS Num	noersi		1			
CATEGOR			02 CAS NUMBER	CATEGORY	01 FEEDST	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
1	ES OF INFORMATION (C	ite specific references, e.	j., state files, sample analysis	. reports )	J.,		
			7 .				
	Olin Chemi	eca.					
1							
1		2		4			

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

		TIFICATION
01	STATE	02 SITE NUMBER 0980534697

	TION OF HAZARDOUS CONDITIONS AND INCIDEN	19-	
II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE: 1982) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
-	Bis (2-ethy likexy)) phthalate,	lion, and	۵ ا
	Bis (2-ethylhexyl) phthalate, butylbenzyl phthalate dete	ected inpre	ound water
01 B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Unknown			
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02   OBSERVED (DATE:)  O4 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
$N_0$			
01 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
No			
01 □ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02   OBSERVED (DATE:)  04 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
No			
01 X F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02   OBSERVED (DATE:)  04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
No.			
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	ALLEGED
No			
01  H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	☐ ALLEGED
No			
01 XI. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL.	□ ALLEGED
No		-	
1	•		

I. IDENTIFICATION				
O1 STATE	02 SITE NUMBER 1)980534697			
107	W780334677			

A	SITE	NSPECTION REPORT HAZARDOUS CONDITIONS AND INCIDENTS	O1 STATE 02	SITE NUMBER 98053469
US CONDI	TIONS AND INCIDENTS (Continued)			• .
AGE TO FLO E DESCRIPT		02  OBSERVED (DATE:)	POTENTIAL	☐ ALLÈGED

01 🔯 J. DAMAGE TO FLORA 04/NARRATIVE DESCRIPTION .	02 🗆 OBSERVED (DATE:)	X POTENTIAL	☐ ALLÈGED
Unknown			
01 🗹 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02	POTENTIAL	☐ ALLEGED
Unknown			
3.,,,,,,,,,,			•
01 L CONTAMINATION OF FOOD CHAIN	02 D OBSERVED (DATE:	H	
01 EL CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
ll aka-			
Unknown			•
01 M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoft/Standing liquids, Leaking drums)	02  OBSERVED (DATE:)	Ì\$√POTENTIAL	☐ ALLEGED
(Spits/Runott/Standing liquids, Leaking drums)  O3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	7. 3.2	
Unknown			
01 ☐ N. DAMAGE TO OFFSITE PROPERTY	02	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION		_	
No			
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS	02   OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
04 NARRATIVE DESCRIPTION			
Unknown		•	
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02	☐ POTENTIAL	☐ ALLEGED
No			
$\sim$			
OF DESCRIPTION OF ANY OTHER WARRING TO THE	NED 1117.0000		
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
No			
100			
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
•			· · · · · · · · · · · · · · · · · · ·
V. SOURCES OF INFORMATION (Cite specific references, e. g., state files,	Sample analysis, reports)		
Site visit, (1985), 1	15G5 (1982)		
	· /		

		71
Y	亡	<b>7</b> A

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION ART 4- PERMIT AND DESCRIPTIVE INFORMATION

I. IDENT	IFICATION
01 STATE	02 SITE NUMBER D990 534697

~ <del></del>	PART 4 - PERMIT	r and desc	RIPTIVE INFORMAT	ION	
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSI	JED 04 EXPIRATION DATE	05 COMMENTS	
A. NPDES					
☐ B. UIC					
☐ C. AIR					
D. RCRA					
☐ E. RCRA INTERIM STATUS					
F. SPCC PLAN			•		
☐ G. STATE (Specify)		·			
☐ H. LOCAL (Soecity)					
☐ I. OTHER (Specify)					
XJ. NONE					
III. SITE DESCRIPTION					
01 STORAGE/DISPOSAL (Check all that apply) 02	2 AMOUNT 03 UNIT 0	FMEASURE	04 TREATMENT (Check all than	eopiy)	05 OTHER
☐ A. SURFACE IMPOUNDMENT			A. INCENERATION		
☐ B. PILES			B. UNDERGROUND IN.	ECTION	BUILDINGS ON SITE
C. DRUMS, ABOVE GROUND			C. CHEMICAL/PHYSIC	AL	
D. TANK, ABOVE GROUND			☐ D. BIOLOGICAL		
☐ E. TANK, BELOW GROUND		i	☐ E. WASTE OIL PROCES		06 AREA OF SITE
F. LANDFILL		1	F. SOLVENT RECOVER	• •	2
☐ G. LANDFARM			G. OTHER RECYCLING	VRECOVERY	(Acres)
☐ I. OTHER			H. OTHER	ecity)	
(Specify)					
07 COMMENTS		<i>a.</i> / `		, + 4	+ 600
Internation Co	lected from	02.20	comes ina	access that	ngramou
unstrok the 2					
on-site, have	not seen	als social	I at the	37th Street	+ Chard Site
010 310 ) 10112	,	00017-07-0		., .,	_
IV. CONTAINMENT					
01 CONTAINMENT OF WASTES (Check one)	C D MODERATE	C 0 NA	DECLIATE DOOR	, D WEEGHE	RE, UNSOUND, DANGEROUS
☐ A. ADEQUATE, SECURE	B. MODERATE	U C. INA	DEQUATE, POOR	U U. INSECUF	RE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, BA	RRIERS, ETC.				
en de la companya de					
not app	mase				
,					
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE: YES 02 COMMENTS					
no apste	ausite				
WI COURSE OF INFORMATION					
VI. SOURCES OF INFORMATION (Cite soe	cinc references, e.g. state files, san	nore analysis, recort	I;		
( Ohn chem	iid)				

	IFICATION
01 STATE	02 SITE NUMBER D990534697

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA . . . . . II. DRINKING WATER SUPPLY 03 DISTANCE TO SITE 02 STATUS 01 TYPE OF DRINKING SUPPLY MONITORED **ENDANGERED AFFECTED** WELL SURFACE \_(mi) C. 🗆 В. □ A. 🗆 в. 🗆 M COMMUNITY (mi) F. 🗆 C. 🗆 D. 🗆 D. 🗆 E. 0 NON-COMMUNITY III. GROUNDWATER 01 GROUNDWATER USE IN VICINITY (Check one) O. NOT USED, UNUSEABLE C. COMMERCIAL, INDUSTRIAL, IRRIGATION (Limited other sources available) ☐ B. DRINKING (Other sources available) ☐ A. ONLY SOURCE FOR DRINKING COMMERCIAL, INDUSTRIAL, IRRIGATION (No other water sources available) 03 DISTANCE TO NEAREST DRINKING WATER WELL 02 POPULATION SERVED BY GROUND WATER. 08 SOLE SOURCE AQUIFER 07 POTENTIAL YIELD 05 DIRECTION OF GROUNDWATER FLOW OF CONCERN 04 DEPTH TO GROUNDWATER OF AQUIFER ☐ YES ☐ NO ≥ 26 inknown (gpd) 09 DESCRIPTION OF WELLS (including useage, depth, and location relative to population and buildings) Love Canal morist 11 DISCHARGE AREA 10 RECHARGE AREA ☐ YES COMMENTS ☐ YES COMMENTS Introur unknown □ NO □ NO IV. SURFACE WATER 01 SURFACE WATER USE (Check one) D. NOT CURRENTLY USED A. RESERVOIR, RECREATION C. COMMERCIAL, INDUSTRIAL ☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES DRINKING WATER SOURCE 02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER DISTANCE TO SITE **AFFECTED** NAME: Bergholtz Creek (mi) (mi) avuaa Niagara River V. DEMOGRAPHIC AND PROPERTY INFORMATION 02 DISTANCE TO NEAREST POPULATION 01 TOTAL POPULATION WITHIN TWO (2) MILES OF SITE B. 24 493 NO. OF PERSONS A. 11264 No. of Persons \_(mi) 04 DISTANCE TO NEAREST OFF-SITE BUILDING 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

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

The 97th Street chink is in a partially as andowed weights hood in the vicinity of the Love cand,

_	,	
3	_	$P\Delta$
<b>A</b> 3		

#### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY D 980534697

\_\_\_ (mi) D.

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check one) COL 02 PERMEABILITY OF BEDROCK (Check one) LOCK POTT COLONITE B. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE (10<sup>-2</sup> – 10<sup>-4</sup> cm/sec) (Greater than 10<sup>-2</sup> cm/sec) A. IMPERMEABLE
(Less than 10<sup>-6</sup> cm/sec) 04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH 03 DEPTH TO BEDROCK unknown unknown 07 ONE YEAR 24 HOUR RAINFALL 06 NET PRECIPITATION 08 SLOPE TERRAIN AVERAGE SLOPE SITE SLOPE DIRECTION OF SITE SLOPE 09 FLOOD POTENTIAL 10 ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY SITE IS IN 7100 YEAR FLOODPLAIN 12 DISTANCE TO CRITICAL HABITAT (of endangered species) 11 DISTANCE TO WETLANDS (5 acre minimum) MIGRATORY AQUILA CHRYSAETOS **ESTUARINE** OTHER BIRDS ENDANGERED SPECIES: HALI AEETUS LEUCO CEPH (mi) (mi) FALLO PEKEGKENES 13 LAND USE IN VICINITY DISTANCE TO: AGRICULTURAL LANDS
PRIME AG LAND AC RESIDENTIAL AREAS; NATIONAL/STATE PARKS, AG LAND FORESTS, OR WILDLIFE RESERVES COMMERCIAL/INDUSTRIAL

B. 0.07

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

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

9	F	P	Δ
		2 A	

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

I. IDENTIFICATION				
01 STATE	02 SITE NUMBER 1980534691			

VLIA	P.	ART 6 - SAMPLE AND FIELD INFORMATION	70 1 10 700 30 10 14	
. SAMPLES TAKEN		Los candi de Seat To	03 ESTIMATED DATE	
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	RESULTS AVAILAB	
GROUNDWATER				
SURFACE WATER				
WASTE				
AIR				
RUNOFF				
SPILL				
SOIL				
VEGETATION				
OTHER				
L FIELD MEASUREM	ENTS TAKEN			
TYPE	02 COMMENTS			
Air	HNur	Hou readings wie taken during the		
	<ul><li>&lt;1/li&gt;<li>&lt;1/li&gt;</li></li></ul>	Hur readings were taken during the site i nivestigation - values obtained		
	were	all 19m then 12	) Ma	
		The top were		
V. PHOTOGRAPHS A		02 IN CUSTODY OF FINGHAREMAN -		
01 TYPE & GROUND		(Name of organization or indire	ndual)	
□-YES □ NO	Site mayo un	s updated dring sta	ns to stron	
	A COLLECTED (Provide narrative of	escription)		
VI COURCES OF INF	OPMATION (Change of the control	s, e.g., state files, sample analysis, reports)		
			/ was	
Site in 2)	ection conducti	I by Es and Dem, 3,	/23/45	

<b>\$EPA</b>	SITE INSPI	ARDOUS WASTE SITE ECTION REPORT NER INFORMATION	I. IDENTIFICATION OF THE PROPERTY OF THE PROPE	ATION ITE NUMBER 18053469
I. CURRENT OWNER(S)		PARENT COMPANY (II apparable)		
I NAME In ted Methodist	Church O2 D+8 NUMBER	Mestern Dom Aux Co		D+8 NUMBER
3 STREET ADDRESS (P.O. Box, RFD #, et	04 SIC CODE	10 STREET ADDRESS (P.O. BOX. RFD P. otc.)  9 499 Main St		11 SIC CODE
5 CITY	06 STATE 07 ZIP CODE	12 CITY	13 STATE 1	1/1 ~ ~ .
O Alexan	144 14221	Buttalo		14221
1 NAME	02 D+8 NUMBER	08 NAME	0:	9 D+8 NUMBER
OS STREET ADDRESS (P.O. Box, RFD #. et	c.)   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 1	4 ZIP CODE
O1 NAME	02 D+8 NUMBER	OS NAME	•	9 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #.	ec.) 04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #, erc.)		11SIC CODE
05 CITY	06 STATE 07 ZIP CODE	12 CITY	13 STATE 1	4 ZIP CODE
DI NAME	02 D+8 NUMBER	08 NAME		9D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)  04 SIC CODE		10 STREET ADDRESS (P.O. Box. RFD #. etc.)		1 1 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
III. PREVIOUS OWNER(S):(List ri	nost recent first) -	IV. REALTY OWNER(S) (II applicable: II		
OI NAME Mary Anne Nye	02 D+8 NUMBER	01 NAME	ľ	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	06STATE 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
O1 NAME	02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
OS STREET ADDRESS (P.O. BOX. AFD A.	etc.) 04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.	.,	04 SIC CODE

02 D+8 NUMBER

04 SIC CODE

05 STATE 07 ZIP CODE

06 STATE 07 ZIP CODE 05 CITY 06 STATE 07 ZIP CODE 05CITY V. SOURCES OF INFORMATION (Cité apecific references, e.g., state files, sample analysis, reports) Review of proporty seed runing site inspection of the William Wingare Country Clerks' Office, 4/18/85.

05 CITY

01 NAME

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

02 D+8 NUMBER

04 SIC CODE

08 STATE 07 ZIP CODE

03 STREET ADDRESS (P.O. Box. RFD #. etc.)

05 CITY

01 NAME

9	FPΔ

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

	TFICATION	
O) STATE	02 SITE NUMBER	697

ACLY			PART 8 - OPERAT	FOR INFORMATION	UY W	780004697
II. CURRENT OPERATO	R (Provide II different from	curner)		OPERATOR'S PARENT COMPANY (17 appli	cable)	
01 NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER
Site is 05	ardonad					
03 STREET ADDRESS (P.O. 80	x, RFD Ø, 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 1981 - DIESENT						
IIL PREVIOUS OPERAT		st; provide an	ly if different from owner)	PREVIOUS OPERATORS' PARENT COM	PANIES at	applicable)
01 NAME			02 D+8 NUMBER	10 NAME	i	11 D+8 NUMBER
Thorse mothe	die The	- ci s		Western How Talk for in	or of the	
03 STREET ADDRESS (P.O. 8d	sz, RFD #, etc.)	1.	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
\$ 499 311	rin Stee	۴		8499 main Street	<u> </u>	
05 CITY		06 STATE	07 ZIP CODE	14-0117	15 STATE	16 ZIP CODE
Bullato		1.190	14221	Bullalo	1/2	- we will
08 YEARS OF OPERATION						
1961 - 1911 OI NAME Many Anne N OS STREET ADDRESS (P.O. 80	150.	*** C				
OI NAME	Talonat	AA	02 D+8 NUMBER	10 NAME		110+8 NUMBER
Many Annu 1	MG SONOTO 10	<del>// C</del>	104 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		113 SIC CODE
,		•		12 STREET ADDRESS (P.U. BOX, RPD P. BIG.)		10 010 0002
(SESUME SO	me as on	106 STATE	O7 ZIP CODE	114 CITY	T15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING TH	IS PERIOD		لـــــــل	<u> </u>
	Some					
01 NAME			02 D+8 NUMBER	10 NAME		11 D+8 NUMBER
Mobel Ger 03 STREET ADDRESS (P.O. BO	rae					
03 STREET ADDRESS (P.O. 80	z, RFD OHC.	` `	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE
(Assumesz	me as our	(re				
05 CITY		06 STATE	07 ZIP CODE	14 CITY	15 STATE	16 ZIP CODE
08 YEARS OF OPERATION	I .		IS PERIOD			
4	Same					
IV. SOURCES OF INFO	RMATION (Cite aspects)	c references.	e.g., state files, sample analysis	ı, reports)		
- Interview	08 7rm	t. j. 1	ne Medist e	Chiest Representatives	*	rs
Wenver en	e French	· di	ming Site i	respection conducts of	y #3	5 000
121m, 3			,			
·						
- N						

<b>\$EPA</b>
II. ON-SITE GENERATOR
on name  Were
03 STREET ADDRESS (P.O. Box. )

### POTENTIAL HAZARDOUS WASTE SITE

	IFICATION
01,STATE	02 SITE NUMBER

<b>\$EPA</b>	PART 9		CTION REPORT RANSPORTER INFORMATION	107 2	720534617
II. ON-SITE GENERATOR					
or name  Our		02 D+8 NUMBER	No harmiland		8 G.
3 STREET ADDRESS (P.O. Box, RFD #, etc.)	<b></b>	04 SIC CODE	generally min	A.	
DS CITY	06 STATE	07 ZIP CODE	1		
III. OFF-SITE GENERATOR(S)					
Olin Chemicals		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
2400 Buffelo Av	e	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE
Wizgare Falls	08 STATE	07 ZIP CODE	05 CITY	08 STATE	07 ZIP CODE
OI NAME	101	02 D+8 NUMBER	01 NAME	-	02 D+B NUMBER
D3 STREET ADDRESS (P.O. Box, RFD P. etc.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	<u> </u>	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)					
01 NAME		02 D+8 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	OB 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
V. SOURCES OF INFORMATION (Cite s			The condition		
			nel communace	shon 4	124/85
		•		,	

V	

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

I. IDENTIFICATION				
-	٥ <u>۱</u>	STATE	02 SITE NUMBER D 980534697	

VLIA	PART 10 - PAST RESPONSE ACTIVITIES	74 / 1.0.0.	
IL PAST RESPONSE ACTIVITIES			
01 A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 🗆 B. TEMPORARY WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY	
04 DESCRIPTION			
01 C. PERMANENT WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY	
04 DESCRIPTION			
01 □ D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION No			
01 E. CONTAMINATED SOIL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 G F. WASTE REPACKAGED	02 DATE	03 AGENCY	
04 DESCRIPTION $\mathcal{N}_{\mathcal{O}}$			
01 G. WASTE DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 ☐ H. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 🗆 I. IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION	•		
01 ☐ J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 ☐ K. IN SITU PHYSICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 L ENCAPSULATION	02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION NO	·		
01 D N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION Name			
01 O. EMERGENCY DIKING/SURFACE WA	ATER DIVERSION 02 DATE	03 AGENCY	
04 DESCRIPTION NO			
01 P. CUTOFF TRENCHES/SUMP	02 DATE	. 03 AGENCY	
04 DESCRIPTION NO			
01 C Q. SUBSURFACE CUTOFF WALL	02 DATE	. 03 AGENCY	
04 DESCRIPTION			

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

I. IDENTIFICATION	
01 STATE 02 SITE NUMBER	697

<b>VLI</b>	PART 10 - PAST RESPONSE ACTIVITIES	701 10180004011			
II PAST RESPONSE ACTIVITIES (Continued)					
01 GR. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY			
04 DESCRIPTION 人/ご					
01 ☐ S. CAPPING/COVERING	02 DATE	03 AGENCY			
04 DESCRIPTION					
01 T. BULK TANKAGE REPAIRED	02 DATE	03 AGENCY			
04 DESCRIPTION					
01 ' U. GROUT CURTAIN CONSTRUCTED	02 DATE	03 AGENCY			
04 DESCRIPTION					
01 U. BOTTOM SEALED	02 DATE	03 AGENCY			
04 DESCRIPTION NO	•				
01 U. GAS CONTROL	02 DATE	03 AGENCY			
04 DESCRIPTION					
01 ☐ X. FIRE CONTROL	02 DATE	03 AGENCY			
04 DESCRIPTION // )					
01 ☐ Y. LEACHATE TREATMENT	02 DATE	03 AGENCY			
04 DESCRIPTION					
01  Z. AREA EVACUATED .	02 DATE	03 AGENCY			
04 DESCRIPTION STOR SHOWS IN	were abandoned are to	The Land Commit			
01 1. ACCESS TO SITE RESTRICTED	02 DATE	03 AGENCY			
04 DESCRIPTION NO CONSE	lance surrounds the Si	<del>*************************************</del>			
01 2. POPULATION RELOCATED	02 DATE	03 AGENCY			
04 DESCRIPTION  Church Service	ces no longer held.				
01   3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY			
bround a ster encutioning well's have seen installed a mention					
montoning contains	ente Augustian from the	Louis Comer located to			
	he street has the church				
III. SOURCES OF INFORMATION (Cite specific ret	ferences, e.g., state files, sample analysis, reports)				
Site inspection cond	head by Es and DEM				
		′			
		1			



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

1. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 1980534697

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☐-NO

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

He legal action has been taken against the United methodist church or Din chemicals musming the disposite of possibly contaminated conscrete materia. However, the United methodist church in conjunction with other inferested parties are presently engaged in civil class action lawswite against Hocker chemical songrapy presently secretated show it is a law of the laws in the disposal with the law of the laws in the disposal with the

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

Interview of Vernow French, United Inchedist Educat by Es, 3/14/85

### SECTION VI

### ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

### ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Based on this assessment, no Phase II work is recommended and, therefore, a work plan and cost estimate have not been provided.

No Phase II work is recommended for the 97th Street Methodist Church site as a result of information that was discovered during this study. Records from Olin Chemical indicate that the 23 tons of concrete containing mercury were disposed of at the 99th Street Methodist Church site, not the 97th Street Methodist Church site. However, since the 97th Street Church is located adjacent to the Love Canal site, groundwater monitoring from wells on the 97th Street Church site will continue to be monitored as part of that investigation.

TABLE VI-1
ASSESSMENT OF ADEQUACY OF DATA

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Contamination present, but not from this site
Surface Water	Data inadequate for HRS score
Air	Data adequate for HRS score
Route Characteristics	
Groundwater	Data adequate for HRS score
Surface Water	Data adequate for HRS score
Air	Not applicable, no observed release detected with HNu meter readings
Containment	Data adequate for HRS score
Waste Characteristics	Data inadequate for HRS score
Targets	Data adequate for HRS score
Observed Incident	Data adequate for HRS score
Accessibility	Data adequate for HRS score

APPENDIX A REFERENCES

Sources Contacted
Documentation

## SOURCES CONTACTED FOR 97TH STREET CHURCH SITE INVESTIGATION

12/20/84
12/21/84

## SOURCES CONTACTED FOR 97TH STREET CHURCH SITE INVESTIGATION

INFORMATION COLLECTED	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.	Collected information from site files.	Collected information concerning previous air emissions from inactive disposal sites.
LOCATION	50 Wolf Road Albany, NY 12233	Empire State Plaza Justice Building Albany, NY 12233	Buffalo State Office Bldg. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202	600 Delaware Ave. Buffalo, NY 14202
TELEPHONE NUMBER	(518) 457-4346	(518) 473-3105	(716) 847–7196	(716) 847-4615 (716) 847-4615 (716) 847-4590 (716) 847-4585	(716) 847–4565
PERSON	Kevin Walter	Val Washington	Albert Bronson	Ahmad Tayyebi Larry Clare Peter Buechi Jack Tygert	Henry Sandonato Robert Armbrust
DATE	12/20/84	1/7/85	1/3/85	1/7/85	1/8/85
CONTACT	NYSDEC - Division of Environmental Enforcement	NYS - Attorney General's Office, Dept. of Law	NYS - Attorney's Office	NYSDEC - Division of Solid and Hazardous Waste	NYSDEC - Region 9 Division of Air

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SOURCES CONTACTED FOR 97TH STREET CHURCH SITE INVESTIGATION

Ŧ .•

CONTACT	DATE CONTACTED	PERSON CONTACTED	TELEPHONE NUMBER	LOCATION	INFORMATION COLLECTED
NYSDEC - Regional Attorney	1/10/85	Peter J. Burke	(716) 847–4551	600 Delaware Ave. Buffalo, NY 14202	Reviewed list of sites to determine if legal action has occurred in the past, is in progress, and/or is scheduled in the near future.
NYS Dept. of Health, Buffalo Region, Public Health Engineering	1/8/85	Lou Violanti	(716) 847-4500	584 Delaware Ave. Buffalo, NY 14202	Collected information from site files.
NYSDEC - Region 9 Division of Fish and Wildlife	1/10/85 & 1/11/85	Mike Wilkinson Jim Sneider	(716) 847-4600 (716) 847-4600	600 Delaware Ave. Buffalo, NY 14202	Collected information from site files
Niagara County Dept. of Health	1/9/85	Mike Hopkins	(716) 284-3124	Tenth & East Falls Street Niagara Falls, NY 14302	Collected information from Niagara County site files. Obtained additional information through interview.
Niagara County Dept. of Planning and Industrial Development	2/22/85	Dave Urso	(716) 439–6033	59 Park Ave. Lockport, NY 14094	Obtained 1980 U.S. Census Data.
United Methodist Church	3/25/85	Vernon French	(716) 633-8558	8499 Main Street Buffalo, NY 14221	Reviewed ownership history of the site.
Buffalo District - United Methodist Church	3/25/85	Donald Weaver	(716) 832–3233	2 Brantwood Drive Buffalo, NY 14226	Conducted site inspection.
		+ f.			

SOURCES CONTACTED FOR 97TH STREET CHURCH SITE INVESTIGATION

### REFERENCES

- 1. Bitterman, Sue, Western NY Conference of the United Methodist Church, 11/5/85.
- 2. Cummings, Dave, Olin Chemicals, Telephone Interview, 11/12/85.
- 3. Freeze, R. A., and Cherry, J.A., Groundwater, 1985.
- 4. French, Vernon, C., Western NY Conference, Letter to M. Chen, NYSDEC, 2/7/85.
- 5. Hopkins, Mike, NCHD, Telephone Interview, 10/28/85.
- 6. Ianotti, J., NYSDEC, Personal Communication, 4/24/85.
- 7. Jordan, E. C., Company, Subsurface Investigation.
- 8. Kapteina, Alan, Olin Chemicals, Telephone Interview, 11/6/85.
- 9. NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.
- 10. NYS Museum and Science Service Bedrock Geology Map, Map and Chart Series, No. 15 (compiled by Rickard, L. V., and Fisher, D. W.).
- 11. NYS Wetlands Maps (Not Provided in Appendix).
- 12. NYSDEC, Region 9, Department of Fish and Wildlife Files.
- 13. NYSDEC, Registry Sheet, 12/83.
- 14. NCHD, Site Profile Report, 1982.

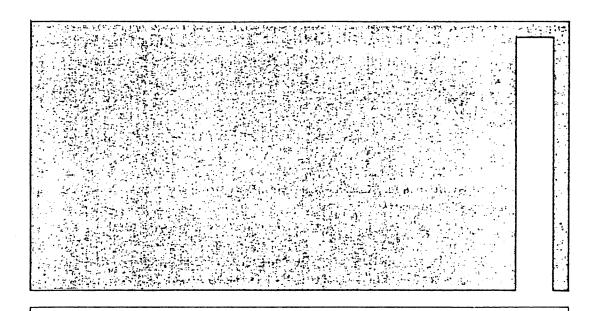
- 15. Olin Chemicals, Cummings, Letter to Lisa Ryan, 12/19/85.
- 16. Olin Methieson Chemicals Corporation, Internal Memo, 9/9/58.
- 17. Olin Mathieson Chemicals Corporation, Internal Memo, 8/12/58.
- 18. US Census Data, 1980.
- 19. US Department of Commerce. "Climatic Atlas of the United States".
  1979.
- 20. US Department of Commerce Technical Paper No. 40. "Rainfall Frequency Atlas of the United States". 1963.
- 21. USGS Topographic Maps: Tonawanda West NY Quadrangle, 1980.
- 22. USGS Draft and Final Report of the Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste Disposal Sites.

### INTERVIEW FORM

	REF-1
INTERVIEW FOR	MOV 25 1985
INTERVIEWEE/CODE Sue Bitterman	
TITLE - POSITION Wentern D.y Compan	ence of Plinetad mother Cher
ADDRESS 8499 Main St.	O FILE
CITY Buffalo	STATE N. GOPPES ZIP MAZI
PHONE (716) 633-8558	OCIKO
LOCATION telephone commensation	
DATE/TIME 100 5, 1985	- · ·
SUBJECT: 99 th St. Mothadist Churc	h
REMARKS: Sue Bittornan provided  that a Methodiat Church did  approximately 40 years ago  property in 1965. The chur  and a private residence us	The church sold the
I AGREE WITH THE ABOVE SUMMARY OF THE I	NTERVIEW: A. Betternan
COMMENTS:	
· · · · · · · · · · · · · · · · · · ·	

### INTERVIEW FORM

INTERVIEWEE/CODE Our Cum no 20 Com
TITLE - POSITION Environmental Propert Superprises Olin Chamical
ADDRESS FO. NOV 218
CITY Charleston STATE JOHNSON CC ZIP 37310
PHONE (A15) 336 - 4000 RESIDENCE PERIOD TO
LOCATION to Pophone conversation INTERVIEWER der a Pyary
DATE/TIME 1000 1A 1985 @ 3:15 PM.
SUBJECT: Disposal of motorices by Olin Chemical di Buffalo, NI
REMARKS: Mr. Cummings in familian with the wall of
whother emerger concrete was disposed of at a church
on 97 th st or 99th St. He dates that the broken contri
vas usæt as fill when an addition was added to a
methodist Church on 99 th St. He has agreed to premiets
a monthly report from Olin Chemical that will decrement
that this was the actual outs of dimping (Treatment)
Church)
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE
COMMENTS:
COLLIBERTO



### R. Allan Freeze

Department of Geological Sciences
University of British Columbia
Vancouver, British Columbia

### John A. Cherry

Department of Earth Sciences University of Waterloo Waterloo, Ontario

### GROUNDWATER

Prentice-Hall, Inc. Englewood Cliffs, New Jersey 07632 2

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Table 2.2 Range of Values of Hydraulic Conductivity and Permeability

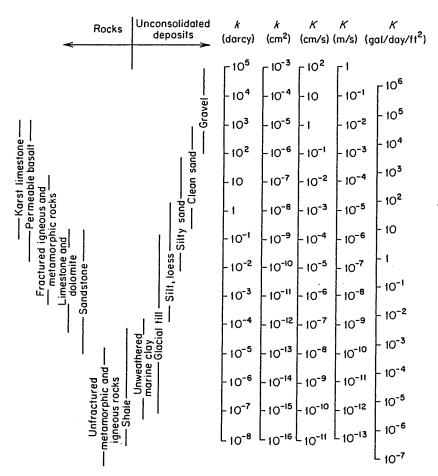
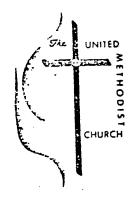


Table 2.3 Conversion Factors for Permeability and Hydraulic Conductivity Units

	Permeability, k*			Hydraulic conductivity, K		
	cm²	ft²	darcy	m/s	ft/s	gal/day/ft <sup>2</sup>
cm <sup>2</sup>	1	$1.08 \times 10^{-3}$	1.01 × 108	9.80 × 10 <sup>2</sup>	$3.22 \times 10^{3}$	1.85 × 10°
ft²	$9.29 \times 10^{2}$	1	$9.42 \times 10^{10}$	$9.11 \times 10^{5}$	$2.99 \times 10^{6}$	$1.71 \times 10^{12}$
darcy	$9.87 \times 10^{-9}$	$1.06 \times 10^{-11}$	1	$9.66 \times 10^{-6}$	$3.17 \times 10^{-5}$	$1.82 \times 10^{1}$
m/s	$1.02 \times 10^{-3}$	$1.10 \times 10^{-6}$	$1.04 \times 10^{5}$	1	3.28	$2.12 \times 10^{6}$
ft/s	$3.11 \times 10^{-4}$	$3.35 \times 10^{-7}$	$3.15 \times 10^{4}$	$3.05 \times 10^{-1}$	1	$5.74 \times 10^{5}$
gal/day/ft <sup>2</sup>	$5.42 \times 10^{-10}$	$5.83 \times 10^{-13}$	$5.49 \times 10^{-2}$	$4.72 \times 10^{-7}$	$1.74 \times 10^{-6}$	1

<sup>\*</sup>To obtain k in ft<sup>2</sup>, multiply k in cm<sup>2</sup> by 1.08  $\times$  10<sup>-3</sup>.



### Western New York Conference

8499 Main Street - Buffalo, New York 14221

Tel: 716-633-8558

February 7, 1985

RECEIVED

FEB 1: 1985

BUREAU OF HAZARDOUS SITE CONTROL
DIVISION OF SOLID AND
HAZARDON

Mr. Marsden Chen Division of Solid and Hazardous Waste 50 Wolf Road Albany, New York 12233-0001

Dear Mr. Chen:

This is to confirm our telephone conversation of February 7, 1985 regarding Mr. Goddard's letter pertaining to the "preliminary field investigations at inactive hazardous waste disposal sites" which would involve our Conference property known as Wesley United Methodist Church located at Colvin Boulevard and 97th Street in Niagara Falls.

As I indicated on the phone, the Conference became owners of this property in 1961. Therefore, we would not have access to any documents that would enable us to provide you the information Mr. Goddard requested in his letter.

It is my understanding that you will refer this matter to a consultant who will research the data. I would appreciate a copy of the results of the consultant's research.

Thank you.

Sincerely,

Vernon C. French

:mg

Charles N. Goddard Bishop Forrest C. Stith Rev. Donald Weaver, Buffalo District Superintendent

### INTERVIEW FORM

;,	/
INTERVIEWEE/CODE John Jonotti	LINSDEC
TITLE - POSITION DUSON of Sold	+ HSZargons Mesic - 101-200
ADDRESS Ram 414, \$50 WOIF Rd	
	STATE UY ZIP 12233
CITY (IX)OVS	RESIDENCE PERIOD TO
2HONE (5/0) 7 3 7 - 500 5 .	INTERVIEWER SOTIFICAL
LOCATION telephone	18128712.00
	Ella IIII Dhaso T
SUBJECT: 97th St Church Him  Sibject: 97th St Church Him  Site investigation	CNS 10115-104-101000
5. te investigation	<u>.</u>
Olm Chemicals provided	· mlamatron on 125t
Olin Chemicals shortiste	the 1978 Interciency
Oun Chemicals provided in	1100
TO ENCO WINDOWNO	wie.
- Olin indicated they	district of 25 10.00
at the CATA Street	+ Church Sit (1610)
- CANA codice tod. the	at the concrete might
- They ansorrected	d. whosaust merciny.
be contemurace	
	•
I AGREE WITH THE AROVE SUMMARY OF TH	E INTERVIEW:
I AGENE HILL	the same and the same are the same and the s
SIGNATURE:	
germans:	

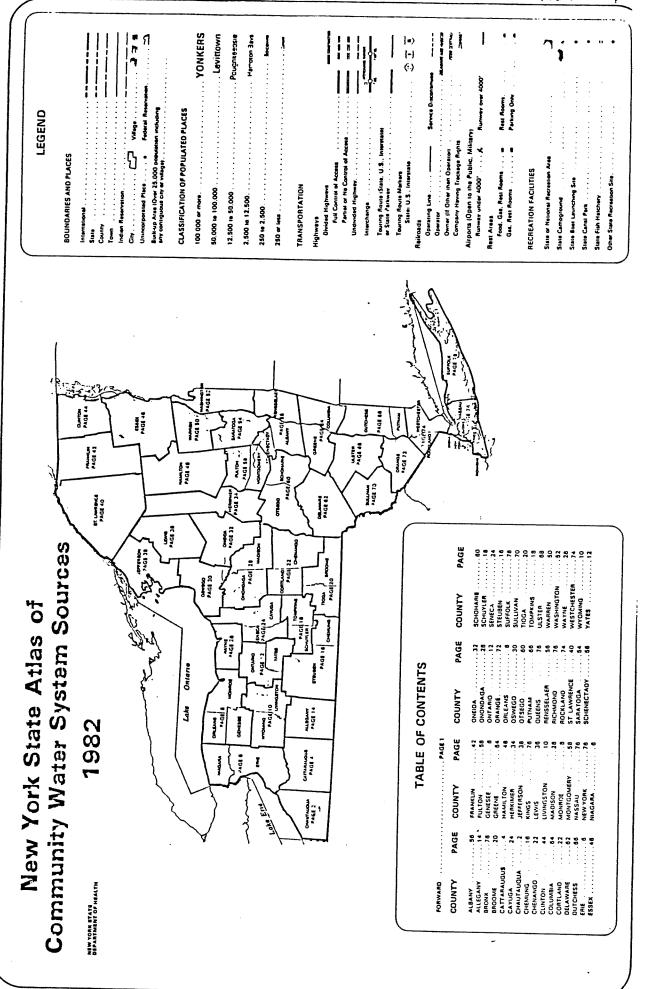
REF-7

### E. C. JORDAN COMPANY, SUBSURFACE INVESTIGATION

References was used during Phase I Sutdy (i.e., Library Source) and is not included in this report.

### INTERVIEW FORM

INTERVIEWEE/CODE alan Kaptuna /
TITLE - POSITION Offerd Friedrenments O Managas / Clim ChamicalCo.
ADDRESS
CITY STATE () (1. ZIP
PHONE (7116) 278 - 6584 RESIDENCE PERIOD TO
LOCATION telephone convencion interviewer Aco a fucer
DATE/TIME 11/1-/85 @ 4:00 P.M.
SUBJECT:
REMARKS: Mr. Kapleina, stated that Olin Chemical doesn't
2000 with the Comption that as the of
militare unio dia princi of in 1958 at the 97th
about methodical church oute His records whow that
the correlation dumped at a 99th atract phathodist
Church The Church congregation was transferred
to a site on colvin Blud (possibly the 97th object
Chieron to the the grant war
CRUSTON STATE OF THE LACE OF THE COMPANIES
corred donne le feels that the sonfusion
et over the site of disposal rame along
example of the congregational mais. The was
replied in to alon Cummong in Challenter Course
to receive a copy of a letter of an experience
(65-336-4000) I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE
COMMENTS:



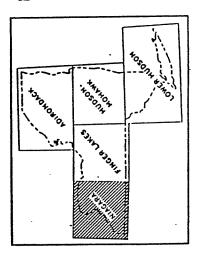
REF.

# GEOLOGIC MAP OF NEW YORK

### Niagara Sheet

	15 Statute Miles 20	25 Kilometers 30	
		20	
Scale 1:250,000	10	15	
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		ស.	
	47		:

CONTOUR INTERVAL 100 FEET



COMPILED AND EDITED BY

Lawrence V. Rickard Donald W. Fisher

March, 1970

NEW YORK STATE MUSEUM AND SCIENCE SERVICE Topographic Base from AMS Quadrangles 1:250,000 scale. MAP AND CHART SERIES NO. 15

### NYS WETLANDS MAPS

NYS Wetlands Maps were reviewed during the Phase I investigation. Individual maps for each site were not obtained and are, therefore, not included in the Phase I reports. Site specific information collected concerning the location of a wetland within 1 mile of a given site is recorded in the documentation section of each report.

### INTERVIEW FORM

INTERVIEWEE/CODE Jun Sneider Mike Wilkenson!  TITLE - POSITION NYSDEC Div of Fish'r Wildlife  ADDRESS Delaware Ave.
TITLE - POSITION NYSDEC Div of Fish + Wildlike,
ADDRESS Dela ware Ave.
PHONE ( ) STATE MY ZIP  PHONE ( ) RESIDENCE PERIOD TO
PHONE ( ) RESIDENCE PERIOD TO  LOCATION IN DEC 0/94 CC INTERVIEWER Elecu Yelligan  DATE/TIME 1/10/857 1/11/851
SUBJECT: Phase T. site information
HEMARKS: The above-hamed intervieweex, provided us with the following information regarding our Phase T site. (see attached list)
1) Wetlande in Niagara Co. & proximity to sites
2) Types of tight weldlife in Frie Wiapana area  3) Use by thick wildlife of Miapana River  4 tributaries
3) We by Jush + wildlife, of A) iagara River
1 Sinutaries
4) Sensitive environments & proposed wetlands in the Ene/Viapara, area
Westlands in the me /Viapana, area
97th Street Church Sito
- there are no wetlands within I mile of site
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: James R. Prider - In Wildlife Biologist (Michael a. William - Conservation Biologist (Aghilie)
COMMENTS: no descussion of wellowly / wildlife regarding
mina Landfill site - referred to Olour Ciffic T

### NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE

### INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE:	2a		SITE	.CODE: 932084	
NAME OF SITE: 97	7th Street	Methodist Ch	urch		REGION: 9
STREET ADDRESS:	97th Stre	et			
TOWN/CITY: Niag	gara Falls	(c)	COUNTY:		
NAME OF CURRENT	OWNER OF	SITE. 97th Str	eet Methodi	st Church	
ADDRESS OF CURRE	INT OWNER (	OF SITE: 97th	Street, Nia	gara Falls, N	IY
TYPE OF SITE:	OPEN DUMF		STRUCTURE	<b></b>	LAGOON
ESTIMATED SIZE:	/	ACRES			
SITE DESCRIPTION Olin Chemicals cells in August feet southeast	used this and Septe	ember of 1958.	. Ine Love	Canal 15 100	a ceu 400
In August of 19 water samples. organic compoun	The resul	lt indicates	heavy concer	to take soi stration of i	l and ron and
				• • • · · · · · · · · · · · · · · · · ·	
				•	
HAZARDOUS WASTE			• •	SUSPECTEI	(POUNDS, DRUMS,
•	TYPE			QUANTIT	Y TONS, GALLONS)
None known			<del></del>		

TIME PERIOD SITE WAS USED FOR HAZARDO	DUS WASTE DISPOSAL:
, 19 58	TO <u>September</u> , 19 <u>58</u>
OWNER(S) DURING PERIOD OF USE: Unkno	wn
SITE OPERATOR DURING PERIOD OF USE: _	Unknown
ADDRESS OF SITE OPERATOR:	
ANALYTICAL DATA AVAILABLE: AIR SOIL X	SURFACE WATER GROUNDWATER X  SEDIMENT NONE
CONTRAVENTION OF STANDARDS: GROUND SURFACE	DWATER DRINKING WATER
SOIL TYPE: Top soil overlying clay (	25 ft.)
DEPTH TO GROUNDWATER TABLE: 26'	
LEGAL ACTION: TYPE: None	STATE FEDERAL
STATUS: IN PROGRESS	COMPLETED
REMEDIAL ACTION: PROPOSED	UNDER DESIGN
IN PROGRESS   NATURE OF ACTION: None	COMPLETED
NATURE OF ACTION: None	
concentration of various organic	er samples taken by USGS indicate high compounds including Butyl benzyl igation is required to confirm the
ASSESSMENT OF HEALTH PROBLEMS:	
	LUEUFFIELEMT INFORMATION
PERSON(S) COMPLETING THIS FORM:	
NEW YORK STATE DEPARTMENT OF	NEW YORK STATE DEPARTMENT OF HEALTH
ENVIRONMENTAL CONSERVATION  NAME Abul Barkat	NAME R. Tramontano
TITLE Sr. San. Engineer	TITLE Bur. Tox. Subst. Assess.
NAME Peter Buechi	NAME
TITLE Associate San. Engineer	TITLE
DATE: November 18, 1983	DATE: 12/83

PAGE 9-556

### RECEIVED

MAR 1 7 1982

N.Y.S. DEPT. OF
ENVIRONMENTAL CONSERVATION
REGION 2 HEADQUARTERS

PRECEDENT ENVESTIGATION AND PROTECT REPORTS FOR THENTY-SET SUSPECTED EXCEPTIVE DISPOSAL SETES IN MIAGRA COUNTY, NEW YORK.

### PRIME BE

NIAGARA COMMI HEALTH DEPARTMENT 10TH & E. FALLS STREETS NIAGARA FALLS, NEW YORK 14302

11270H, 1932

97th Street Lethodist Church (DEC #93203L)

### LOCATION

The site is located at 9610 Colvin Boulevard (between 96th Street and 97th Street) in Niagara Falls, New York. The Wesley United Nethodist Church occupies this site.

### CHEST

The owner of this property is the Wesley United Methodist Church. The church is now abandoned and no forwarding address for correspondence was found.

### **EISTORY**

This is believed to be the site listed as "99th Street listhodist Church" in the DEC publication Hazardous Waste Disposal Sites in New York, Volume 3. It was determined that there is no church on 99th Street.

According to the above publication, Clin Chemical had 23 tons of broken concrete disposed of at this site in August and September, 1958. The church is believed to have been built shortly after this date.

The Love Canal is located 400 feet southeast of this site.

The majority of the homes within a one half mile radius have been exvacuated after a state of "Health Emergency" was declared in 1978. The church was assumed to have been abandoned at this time.

The pastor of the church before closure was Reverend Bruce H. Steams. He no longer resides at his previous address, 10039 Wheller Court and no forwarding address was found.

In December, 1981, Niegers County Health Department personnel inspected the site. The church was boarded up at this time. Reverend Jack Hares, who is the pastor of the Church of God across Colvin Boulevard, did not know of anyone who would be knowledgeable in the matter.

No sign of previous disposal activities could be found by visual inspection.

### PEDILES OF FRENIOUS SAPPLEIG

There is no record of previous sampling at this site.

### PETER OF AFTAL PHOTOGRAPHY

USDA serial photographs, ARE 2V-33 (1966) and ARE 2GU-14 (C/2/58) were examined. In 1958, the site was vacant and no sign of disposal was found. In 1966, the church was in place.

### SCIIS/GICLOGI

A detailed soil survey for this area is unavailable. The surface is estimated to be 50% covered with structures or pavement, therefore, this portion is impervious. The remainder of the surface is grassed. No boring data from nearby areas was found.

The bedrock is Lodport Dolomite over 140' thick. The depth to groundwater is not known. Several water bearing zones are expected in the Dolomite.

### CROWNDHATER

The direction of ground: ater flow is believed to be toward the Niagara River. Due to the proximity of this site to the Love Canal, tracing potential ground: ater contamination to the 97th Street site could be difficult. The effects of the Love Canal are expected to greatly overshadow any effects from the 97th Street site.

There are no known drinking water wells within three miles of this site. There are no industrial users of groundwater in this area.

### SURFACE MATER

The nearest surface water is Black Creek, 200 feet to the north. Black Creek flows to Bergholtz Creek which flows to Cayuga Creek. Cayuga Creek enters the Niagara River roughly two miles downstream from the site.

Elack, Bergholtz and Cayuga Creek waters are not used for drinking or industrial use. The City of Niagara Falls water intakes are three miles downstream from the mouth of Cayuga Creek.

The site is not in a 100 year flood plain and there are no wetlands within one mile.

### <u> PP</u>

According to Ir. Yawas Erk of DEC, norimen have reported odors when servicing catch basins in this area. The source of the odors was not determined.

The number of people remaining within one mile could not be readily determined, but is suspected to be less than 1,000. The nearest occupied residence is the home of Reverend Jack Hayes, 350 feet south on 96th Street. Land use within two miles is primarily residential. Cornercial and agricultural land can be found east of Lillians Road, over one mile away.

### FIRE/EXPLOSICE

If the mastes present are as described by the DES directory, the danger of fire and emplosion is small.

Over 10,000 people and several thousand buildings are located

### PPE/EXPLOSES (continued)

within two miles of the site, including two trailer parks, all of Caraga Island and most of LaSalle.

### DIRECT CONTACT

There is no sign of any exposed material. The church is locked, but access to the grounds is unrestricted.

### CIICINSICIS

Sufficient data to determine the potential impacts of this is not available. The type and quantity of wastes present should be verified. Any effects of the Love Canal on this site are unknown.

Samples could be taken from the grassed areas around the church. Test holes could be randomly placed to search for buried wastes. Access for equipment is available, except of course, beneath the church itself.

### CHEMICALS

P.O. BOX 248, CHARLESTON, TN 37310, (615) 336-4000 December 19, 1985

Ms. Lisa A. Ryan Assistant Geologist Dames & Moore 2996 Belgium Road Baldwinsville, New York 13027 CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re:

99th Street Methodist Church

Dear Ms. Ryan:

Thank you for the copy of the page from the report entitled, "Preliminary Investigation and Profile Reports for Twenty-Six Suspected Industrial Disposal Sites in Niagara County, New York" prepared by the Niagara County Health Department-March 1982. As you noted in our telephone conversation of November 12, 1985, the Niagara County Health Department (NCHD) does state that they believe the 99th Street Methodist Church where Olin disposed of some broken concrete was really the 97th Street Methodist Church. It further states that no 99th Street Methodist Church exists (in 1982).

As I noted in our telephone conversation, we have been over this subject several times, have submitted numerous reports to the NYSDEC which apparently were not widely distributed. The most recent review was sent to Mr. Peter Buechi March 6, 1985. While it is true that there is no 99th Street Methodist Church today, nor did it exist in 1982, a very little bit of effort in research would have shown that there was a 99th Street Methodist Church for many years. Enclosed with this submission are pages from the Niagara Falls City Directory for the years 1946-1965. City directories are readily available and provide the information needed in this particular case.

As can be seen in the enclosed photo copies, the 99th Street Methodist Church is reported at 398 - 99th Street in 1946. It is then reported at 448 - 99th Street from 1949-1961. The 1962 directory reports the address vacant. The 1963 and subsequent directories show no street number 448. Furthermore, eyewitnesses can be produced that the 99th Street church existed.

No Methodist church is noted in these directory pages for 97th Street. The church, however, is at the intersection of 97th Street and Colvin Blvd. and the street address is presumed to be Colvin Blvd. rather than 97th Street. The 97th Street church did not exist until long after Olin's reported disposal.

Olin's records clearly show the concrete disposal at the 99th Street Methodist Church. We reported this in out submission to the "Interagency Task Force on Hazardous Waste". Please note that sections of the two Olin reports from 1958 have been deleted which are not relevant to the 99th Street Methodist Church issue. The 99th Street Methodist Church is now within the capped area of the Love Canal. Olin does not believe the broken concrete was hazardous. The continued efforts to dismiss the 99th Street church as non-existent facility are not clearly understood. We believe the enclosed information clearly shows the time period of its existence (which brackets the time of our reported disposal).

99th Methodist Church Location 448 - 99th Street Niagara Falls, NY 14303

<sup>1</sup> Letter to P. Millock, NYSDEC from Olin dated June 29, 1979. Citation from letter (p.7)

Olin stands ready to assume its responsibilities when responsibility has been appropriately designated, and are willing to work with the various agencies and their representatives to come to judicious solutions to problems. Correcting repetitions of the same misinformation in various reports is time consuming and counter productive. We hope the enclosed information is sufficient to finally close the issue of the 99th Street Methodist Church (now demolished) and the 97th Street Methodist Church.

Sincerely,

OLIN CORPORATION

D.L. Cummings

Supervisor

**Environmental Project Services** 

jmm

Enclosures

cc:

P. Buechi

L. Clare

W. Dimmick

C. Goddard

J. Spagnoli

R. Steele

022

To Mr. J. E. Paker

Magara Falls

9/9/58

REF= 16

FROM W. C. Everest

Дт

COLMENTS ON AUJUST OPERATING RESULTS - CAUSTIC, EOILERS AND PLANT GENERAL

COPIES TO

- 4

46. Sixty man days of labor loaded to other departments.

47. Hineteen and one half days lost due to excused absences.

dendled by yard leborers eighteen truck loads of fly ash twenty-five loads of lime begs and HIM cardtoant cartons. Il loads of scrap wood and burning of papers for office, stores and gate houses.

Refuse removal for August 1958:

99th Street Church
Total

649 Cu. Yds.

Yours very truly,

W. B. Ewel

Wm. G. Everest
Supt. Caustic, Boiler & Plt. Services
Chemicals Division
Niagara Falls Operations

DATE 8/12/58 .

Mr. J. E. Beker

AT Magara Falls

REF-17

om W. O. Everest

COMMENTS ON JULY OPERATING RESULTS - CAUSTIC, BOILERS & PLANT GENERAL.

lesurs.C.C.Hightower
Copies To J.E.Beker
W.J.Sakowski

PLANT GENERAL (Continued)

22. Removed section of iron fence south of main office to provide easy access in case of fire or other emergency.

23. Unloaded cement and mercury from trucks and a box car each of sand and gravel for cell making.

24. Delivered mercury from storage to cell rooms.

25. Put pipe, steel, lumber and drums in racks and did other general labor for stores.

26. Recharged fire extinguishers for Hypo after being used on fires.

27. Put lock fluid in all gate locks.

28. Handled by yard leberors were 31 truck loads of the eship 25 loads of lima bags and HTH Cartons and six loads of

screp wood

29. 19 salt dirt sums cleaned for call rooms.

30. 16-1/2 man days taken to wesh mercury for cell rooms.

31. 46-1/2 man days of labor loaned to other departments.

32. 27 mm days of labor lost due to excused absences.

# Disposal of Refuse Interial

99th St. Church (Broken Cells) 810 "

There was not any material taken by the Research Department to any dump area.

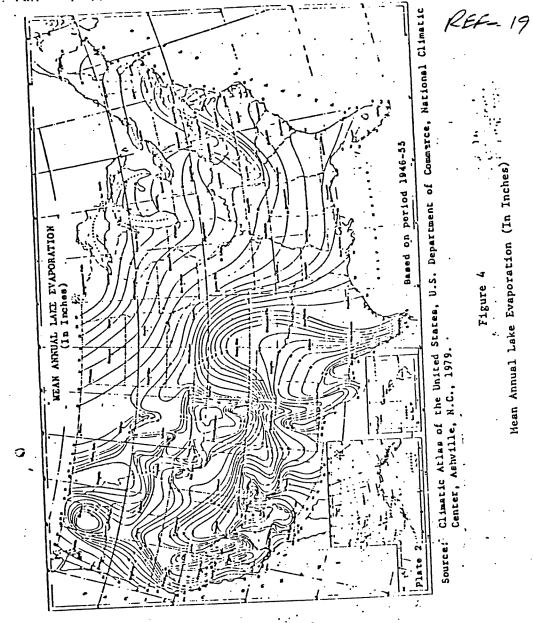
Yours very truly, W. D. Enered g

W. G. Everest

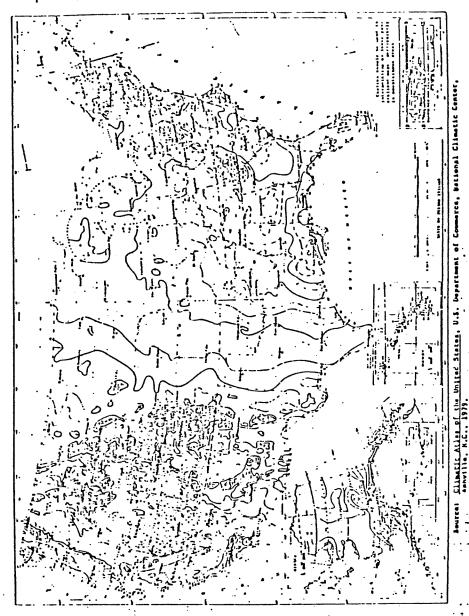
W. G. Everest Supt. Caustic, Boilers & Plant General Chemicals Division Niagara Falls Operations

### US CENSUS DATA, 1980

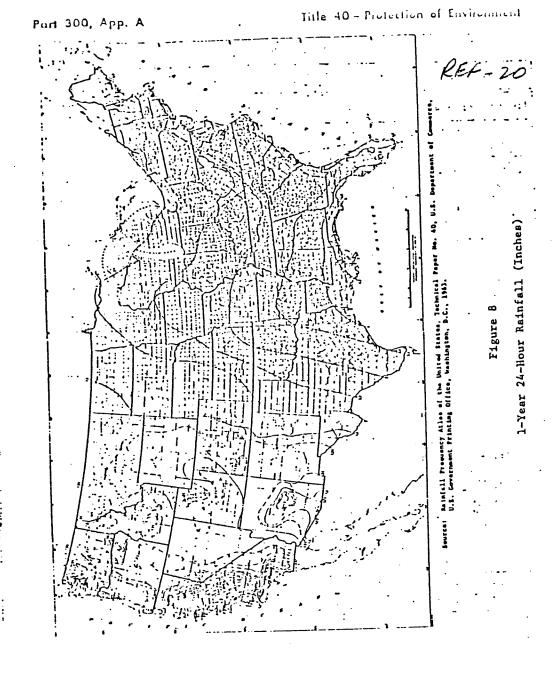
US Census Data used in the HRS scoring was obtained from various County Planning Offices. This data was not obtained from a report. The raw census data combined with County Planning Maps was used to estimate the population within 1, 2, 3, and 4 miles of the Phase I site being investigated. Because of the voluminous amount of data used, the data is not provided in this Appendix.



676

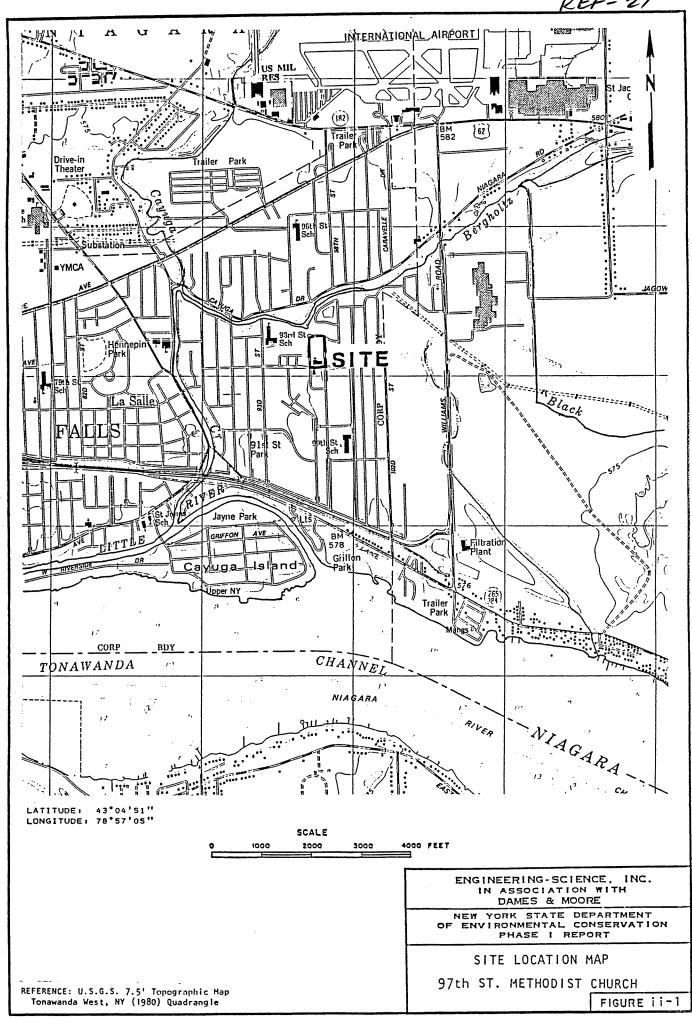


67**7** 



**6** 

REF-21



Herry Study 3-REF - 22

245. 97TH STREET METHODIST CHURCH

# General information and observation potential

The church is located in the city of Ninghra Falls, and is shown on plate 3.

The site was used to dispose of 23 tons of broken concrete cells by Olin

Corporation in 1958.

The chamical and geologic data indicate, a minimal potential for contaminant migration. The extensive clay unit underlying the site should inhibit downward migration, and the chamical analyses do not indicate outward migration from the site. Additional monitoring and sampling would be needed to confirm this, however.

# Geologic information

The site consists of a lacustrine clay about 26 ft thick overlying beitock of Lockport Dolonite. The M.S. Ceological Survey drilled four test burious on the site in 1982; the locations are shown in figure \_\_\_\_. The zeologic loss are as follows:

Borchole No.	Depth (ft)	Pescription
3	0 - 1.5	Brown timewil
	1.5 - 6.5	Clay, plak.
	6.5 -11.5	Clay, pick.
	11.5 -15.5	Clay, pi w.
		SOIL SAIFLE: 16.5 ft.
2 .	0 - 1.5	Topsoil.
-	1.5 - 6.5	Clay, pirk.
	6.5 -11.5	Clay, pink.
		SOIL SAUMLE: 11.5 ft.
3	0 - 1.5	Torsoil.
		Mary State
		Clay, Sire.
		SOU, SASTUTE 3 CL.

Reservate No.	Denth (fr)	Description
4	0 - 1.5	Topsoil.
	1.5 - 6.5	Clay, pink.
	6.5 -11.5	Clay, pink.
	11.5 -16.5	Clav, pink, some gravel.
	1n.5 -21.5	Clay, pick.
	21.5 -26	Clay, pink.
	26	Pedrock.
		WATER SAMPLE: 26 ft.

# Hydrologic information

During the test drilling, the clay became roist at 11.5 ft below land surface and remain so to the top of bedrock. The general direction of graund-water flow in the unconsolidated deposit is probably southward.

# Chemical Information

ground water, two of which were in concentrations above 250,000 \approx/L.

Table .--Analyses of substrate and ground-watch samples from 97th Street Methodist Church, Niugara Falls, N.Y., August 27, 1982. (Locations shown in fig. . Concentrations are in ng/Vg and ng/L; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

					Ground
•	Substrates				water
	1 14.5	2 11.5	3 9.0	26.0	4A 20.0
pH Specific conductance (Ambo/cm	n)	;			7.0 2,730
Inorganic constituents			٠.		
Tron	6,500,000	5,200,000	4,300,000	2,400,000	
Mercury	· ·	· · · · · · · · · · · · · · · · · · ·			
Organic compounds					
Priority pollutants		•			
Diethylphthalate	***	•			1.7
Burylbenzylphthalate					315,00
Bis(2-ethylbexyl)-					
phthalate		up 486			252,000
Possible artifact					
4-Methyl-3-penten-2-one <sup>1</sup>		880			

Tentative identification based on comparison with the National Pareau 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.

General information and chemical-migration potential. -- The 97th Street Methodist Church property, in the city of Niagara Falls, was used for disposal of 23 tons of broken concrete cells from Olin Corporation in 1958.

The potential for contaminant migration is indeterminable. The extensive clay unit underlying the site may inhibit downward migration; although the chemical analyses indicate high concentrations of some organic priority pollutants, they do not indicate offsite migration.

Geologic information.—The site consists of a lacustrine clay about 26 ft thick overlying bedrock of Lockport Dolomite. The U.S. Geological Survey drilled four test borings on the site in 1982; the locations are shown in figure C-57. The geologic logs are on page 418.

Hydrologic information.—During the test drilling, the clay became moist at 11.5 ft below land surface and remained so to the top of bedrock. The general direction of ground-water flow in the unconsolidated deposit is probably southward.

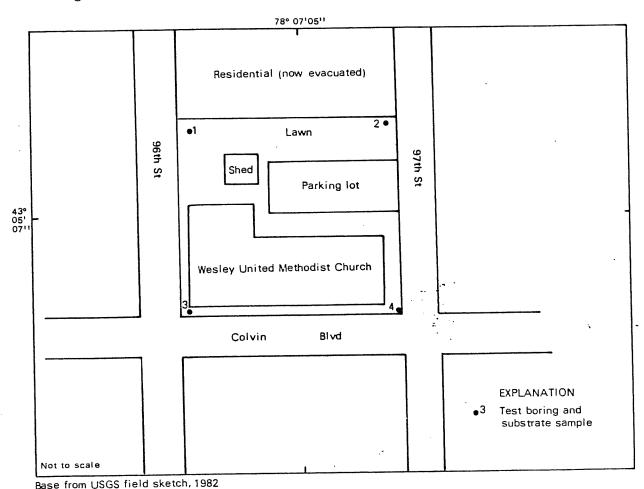


Figure C-57. Location of monitoring wells and sampling holes at 97th St. Methodist Church, site 245, Niagara Falls.

Chemical information.—The U.S. Geological Survey collected four soil samples and one water sample for iron, mercury, and organic-compound analyses; results are shown in table C-36. No mercury was detected. The ground-water sample contained three organic priority pollutants, two of which were in concentrations above  $250.000 \, \mu g/L$ .

Table C-36.--Analyses of substrate and ground-water samples from 97th Street Methodist Church, site 245, Niagara Falls, N.Y., August 27, 1982. [Locations shown in fig. C-57. Concentrations are in  $\mu g/kg$  and  $\mu g/L$ ; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample n	umber and d	eptil perow	Tand Sulla	Ground
(Aug. 1977)	Substrates			water	
	1	2	3	4	4A
	(16.5)	(11.5)	(8.0)	(26.0)	(20.0)
рН					7.0
Specific conductance (µmho/cm	n)				2,730
Inorganic constituents					
Iron	6,500,000	5,200,000	4,300,000	2,400,000	
Mercury					
Organic compounds					
Priority pollutants					
Diethyl phthalate			`		LT
Butylbenzyl phthalate	<del></del>	****	-		315,000
Bis(2-ethylhexyl)					050 000t
phthalate			***	****	252,000†
Possible artifact					
4-Methyl-3-penten-2-onel	tire ever	880			

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.

<sup>†</sup> Exceeds USEPA criterion for maximum permissible concentration in drinking water or New York State standard for maximum concentration in ground water.

Boring no.	Depth (ft)	Description
1	0 - 1.5 1.5 - 6.5 6.5 -11.5 11.5 -16.5	Brown topsoil Clay, pink. Clay, pink. Clay, pink. SOIL SAMPLE: 16.5 ft.
2	0 - 1.5 1.5 - 6.5 6.5 -11.5	Topsoil. Clay, pink. Clay, pink. SOIL SAMPLE: 11.5 ft.
3	0 - 1.5 1.5 - 6.5 6.5 - 8.0	Topsoil. Clay, pink. Clay, pink. SOIL SAMPLE: 8 ft.
4	0 - 1.5 1.5 - 6.5 6.5 -11.5 11.5 -16.5 16.5 -21.5 21.5 -26	Topsoil. Clay, pink. Clay, pink. Clay, pink, some gravel. Clay, pink. Clay, pink. Bedrock. WATER SAMPLE: 26 ft.

APPENDIX B
PROPOSED UPDATED NYS REGISTRY SHEET

# NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION DIVISION OF SOLID AND HAZARDOUS WASTE INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 932084

NAME OF SITE : 97th St. Methodist Chruch

STREET ADDRESS: 97th Street

TOWN/CITY:

COUNTY:

ZIP:

Niagara Falls (c)

Niagara

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-

ESTIMATED SIZE:

Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: 97th St. Methodist Chruch CURRENT OWNER ADDRESS.: 97th St., Niagara Falls

OWNER(S) DURING USE...: Unknown OPERATOR DURING USE...: Unknown

OPERATOR ADDRESS....:

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From August '58 To Sept '58

SITE DESCRIPTION:

Olim Chemicals used this site to dispose of 23 tons of broken concrete cells in August and September of 1958. The Love Canal is located 400 feet southeast of this site. The church is presently abandoned.

In August of 1982, USGS drilled four test borings to take soil and water samples. The result indicates heavy concentration of iron and organic compounds in the water samples.

HAZARDOUS WASTE DISPOSED: Confirmed Suspected -X

TYPE QUANTITY (units)

None Known

Mercury-contaminated concrete (suspected)

23 Tons

SITE CDDE: 932084

#### ANALYTICAL DATA AVAILABLE:

Air- Surface Water- Groundwater-X Soil-X Sediment- None-

#### CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

#### LEGAL ACTION:

TYPE..: None X State- Federal-

STATUS: In Progress- Completed-

#### REMEDIAL ACTION:

Proposed- Under Design- In Progress- Completed-NATURE OF ACTION: None X

#### GEOTECHNICAL INFORMATION:

SOIL TYPE: Top Soil overlying clay (25 ft.)

GROUNDWATER DEPTH: Possibly 26'

#### ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

The test results of the groundwater samples taken by USGS indicate high concentration of various organic compounds including Butyl benzyl phthalate (315 PPM).

#### ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

#### PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION NEW YORK STATE DEPARTMENT OF HEALTH

NAME .: Abul Barkatr .

TITLE: Sr. San. Engineerg.

NAME .: Ronald Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME .. Peter Buechi

TITLE: Ass. San. Engineer

NAME .:

TITLE:

DATE .: 01/24/85

DATE .: 01/24/85