932087

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

St. Mary's And Bishop Duffy School City Of Niagara Falls

Site No. 932087 Niagara County



Prepared for: New York State Department of Environmental Conservation

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

Division of Hazardous Waste Remediation Michael J. O'Toole, P.E., Director

By:

ENGINEERING-SCIENCE

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

ST. MARY'S AND BISHOP DUFFY SCHOOL

NYS SITE NUMBER 932087

CITY OF NIAGARA FALLS

NIAGARA COUNTY

NEW YORK STATE

Prepared For

DIVISION OF HAZARDOUS WASTE REMEDIATION
NEW YORK STATE
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ST. MARY'S AND BISHOP DUFFY SCHOOL

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SECTION I

EXECUTIVE SUMMARY

ST. MARY'S AND BISHOP DUFFY SCHOOL

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC) presents the results of the Phase I investigation for the St. Mary's and Bishop Duffy School (NYS Site Number 932087, EPA Site Number D980535249) located in the City of Niagara Falls, Niagara County, New York (see Figure I-1).

SITE BACKGROUND

The St. Mary's and Bishop Duffy School site, currently called Niagara Catholic High School, is located in the City of Niagara Falls adjacent to Interstate 190 and the 66th Street School. Between 1947 and 1948, the Diocese of Buffalo purchased the site from the U.S. Government War Assets Administration. The Diocese of Buffalo currently owns the site (Kennedy & Stoeckl, 1985).

According to Hazardous Waste Disposal Sites in New York State, Vol. III, Hooker Chemical Company utilized the site for disposal of fly ash during the 1950s (NCHD, 1982). During the same period, low-level radioactive slag was used as fill material in low lying areas of the site, according to Father Clifford, previous Principal of Niagara Catholic High School. Although no hazardous wastes are known to be landfilled on-site, studies have not been conducted to determine if drums are buried on-site. The quantity of wastes buried on-site is unknown; however, the low-level radioactive wastes are suspected of being buried under the present football field and asphalt parking lot (NCHD, 1982; NUS, 1985).

Monitoring was conducted at the St. Mary's and Bishop Duffy School site by the USGS and NUS Corporation in 1982 and 1985, respectively. Soil samples collected by the USGS were analyzed for organic priority pollutants, iron and mercury. Iron was detected but not in concentrations significantly above background levels (USGS/EPA, 1985).

Soil samples collected by NUS Corporation were taken at six locations at the school site and analyzed for organics, TCDD, inorganic constituents, pesticides and PCBs. The sample locations are shown on Figure I-2. Contaminants detected above soil detection limits include methylene chloride and PAHs. TCDD (0.098 ppb) was detected northwest of the football field at sample location NYA4-S2A (NUS, 1985). The metal concentrations were not found in concentrations exceeding levels typically found in natural soils (USGS/EPA, 1985).

As part of NUS's soil sampling activities, the soil samples collected from the six sample locations were screened for radioactivity. No radioactivity was detected as a result of this screening process (NUS, 1985). However, slag found beneath the parking lot had radioactive levels exceeding background levels. These radioactive levels were considered safe by local health officials as the slag was covered by the parking lot; therefore, no corrective action was taken (NCHD, 1982 and NUS, 1985).

HNu meter readings were taken during a site inspection by Engineering-Science (ES) and Dames & Moore (D&M) in April 1986. No volatile organics were detected upwind or downwind of the site which exceeded background levels. To date, no groundwater or surface water monitoring has been conducted at the site (NYSDEC Registry Sheet, 1/24/85).

ASSESSMENT

In an attempt to quantify the risk associated with this site, we applied the Hazard Ranking Scoring system (HRS) currently being used by the New York State DEC 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 40CFR 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 hazardous potential of the substances at a facility, 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:

- o 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 \mathbf{S}_{FE} reflects the potential for harm from substances that can explode or cause fires.
- o S_{DC} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).
- o The preliminary HRS score is:

$$S_{M} = 16.88$$
 $S_{A} = 0$
 $S_{GW} = 3.58$ $S_{FE} = 0$
 $S_{SW} = 29.05$ $S_{DC} = 0$

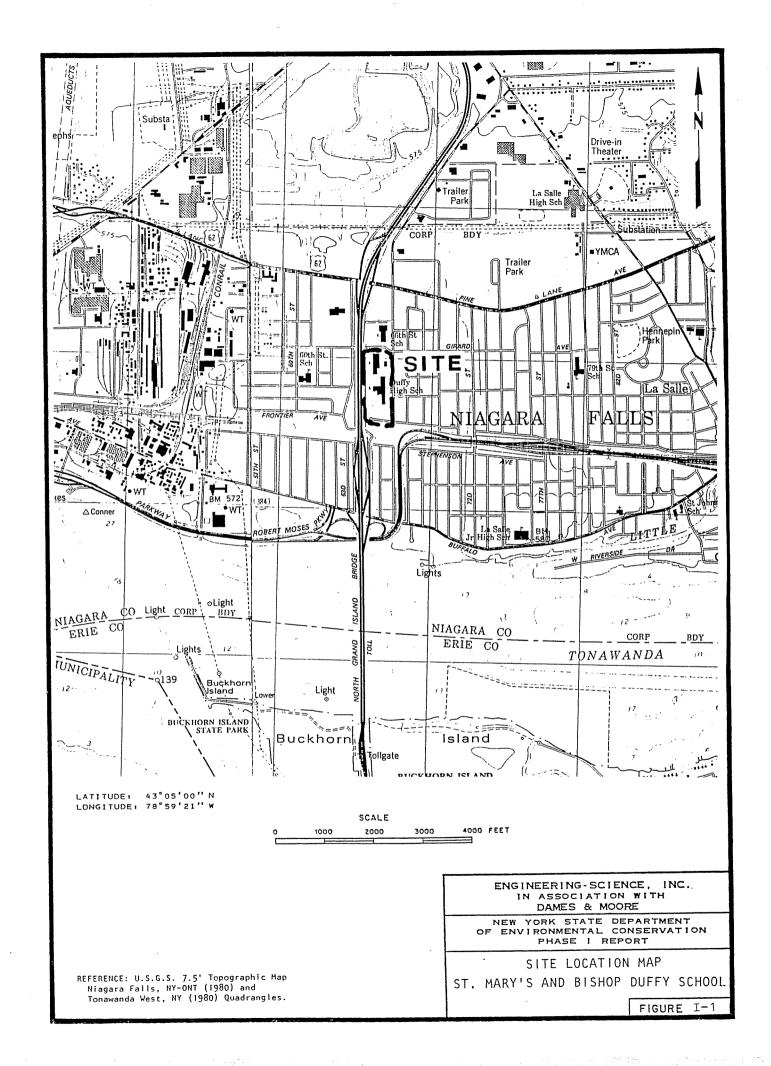
These scores reflect the toxicity of the radioactive slag and fly ash that was used as fill material on site, and the fact that the surface water in the vicinity is used as a water supply.

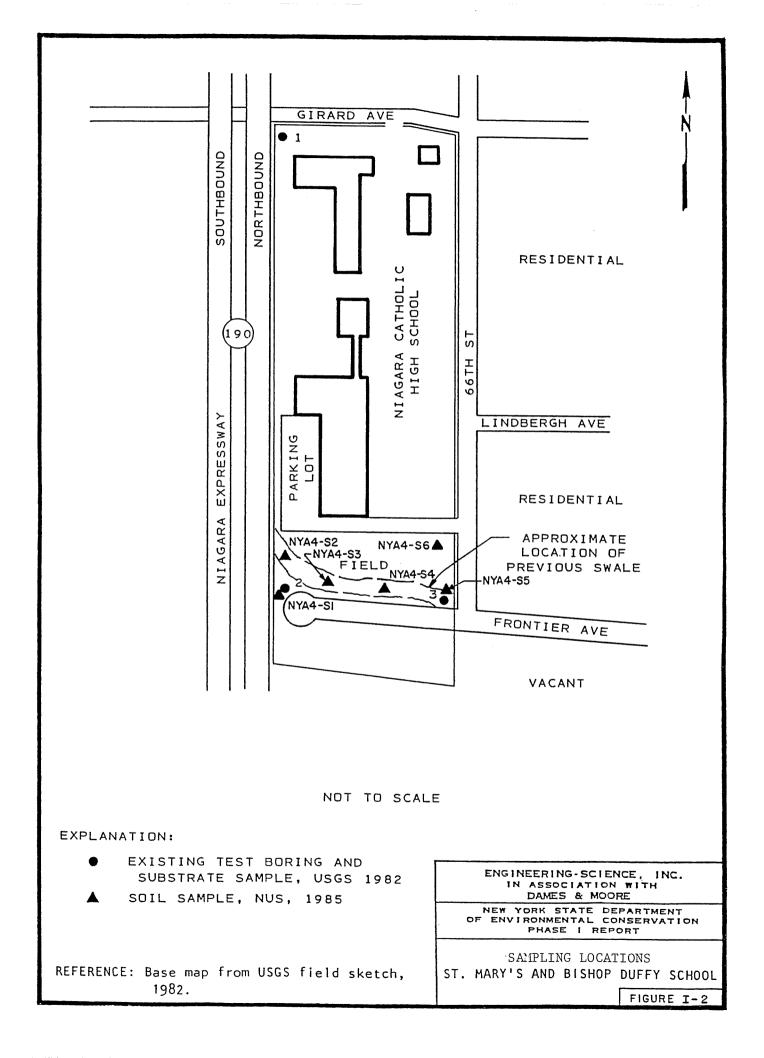
RECOMMENDATIONS

The following recommendations are made for the completion of Phase II:

- o Geophysical Survey Study consisting of electrical resistivity and magnetometer surveys
- o Groundwater monitoring system consisting of one upgradient and two downgradient wells based on results of geophysical surveys.
- o Analyses to include Hazard Substance List (HSL) organics and HSL metals.

The estimated man-hour requirements to complete Phase II are 1,205, while the estimated cost is \$85,838.





SECTION II PURPOSE

The purpose of the Phase I investigation at the St. Mary's and Bishop Duffy School 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, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on the disposal of unknown quantities of fly ash and radioactive wastes. Based on this initial evaluation of the St Mary's and Bishop Duffy School site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

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 individuals knowledgeable 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 this list is to identify all persons, departments, and/or agencies contacted during the fourth round of the Phase I investigation even though useful information may not have been collected from each source contacted.

SECTION IV SITE ASSESSMENT

SITE HISTORY

The Niagara Catholic High School (previously St. Mary's and Bishop Duffy School) site is owned by the Diocese of Buffalo. The Diocese of Buffalo purchased the site from the U.S. Government War Assets Administration in 1947. In 1948, the remaining school property was acquired from the U.S. Government War Assets Administration (Kennedy & Stoeckl letter, 1985). The site consists of a football field and parking lot adjacent to the Niagara Catholic High School.

During the 1950s, unknown local companies and the Hooker Chemical Corporation reportedly disposed of unknown quantities of fly ash at the school site (Hazardous Waste Disposal Sites in New York State, Vol. III, 1985). Low-level radioactive slag were also allegedly used as fill material for low lying portions of the site in the 1950s, prior to the construction of the school (NCHD Site Profile Report, 1982). The company which disposed of the radioactive slag at the site is unknown. The slag wastes are suspected to be buried under the school's existing asphalt parking lot and football field. Review of aerial photographs indicate that a swale which bisected the football field was filled sometime in the late 1950s (NCHD Site Profile Report, 1982; NUS, 1985). It is not known what, if any, hazardous wastes have been disposed on-site (NYSDEC Registry Sheet, 1985).

SITE TOPOGRAPHY

The St. Mary's and Bishop Duffy School site is occupied by the Niagara Catholic High School, located on 66th Street between Girard and

Frontier Avenues, east of Interstate I-190, in the City of Niagara Falls, Niagara County, New York. Although the exact location where fly ash was used as fill on-site is not known, it is believed to include the football field on the southern end of the property. Radioactive slag is suspected to be disposed of beneath the parking lot (NCHD, 1982 and NUS, 1985).

The site is located in a primarily residential area; the nearest residence is approximately 100 feet to the east of the site. Commercial areas are located along Niagara Falls Boulevard, 100 feet north of the site. The site is bordered by Interstate I-190 on the west and an open field to the south. There are no agricultural areas within 2 miles of the site (USGS Topographic Map; NCHD, 1982; and ES and D&M Site Visit, 1985).

The site is currently occupied by school buildings, lawns and sporting fields, and paved parking lots and service roads. No exposed wastes or signs of illegal dumping exist at the site. Since the site is occupied by the school, access is unrestricted.

Areas of surface water ponding occur on the grassy areas of the site; surface water flow is to the east and south into storm drains on 66th Street and Frontier Avenue. The outfall from these storm drains is located at the foot of 60th Street where it discharges to the Niagara River.

Municipal water supply is available in this area. There are no known drinking wells within 3 miles of the site. The nearest industrial wells are located over two miles southwest of the site (NCHD, 1982). The water withdrawn from these wells is used as non-contact cooling water (M. Hopkins Interview, 5/86).

Local Sensitive Environment

A NYS registered wetland, TW-3, is located approximately 0.6 miles northeast of the site. There are no critical habitats with endangered species within 1 miles of the site (Ozard, 1986).

SITE HYDROLOGY

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 (NYS Museum and Science Service Bedrock Geology Map).

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 preexisting 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 lake sediments, the most recent being from Lake Iroquois (a larger predecesor to Lake Ontario) and from Lake Tonawanda (an elongated lake which occupied an east—west valley and drained north into Lake Iroquois). The sediments consist of blanket sands and beach ridges which are occassionally underlain by lacustrine silts and clays (indicating quiet, deeper water deposition).

Granular deposits in this region frequently act as shallow aquifers whereas lacustrine clays, as well as till, 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 (Johnston, 1964).

Site Hydrogeology

Bedrock beneath the site is reported to be Lockport Dolomite (Johnston, 1964). Depth to bedrock is unknown but expected to occur between 20-120 feet (NYSDOH, C. Hudson, 1985). The aquifer of concern is reported to occur within the dolomite, although seasonally perched water-bearing zones may occur in the sand units at depths less than 6 feet (EPA, 1985). The direction of groundwater flow is unknown but believed to be to the south towards the Niagara River.

Detailed soil surveys for this site are unavailable. Shallow borings indicate topsoil and fill, approximately 3 feet thick, overlying a red clay unit with sand lenses to a depth of 6.5 feet. The thickness of the clay unit is unknown; the remaining stratigraphs are also unknown. The soil's profile could be variable throughout the site as a result of past landfilling and construction. For HRS scoring, the permeability of the unsaturated zone is assumed to range from 10^{-3} to 10^{-5} cm/sec (EPA, 1985).

SITE CONTAMINATION

According to a 1979 Interagency Task Force Report, fly ash from the Hooker Chemical Company was buried at the site during the 1950s. Low-level radioactive slag was also reportedly buried onsite, but the source of the waste is unknown (NCHD, 1982). These wastes were allegedly buried on the site where the football field and parking lot are presently located. Review of aerial photographs by the Niagara County Health Department indicate that a swale which bisected the football field was the area that was filled (NCHYD, 1986 and NUS, 1985). The exact location of waste disposal is unconfirmed and it is not known if any hazardous wastes have been disposed of on-site.

In 1982, the USGS collected three soil samples from the St. Mary's and Bisoph Duffy School site as part of the Niagara River Toxic's Study. Two soil samples were collected in the vicinity of the football field

while the third sample was obtained from the northwest corner of the school property. The soil samples were analyzed for several organic compounds, iron and mercury. Analyses for the organic constitutents were either non-detectable or below the quantifiable detection limit. Iron was detected at all three sample locations.

however, background levels of iron at concentrations greater than 15,000 ppm. Mercury was not identified in any of the samples analyzed (EPA/USGS, 1985). A copy of the results from the USGS Study are provided in the appendix.

In June 1985, NUS Corporation collected soil samples at six locations in the vicinity of the football field. The sampling locations These samples were analyzed for are presented on Figure IV-1. polyaromatic hydrocarbons (PAHs), inorganics, TCDD, and PCB/pesticides. Analytical results of the soil samples collected at location NYA4-S6 at the northeast corner of the footbal field contained PAHs such as pyrene (1500 ppb), benzo (a) anthracene (740 ppb), and fluoranthene (1100 ppb) as well as other PAHs that exceeded the detection limits of 330 ppb. One sample collected from the southwestern corner of the football field (sample no. NYA4-S1) contained methylene chloride (11 ppb) and 1,1,1 trichloroethane (6.4 ppb). These levels slightly exceed the detection limits of 5 ppb. No other sample locations had organic levels which Additionally, all six samples were exceeded the detection limits. screened for radioactivity. All results of radioactive metering were Metal concentrations did not exceed the soil background levels established by the Niagara River Toxics Committee. found in concentrations of 0.098 ppb in sample no. NYA4-S2A, however no other samples indicated the presence of TCDD. A summary of organics and metals that were detected by NUS Corporation is provided in Table IV-1 and Table IV-2. A copy of the analytical results are provided in the appendix.

In April 1986, Engineering-Science (ES) and Dames & Moore (D&M) conducted an inspection of the site and the HNu meter readings were taken upwind and downwind of the site. No volatile organics were detected above background levels. To date, no groundwater or surface water monitoring has been conducted at the site (NYSDEC Registry Sheet, 1985).

Constituent	Concentration	Sampling Location Number	Detection Limits, ppb
Methylene Chloride	11 ug/l	NYA4-S1	5
1,1,1-Trichloroethane	e 6.4 ug/l	NYA4-S1	5
Phenanthrene	760 ug/l	NYA4- S6	330
Fluoranthene	1,100 ug/l	NYA4-s6	330
Pyrene	1,500 ug/l	NYA4-S6	330
Benzo(a)Anthracene	740 ug/l	NYA4-S6	330
Chrysene	730 ug/l	NYA4-S6	330
Benzo(b)Flouranthene	740 ug/l	NYA4-S6	330
Benzo(k)Flouranthene	560 ug/l	NYA4 -S6	330
Benzo(a) Pyrene	650 ug/l	NYA4-S6	330
Indeno (1,2,3-cd)Pyr	ene 510 ug/l	NYA4-S6	330
Benzo(ghi)Perylene	580 ug/l	NYA4 -S6	330

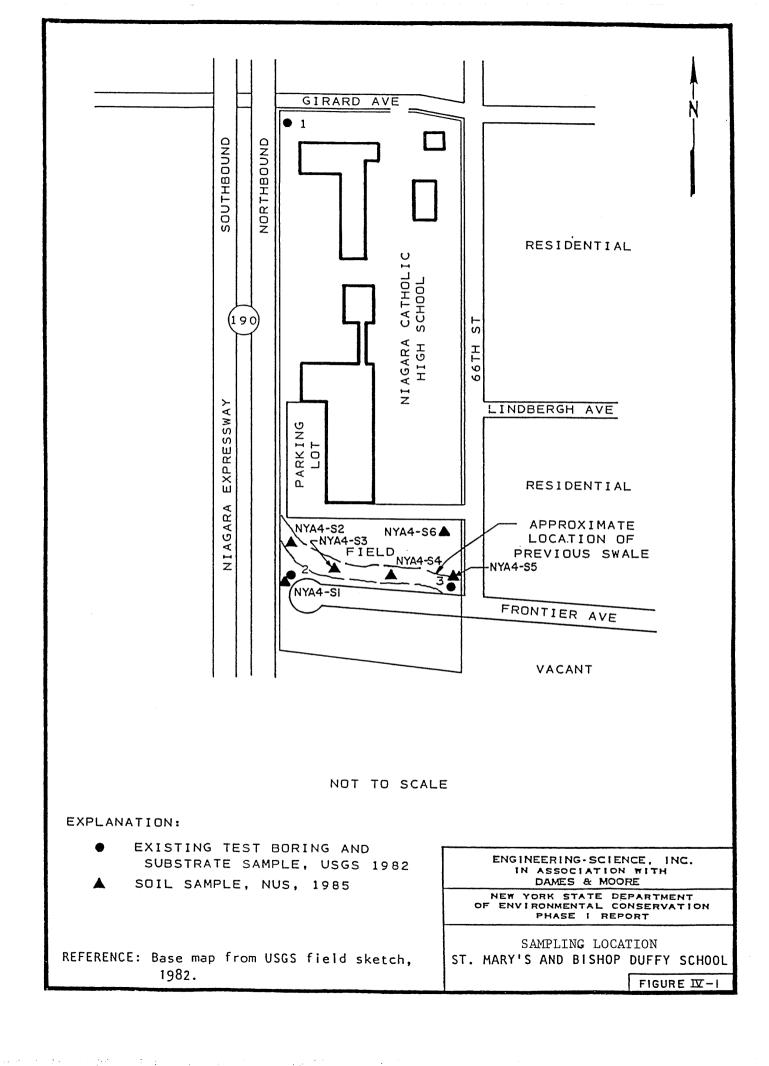
Source: NUS Corporation Report, June 26, 1985

TABLE IV-2 SUMMARY OF SOIL MONITORING FOR INORGANIC COMPOUNDS

	Background						
Constituent	NYA4-S1	NYA4-S2	NYA4-S3	pling Locat NYA4-S4	NYA4-s 5	NYAR-S 6	Concentrations
Arsenic	8.4		_		14	8.7	0.1-100
Barium	122		-	-	-	146	10-500
Chromium	_	15	13	15	13	24	1-2000
Copper	29	15	24	14	29	72	2-100
Iron	29200	17000	12600	14400	14400	26200	100-100,000
Lead	42	8.8	19	14	24	77	10-700
Nickel	29	_		-	_	30	5-7000
Vanadium	33	-	_	_	-	30	20-500
Zinc	158	62	54	62	59	155	5-3500

Source: NUS Corporation Report, June 26, 1985 Note: Concentrations are in ppm.

^{*} USGS, 1984.

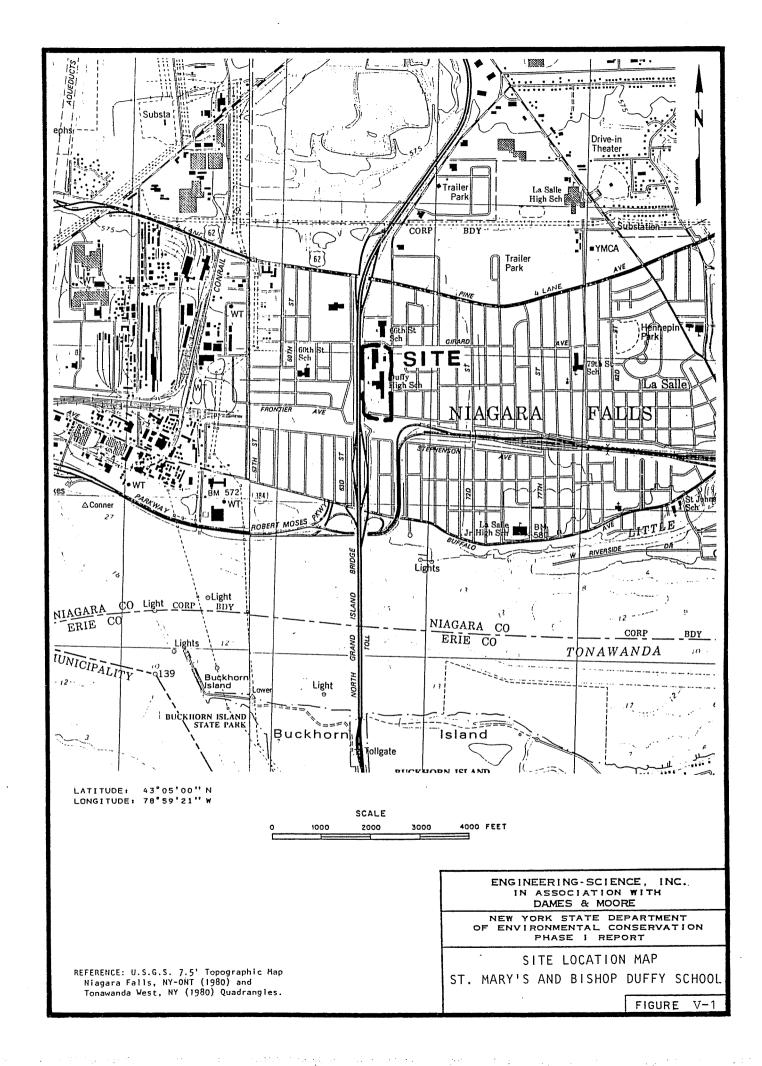


NARRATIVE SUMMARY

The St. Mary's and Bishop Duffy School site (presently Niagara Catholic High School) is located in Niagara Falls adjacent to Interstate 190 and the 66th Street School. The site is currently used as a high school and is owned by the Diocese of Buffalo (NCHD, 1982).

In the 1950's, an unknown quantity of fly ash and radioactive slag were buried beneath the present parking lot and football field. According to the Niagara County Health Department, Hooker Chemical Company was reponsible for the fly ash disposal and an unknown company was responsible for disposal of radioactive slag (NCHD, 1982). Drum disposal on—site is unconfirmed (NUS Corp., 1985). The disposal of hazardous waste is unconfirmed (NCHD, 1982).

Soil sampling was conducted in 1982, 1983, and 1985 by the USGS/EPA and NUS Corporation, respectively. Results of the analysis indicated high levels of PAHs at NUS sample location NYA4-S6 (pyrene: 1500 ug/l, benzo(a)anthracene: 740 ug/l). These samples were above detection limits (330 ug/l). Additionally, metal concentrations did not exceed background levels, and radioactivity was not detected at all six NUS sampling locations. No groundwater or surface water monitoring has been conducted at the site (NCHD, 1982). Results of HNu meter readings taken upwind and downwind of the site did not detect volatile organics (ES and D&M Site Inspection, 1986).



HRS COVER SHEET

Facility Name: Niagara Catholic High School (formerly St. Mary's and

Bishop Duffy School)

Location: 66th Street, City of Niagara Falls, Niagara County, New York

EPA Region: II

Person(s) in charge of the facility: Monsignor Cronin (Diocese of

Buffalo)

Moira O'Dea (Niagara Catholic High

School Principal)

Name of Reviewer: Cathy J. Bosma Date: 4-23-86

General Description of the facility:

The site was used by Hooker Chemical Corporation for the disposal of fly ash. The quantity landfilled is unknown. Radioactive slag is also known to be disposed of on-site by an unknown company. Soil samples taken by NUS Corporation and EPA/USGS indicate the presence of polyaromatic hydrocarbons. Benzo(a)pyrene, phenanthrene and other PAHs were present in soil samples in excess of detection limits. No groundwater or surface water monitoring has been conducted at the site. The Niagara Catholic High School is presently located on the site.

Scores:
$$S_{M} = 16.88$$
 $(S_{GW} = 3.58$ $S_{SW} = 29.05$ $S_{A} = 0)$

$$S_{FE} = 0$$

$$S_{DC} = 0$$

Ground Water Route Work Sheet									
Rating Factor	Assigned Valu (Circle One)		Score	Max. Score	Ref. (Section)				
1 Observed Release	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.									
Route Characteristics Depth to Aquifer of Concern	0 1 2 3	2	4	6	3.2				
Net Precipitation Permeability of the Unsaturated Zone	0 1 ② 3 0 1 ② 3	1	ラ ユ	3 3					
Physical State	0 1 ② 3	1	2	3					
Total Route	Characteristics	Score	10	15					
3 Containment	0 1 2 3	1	3	3	3.3				
4 Waste Characteristics					3.4				
Toxicity/Persistence Hazardous Waste Quantity	Toxicity/Persistence 0 3 6 9 12 15 18 1 Hazardous Waste 0 10 2 3 4 5 6 7 8 1								
Total Waste (Characteristics	Score	19	26					
5 Targets					3.5				
Ground Water Use Distance to Nearest Well/Population Served	0 1 2 3 ① 4 6 8 12 16 18 20 24 30 32 35	3 10 1	30	9 40					
Total T	3	49							
6 If line 1 is 45, mu If line 1 is 0, mul	57,330								
7 Divide line 6 by 57,330 and multiply by 100 $s_{gw} = 2.98$									

GROUND WATER ROUTE WORK SHEET

Facility Name: St. Mary's & Bishop Duffy School Date: 4-23-86

	Surface Water Route Work Sheet								
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)				
1 Observed Release	<u>0</u> 45	1	0	45	4.1				
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.									
2 Route Characteristics					4.2				
Facility Slope and	① 1 2 3	1	0	3					
Intervening Terrain 1-yr. 24-hr. Rainfal Distance to Nearest		1 2	24	3 6	•				
Surface Water Physical State	0 1 Ø 3	1	-	3					
Total Route	Characteristics Sco	re	8	15					
3 Containment	0 1 2 3	1	3	3	4.3				
4 Waste Characteristics					4.4				
Toxicity/Persistence	0 3 6 9 12 15 6	3 1	18	18					
Hazardous Waste Quantity	0 10 2 3 4 5 6 7	8 1	1	8	_				
Total Waste	Characteristics Sco	re	19	26					
5 Targets					4.5				
. Surface Water Use Distance to a Sensi		` 3 2	9	9 6					
Environment Population Served/	0 4 6 8 10	1	30	40	·				
Distance to Water Intake Downstream	12 16 18 20 24 30 32 35 40		-						
Total	Targets Score		41	55					
6 If line 1 is 45, m		5 D • E	18696	64,350					
If line 1 is 0, mu		4 × 5							
Divide line 6 by 6	4,350 and multiply	Ьу 100	S =	29.05					

SURFACE WATER ROUTE WORK SHEET

Air Route Work Sheet								
Rating Factor	Assigned \ (Circle (Multi- plier	Score	Max. Score	Ref. (Section)		
1 Observed Release		45	1	6	45	5.1		
Date and Location: $A_{\mathcal{P}}$	11 23,1986	, jupuan	l and d	ownwi.	id of	cite		
Sampling Protocol:	Nu meter							
If line 1 is 0, the If line 1 is 45, the			5 .					
2 Waste Characteristics	-					5.2		
Reactivity and	0 1 2	3	1		3			
Incompatibility Toxicity Hazardous Waste	0 1 2 0 1 2 3	3 4 5 6 7 8	3 1		9 8			
Total Wast	e Characteris	tics Score			20			
3 Targets						5.3		
	0 9 12	15 18	1		30			
4-Mile Radius Distance to Sensitive	21 24 27 0 1 2	7 30 3	2		. 6			
Environment Land Use	0 1 2	3	1		3			
Total Tar	gets Score				39			
4 Multiply 1 x 2 x	3				35,100			
5 Divide line 4 by 35,100 and multiply by 100 $S_a = \emptyset$								

AIR ROUTE WORK SHEET

Facility Name: St Mary + & Bistop Duffy Scrool Date: 4-23-86

Worksheet for Computing $S_{\mbox{\scriptsize M}}$

	S	s ²
Groundwater Route Score (S _{gw})	2.98	8.88
Surface Water Route Score (S _{sw})	29.05	8 43.90
Air Route Score (S _a)	0,00	0,00
$s_{gw}^2 + s_{sw}^2 + s_a^2$		8 5 2, 78
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2}$		29.27
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 = s_M =$		16.88

WORK SHEET FOR COMPUTING SM

Fire and Explosion Work Sheet										
Rating Factor				d Va e Or	alue ne)		ulti- lier	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 0	1	2 2	3	6 7	7 8	1 1 1 1		3 3 3 8	
Total Wast	e Ch	ara	cte	ris	tics	s So	core		20	
3 Targets						-				7.3
Distance to Nearest	0	1	2	3	4	5	1		5	
Population Distance to Nearest	0	1	2	3			1		3	,
Building Distance to Sensitive	0	1	2	3			1		3	
Environment Land Use Population Within	0	1	2	3	4	5	1		3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0	1		3	4	5	1		5	
Total Ta	rget	s S	cor	e					24	,
4 Multiply 1 x 2 x 3							1,440			
5 Divide line 4 by 1,440 and multiply by 100 S _{FE} = 6										

FIRE AND EXPLOSION WORK SHEET

Facility Name: St Mary's & Bishop Duffy School Date: 4-23-86

Direct Contact Work Sheet								
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)			
1 Observed Incident	<u>0</u> 45	. 1	0	45	8.1			
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2								
2 Accessibility	0 1 2 3	1	3	3.	8.2			
3 Containment	0 15	1	0		8.3			
Waste Characteristics Toxicity	0 1 2 3	5	15	15	8.4			
5 Targets					8.5			
Population Within 1-Mile Radius	0 1 2 3 🕒	5 4	16	20				
Distance to a Critical Habitat	(b) 1 2 3	4	0	12				
Total Ta	argets Score		16	32				
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5 21,600								
7 Divide line 6 by 21,600 and multiply by 100 S _{DC} = 0								

DIRECT CONTACT WORK SHEET

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: Niagara Catholic High School (formerly St Mary's and Bishop Duffy School)

LOCATION: Niagara County, Niagara Falls, New York

GROUND WATER ROUTE

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

No groundwater monitoring conducted at the site (NYSDEC Registry Sheet, 1985).

Rationale for attributing the contaminants to the facility:

Not applicable. No observed release.

* * *

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Lockport Dolomite. Depth to bedrock is expected to be 5 to 15 feet.

(Johnston, 1964)

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

Assumed to be 35', as there are wells of this depth in the vicinity. It should be noted that seasonal perched water bearing zones may occur at depths of less than 6 feet.

(Johnston, 1964; EPA, 1985)

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

Approximately 5' based on USGS borings.
(USGS, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River, 1985)

Net Precipitation (CFR 40, Part 300, 1983)

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

Mean annual precipitation is 36".

(Climatic Atlas of the United States, US Department of Commerce, National Climatic Center, 1979)

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

Mean annual lake evaporation is 27".

(Climatic Atlas of the United States, US Department of Commerce, National Climatic Center, 1979)

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Fine sands and clay.

(USGS, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River, 1985)

Permeability associated with soil type

 10^{-3} cm/sec to 10^{-5} cm/sec. (CFR 40, part 300, 1983)

Physical State

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

Flyash - powder or fine material. Radioactive slag-consolidated solid.

(NYSDEC, Inactive Hazardous Waste Disposal Site Report, 1985)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Unlined disposal area and no run-on control. (NCHD, Site Profile Report, 1982)

Method with highest score:

Unlined landfill.
 (NCHD, Site Profile Report, 1982)

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Polyaromatic hydrocarbons (pyrene, methylene chloride, phenanthrene, fluoranthene).

(USGS/EPA, 1985; NUS Corp. Sampling Results, 1985)

Note: Although groundwater monitoring has not been conducted on-site, several hazardous waste constituents with the potential for migrating into the groundwater were detected in soil samples.

Compound with highest score:

Benzo(a)Pyrene = 18 (Sax. 5th Edition)

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):

The quantity of hazardous waste disposed of on-site is unknown.

(NCHD Site Profile Report, 1982; NYSDEC Registry Sheet, 1983)

Basis of estimating and/or computing waste quantity:

Although the quantity of hazardous disposal on-site is unknown, for purposes of rating the site, a HRS score of 1 is used because soil monitoring detected the presence of hazardous waste constituents at the site.

5. TARGETS

Ground Water Use

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

No known drinking water wells within 3 miles of the site. Industrial wells for non-contact cooling water.

(NCHD, Site Profile Report, 1982, Mike Hopkins Interview)

Distance to Nearest Well

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

Industrial wells on Buffalo Avenue, Niagara Falls.
 (NCHD, Site Profile Report, 1982)

Distance to above well or building:

Approximately 2 miles southeast of site. (NCHD, Site Profile Report, 1982)

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

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

None within 3 miles.
(NCHD, Site Profile Report, 1982; Mike Hopkins Interview, NCHD)

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.
(NCHD, Site Profile Report, 1982)

Total population served by ground water within a 3-mile radius: Zero (0).

SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

No surface water monitoring conducted at the site. (NYSDEC Registry Sheet, 1985)

Rationale for attributing the contaminants to the facility:

Not applicable. No observed release.

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

2-3% (ES and D&M Site Visit, 1985; C. Hudson, NYSDOH, 1985)

Name/description of nearest downslope surface water:

Niagara River, 3500 feet south of site. (USGS Topographic Map: Niagara Falls and Tonawanda West Quadrangles; NCHD, 1982)

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

2-3% (ES and D&M Site Visit, 1985; C. Hudson, NYSDOH, 1985)

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

No.

(ES and D&M Site Visit, 1985)

Is the facility completely surrounded by areas of higher elevation?

1-Year 24-Hour Rainfall in Inches

2.1" (CFR 40, Part 300, 1983)

Distance to Nearest Downslope Surface Water

3500 feet south to Niagara River.
(USGS Topographic Maps: Niagara Falls and Tonawanda West Quadrangles; C. Hudson, NYSDOH)

Physical State of Waste

Fly ash - powder or fine material. Radioactive slag-consolidated solid.

(NYSDEC, Inactive Hazardous Waste Disposal Site Report, 1983)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Site not adequately covered with no diversion system. (ES and D&M Site Visit, 1985; NCHD, Site Profile, 1982)

Method with highest score:

Site not adequately covered and no diversion system. (ES and D&M Site Visit, 1985; NCHD, Site Profile, 1982)

Note: The asphalt paving serves as an impermeable barrier for wastes buried under the parking lot; however, wastes were also reportedly buried under the football field. Therefore, for HRS scoring, the site is not adequately covered.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Polyaromatic hydrocarbons (benzo(a)pyrene, pyrene, fluoranthene) (USGS/EPA, 1985; NUS Corp. Sampling Results, 1985, RECRA Research 1979)

Compound with highest score:

Benzo(a)Pyrene = 18 (Sax 5th Ed.)

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):

Quantity of hazardous wastes disposed of on-site is unknown.

(NCHD Site Profile Report, 1982; NYSDEC Registry Sheet, 12/83)

Basis of estimating and/or computing waste quantity:

Although the quantity of hazardous wastes disposed on-site is unknown, for purposes of rating the site, a HRS score of 1 is used because soil monitoring indicated the presence of hazardous waste constituents at the site.

* * *

5. TARGETS

Surface Water Use

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

Drinking water, recreation, and commercial.
(NYSDOH, Community Water System Sources, 1982; ES and D&M Site Inspection, 1986)

Is there tidal influence?

No.

(USGS Topographic Map, Niagara Falls Quad)

Distance to a Sensitive Environment

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

None within 2 miles.
(NYSDEC, Region 9, Wetlands Map, 1986)

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

Wetland TW-3 locatead approximately 0.6 miles northeast of site. (NYSDEC, Region 9, Wetlands Map, 1986)

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

There are no federally designated critial habitats in New York State (Ozard, 1986).

<u>Population Served by Surface Water</u> (NYSDOH, Community Water System Sources, 1982)

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:

City of Niagara Falls water intakes located on Niagara River approximately 1-2 miles from site. Approximately 80,000 people served.

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

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

No agricultural areas served. (NCHD, 1982)

Total population served:

80,000 people.
(NYS Atlas of Community Water System Sources, 1982; NCHD, 1982)

Name/description of nearest of above water bodies:

Niagara River. (USGS Topographic Maps: Niagara Falls and Tonawanda West Quadrangles)

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

1-2 miles.
(NYS Atlas of Community Water System Sources, 1982; NCHD, 1982)

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

HNu meter did not detect volatile organics upwind or downwind of the site.

(ES and D&M Site Visit, April, 1986)

Date and location of detection of contaminants:

Not applicable, no observed release.

Methods used to detect the contaminants:

HNu meter.

Rationale for attributing the contaminants to the site:

Contaminants with the potential to impact the air pathway, based on HNu meter readings and information reviewed during the Phase I study are not attributed to the site.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

No reactive or incompatible compounds are known to exist on-site. (NYSDEC, Registry Sheet, 1985; NCHD, 1982)

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site. (NYSDEC, Registry Sheet, 1985; NCHD, 1982)

nNYSDEC 4:25

Toxicity

Most toxic compound:

No toxic compounds with the potential to impact the air pathway are known to exist on-site (NYSDEC, Registry Sheet, 1985; NCHD, 1982). Note: Organic constituents detected in soil samples do not constitute an air release because they are buried on-site.

Hazardous Waste Quantity

Total quantity of hazardous waste:

The quantity of hazardous wastes disposed of on-site is unknown (NCHD Site Profile Report, 1982; NYSDEC Registry Sheet, 1983).

Basis of estimating and/or computing waste quantity:

The hazardous waste quantity for the air route is rated as zero since no contaminants with the potential to impact the air pathway are known to exist on-site.

* * *

3. TARGETS

Population Within 4-Mile Radius

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

0 to 4 mi $\frac{0 \text{ to 1 mi}}{4,000 \text{ people}}$ 0 to 1/2 mi 0 to 1/4 mi

Distance to a Sensitive Environment

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

None within 2 miles.

(NYSDEC Department of Regulatory Affairs, Region 9, Wetlands Map, 1986)

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

Wetland TW-3 located approximately 0.6 miles northeast of site. (NYSDEC Department of Regulatory Affairs, Region 9, Wetlands Map, 1986)

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

There are no federally designated critical habitats in New York State (Ozard, 1986).

Land Use

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

```
1000 feet to commercial area.
(NCHD, Site Profile Report, 1982)
```

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

```
None except city parks:
Hennepin Park - 1 mile
Gill Creek Park - 1-1/2 mile
Hyde Park - 1-1/2 mile
(USGS Topographic Map, Niagara Falls and Tonawanda West Quad)
```

Distance to residential area, if 2 miles or less:

```
100 feet. (NCHD, Site Profile Report, 1982)
```

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

```
None. (NCHD, Site Profile Report, 1982)
```

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

```
None. (NCHD, Site Profile Report, 1982)
```

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

```
No. (USDOI, 1983)
```

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

No information was found during the conduct of the Phase I investigation which indicates that there was or is a fire and/or explosion potential at the site.

Type of containment, if applicable:

Not applicable, no wastes on-site that could pose a fire/explosion threat.

(NYSDEC, Registry Sheet, 1985; NCHD, 198; NCHD, 1982)

* * *

2. 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. (NYSDEC, Registry Sheet, 1985; NCHD, 1982)

Reactivity

Most reactive compound:

No reactive compounds are known to exist on-site. (NYSDEC, Registry Sheet, 1985; NCHD, 1982)

Incompatibility

Most incompatible pair of compounds:

No incompatible compounds are known to exist on-site. (NYSDEC, Registry Sheet, 1985; NCHD, 1982)

nNYSDEC 4:25

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous waste quantity information is available for the site. (NCHD Site Profile Report, 1982; NYSDEC Registry sheet, 12/83)

Basis of estimating and/or computing waste quantity:

Hazardous wastes with the potential to cause a fire or explosion hazard are not attributed to the site.

* * *

3. TARGETS

Distance to Nearest Population

Nearest residential area is 100 feet from school site and less than 50 feet from school. (NCHD Site Profile Report, 1982)

Distance to Nearest Building

<1/4 mile to next school. Niagara Catholic High School exists on site.

(ES and D&M Site Visit, 1986)

Distance to Sensitive Environment

Distance to wetlands:

0.6 miles to Wetland TW-3
 (NYSDEC Department of Regulatory Affairs, Reg. 9, Wetlands Map,
 1986)

Distance to critical habitat:

There are no federally designated critical habitats in New York State (Ozard, 1986).

Land Use

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

1000 feet to commercial area. (NCHD, Site Profile Report, 1982)

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

None except these city parks:
Hennepin Park - 1 mile
Gill Creek Park - 1-1/2 mile
Hyde Park - 1-1/2 mile
(USGS Topographic Map, Niagara Falls and Tonawanda West Quad)

Distance to residential area, if 2 miles or less:

100 feet.
(NCHD, Site Profile Report, 1982)

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

None.
(ES and D&M Site Visit, 1985; NCHD — Site Profile Report, 1982)

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

None.
(ES and D&M Site Visit, 1985; NCHD - Site Profile Report, 1982)

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

No. (USDOI, 1983)

Population within 2-Mile Radius

36,756 people.
(US Bureau of the Census, 1980 Census data)

Buildings Within 2-Mile Radius

Over 1,000. (NCHD, Site Profile Report, 1982)

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

Based on information reviewed during the Phase I study, there is no confirmed instance in which contact with hazardous substances at the site has caused injury, illness or death to humans or animals.

(Phase I Record Search, 1985-86)

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Barriers do not completely surround the site to prevent entry. Site is a school.

(ES and D&M Site Visit, April 1986)

* * *

3. CONTAINMENT

Type of containment, if applicable:

Hazardous waste constituents have been detected in subsurface soils which are covered by soil fill (depth unknown) or by a portion of the asphalt parking lot. However, there are no exposed wastes at the site.

* * *

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Polyaromatic Hydrocarbons. (NUS Corp., 1985; USGS/EPA, 1985)

Compound with highest score:

Benzo(a)pyrene = 3
(Sax. 5th Ed.)

5. TARGETS

Population within one-mile radius

4,000 people.
(NCHD, Site Profile Report, 1982)

Distance to critical habitat (of endangered species)

There are no federally designated critical habitats in New York State.
(Ozard, 1986)

REFERENCES

- 1. Code of Federal Regulations, Protection of Environment, NO. 40, Parts 190-399, 1983.
- 2. Engineering-Science, (ES) and Dames & Moore (D&M) Site Visits, 12/85 and 4/86.
- 3. Hudson, C., NYSDOH, Interview for Phase I Site Investigation, 12-30-85.
- 4. Johnston, R. H., USGS. "Groundwater in the Niagara Falls Area, NY with Emphasis on the Water-Bearing Characteristics of the Bedrock," 1964.
- 5. NYS Atlas of Community Water System Sources (1982).
- 6. NYSDEC, Department of Regulatory Affairs, Region 9. Mike McMurry Interview, 1/3/86.
- 7. NYSDEC. Inactive Hazardous Waste Disposal Site Report, Registry Sheet, 12/85.
- 8. NCHD, Site Profile Report, 1982.
- 9. NCHD, M. Hopkins Interview, 5/8/86.
- 10. NUS, Site Inspection Report and Analytical Results, 1985.
- 11. Ozard, John (1986), NYSDEC, Interview for Phase I Investigation, January 17, 1986.
- 12. SAX, N.I. (1984). <u>Dangerous Properties of Industrial Materials</u>, Van Nostrand Reinhold Company, New York.
- 13. RECRA Research, Analytical Results, 1979.
- 14. US Bureau of the Census, 1980 Census.
- 15. US Department of Interior, National Park Service (1983). "National Register of Historic Places and National Natural Landmarks."
- 16. USDOC, Climatic Atlas of the United States, 1979.
- 17. USGS/EPA, Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River, 1985.
- 18. USGS Topographic Map: Niagara Falls and Tonawanda West Quadrangles.
- * For general references, see Appendix A.

Figure No.

- 1 HRS Cover Sheet
- 2 Ground Water Route Work Sheet
- 3 th to Aquifer of Concern
- i Annual Lake Evaporation (In thes)
- 5 Normal Annual Total Precipitation (inches)
- 8 Distance to the Nearest Well
- 7 Surface Water Route Work Sheet
- 8 One Year 24-Hour Rainfall
- 9 Air Route Work Sheet
- 10 Work Sheet for Computing Sm
- 11 Fire and Explosion Work Sheet
- 12 Direct Contact Work Sheet

List of Tables

Table No.

- 1 Comprehensive List of Rating Factors
- 2 Permeability of Geologic Materials
- 3 Containment for Ground Water Route
- 4 Waste Characteristics Values for Some Common Chemicals
- 5 Persistence (Biodegradability) of Some Organic Compounds
- **8** Sax Toxicity Ratings
- 7 NFPA Toxicity Ratings
- 8 Values for Facility Slope and Intervening
 Terrain
- 9 Containment Values for Surface Water
 Route
- 10 Values for Sensitive Environment (Surface Water)
- 11 NFPA Reactivity Ratings
- 12 Incompatible Materials

- 13 Values for Lood Ure (Air Route)
- 14 NTPA Ignitability Levels and Assigned Values
- 15 Values for Sensitive Environments (Fire and Explosion)

1.0 Introduction

The Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) (Pub. L. 96-510) requires the President to identify the 400 fac. lities in the nation warranting the highest priority for remedial action. In order to set the priorities, CERCLA requires that criteria be established based on relative risk or danger, taking into account the population at risk; the hazardous potential of the substances at a facility; the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecosystems; and other appropriate factors.

This document describes the Hazard Ranking System (HRS) to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems, or ecological or environmental damage. Detailed instructions for using the HRS are given in the following sections. 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. However, the HRS by itself cannot establish priorities for the allocation of funds for remedial action. The HRS is a means for applying uniform technical judgment regarding the potential hazards presented by a facility relative to other facilities. It does not address the.

for shifty, do inability, or degree of cleenup in quired. Neither does it deal with the readiners or ability of a State to carry out such remedial action as may be indicated, or to meet other conditions prescribed in CERCLA.

The HRS assigns three scores to a hazardous facility:

• 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 ground water, surface water, or air. It is a composite of separate scores for each of the three routes.

 S_{TE} reflects the potential for harm from substances that can explode or cause fires.

 Spc reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).

The score for each hazard mode (migration, fire and explosion and direct contact) or route is obtained by considering a set of factors that characterize the potential of the facility to cause harm (Table 1). Each factor is assigned a numerical value (on a scale of 0 to 3, 5 or 8) according to prescribed guidelines. This value is then multiplied by a weighting factor yielding the factor score. The factor scores are then combined: scores within a factor category are added; then the total scores for each factor category are multiplied together to develop a score for ground water, surface water, air, fire and explosion, and direct contact.

EXLLUSO CODE 6560-60-M

ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein.

INTERVIEW FORM

INTERVIEWEE/CODE Charley Hudson
TITLE - POSITION NYSDOH Bureau of Toxic Substance Assessment
ADDRESS
CITY Albany STATE NY ZIP
PHONE (518) 473-8427 RESIDENCE PERIOD TO
LOCATION NYSDOH office INTERVIEWER S. Powers
DATE/TIME 12/30/85 / 10:30 am
SUBJECT: St. Mary's & Bishop Duffy School #932087
Notes from NYSDOH site inspection report
Inspected by R. Tuers and B. Gilday
Site is used for gym classes 3 months/yr.
Site is easily accessible.
Site is poorly capped with no leachate collection system
There are no wells within 2 miles of this site
Principal aquifer is in lockport dolomite 20-120 ft. deep
Geologic material is sand and clay, K=10 ⁻⁵ cm/sec
Population Magnets- section 64th street site
Surface Water:
Niagara river: 3500' used for drinking, swimming, fishing and irrigation
Site slope: 2-3%
Intervening terrain (SW site) 2-3%
Soil contamination data in Niagara Report (USGS)
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE:
COMMENTS:

:	Interveno ce: Charley Hodson
	Title /Position: NYSDOH Bureau of Toxic Substance Assessment
	eity/strike Albany NY
	Phone : (518) 473-8427
	Location: N'IsDOH office Interveiner: 5. Vones
	Date /Time 12/30/85 10:30 AM
-	Subject: 5t. Many's & Bishep Duffy Schools #932087
	Remarks: Notes from DYSDOH Site inspection Report. *
	Inspected by R. Tuers & B. Gilday
	Site is used for gymclasses 3 months/yr
_	Site is easily accessible
	Site is poorly capped w/ No leachate collection
	System
	There are No wells within Zariles of this site
	There are No wells within Zaniles of this site principal agoifer is in lock part dolonite
	geologic material is sand of clay K = 10 cm/sec
_	geologic material is Sand & clay K = 10 cm/sec Population Magnets - sec 64th Steet site
-	Surface Water
_	Niagara River - 3500' used for drinking, swinning,
	Niagara River - 3500' used for drinking, swimming, fishing, tirrigation
	5ite 510pe - 2-3%
	intervening Lemains (5w-5;te) 2-3%
	intervening Jenaing (5W-5;te) 2-3% Soil continuation data in Niagara Report (USGS)
	I agree with the above summary:
	Signature: CM
	Comments:
	*-This-Report is not in final-form- 50 DOH did not want copies -

REF.



1982 New York State Atlas of Community Water System Sources

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

ERIE COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE		
Municipal Community					
1 2 3 4 5 6 7 (8) 9 10 11 12 13 14 15 16 17 18 190 21	Akron Village (See No 1 Wyoming (Page 10)		Lake Erie Lake Erie .Wells .Wells .Wells .Wells .Lake Erie .Niagara River - East Branch .Niagara River .Wells .Wells .Niagara River - East Branch .Niagara River - West Branch .Niagara River - West Branch .Wells .Niagara River - West Branch .Wells .Niagara River - West Branch .Pipe Creek Reservoir .Wells .Niagara River - East Branch .Niagara River - East Branch		
Non-M	unicipal Community				
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	Aurora Mobile Park		.Wells .Wells .Wells .Wells .Wells .Clear Lake .Wells		

INTERVIEW FORM

INTERVIEWEE/CODE Mike McMurry /
TITLE - POSITION Environmental Analyst
ADDRESS 600 Delaware Ave.
CITY Buffalo STATE NY ZIP 14202
PHONE (716') 847-4551 RESIDENCE PERIOD TO
LOCATION DEC Regulatory Affairs Buffalo INTERVIEWER Eric NYE - DIM
DATE/TIME 1/3/86 /
SUBJECT: Wetlands & Flood Info - Region 9
REMARKS: Met with Mike who gave me access to both Wetland and Floodway maps::for
the local region.
Also left site locations for the identification of Wildlife Critical
Habitat & National Wildlife Refuges
St. Mary's and Bishop Duffy School Site:
- Distance to a Sensitive Environment - none within two miles of site
- Distance to fresh - water wetland - Wetland TW-3 is located approximately
0.6 miles NW of site.
- Distance to critical habitat - none within one mile
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE:
COMMENTS:

INTERVIEW FORM

Mc Marry Mc Murry
INTERVIEWEE/CODE MIKE MACAURRY /
TITLE - POSITION ENVIRONMENTAL ANALYST
ADDRESS 600 Delaware Ave
CITY Buffel. STATE N.Y. ZIP 14202
PHONE (716) 649 215 647-4551 . RESIDENCE PERIOD TO
DATE/TIME 1/3/86 / BUFFALO
DATE/TIME 1/3/86 / BUFFALO
SUBJECT: WETLANDS & FLOOD INFO- REGION 9
REMARKS: NET WITH MIKE WHO LAVE ME ACCESS TO BOTH WETLAND
AND FLOODINGS MAPS FOR THE LOCAL REGION / MIN
ALSO LEFT SITE LOCATIONS FOR THE IDENTIFICATION OF WILDLIFE
CRITICAL HABITAT & WILDLIFE REFUBES
St. Mary's and Bishop Duffy school site
1) - Distance to a sensitive environment - none within
two miles of site
2) Distance to fresh-water wetland - Wetland Tou-3 is
located approximately 0,6 miles north wast of 51 te
3) Distance to control Habitat - a none within one mile
I agree with the above interview summary:
Signature/Title: Michael J M. Muning Environmental Analyst
Comments:

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.

. Lamer Millian of the con-HAMICION OF SOLID POR "

CLASSIFICATION CODE: 2a

REGION: 9

SITE CODE: 932097

NAME OF SITE : St. Mary's and Bishop Duffy School

STREET ADDRESS: 66th Street

TOWN/CITY:

COUNTY:

ZIF:

Niagara Falls (c)

Niagara

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

ESTIMATED SIZE: 2 Acres

CURRENT OWNER NAME....: Niagara Catholic High School - 33 CURRENT OWNER ADDRESS.: 520-66th St. NE. NY 14704

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

PERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Unknown To 1950's

SITE DESCRIPTION:

The site was reportedly used by Hooker Chemical Company to dispose of fly ash during the 1950's. The site is currently occupied by Niagara Catholic High School. The exact location of the disposal area in this property is unknown.

UGGS, in August 1982 and May 1983, took soil samples, in the approx. area. The results of the organic analysis indicate low levels of a limited number of organic parameters. 12040

HAZARDOUS WASTE DISPOSED: Confirmed-X Suspected

____IYEE_____

QUANTITY (units)

None Known

Unknown

- I (CAL DAIN AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE... None

State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Proposed— Under Design— In Progress— Completed—NATURE OF ACTION: None

GEOTECHNICAL INFORMATION:

SOIL TYPE: Top Soil over sand and clay layers GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

From the limited data from the soil test, there seems to be no major environmental problem.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient Information

FERSON(S) COMPLETING THIS FORM:

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

NAME .: EJ Feron, Jr.

TITLE: Sr. San. Engineerg.

NAME .: Ronald Tramontano

TITLE: Bur. Tox. Subst. Assess.

NAME.: Feter Buechi

TITLE: Ass. San. Engineer

NAME .:

TITLE:

DATE:: 01/24/85

DATE .: 01/24/85

Page 9 - 562

ST. MEY'S AND BISHOP DUTTE SOMEOUS (DEC #932087)

LOCATEGE

This site is occupied by Niagara Catholic High School (forward Bishop Duffy and Madonna High Schools). The school is located on 65th Street between Girard and Frontier Avenue, east of the Miagara Impressivay (I-190). The exact location of the disposal areas on this property is unknown.

A site shetch is attached.

ON PRIME

The area outlined above is ommed by Niagara Catholic High School, 520 - 65th Street, Niagara/Falls, NY 14304. Any correspondence should be directed to Father Clifford, Principal.

FISION

Bishop Duffy High School was built in 1955, Madonna High School was built in 1959. These schools were later consolidated into Miagara Catholic High School.

According to <u>Hesardous Waste Disposal Sites in New York</u> <u>State</u>, <u>Vol III</u>, this site was used by the Hooker Chamical Company to dispose of fly ash during the 1950's. This area was reportedly a low swampy area at this time.

Father Clifford, Principal of Niagara Catholic Righ School informed the writer that he was unaware of any previous disposal activity and was unable to provide further information. He stated that previously radioactive slag was found beneath asphalt parking lots. Levels of radiation exceeding background were detected although these levels did not warrant corrective actions. Our ently, there are no visible close of previous disposal activities. The surface is completely covered with buildings, lasms or parking lots. The enact location of the disposal area is unknown, but is suspected to include the south section of the property.

PREVIOUS SAIPLING

There is no record of samples being taken from this site at anytime.

ATPLAL PHOTOGRAPHS

USDA serial photography (1":6601) was examined. The born of ARE 3V-82, taken in 1956 shows Bishop Duffy High School, but not Madeway Made School. The area south of the school building appeared level at this time. Frotograph ARE 201-27, follow in 1966, should the coop to be devoluted to the coop in the coop of the coo

STILE/GENLOGI

A detailed soil survey for this area is unavailable. No information on the nature of the soils here was found. Croundwater in the Mistars Falls Area (Johnston, 1964) does not list any well or boring records in the vicinity of this site.

Bedrock is reported by Johnston to be Lockport Dolomite. The depth to bedrock is unknown.

CROUND MATER

The depth to the water table and the direction of flow of the groundwater are not known.

There are no known drinking water wells in this area. The nearest industrial wells are over two miles to the southwest.

SUPPLOS MATER

The nearest surface water is the Miagara River which is 3,500 feet south. The City of Miagara Falls water intakes are one mile downstrea Industrial intakes are also located downstream.

There are no wetlands within one mile of this site, although numerous nearby areas were marshy prior to filling and drainage.

This site is not in a 100 year flood plain.

AIR, FIRE AND ELPLOSICE

The potential for fire or air emissions from the wastes contained in this site is expected to be small, assuming the only waste disposed of here is fly ash.

It is estimated that 4,000 people live within a one mile radius and that over 10,000 people live within two miles. The nearest population is less than one-hundred feet away across 65th Street.

The nearest buildings are suspected to be the school buildings. The nearest off-site buildings are the homes along 66th Street. Over 1,000 buildings are within a two mile radius.

The nearest residential area is 100 feet away. The nearest commercial area is along Niagara Falls Boulevard, 1,000 feet north. The nearest industrial area is one mile west. There are no agricultural areas with two miles.

DIPECT CONTACT

There are no employed mastes at this site. Access is number of as the area is word as a school.

01:01510:3

There is no evidence of any hazardous material being disposed of at this site. Confirmation is needed. Samples could be obtained or test wells could be placed nearly anythere on the school grounds. In sufficient data is available to assess the impacts of this site on water quality in the Miaganz River.

NIAGARA COUNTY DEPARTMENT OF HEALTH

Code	Activity	VE	, 	<i></i>
Code	Location			
Servic	e Request	No		

		Date Received Complaint
ervi	ice Reque	st New Szach
		Complaint Address
		Address 35 LINCOLN PKWY, BUFFALO
Occu	ipant	lagara Catholic Address 500 66 TH ST. NIAGARA Falla
aie	Hours	REPORT OF INVESTIGATION
2-	20-85	This writer went to the Courty Clerk's Office in Rockout
		to trace the previous owners of the groperte where
-		Niogara Catholice now exist. The latire groseite we sold
		to the Discese in sections by four (4) deflerent owners.
		As they occurred and are labelled on the enclosed
		map:
		() and (1A) - bothe these properties were sold to
		the Discese by the U.S. of A. and make up
		approx one half the entire proporting. The first
		was sold on 1-3-47 and the Alcond on 2-36-48.
		Theor to being oursel by U.S. OF A. the property
		Wes swords life the Kafall Develop ment Coup.
		On several dates including 6-2-43, 2-1-44 9-44
		10-43 6-19-45 10-3-46 5-25-48 and sloeral
		portione of the property to 115 of a to the
		ivere is the parpetty to U.S. of A. or there
		in which (150) a till and the delevation of taking
		La Salle Den Com have by the proplet of
		as loto 51-52 mile res. land under water
-		from Day Holding Coys, on 11-22-1923
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
		A small section of property in their area
		(approx. one serie) was sold to U.S. of D. he
-		Yohma Muldon on 6-19-45.

NIAGARA COUNTY DEPARTMENT OF HEALTH

Code Location

Service Request No.

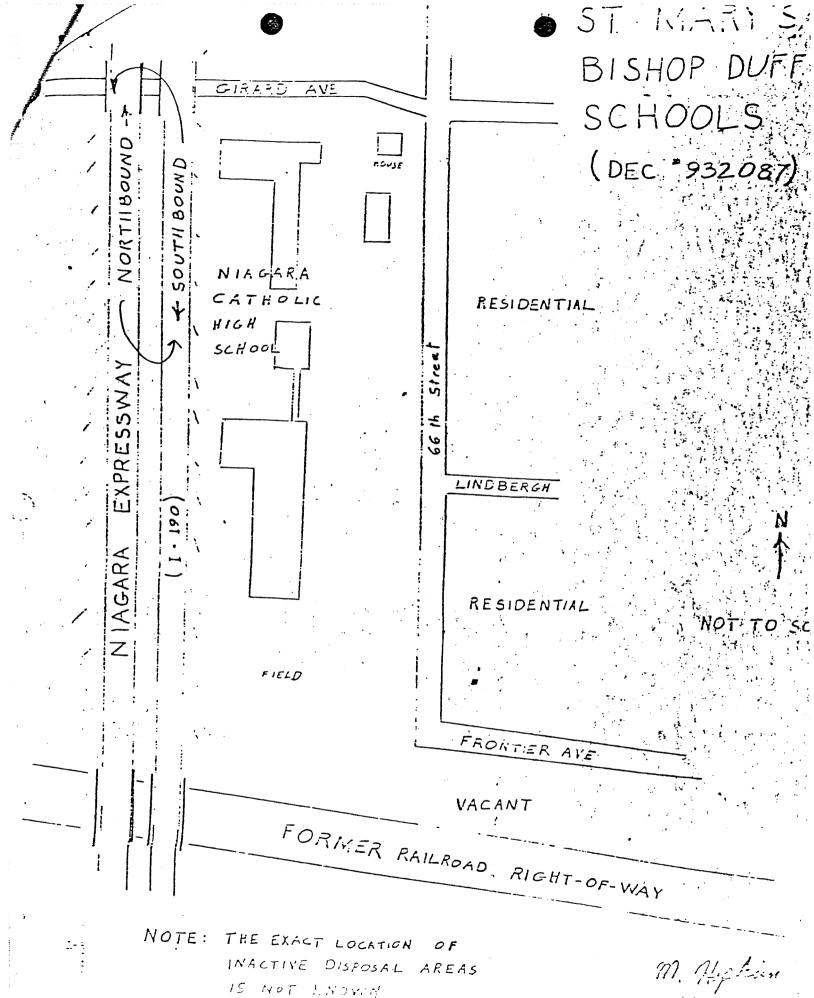
. Jate Received Complaint

ator of Complaint	Address
r	Address
ant Niagare Cotholic	Address 500 66 TH 3T. Ning Felle
Hours	REPORT OF INVESTIGATION
00-85 doed search,	cont.
,	
(a) The	southern portion of long now owned by
the	Discess of Blo. Was sold to them
bn	11-24-52 by Joseph N. Harbatowski.
2	ould not determine at this time at
luh	at time and from whom We Harbotowal
Voc	get or received the property as their name
6	listed several hundred times in the
PN	soter book as buying properties from
Le	veral different parties between 1930 and 14
WA	to letter no description or a very vacue
doz	experior of the property listed Housel
	did not see the Resalle Dev. Corporation
	sted at one time as the grantor.
	H * 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3.) Amo	the section of property was sold to
The	Diocese by the City of Wingows talls
Sn.	12-17-53. All or at least a portion of
Theo	land was previously owned by the
12 de	Ils Dev Corp. Warch Dold the property
	The City of N.T. on 4-28-44.
	1 111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
9) li 1	ery small section of land was sold to the
$ \mathcal{D}$ ω	ocole by Volin 4. & Noveln S. Howard on 1-21-54.

NIAGARA COUNTY DEPARTMENT OF HEALTH

Code Activity
Code Location
Service Request No.
Date Received Complaint

Originator of Complaint		Address	ee
lines			
Occupant Niogora Catholie		Address	ss 500 66 THST, Nugara Falla
Hours 1		OF INV	VESTIGATION
250-85 doed search, Cont.			
Treownia	To the 8	Howar	ido, the property was owned
by Mari K	alphi A	chaffe	les who sold it an 12-1-1950
Theorois t	the Mr.	Achaf.	
the prope	esty wa	ia di	woned he Geneview Willer
who acqu	. 00	· L.	
hus band,	France	, 1	
one fait	ther re	, 1	2 2 August Augus
	1930 ,		1 Comment of the second
			J. Landrian
i			Chi resurricher
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1,	904	7	378
И	857	h	589
/1	843	/1	183
	738	′1	28
J)	/// ///	1)	246
J _i	762	//	
,	455	ij	
	<u>/ J </u>		



M. Alphin

INTERVIEW FORM

INTERVIEWEE/CODE Mike Hopkins /
TITLE - POSITION Niagara County Health Dept.
ADDRESS 10th Street & East Falls
CITY Niagara Falls STATE NY ZIP 14303
PHONE (716) 284-3124 RESIDENCE PERIOD TO
LOCATION Phone Interview INTERVIEWER Larry Keefe (Dames & Moore)
DATE/TIME May 8, 1986 / 11:20am
SUBJECT: Ground water usage in the Niagara Falls area
REMARKS: Regarding the following sites: Great Lakes Carbon, Wurlitzer, Dibacco #2, Adams Generating Plant, Hydraulic Canal, 64th St., St. Mary's & Bishop Duffy School, Silbergeld Junkyard, and Tam Ceramic. The following known Ground Water Usage Applies: 1) The only known Drinking water wells are on Pennsylvania Ave. in the town of Niagara. There are 2 wells on Penn. Ave. and 3 on Delaware Ave. (Adi) Street) 2) The only known operational industrial well is at Olin Chemical on Buffalo Ave city of Niagara Falls. This is a non-contact cooling water usage
· only.
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE:
COMMENTS:

REF.

MAY 1 5 1986

INTERVIEW FORM

INTERVIEWEE/CODE MIKE HOPKINS /
TITLE - POSITION NIAGARA COURTS HEATTE DEEPT.
ADDRESS 10th STORET & EAST FACES
CITY NIAGACA FREE STATE UV ZIP 14303
PHONE (716) 284-3124 RESIDENCE PERIOD TO
LOCATION PHONE INTERVIEW INTERVIEW (DAMES & MICHAEL)
DATE/TIME MAY 8,1986 / 11:20 A
SUBJECT: GROUNDINGSER USAGE IN THE WARRED FACES ACKA
REMARKS: PERPLOWED THE FOLLOWING SITES; GLEAT LAKES CHAPPAN, DURLITZER, D.BACCO = 2, ADAMS GENERATING PLANT, SHYDRARIUM CLAURE. (0444 ST.) ST. 111284 & 1 BICHORD DEFEND SCHOOLS & SIL AFREGED JUNEARD AND TAM CERTAINES; THE FORLOWING KNOWN GROUND WATER USERS APPLIES: 1) THE ONLY KNOWN DRINKING WATER WELLS ARE ON PENNSYLVANIA AVE IN THE TOWN OF NIAGARA, THERE HER 2# WELLS ON PENN ARE US. I 300 DIEWING OLD (Indjanal Shriet) 2) THE ANNY CASUN OPERATIONAL INDITITION WELL IS AT OLIN CHEMICAE ON BUFFALO AVE, CITY OF NIAGARA FALLS. THIS IS A NON-CONTACT COSTINGY PROCESS! WATER USAGE, ONLY.
:
I agree with the above interview summary: 63 concerted:
Signature/Title: Mental & Light 1070
Comments:

REF.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT EXECUTIVE SUMMARY

Niagara Catholic High School
Site Name (St. Mary's School)

NYD980535249

Site Name (St. Mary's School)

EPA Site ID Number

66th Street Niagara Falls, New York

02-8505-04A

Address

TDD Number

SITE DESCRIPTION

Niagara Catholic High School, formerly St. Mary's School is located in Niagara Falls, Niagara County, New York. The three acre site was formerly used as a disposal area. During the 1950's wastes from local companies were dumped at the location of the present football field. There are unsubstantiated reports of drums buried there as well. Radioactive slag was used as fill for the parking lot behind the school and has been ruled safe by local health officials as long as it remains covered.

Niagara Catholic High School is located in an industrialized and residential area. Another school, the 66th Street School, is directly north of the site. Residential areas are east and south of the site and Interstate I-190 is to the west. CECOS industrial landfill is located approximately 0.5 mile north of the site.

NUS FIT II sampled the site on 6/26/85 and found the soil in the field contaminated with polyaromatic hydrocarbons (PAHs) such as pyrene and benzo (a) anthracene.

HAZARD RANKING SCORE: No Score Pending Analysis of Laboratory Data.

Prepared by: G. Rojek/L. Gneiding Date: October 21, 1985 of NUS Corporation

SAMELING TRIP REPORT

SITE NAME:

Hard to Camolic School (St. Mary's School)

TDD #:

02-8505-04A

SAMPLING DATE:

6/26/85

EPA CASE NO:

4452/1728B

1. Site Location:

See Figure 1

2. Sampling Locations:

See Figure 2

3. Sample Descriptions:

See Table 1

4. Laboratories Receiving Samples:

Sample Type

Name and Address of Laboratory

Organic (Soil)

Gulf South Research Institute 5010 LeRoy Johnson Blvd. New Orleans, LA 10126

Inorganic (Soil)

Rocky Mountain Analytical Labs

5530 Marshall St. Arvada, CO 80002

5. Sample Dispatch Data:

Organic soil samples were shipped by FIT personnel via Federal Express under Airbill No. 923031793.

Inorganic soil samples were shipped by FIT personnel via Federal Express under Airbill No. 923031782. Samples were shipped on June 26, 1985 at 1400 hours.

6. Sampling Personnel:

Name	<u>Organization</u>	<u>Duties on Site</u>
Gary Rojek	NUS Corp FIT II	Project Manager/ Photo Documentation
Luke Darragh	NUS Corp FIT II	Sample Management
Debbie LaMond	NUS Corp FIT II	Site Safety Officer

<u>Name</u>	Organia stion	<u>Duties on Site</u>
Mike Nicholas	NUS Corp FIT II	Sampler
Joe Mayo	NUS Corp FIT II	Sampler
Jay Crystall	NUS Corp FIT II	Sample Scanning

- 7. Weather Conditions: 70°F clear, northerly winds 10-20 mph
- 8. Additional Comments:

A total of six (6) soil samples were collected from the field adjacent to the school which is presently used as a football field. All samples were screened for radioactive levels in the field with negative results.

All samples collected are to be analyzed for priority pollutants. One (1) aqueous QA/QC blank sample collected from EPA, Edison, New Jersey was included with shipment to the labs.

9.	Report Prepared E	By: <u>Gary Rojek</u>	Date: 7/02/85	
10.	Approved By:	Roslann	Date: 8 73 85	

TABLE I

SAMPLE DESCRIPTIONS ST. MARY'S SCHOOL CASE #4452/1728B

	Sample Number	Sample Type	Traffic Report Number	Federal Express Airbill Number	Time Hours	Location
	NYA4-SI	Organic Soil Inorganic Soil	BD122 MBB916	923031793 923031782	0920	Southwest corner of field. Depth of
	NYA4-S2	Organic Soil Inorganic Soil	BD123 MBB917	923031793 923031782	0935	Northwest corner of field near fence line. Depth of sample 2 feet.
	NYA4-53	Organic Soil Inorganic Soil	BD124 MBB918	923031793 923031782	09 <i>55</i>	Western section of football field in area of former swale. Depth of sample 2-3 feet.
	NYA4-S4	Organic Soil Inorganic Soil	BD125 MBB919	923031793 923031782	1005	Center of football field in area of former swale. Depth of sample 1 foot.
	NYA4-S5	Organic Soil Inorganic Soil	BD126 MBB920	923031793 923031782	1015	Southeast corner of field in area of former swale. Depth of sample 1-5 feet.
	NYA4-S6	Organic Soil Inorganic Soil	BD127 MBB921	923031793 923131782	1025	Northeast corner of field near driveway. Depth of sample I foot.
	NYA4-BI	Organic Blank(a)	BD128	923031793	N/A	U.S. EPA Edison, NJ

Notes:

⁽a) Organic blanks contained doubly deionized distilled water obtained from U.S. EPA, Edison, New Jersey on June 21, 1985.

SAMPLING TRIP REPORT

SITE NAME:

Niagara Catholic High School

TDD #:

02-8405-04A

SAMPLING DATE:

8/23/85

EPA CASE NO .:

4893

1. Site Location:

See Figure 1

2. Sample Location Map:

See Figure 2

3. Sample Descriptions:

See Table I

4. Laboratories Receiving Samples:

Name and Address of Laboratory

California Analytical Labs 2544 Industrial Blvd. West Sacramento, CA 95691

Attention: R. Ulrich

5. Sample Dispatch Data:

TCDD soil samples were shipped by FIT personnel via Federal Express under Airbill #289624963 to NUS Corporation, Edison, New Jersey, on 8/23/85 at 1200 hours. Samples were repackaged and shipped by FIT personnel via Federal Express under Airbill #289624834 to California Analytical Labs on 8/26/85 at 1500 hours.

Sampling Personnet

<u>Name</u>	Organization	Dutins on Site
Gary Rojek	NUS Corp. FIT II	Project Manager
Janine Dinan	NUS Corp. FIT II	Site Safety Officer
Jay Crystall	NUS Corp. FIT II	Sampler
Debbie LaMond	NUS Corp. FIT II	Sample Management Officer
Luke Darragh	NUS Corp. FIT II	Sampler

7. Weather Conditions:

60°F partly cloudy

8. Additional Comments:

A total of six (6) soil samples were collected from the football field which lies adjacent to the high school. The site was originally sampled on 6/26/85. The samples taken on 8/23/85 were taken approximately in the same location and depth as the previous site inspection.

All samples collected will be analyzed for TCDD. A total of six (6) QA/QC blanks were included in the shipment to California Analytical Labs.

- 9. Report Prepared By: Luke Darragh Date: 8/26/85
- 10. Approved By: Konld myaman Date: 8/26/85

SAMPLE DESCRIPTIONS
CASE #4893

				CASE #4893		
Sumple <u>Number</u>	Dioxin Traffic Report Number	Batch <u>Number</u>	Time • <u>Hours</u>	Date Shipped	Date	
NYA4-SIA	. DB0060-03	1	0714		<u>Sampled</u>	Location
NYA4-S2A	DB0060-02	1	0714	8/26/85 8/26/85	8/23/85 8/23/85	Southwest corner of field Sample taken at a depth 1.5 to 2.0 feet. Northwest corner of field
NYA4-S3A	DB0060-01	I	0742	8/26/85	0/00/0	at depth of 2.3 feet.
NYA4-S4A	DB0060 - 04	1	0748	8/26/85	8/23/85	Western section of footba field in former swale area Sample taken at depth of 2.0 feet.
N`'44-S5A	DB0060-05	1	0753		8/23/85	Center of football field in former swale area. Sample taken at depth of 1.0 foot.
NYA4-S6A	DB0060 - 06	1		8/26/85	8/23/85	Southeast corner of field in the former swale area. Sample taken at depth of l.0 foot.
NYA4-S7A			0805	8/26/85	8/23/85	Northeast corner of field near driveway. Sample taken at depth of 1.0 foot.
	DB0060-07	. 1	N/A	8/26/85	N/A	
NYA4-S8A	DB0060-08	1	N/A	8/26/85	•	QA matrix spike.
1YA4-59A	DB0060-09	1	NI/A		N/A	QA field blank.
YA4-S10A	DB0060-10	•	N/A	8/26/85	N/A	QA LV14 Z22IN21J7
¹YA4-SIIA	DB0060-11	1	N/A	8/26/85	N/A	QA LV 24 Q32JQ94K6
√YA4-S12A	DB0060-12	1	N/A	8/26/85	N/A	QA LV 14 . G25G051C1
	DB0060-12		N/A	8/26/85	N/A	QA LV 29 F32YO73W9



NIAGARA CATHOLIC HIGH SCHOOL SAMPLING DATE: 8/23/85

CASE: 4893 TCDD ANALYSIS

	M. cain	Sample Depth (Ft.)	PPB TCDD Measure	PPB TCDD Detection Limit
Sample Number	Matrix		ND	0.051
NYA4-SIA	soil	1.5-2.0		0.07.
NYA4-S2A	soil	2.0	0.098	
NYA4-S3A	soil	2.0	ND	0.056
	soil	1.0	ND	0.059
NYA4-S4A	5011		ND	0.033
NYA4-S5A	soil	1.0		0.62
NYA4-S6A	soil	1.0	ND	0.43
NYA4-S7A	Native TCDD spik	e N/A	1.11	
NYA4-S8A	blank	N/A	ND	0.080
	PE QA sample	N/A	6.3	
NYA4-S9A		N/A	0.88	
NYA4-S10A	PE QA sample	IA/ W		
NYA4-SIIA	PE QA sample	N/A	6.8	
NYA4-S12A	PE QA sample	N/A	0.99	

Notes:

ND - not detected

NA - not applicable

PPB- parts ner billion



RARITAN PLAZA III. FIELDCREST AVENUE EDISON, NEW JERSEY 08837 201-225-8160



C-584-08-85-67

August 12, 1985

Ms. Diana Messina
U.S. Environmental Protection Agency
Region II
Edison, New Jersey 08837

Dear Diana:

Enclosed please find copies of the analytical results of samples collected on June 26, 1985 at the St. Mary's School Site in Niagara Falls, New York. Work was authorized under TDD #02-8505-04A.

Subsurface soil samples were collected from locations in and around a football field which is adjacent to the present school building. Analytical results indicate the presence of toluene and polyaromatic hydrocarbons in the northeast corner of the field. Methylene chloride and 1,1,1 trichloroethane were found in one sample in the southwest corner of the field.

Very truly yours,

Gary Rojek

GR:jls

Enclosure

Approved:

CT.MARY'S SCHOOL SAMPLING DATE: 06/26/85

CASE: 4452/1728B

VOLATILES .					}		·
	: SOIL	NYA4-S2 SOIL UG/L	SOIL	SOIL	: 2017	20.0-	NYA4-
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone Carbondisulfide 1,1-Dichloroethane 1,2-Dichloroethane Trans-1,2-Dichloroethene	11	EE	E E	E E	E E	EE	E J
Chloroform 1,2-Dichloroethane 2-Butanone 1,1,1-Trichloroethane Carbon Tetrachloride	6+4	: : : : :	: : : : : :	: : : : E	: : : : : :	: : : : :	
Vinyl Acetate Bromodichloromethane 1,1,2,2-Tetrachloroethane 1,2-Dichloropropane Trans-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene Cis-1,3-Dichloropropene 2-Chloroethylvinylether Bromoform 2-Hexanone 4-Methyl-2-Pentanone Tetrachloroethene Toluene Chlorobenzene Ethylbenzene Styrene Total Xylenes			J			23	

NOTES:

Plank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

J - compound present below the specified detection limit

Diethyl Phthalate

4-Nitroaniline

Fluorene

4-Chlorophenyl-phenylether

SEXI-VOLATILES							•
SAMPLE NUMBER	NYA4-S1	NYA4-52	 NYA4-83	NYA4-54			NVAA-D:
	SOIL	SOIL					PLANK
							UG/L
		:					
N-Nitrosodimethylamine	! : !	3 , 1		!			}
Phenol Aniline	<u>.</u> I	i 1	<i>i</i>	1			
Bis(2-Chloroethyl)Ether	<i>•</i> 1	; 1	; 1	i 1	t 1	į 1 _	•
2-Chlorophenol	!	!		1 1	! !	•	<i>t</i> !
1,3-Dichlorobenzene	:	:	!	!	•	:	•
1,1 Dichlorobenzene	:	:	1		;		
REUZAT WICOUOT	:	1	1	1	:	1) .
1,2-Dichlorobenzene	:	1	!	;	:	:	:
2-Methylphenol	:	:	1	1	1	1	:
Bis(2-Chloroisopropy1)Ether	1		:	;	1	:	!
4-Methylphenol	:	1	1	:	1	:	:
N-Nitroso-Di-n-Propylamine	;		:	!		1	
Hexachloroethane Nitrobenzene	i 1	; ,	ì	:	i ,	;	
Isophorone	1	i 1		i •	; •	i	:
2-Nitrophenol	•	1	1	i 1	1	i 1	,
2,4-Dimethylphenol		!	!	•	•	•	:
Benzoic Acid	:	1	:	•	1	:	•
Bis(2-Chloroethoxy)Methane	}	3	1		;	}	1
2,4-Dichlorophenol	1	1	1	1	1	1	1
1,2,4-Trichlorobenzene	:	:	1	1	}	!	:
Naphthalene	:	;	:	:	:	: J	:
4-Chloroaniline	:	:	:	!	}	i	:
Hexachlorobutadiene	1	1	:	1	1	1	: ·
4-Chloro-3-Hethylphenol	•	•	:		1	1	1
2-Methylnaphthalene		:	:		:	. J	1
Hexachlorcyclopentadiene 2,4,5-Trichlorophenol	i 1	;	1	;		,	:
2,4,5-Trichlorophenol	•	; 1	1 .		•		;
2-Chloronaphthalene	•	•	1	1	1	i	•
2-Nitroaniline		:	•	•	!	•	,
Dimethyl Phthalate	•	•	•	i			•
Acenaphthylene	!				i		;
3-Nitroaniline	:	1	1	1	Ì		;
Acenaphthene	:	1	:	:	;	:	1
2,4-Dinitrophenol	:	:	1	:	1	!	1
4-Nitrophenol	1	:	;	:	1	!	1
Dibenzofuran	:	;	;	:	1	:	:
	•	.*	•	•	1	•	
2.d-Dinitrotoluene	•	1	:	;		!	:

SAMPLING DATE: 06/26/85 CASE: 4452/1728B

SEMI VOLATILES	:						
HALL TO	•	NYA4-S2	NYA4-S3 SOIL UG/L	COULT !	SOIL	SOIL	BLANK
4.6-Dinitro-2-Methylphenol N-Nitrosodiphenylamine A-Bromophenyl-Phenylether Hexachlorobenzene Pentachlorophenol Fhenanthrene Anthracene Di-n-Butylphthalate Fluoranthene Benzidine Fyrene Butylbenzylphthalate 3.3'-Dichlorobenzidine Benzo(a)Anthracene Bis(2 Ethylhexyl)Phthalate Chrysene Di-n-Octyl Phthalate Benzo(b)Fluoranthene Benzo(k)Fluoranthene Benzo(a)Pyrene Indeno(1,2,3-cd)Fyrene Dibenzo(a,h)Anthracene Benzo(5hi)Perylene					J	760 J 1100 1500 740 740 560 650 510	UG/L
					•	500 ,	

NOTES:

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

J - compound present below the specified detection limit

ST.MARY'S SCHOOL

SAMPLING DATE: 06/26/85 CASE: 4452/1728B

PESTICIDES/PCBs

1 20 1 10 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
SAMPLE NUMBER MATRIX UNJTS	NYA4-S1 SOIL UG/L	: :NYA4-S2 : SOIL : UG/L	SOIL	SOIL	: SOIL	NYA4-B: BLANK UG/L
Alpha-RHC Beta-BHC Delta-BHC Gamma-RHC (Lindans) Heptachlor Aldrin Heptachlor Epoxide Endosulfan I Dieldrin 4,4'-DDC Endrin Endosulfan II 4,4'-DDB Endrin Aldehyde 4,4'-DDT						
Methoxychlor Endrin Ketone Chlordane Toxaphene Arochlor-1016 Arochlor-1221 Arochlor-1232 Arochlor-1248 Arochlor-1254 Arochlor-1254 Arochlor-1250					, , , , , , , , , , , , , , , , , , ,	

NOTES:

Plank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

J - compound present below the specified detection limit

ST.MARY'S SCHOOL SAMPLING DATE: 06/26/85 CASE: 4452/1728B

INORGANICS	
SAMPLE NUMBER MATRIX	

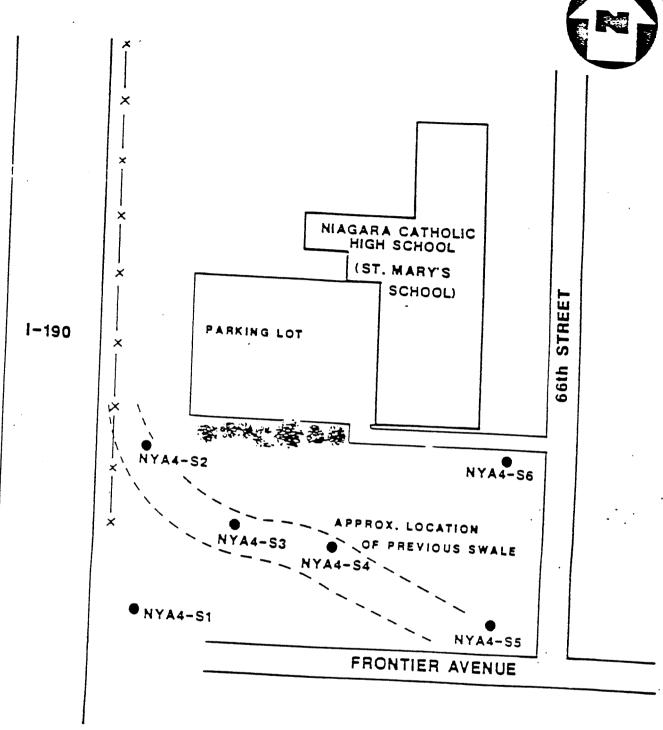
MATRIX UNITS	SOIL MG/KG	SOIL MG/KG	SOIL	: SOIL : MG/KG	SDIL MG/KG	: SOIL : MG/KG	NYA BL MG
Aluminum	16300	7180	7150	7030	5460	12800	: :
Antimony	: J	: J	: J	: J	l J	1 1	
<u>òrsenic</u>	9.4	l J	: J	: J	14	9.7	i
Barium	122	; J	: J	: J	; J	146	•
Beryllium	: J	ال ا	: J	: J	ا ا	J	i
Cadmium	:	!	?	!	:		:
Calcium	1 17900	1 3490	13500	1 29900	11100	15000	•
Chromium	: E	! 15	: 13	: 15	13	24	į
Cobalt	: J	: J	ال :	ال ا	1 .1	. J	;
Copper	: 29	15	1 24	14	29	72	;
Tron	1 29200	17000	12300	1 14400	14400	26200	;
Lead	1 42	9.8	19	14	24	77	1
Masnesium	: 8530	: J	1150-	7200	3270	8110	,
Mansanese	: 3	! J	l J	:	1 .1	; J	:
Метситу	: ·J	ال ا	: J				;
Nickel	1 27	ال ا	i j	i j		30	1
Potassium	: J	ل ا	1	1210	! 1	1 1	•
Selenium	1	:		!	;	, ,	
Silver	; J	1			;	! J	,
Sodium ·	: E	E	. J	E	: E	. 5 : E	: :
Thallium	:	: -			,		i 1
Tin	1	•	•	•	•	1	:
Vanadium	: 33		! J	' '	• •		
Zinc	158	: 32	54	. 5 : 62	; J ; 59	: 30 : 155	; !

NOTES:

Blank space - compound analyzed for but not detected

E - analysis did not pass QA/QC requirements

J - compound present below the specified detection limit



LEGEND:

SOIL SAMPLE

SAMPLE LOCATION MAP ST. MARYS SCHOOL NIAGARA FALLS, N.Y.

(NOT TO SCALE)



9 # 1 mg 3

INTERVIEW FORM

INTERVIEWEE/CODE John Open
TITLE - POSITION Seria Wildlife Birlogist, Significant Hilidat Unit
ADDRESS NYSDEC Wildlife Resoninces Contes, Building 8
ADDRESS NYSDEC Wildlife Resoninces Conten, Building 8 CITY Delman STATE n.y. ZIP 12054
PHONE (5/8) 439-7486 RESIDENCE PERIOD TO
LOCATION phone conversation INTERVIEWER Swaa Ryan
DATE/TIME 17,1986 / @3:00
SUBJECT: Sensitive Environments in N.y.
) .
REMARKS:
- There are no foderally designated critical habitats of endangered species located within New yorks
of endangered species located within New yorks
State.
- There are 16 map sets (1:250000) which show a cologically significant areas within the state and copies will be sent to us for future use.
icologically significant areas within the state
and copies will be sent to us for future use.
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE:
COMMENTS:

INTERVIEW FORM

INTERVIEWEE/CODE John Ozard /
TITLE - POSITION Senior Wildlife Biologist, Significant Habitat Unit
ADDRESS NYSDEC Wildlife Resources Center, Building 8
CITY Delmar STATE NY ZIP12054
PHONE (518) 439-7486 RESIDENCE PERIOD TO
LOCATION phone conversation INTERVIEWER Lisa A. Ryan
DATE/TIME Jan. 17, 1986 / 3:00 p.m.
SUBJECT: Sensitive environments in NY
REMARKS: There are no federally designated critical habitats of endangered species
located within New York State
There are 16 map sets (1:250000) which show icologically significant areas
within the state and copies will be sent to us for future use.
·
·
en e
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW:
SIGNATURE: /s/ John W. Ozard
COMMENTS: The 1:250000 scale maps show state potent. significant wildlife habitats.
,

Dangerous Properties of Industrial Materials

Fifth Edition

N. IRVING SAX

Assisted by:

Marilyn C. Bracken/Robert D. Bruce/William F. Durham/Benjamin Feiner/
Edward G. Fitzgerald/Joseph J. Fitzgerald/Barbara J. Goldsmith/John H. Harley/
Robert Herrick/Richard J. Lewis/James R. Mahoney/John F. Schmutz/
E. June Thompson/Elizabeth K. Weisburger/David Gordon Wilson

St. Mary's & Bishop Duffey Sch.

November 28, 1979

Mr. John Malinchock Niagara County Health Department 10th and East Falls Street Niagara Falls, New York 14303

Re: Soil Analyses

Dear Mr. Malinchock:

Please find enclosed Recra Research, Inc.'s results of the analyses of soil samples received at our laboratories on November 20, 1979.

If you have any questions concerning these data, do not hesitate to contact the undersigned.

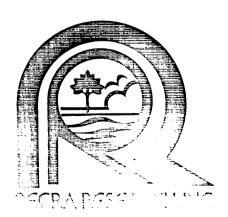
Sincerely,

RECRA RESEARCH, INC.

Robert K. Wyth
Laboratory Director

JAP/RKW/skb Enclosure

Job #992



ANALYTICAL RESULTS

NIAGARA COUNTY HEALTH DEPARTMENT

Report Date: November 28, 1979

Sample Date: 11/79

		SAMPLE IDENTIFICATION (DATE		
PARAMETER	UNITS OF MEASURE	#1 (11/79)	#2 (11/79)	
Total Lead	µg/g (dry)	150	94	

COMMENTS: Samples were received at Recra on November 20, 1979.

All analyses were performed according to U.S. Environmental Protection Agency methods. Results

are expressed on a dry weight basis.

FOR RECRA RESEARCH, INC.

DATE

11/29/79

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.

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(14.)

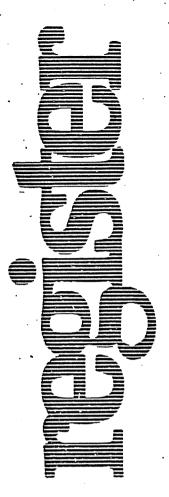
NATIONAL REGISTER OF HISTORIC PLACES

ANNUAL LISTING OF PROPERTIES

JANUARY 1979 THROUGH DECEMBER 1982



U.S. DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
JULY 1983



Tuesday March 1, 1983



Part III

Department of the Interior

National Park Service

National Registry of Natural Landmarks

REF.

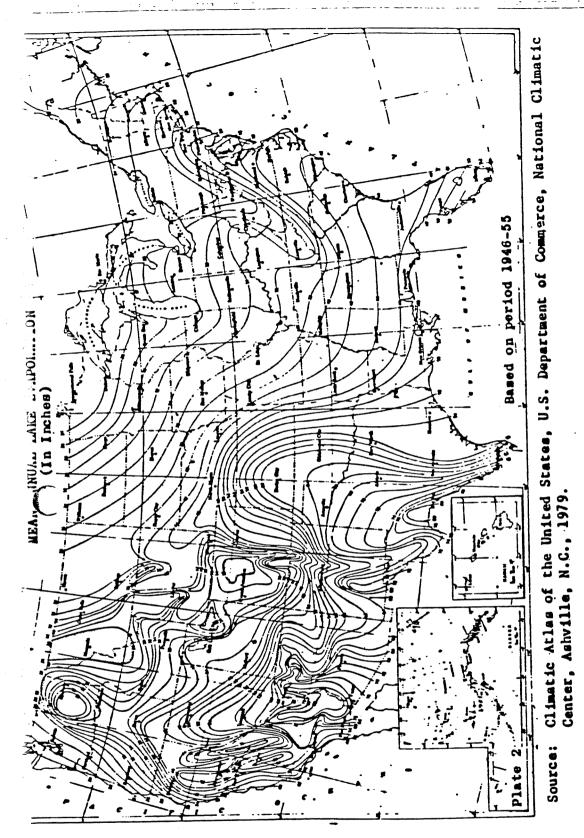
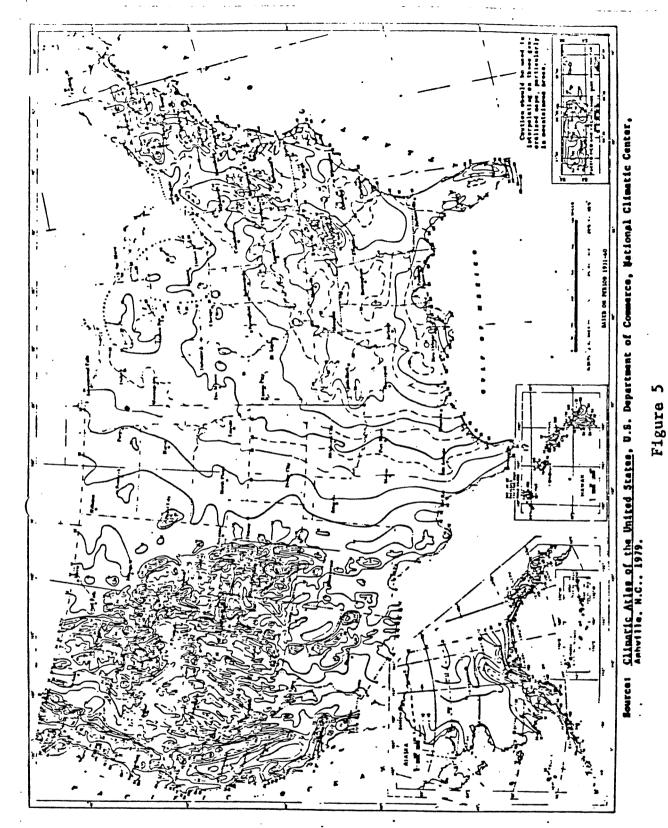


Figure 4 Mean Annual.Lake Evaporation (In Inches)

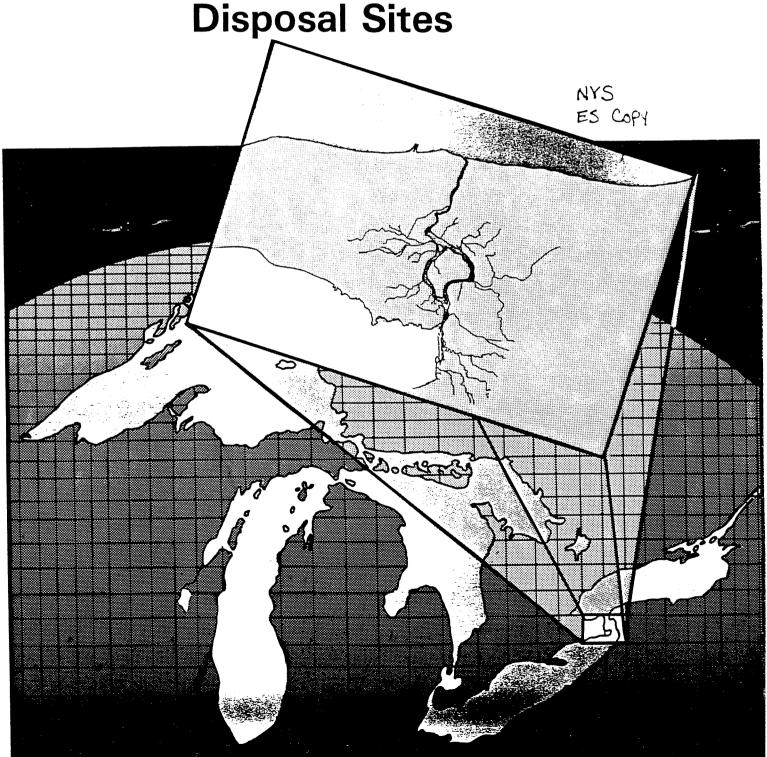


Normal Annual Total Precipitation (inches)

REF. 16



Preliminary Evaluation
Of Chemical Migration
To Groundwater and
The Niagara River from
Selected WasteDisposal Sites



NYSDEC 932087

General information and chemical-migration potential. -- The St. Mary's School site, in the city of Niagara Falls, received an unknown quantity of fly ash from Occidental Chemical Company during the 1950's. The potential for contaminant migration is indeterminable.

Geologic information. -- The U.S. Geological Survey drilled three test borings on the site in 1982; the locations are shown in fig. C-56. The geologic logs are on page 413.

Hydrologic information. -- Ground water was encountered in some of the sand units. The logs indicated a series of perched water-bearing units that may be caused by seasonal increases in precipitation.

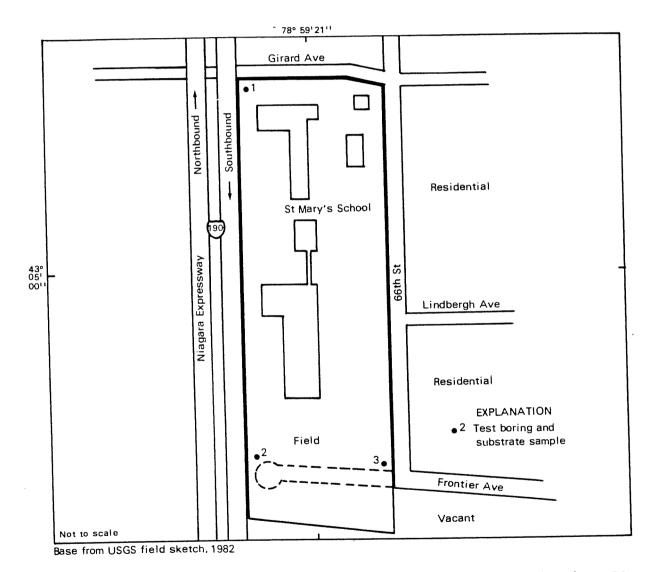


Figure C-56. Location of sampling holes at St. Mary's School, site 238, Niagara Falls.

Boring no.	Depth (ft)	Description
1	0 - 2.5 2.5 - 3.0 3.0 - 5.5 5.5 - 6.0 6.0 - 6.5	Topsoil. Sand, fine, yellow, damp. Clay, yellow. Sand, yellow, damp. Clay, red. SOIL SAMPLE: 2.5 ft.
2	0 - 1.5 $1.5 - 2.5$ $2.5 - 4.5$ $4.5 - 5.0$ $5.0 - 6.0$ $6.0 - 6.5$	Topsoil. Same. Sand, yellow, fine, dry. Clay, sandy, wet. Sand, yellow, fine, wet. Clay, red, dry. SOIL SAMPLE: 5 ft.
3	0 - 3 $3 - 4.5$ $4.5 - 6.0$ $6.0 - 6.5$	Topsoil and sand. Clay, yellow Sand, yellow, wet. SOIL SAMPLE: 5 ft.

Chemical information.—The U.S. Geological Survey collected three soil samples for iron, mercury, and organic—compound analyses; results are given in table C-35. The samples contained four organic priority pollutants, two organic nonpriority pollutants, and some unknown hydrocarbons.

Table C-35.--Analyses of substrate samples from St. Mary's School, site 238,
Niagara Falls, N.Y.

(Locations shown in fig. C-56. Concentrations are in µg/kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample nu	mber and depth	below land su	rface (ft)
	1	2	(Split)	3
First sampling (08-12-82)	(2.5)	(5.0)		(5.0)
Inorganic constituents				
Iron	1,400,000	1,700,000	(130,000)	1,700,000

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.

Mercury

^{*} Compounds detected but not quantified--Holding time exceeded before GC/MS acid- and base-neutral extractable compounds were extracted.

Table C-35.--Analyses of substrate samples from St. Mary's School, site 238, Niagara Falls, N.Y. (continued) (Locations shown in fig. C-56. Concentrations are in µg/kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.]

	Sample number	and depth below	land surface (ft)
	(samples	taken from firs	t sand layer)
Second complian (OF 00 00)	1 A	2A	3A
Second sampling (05-29-83)	(2.5)	(2.5)	(2.5)
Organic compounds			
Priority pollutants			
Heptachlor	LT	LT	
Heptachlor epoxide		LT LT	Mile Area
Bis(2-ethylhexyl) phthalate	*	*	
Di-n-octyl phthlate	*	*	****
Nonpriority pollutants			
trans-1,2-Dichloro-cyclohexa	ne ^l —	*	
cis-1,3-Dichloro-cyclohexane	1		*
Unknown hydrocarbons ¹	*		~

242. CHARLES GIBSON SITE (Literature review)

NYSDEC 932063

General information and chemical-migration potential.—The Charles Gibson site, in the eastern part of the town of Niagara, on Cayuga Creek, was used as a disposal site during 1955-57 for 403 drums (about 90 tons) of hexachlorobenzene and 101 truckloads (about 1,000 tons) hexachlorocyclohexane (BHC) cake.

A remedial investigation program has been developed by the site owner in response to the NYSDEC Division of Environmental Enforcement to assess the extent of past disposal practices and impact on the ground water and surface water in the area. The potential for contaminant migration is major because of the proximity to the creek and the nature of the buried material.

Geologic information. -- No data are available at present. The site probably consists of a lacustrine clay deposit overlying bedrock of Lockport Dolomite.

Hydrologic information. -- No data are available at present. Ground water would probably occur at or near stream stage. The direction of ground-water flow is probably eastward toward the stream.

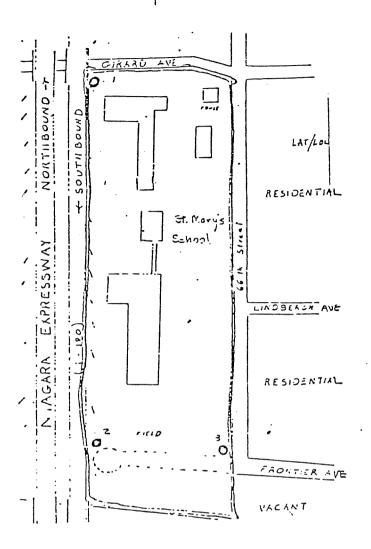
Chemical information. -- Sampling by the NYSDEC in 1982 indicated that the waste material contains BHC's in concentrations exceeding 90,000,000 $\mu g/kg$.

Table 119.—Analyses of substrate samples from St. Mary's School, site 238, Niagara Falls, N.Y. (Locations shown in fig. 156130 Concentrations are in µg/Kg; dashes indicate that constituent or compound was not found, LT indicates it was found but below the quantifiable detection limit.)

	Sample number and depth below land surface (ft)				
•	1	2	((Split)	3
First sampling (08-12-82)	2.5	5.0			5.0
Inorganic constituents					
Iron Mercury	1,400,000	1,700,00	0 (1	()	1,700,000
	(sam	nber and de oles taken	from firs	w land sur st sand la	face (ft) yer)
Second sampling (05-29-83)		LA 2.5	2A 2.5	3A 2.5	
Organic compounds					
Priority pollutants Heptachlor Heptachlor epoxide Bis(2-ethylhexyl)phthalate Di-n-octylphthlate	2	LT *	LT LT *		
Nonpriority pollutants Trans-1,2-dichloro-cyclohexa Unknown hydrocarbons ¹		 *	*	 *	·

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

^{*} Compounds detected but not quantified—Holding time exceeded before GC/MS acid— and base-neutral extractable compounds were extracted.

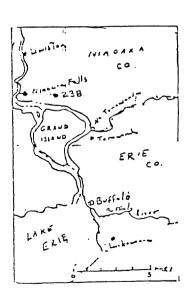


EXILENULTION

'o5'00"

. Z TEST BORING AND SUBSTRATE SAMPLE

MAP NOT TO SCALE



16

SEPA

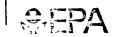
POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION

11 STATE OF SITE NUMBER

NY D986535249

	w				
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site)		02 STREET, ROUTE NO., OR S	PECIFIC LOCATION IDENTIFIER		
Magara (whell High School (for St. Marys and Bishap Duffy School	marly 1	520 66th	5+		
loading and 13151103 Duffly School		04 STATE CS ZIP CODE CG		167 COUNT (168 CENT	
1				CODE SUIT	
Niagara Falls		NY 14304	Niagara	063 33	
09 COORDINATES LATITUDE LONGITU					
43 05 00.10 _78 59	21 10				
10 DIRECTIONS TO SITE (Stange) (CON CONTRACTOR)	1				
school is located on libth stre east of the Nicegare Expre	et betice	en Girard and	A Foonten Aug	01:4	
Which of the Dicional Expos	(165: 100)	(-100)	- i ventich hae	1,00	
1 cass of the moneyerise mapie	e January (CT 4-101			
•					
III. RESPONSIBLE PARTIES					
01 OWNER (# known)	ī	02 STREET (Business, manny, resi	dentiel)		
Diagram of D. Wil	1	120 5 11 5	-1 A		
Diocese of Buffalo		100 SOUTH E	-Imwood /TVK_	,	
1 30 5		1	1		
Bufalo		COEH1 14N	17161847-6700		
07 OPERATOR (If known and different from owners		C8 STREET : Susmess, meeng, rese	dentiel)]	
Para Para Maria Salan I			61 1		
nicegara Cathalic High School		520 66th 3			
	İ	10 STATE 11 ZIP CODE			
niagara Falls	İ	NY 14304	17161283-8771		
13 TYPE OF OWNERSHIP (Check one)					
A. PRIVATE [] 8. FEDERAL:		C. STATE	CD.COUNTY C E. MUI	NICIPAL	
r	(Agency name)		-		
☐ F. OTHER:(Soecity)		C G. UNKNO	WN .		
1.4 OWNER/OPERATOR NOTIFICATION ON FILE (Check ad Init apply)					
☐ A. RCRA 3001 DATE RECEIVED: / / MONTH DAY YEAR	3. UNCONTROLLI	D WASTE SITE ICERCIA 103 6	DATE RECEIVED:	C. NONE	
IV. CHARACTERIZATION OF POTENTIAL HAZARD			MONTH DA	NY YEAR	
	<u> </u>				
01 ON SITE INSPECTION BY ICHOES ME		CONTRACTOR G	STATE DO OTHER	CONTRACTOR	
MONTH DAY YEAR DE. LOCA	AL HEALTH OFFIC	CIAL OTHER:			
CONTRAC	700 E	503000	e (BS) and Dimes 8	#Man-alinaux	
			e (B) and Lumes e	FINGORE (Dari)	
02 SITE STATUS (Check one) 03	3 YEARS OF OPERA				
LI A. ACTIVE LEB. INACTIVE LI C. UNKNOWN	نلي	KNOWN 1958	UNKNOW!	4	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR					
Site was used by Hocker Chemical Co	mpany br	disposal of Mu	ash. Soil eamp	es indicate	
Site was used by Hocker Chemical (or the presence of polyaromatic)	hydročarb	ons (PAIT) (benzole	2) purene). F	Radioantive	
				THE THE CONTRACT OF THE CONTRA	
slag was found beneath the parking bt in low concentrations.					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR F	POPULATION				
OS DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT ANDIOR F	POPULATION It is cu	rrently used t	of High School s	tudents	
os description of potential hazard to environment and/or is the site is easily accessible. The depth of mover material as	POPULATION It is cu IPC the c	rrently used to	by High School s	tudents	
os description of potential hazard to environment and/ore the site is easily accessible. The depth of cover material or	opulation It is cu ier the c	rrently used tinknown quar	by High School s	todonts s is	
os description of potential hazard to environment and/ore the site is easily accessible. The depth of lover material or unknown.	POPULATION It is cu Yer the c	rrently used tinknown quar	by High School so Ithly of waste	tudents	
unknown.	POPULATION It is cu wer the c	rrently used to	ny High School s ztity of waste	tudents s is	
UN KINGUM. V. PRIORITY ASSESSMENT				tudents s is	
UN KINGLEY. V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high armedium is checked, compile	ate Part 2 - Waste Inform	nation and Part 3 - Description of Hazar		tudents s is	
UN KINGLEY. V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high armedium is checked, compile		nation and Part 3 - Description of Hazar			
UN ENGLY- V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. # high primedium is checked, combit A. HIGH (Inspection required promptly) (Inspection required)	ele Part 2 - Waste inform	nation and Part 3 - Description of Hazar	dous Conditions and Incidents)		
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, compil 1 A. HIGH (Inspection required promothy) VI. INFORMATION AVAILABLE FROM	ete Part 2 - Waste inform 경 C. LOW (Inspect on time a	nation and Part 3 - Description of Hazar D. NONE //No furthe	dous Conditions and Incidents)	ion tomi	
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, compil 1 A. HIGH (Inspection required promothy) VI. INFORMATION AVAILABLE FROM	ele Part 2 - Waste Inform C. LOW Inspect on time a	nation and Part 3 - Description of Hazar D. NONE (Verlable basis) (No furthe	dous Condrions and Incidents; r action needed. Complete current dispos	OS TELEPHONE NUMBER	
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, compil 1 A. HIGH (Inspection required promothy) VI. INFORMATION AVAILABLE FROM	ele Part 2 - Waste Inform C. LOW Inspect on time a	nation and Part 3 - Description of Hazar D. NONE (Verlable basis) (No furthe	dous Condrions and Incidents; r action needed. Complete current dispos	ion tomi	
V. PRIORITY ASSESSMENT 01 PRIORITY FOR INSPECTION (Check one. # high or medium is checked. combined in the complete of the co	ele Part 2 - Waste Inform C. LOW Inspect on time a	nation and Part 3 - Description of Hazar D. NONE //No furthe	dous Condrions and Incidents; r action needed. Complete current dispos	OS TELEPHONE NUMBER	
V. PRIORITY ASSESSMENT O1 PRIORITY FOR INSPECTION (Check one. # high or medium is checked. combined in the priority of the priority) O1 A. HIGH (Inspection required promothy) VI. INFORMATION AVAILABLE FROM O1 CONTACT (O)	ele Part 2 - Waste Inform C. LOW Inspect on time a	nation and Part 3 - Description of Hazar D. NONE (Verlable basis) (No furthe	dous Conditions and Incidents) r action needed, complete current dispos	03 TELEPHONE NUMBER (703) 591 - 7575	



POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	TRICATION
OI STATE	02 SITE NUMBER D980535049

II. WASTE ST	ATES, QUANTITIES, AN	D CHARACTERI	STICS				
	ATES -Check as that apply)	02 WASTE CUANTI	TY AT SITE	03 WASTE CHARACTI			
E A SOLID D B POWDER D C CLUDGE	C E SLURRY R. FINES C'F LIQUID L. G. GAS	Measures of meste quentifies must be independents TONS Unkingsin		TA. TOXIC B CORRO RADIOA PERSIS	LE SOLU SIVE LE FINFE ICTIVE LE FLAN TENT LE HIGNIT	CTIOUS C J EXPLOS! AMABLE C K REACTIV ABLE L INCOMP	VE 'E 47 7 F
בס סוֹרבּם	UNENDONS SOBERY	NO OF CRUMS				_ W NOT APP	Pirabut
III. IV STET	YPE						
CATERDRY	SUBSTANCE !	AME	01 GROSS AMOUNT	DZ UNIT OF MEASURE	03 COMMENTS		
51.D	SLUDGE			1			
CLW	OILY WASTE						
SOL	SOLVENTS	_	į				
PSD	PESTICIDES				Unknow	<u> </u>	
ಂದ	OTHER ORGANIC C	HEMICALS			Unknos	~>1	
10 C	INORGANIC CHEMIC	CALS			Unknow		
۵ ۾	ACIDS						
EAS	BASES						
MES	HEAVY METALS				Ilnkinore	\mathrew{N}	
IV. HAZARD	OUS SUBSTANCES (5	kppendiz for most frequer	ntry cated CAS Numbers)				L OF MEASURE OF
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DIS	SPOSAL METHOD	05 CONCENTRATION	C6 MEASURE OF CONCENTRATION
OCC	Pyrene		994		SI	1200	ug/g
)	Benzola) Antho	acene	999			740	119/0
	Fluoranthone		999			1100.	ug/l
	Phononthrone		\$5-01-8			760	19/2
Î	Chrysene		999			730	ug/l
:	Bonzo(b) Flu	cranthene	999	•		740	119/2
	BENZO(K) FLUC		999			560	19/1
:	Benzo (a) Pure	ne	999			650	rg/l
1	Indenolia30		999			510	119/0
OCC.	Benzo (ghi) Pe	,	799		SI	580	rigil
		,					
			<u> </u>				
							1
							-
V. FEEDST	DCKS (See Appendix for CAS Nur	noersi					
CATEGOR			02 CAS NUMBER	CATEGORY	O1 FEED	STOCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			<u> </u>
FDS				FDS			
VI. SOURC	ES OF INFORMATION	lite specific references, e	.g , state files, sample analys	as, reports)			
i	15 Corporation	,	17646 178	, .			
EF	PA/USGS 198	5					

J. MARY'S FEISHOR FLIFFY

SEPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENT	TECATION
O1 STATE	02 SITE NUMBER
NY	D980535249

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS			
01 💢 A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	© POTENTIAL	ALLEGED
NUS SAMPLING RESULTS IDENTIFY	TRACE LÉVELS OF SEVERAL	CONTAININATOR	<i>i</i> ε , λ .
OVERBURDEN (1-5'). NO GROUDWAT WATER 15 LOW.	ER DATA AVAILARLE, MIGRATION	POTERNAL 70	G BOUND
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	- 🗇 ALLEGED
NO DATA AVAILABLE.			
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	_ POTENTIAL	C ALLEGED
NO DATA AVAILABLE			
01 C D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 G OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	G POTENTIAL	C ALLEGED
LOW POTENTIAL DUE TO NOT	HOURE OF SUSPECTED WHSTES (FLY AETI)	
03 FOFOENION CIENTIAL AND ESTEE	02 TO OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	¥РОТЕНПАL	C ALLEGED
ALL WASTES ARE COVERED I SINCE THE AREA IS SCHOOL	HOWEVER ACCESS TO THE SIT _ GROUNDS	E 15 UN 2ES	TRICTED
01 (£ F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED:	02 D OBSERVED (DATE: (c/26/85) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	XALLEGED
NUS STORES FOUND SOIC S WITH POLYAROMATIC HYDROC	SAMRES FRONT SITE 70 BE CARBONS.	CONTAMIN	A7ED
01 C G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:			_ ALLEGED
LOW POTENTIAL SINCE S ZEMILES DOWNSTREAM OF	SURFACE WATER INTAKES (NIA) SITE.	(ARA RIVER) A	ier Approl
01 C H. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:	02 C OBSERVED (DATE) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	I ALLEGED
NO RECUPD OF INC	CIDENT.	·	
01 © I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	_ ALLEGED
NO RECORD OF INC	ITENT		

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENT	IFICATION
O1 STATE	02 SITE NUMBER
NY	D980535249

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION .	02 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
NO PECTED OF DAMAGE			
01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include nametal of apacies)	02 OBSERVED (DATE:)	☐ POTENTIAL	ALLEGED
NO RECORD OF DAMAGE			
01 □ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 () OBSERVED (DATE:)	☐ POTENTIAL	C ALLEGED
LOW POTENTIAL DUE TO NA	TURK OF SITE (SCHOOL) AND U	122AN LOCATIO	~
01 🛱 M. UNSTABLE CONTAINMENT OF WASTES (South Franchist and in security leaving forums)	02 OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
PADIOACTIVE SCAR FOUND BENEATH BURIED PROME ON SITE- POSSIBILITY	- ASPHACT PAZKING LOTS, UNSU OF CHHKAGE,	RESTANDATES DR	POSS OF
01 C N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
NO RECORD OF DAMAGE			
01 🗋 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	C ALLEGED
CMKNOWN			
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)		C ALLEGED
NO RECORD OF ILLEGAL GROUNDS.	DUMPING - UNKLIKEY SIME SITE	15 DETHOOL	-
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	GED HAZARDS		
·			
			•
III. TOTAL POPULATION POTENTIALLY AFFECTED:			-
IV. COMMENTS			
	-		
SOURCES OF INFORMATION (Cite specific references, e.g., state ties,	sample analysis, reportsi		
USGS, 1984 NCHO, 1982			
M43, 1985			

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

I. IDENTIFICATION

O1 STATE O2 STE NUMBER

NY D980535047

II. SITE NAME AND LOCATION						•
Miagare Coshelic Marys and Bisher	High School (fe	rmerly. St.	1	ET, ROUTE NO., OR SPEC SOO WE HIS	CIFIC LOCATION IDENTIFIER	• •
ogan			04 STATE	05 ZIP CODE 0	6 COUNTY	07COUNTY 08 CONG CODE DIST
niagara Fall	<u> </u>		NY	1	Nagara	063 33
43 C5 00.N _ 7	LONGITUDE 18 59 21.W	10 TYPE OF OWNERS POINT A. PRIVATE P. OTHER			C. STATE D. COUNT	
III. INSPECTION INFORMATIO	N					
01 DATE OF INSPECTION C 4 1331 SG HONTH DAY YEAR	02 SITE STATUS D ACTIVE NACTIVE	03 YEARS OF GPERA	TION <u>(1875)</u>	2 1958 ar ending year	UNKNOW	4
HONTH DAY YEAR 04 AGENCY PERFORMING INSPECTIO	-	9EG	INNING YE	AR ENDING YEAR		
□ A. EPA □ B. EPA CONTR.			ПСМ	UNICIPAL 🗆 D. MUI	NICIPAL CONTRACTOR _	
DE STATE DE STATE CONT	TRACTOR^A	lame of limit	PG.O	THER EDGINEER	ing Science (ES) 8	Dames & Moore
05 CHIEF INSPECTOR	P	OB TITLE			1 (SDOCKY) 07 ORGANIZATION	(DRM) OB TELEPHONE NO.
1						17031591-7575
Machy 1. BCCn	rC1	LINI E		i er	ES 11 ORGANIZATION	12 TELEPHONE NO.
09 OTHER INSPECTORS		Civil E				13/57633-2572
Mathy T. Boch contra inspectors Larry Keefe		<u> Otologi</u>	5/		DaW	10/3/653 93/8
						()
						()
						()
						()
13 SITE REPRESENTATIVES INTERVIS		14 TITLE		15ADDRESS		18 TELEPHONE NO
Moirce C'Dea		Princip	cal.	520-66th	St	1761283-877/
						()
						()
						()
						(
						()
17 ACCESS GAINED BY 18 T	TIME OF INSPECTION	19 WEATHER CON				
PERMISSION WARRANT	11:00 am	Windy	iclea	r, Sunny, 3	35	
IV. INFORMATION AVAILABLE	LE FROM	las of				100.75.55
01 CONTACT		02 OF !ApencyrOrps		<1		03 TELEPHONE NO.
(idly J. Bosn				vy – Sálenci		17031591-7575
04 PERSON RESPONSIBLE FOR SITT	E INSPECTION FORM	05 AGENCY	C8 OF	RGANIZATION	07 TELEPHONE NO.	08 DATE
1 Cathy J. Bos	ma		5	cimé		5,1,86 MONTH DAY YEAR



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

I. IDENT	TFICATION
OI STATE	102 SITE NUMBER 1D 980535249

II. WASIES	TATES, QUANTITIES, AND C	CHARACTER	RISTICS							
OI PHYSICAL S		WASTE QUANT	ITTY AT SITE	03 WASTE CHAR	ACTERISTICS	************			• •	
E-A SCLIO	1	(Measures	of waste quantities	4						
D 8. POWDE	ER. FINES D F. LIQUID E D G. GAS		Unkrotun	DA. TOXIC DB. CORROSIVE C. RADIOACTIVE		D E. SOLUE	TOUS .	I. HIGHLY \ I. EXPLOS	IVE	
O D. OTHER	Makrosin "	CUBIC YAROS		70. PEF	SISTENT	□ G. FLAMI □ H. IGNITA	BLE D	K. REACTN L. INCOMP M. NOT AP		
*** *** ***		O. OF DRUMS					-	n	PUCAUL	
III. WASTET										
CATEGORY	SUBSTANCE NAME		01 GROSS AMOUNT	02 UNIT OF MEASI	JRE 03 COL	MENTS				
SLU	SLUDGE									
OLW	OILY WASTE									
SOL	SOLVENTS									
PSD PSD	PESTICIDES					· · · · · · · · · · · · · · · · · · ·				
occ	OTHER ORGANIC CHEMI				I Day	(00)4Y				
юс	INORGANIC CHEMICALS				1 0/12	(CO)4. (,		
ACD	ACIDS									
BAS	BASE S									
	MES HEAVY METALS				11/20/	רוטאנא				
	DUS SUBSTANCES (544 Appende	t for most frequent	ly caed CAS Humberaj		TUTTE	-LICTEA)				
1 CATEGORY	02 SUBSTANCE NAME		03 CAS NUMBER	04 STORAGE/	DISPOSAL ME	ТНОВ	05 CONCENTE	A FON	06 MEASI	JRF C
CCC	Pyrene		999		SI				OS MEASI	
	Benzo (a) Anti	nracon e	999		1		<u>150 e</u>		ug	<u>U</u>
-	Fluoranthene	•	999.		1.		740			
	Phenanthrene	•	55-01-8		 		1100			
	Chasene		999		 		76			
	Benzo(b) Fluor	Carothone					73			
	Benzolk) Fluera	nthen e	999				74			
	Benzola) Purene)	999				56	\circ		
	Indeno (1237d)	PURENE	999				<u> 457</u>			
CCC ,	Benzo (ghi) Peryl		999				<u> 5 j</u>			
					<u>j-T</u>		<u>58</u>	0	<i>49/0</i>	
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									" -	
FEFDSTOO	XS (See Accounts for CAS Numbers)							T		
CATEGORY	01 FEEDSTOCK NAMI	E	02 CAS NUMBER	CATEGORY		01 FEEDSTOC	X NAME	1 0	D2 CAS NUI	
FDS			·	FDS				-+		~SEA
FDS				FDS						
FDS				FDS		·				
FDS				FDS				$-\!\!+\!\!\!-$		
SOURCES	OF INFORMATION (CR. EDOCATE)	references, e.g., si	Isle (Ses, sample analysis (en	~~**1	1					
				31E)	•					
MU.	5 Corporation R	cort!	1482							
	74/10-6 0									
EF	PA/USGS 1955	,	•							
Es	11/1965 1985	•	•							

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

O1 STATE O2 SITE NUMBER

NY D98C535249

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS.

OF MILE DIRECT CONTACT OF POPULATION POTENTIAL AFFECTED: OF RESPONDED THAT AFFECTED: OF RESPONDED TH	II, HAZARDUUS CONDITIONS AND INCIDENTS			
DIT SENTENCE DESCRIPTION NO DESCRIPTION (1-52"), NO CROUNDWERE DATA ANNIABLE; MIKRIFTION TO EXECUTE NATIFIC IS DESCRIPT. OI D.S. SURFACE WATER CONTAMBATION OF POPULATION POTENTIAL (1-5) DESCRIPTION OI D.S. SURFACE WATER CONTAMBATION OF POPULATION POTENTIAL (1-5) DESCRIPTION NO DATA ANNIABALE OI D.C. CONTAMBATION OF AIR OF POPULATION POTENTIAL (1-5) DESCRIPTION NO DATA ANNIABLE OI D.C. CONTAMBATION OF AIR OF POPULATION POTENTIAL (1-5) DEPOTENTIAL (1-5) DESCRIPTION NO DATA ANNIABLE OI D.C. FREEDPLOSING CONDITIONS OI D.C. CONTAMBATION OF AIR OF POPULATION POTENTIAL (1-5) DEPOTENTIAL (1-5) DEP	01 X A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
OF DESCRIPTION OF DESCRIPTION OF ANALYSIA OF STREET ON THE STREET OF STREE	NUS SAMPLING DESULTS DO	ENTIFY TRACE LEVELS OF	SEVERAL CO	Tunning water
OI D. SUPPLICATION OF SATE OF AVAILABLE OI D. C. CONTAMINATION OF AR OF AVAILABLE OI D. C. CONTAMINATION OF AR OF AVAILABLE OI D. C. CONTAMINATION OF AR OF ARABATIVE DESCRIPTION OI D. POTENTIAL AVAILABLE OI D. POTENTIAL DATA AVAILABLE OI D. NABRATIVE DESCRIPTION OI D. POTENTIAL DATA AVAILABLE OI D. NABRATIVE	IN OVERBUIDEN (-51), NO GI	COUNTY WATER DATA AVAILABLE	E; MIKRHTION -	TO GROUND-
ON DATA AVAILABLE ON DATA AVAIL	WATER 15 POSSIBLE			
OI D. C. CONTAMINATION OF ARE O3 POPULATION POTENTIALLY AFFECTED: O1 D. PREEDENCOSVE CONDITIONS O3 POPULATION POTENTIALLY AFFECTED: O1 D. PREEDENCOSVE CONDITIONS O3 POPULATION POTENTIALLY AFFECTED: O1 M.E. DIRECT CONTACT O3 POPULATION POTENTIALLY AFFECTED: O1 M.E. DIRECT CONTACT O3 POPULATION POTENTIALLY AFFECTED: O2 DOSSERVED (DATE: O3 POPULATION POTENTIALLY AFFECTED: O2 DOSSERVED (DATE: O3 MARRATIVE DESCRIPTION NO EXPOSED WIASTES AT SITE. UN ZESTRICTED ACCESS SINCE AFFA IS SECTION O3 MEA POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION O5 CONTAMINATION OF SOIL: O5 AMERICAN FOUND THE SOIL IN THE FIELD CONTAMINATED WITH POLYALORIAL HYDRO CARROLIS. O1 D. C. DEPINKING WATER CONTAMINATION O3 POPULATION POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION COW POTENTIAL SURFACE WATER INTENSES N.2 MILES FROIL SITE. O1 D. H. WORKER EXPOSUREMBURY O3 WORKERS POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION UD REGION OF INCIDENT O4 OSSERVED (DATE: O4 NARRATIVE DESCRIPTION UD REGION OF INCIDENT O4 NARRATIVE DESCRIPTION O5 DOSSERVED (DATE: O5			☐ POTENTIAL	☐ ALLEGED
01 D. C. CONTAMBATION OF ARE 03 POPULATION POTENTIALLY AFFECTED: 01 D. PATTA AVAIL ABOLE 01 D. PREEDYLOSINE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION LOW POTENTIAL DUE TO NATURAL OF WASTER (FLY ACH) 01 ME DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NO PROSED WASTES AT SITE. UN LESTRECTED ACCESS SINCE ATTALES 05 ME CONTAMBATION OF SOL 05 AREA POTENTIALLY AFFECTED: 06 NARRATIVE DESCRIPTION NULS SAMPLING FOUND THE SOL IN THE FIELD CONTAMBATION OF THE POLYACION ACCESS SINCE ATTALES 06 NARRATIVE DESCRIPTION NULS SAMPLING FOUND THE SOL IN THE FIELD CONTAMBATION OF THE POLYACION ACCESS SINCE ATTALES 06 NARRATIVE DESCRIPTION NULS SAMPLING FOUND THE SOL IN THE FIELD CONTAMBATION OF THE POLYACION ACCESS SINCE ATTALES 06 NARRATIVE DESCRIPTION NULS SAMPLING FOUND THE SOL IN THE FIELD CONTAMBATION OF THE POLYACION ACCESSORY 06 DE DRINKING WATER CONTAMBATION 07 OF DESCRIPTION NULS SAMPLING FOUND THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST OF THE SOLE INTEREST. 01 D. H. WORKER EXPOSUREINJURY 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 05 DESCRIPTION 06 DESCRIPTION 06 DESCRIPTION 07 DESCRIPTION 08 DESCRIPTION 09 DESCRIPTION 0	03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		
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ON DATA AVAILABLE ON DATA AVAIL	01 IT C. CONTAMINATION OF AIR	02 () OBSERVED (DATE:)	□ POTENTIAL	□ ALLEGED
01 0 - FREZENCOSNE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION COW POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 05 10 - E DIRECT CONTACT 05 POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 06 10 - E DIRECT CONTACT 06 POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 07 10 - E DIRECT CONTACT 08 POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 09 POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 09 POTENTIAL DUE TO NATURE OF WASTES (FLY ACH) 00 POTENTIAL DUE TO NATURE OF WASTES OF WASTES (FLY ACH) 01 10 - E DIRECT CONTACT 03 POTENTIAL DUE TO NATURE OF SERVED (DATE: 16 POTENTIAL DUE ALLEGED 04 NARRATIVE DESCRIPTION 05 POTENTIAL DUE TO NATURE DE SCRIPTION 10 D. H. WORKER EXPOSUREINIURY 10 D. POTENTIAL DESCRIPTION 10 D. POTENTIAL DESCRIPTION 11 D. POTENTIAL DESCRIPTION 12 DOBSERVED (DATE: 10 POTENTIAL DESCRIPTION 13 D. POTENTIAL DESCRIPTION 14 D. POTENTIAL DESCRIPTION 15 D. POTENTIAL DESCRIPTION 16 D. POTENTIAL DESCRIPTION 17 D. POTENTIAL DESCRIPTION 18 D. POTENTIAL DESCRIPTION 19 D. POTENTIAL DESCRIPTION 10 D. POTENTIAL DESCRIPTION 20 D. POTENTIAL DESCRIPTION 21 D. POTENTIAL DESCRIPTION 22 D. DESERVED (DATE: 10 POTENTIAL DESCRIPTION 25 D. DESCRIPTION 26 D. DESCRIPTION 27 D. POTENTIAL DESCRIPTION 28 D. DESCRIPTION 29 D. DESCRIPTION 20 D. D			210121112	
01 0. FREZENCOSNE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION COW POTENTIAL DUE TO NATURE OF WASTERS (FLY ACH) 01 10 E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: VACOURING NARRATIVE DESCRIPTION NO EXPOSED WASTERS AT SITE. UN RESTRICTED ACCESS SINCE AFFEL IS SCHOOL GROUNDS 01 10 F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (ARM) NULS SAMPLING POUND THE SOIL IN THE FIELD CONTAMINATED WITH POLYARORIANLE HYDEO CARRONS. 01 0 G. ORINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 16 0 G. ORINKING WATER CONTAMINATION 17 0 OR DESERVED (DATE: 18 10 ORINKING WATER CONTAMINATION 18 10 ORINKING WATER CONTAMINATION 19 0 ORIGINALLY AFFECTED: 10 0 H. WORKER EXPOSURE/INJURY 10 0 H. WO			•	
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O4 NARRATIVE DESCRIPTION NULS SAMPLING FOUND THE SOIL IN THE FIELD CONTAMINATED WITH POLYALOMATIC HYDRO CARZONS. 01 [] G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION COW POTENTIAL - SURFACE WATER INTAKES NZ MILES FLOI: I SITE				
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O1 G. DRINKING WATER CONTAMINATION O2 OBSERVED (DATE:	(Acrae)			
01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE:			CONTAMINATED	HTIW.
O3 POPULATION POTENTIALLY AFFECTED:	POLYARONIATIC HYDRO CARZONS	•		
O3 POPULATION POTENTIALLY AFFECTED:				
LOW POTENTIAL - SURFACE WATER INTAKES N2 MILES FRONT SITE			D POTENTIAL	ALLEGED
01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE:				
01 H. WORKER EXPOSURE/INJURY 02 OBSERVED (DATE:	LOW POTENTIAL - SURFACE	WATEL INTAKES NO MILL	SS EVALL SITE	
03 WORKERS POTENTIALLY AFFECTED:		2 ////	22 12011 3110	•
03 WORKERS POTENTIALLY AFFECTED:				
O1 DI. POPULATION EXPOSURE/INJURY O3 POPULATION POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION NO REGULD OF INCIDENT		•) D POTENTIAL	☐ ALLEGED
01 DI. POPULATION EXPOSURE/INJURY 02 DOBSERVED (DATE:) POTENTIAL. DALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NO PUBBLE OF PROJECTION.	US WORKERS POTENTIALET AT 189129.	of Harrative Description		
01 DI. POPULATION EXPOSURE/INJURY 02 DOBSERVED (DATE:) POTENTIAL. DALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NO PUBBLE OF PROJECTION.	45 76			
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NO PUBLICATION OF INCIDENT.	RE CORD OF INKIDENT	-		
03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION NO PUBLICATION OF INCIDENT.				
) DOTENTIAL.	☐ ALLEGED
	NO PERMON -	. —		
EPAFORM 2070-13 (7-81)	· · · · · · · · · · · · · · · · · · ·	1(43		
EPAFORM 2070-13 (7-81)			•	
	EPA FORM 2070-13 (7-81)			

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

	I,	IDENT	TIF	CAT	ION	
-	01	STATE	02	SITE	NUMBER	· ·

ι,	INEM	IFICATION
1	STATE	02 SITE NUMBER
	MY	D980535249

AZARDOUS CONDITIONS AND INCIDENTS (Contract)				• .
L. J. J. DAMAGE TO FLORA	02 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLÈGED -
04 NARRATIVE DESCRIPTION			·	U ALLEGED
·				
LIONE NOTICE	_			
NOTICEL NOTICEL				
01 C K. DAMAGE TO FAUNA	02 OBSERVED (DATE:)	☐ POTENTIAL	O ALLEGED
04 NARRATIVE DESCRIPTION (Include name(s) of species)		•		O ALLEGED
	•			
NONE NOMERS				•
01 ☐ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	O POTENTIAL	☐ ALLEGED
COM BAENUITE	DUE TO NATURE OF ST	T.		•
01 ☐ M. UNSTABLE CONTAINMENT OF WASTES (Sodts/Aurori/Standing squidt, Leating drums)	02 OBSERVED (DATE:)	D POTENTIAL	C ALLEGED
O3 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION			
RADIO ACTIVE SUAG	FUUND BENEATH ASPHALT ?			
REPORTS OF BURIED DRUMS ON S	TE- POSUBILITY OF CEAPAGE	SARKING	COTS, UNSUES	CALINATED
01 D N. DAMAGE TO OFFSITE PROPERTY				
04 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	☐ POTENTIAL	O ALLEGED
				·
NONE NOTIC	Æ0			
J. I O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS	02 II OBSEDVED (DATE:			
04 NARRATIVE DESCRIPTION	OF IT OPSEWAED (DATE:)	☐ POTENTIAL	□ ALLEGED
·				
	_			
UNKNOWN	• •			
01 P. ILLEGAL/UNAUTHORIZED DUMPING	02 OBSERVED (DATE:	1	☐ POTENTIAL	C 41.50=
04 NARRATIVE DESCRIPTION			LI FOIENTIAL	☐ ALLEGED
12/21/5				
	NG SITE VISIT; NO REPORT	OF IL	CECAC DUMPI	7
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	SED HAZARDS			
•				
·				, mark #84 * * * *
III TOTAL POPULATION POTENTIALLY ASSESSED.				
IIL TOTAL POPULATION POTENTIALLY AFFECTED:				,
IIL TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS				, <u> </u>
				, <u>, , , , , , , , , , , , , , , , , , </u>
IV. COMMENTS				
V. SOURCES OF INFORMATION (Cre specific references, e.g., sine fies, 3	ample analysis, reports;			
V. SOURCES OF INFORMATION (Co special relevances, e.g., since ides, s USAS, 1184	ample analysia, reportaj			
V. SOURCES OF INFORMATION (Co special relevances, e.g., since idea, so USKS, 1984 NCHD, 1982, 1986	emple ensiyste, reponsy			
V. SOURCES OF INFORMATION (CIO SDOCKE POLOTOCOS. O. g., SIMO (Los., 2) MSGS, 1184				

SEPA

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

I. IDENTIFICATION						
OI STATE	D980535249					

	PARI 4-PERMIT	אאט טבאכ	AIP.	IIVE INFORMATI		
II. PERMIT INFORMATION		•				•
01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISS	UED	04 EXPIRATION DATE	05 COMMENTS	
A. NPDES	NA ···					
☐ B. UIC						
☐ C. AIR						
D. RCRA						
DE RORA INTERIM STATUS					1	
DF. SPCCPLAN					<u> </u>	
G. STATE SOME						
□ H. LOCAL			-			
DI. OTHER (Specifi)						
DJ. NONE						
III. SITE DESCRIPTION						
	AMOUNT 03 UNIT OF	MEASURE	04 TF	REATMENT (Check of the	LODIY)	05 OTHER
DA SURFACE IMPOUNDMENT B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND	nkrown		□ B. □ C. □ D.	INCENERATION UNDERG TOUND INJ CHEMICAL/PHYSIC. BIOLOGICAL	AL	BA BUILDINGS ON SITE
☐ E TANK, BELOW GROUND				WASTE OIL PROCES		06 AREA OF SITE
21.200.2	nkinosin			SOLVENT RECOVER		2-3 (Acres
G. LANDFARM ————————————————————————————————————		G, OTHER RECYCLING/RECOVERY DAT. OTHER				
I I. OTHER			ψrn.	(Se	ecity)	
(Specify)						
industrial wastes in the be disposed of field. Flyach was	ntity of radio ere landfilled under the as brought to th	active don s phalt e site	site par ba	acy fly ash . The was rking let. y Heaker (n and off ste materi and the Chamical Co	ver unknown hal is suspected schools feetball company
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check check					· · · · · · · · · · · · · · · · · ·	DE UNICOUND DANCEDOUS
A ADEQUATE, SECURE	☐ B. MODERATE	Ø.in	ADEC	DUATE, POOR	U D. INSECU	RE, UNSOUND, DANGEROUS
No drums are known to be disposed of an site. The site has no liner or run on control. The depth of cover is unknown.						
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: BYES 02 COMMENTS SHE IS a high so	oncol-Site is	s 100at	ed	undon/par	king lot c	and feether
VI. SOURCES OF INFORMATION (CTO ADD	ocific references, e.g. siste fées, sur	noie analysis, reol	ortsj			
NCHO, Site Protile						
NUS Corporation Report, 1985						

POTENTIAL HAZARDOUS WASTE SITE EPORT ENVIRONMENTAL DATA

I. IDENTIFICATION							
O1 STATE	02 SITE NUMBER						
NY	02 SITE NUMBER D980535249						

σ \square \square \vee		I OTENTIAL MAZARDOUS
SEPA	•	SITE INSPECTION RE
		PART 5 - WATER, DEMOGRAPHIC, AND

DRINKING WATER SUPPLY					1. + · .		•
01 TYPE OF DRINKING	SUPPLY		02 STATUS				03 DISTANCE TO SITE -
	SURFACE	WELL	ENDANGER	ED AFFI	ECTED	MONITORED	·
COMMUNITY	人類	B. 🔾	A. 🗆		. 0	C. 🗆	12 /m
NON-COMMUNITY	c. 🗀	0. 🗆	D. 🗆			F. 🗆	(111)
III. GROUNDWATI	ER .						B(mi)
01 GROUNDWATER U	SE IN VICINITY (Check	one)					
☐ A. ONLY SOURCE	CE FOR DRINKING	B. DRINKING (Other sources available COMMERCIAL, IN (No other water source)	DUSTRIAL IRRIGATIO		COMMERCIAL Lamited other soc	L, INDUSTRIAL, IRRIGA urcae avaladia)	TION ØD. NOT USED, UNUSEABLE
02 POPULATION SERV	ED BY GROUND WAT	er <u></u>		03 DISTANO	E TO NEARE	EST DRINKING WATER I	WELL > 3 (ml)
04 DEPTH TO GROUNG		05 DIRECTION OF GRO	UNDWATER FLOW	06 DEPTH T	O AOUIFER	07 POTENTIAL YIEL	2 100001500
(PERCHED		UNKNOW		OF CON	CERN	OF AQUIFER	D 08 SOLE SOURCE AQUIFER
	(ff)			20-	120 (m)	UNKNOWN	-(opd) YES ONO
09 DESCRIPTION OF W	ELLS (including weege,	depth, and location relative to p	Copulation and buildings)				
		ZINKING WELLS LLS FOIR NON-			= .2mic	.es South we	ST OF SITE,
10 RECHARGE AREA				11 DISCHAR	GE AREA		
TYES COMME	NTS			O YES	COMMEN	TS	-
□ NO	GNKNOWN			□ №			
, SURFACE WAT					UIS	VKAK11-11-1	•
01 SURFACE WATER U							·
A RESERVOIR DRINKING W	ATER SOURCE	IMPORTANT	I, ECONOMICALLY TRESOURCES	□ c . c	OMMERCI	AL, INDUSTRIAL	☐ D. NOT CURRENTLY USED
NAME:							
NAME	•					AFFECTED	DISTANCE TO SITE
NIA6+	20 PIVER						,
			•				0.6 (mi)
				····		·	(mi)
V DEMOCRADING							(mi)
V. DEMOGRAPHIC		INFORMATION					
DI TOTAL POPULATION	WITHIN				02	DISTANCE TO NEARE	ST POPULATION
A. 4,000 NO. OF PERSONS		/0, 06 0 MO. OF PERSONS		MILES OF S	1	· .	D + (mit)
NUMBER OF BUILDIN	GS WITHIN TWO (2) M	IILES OF SITE	T	. OF FERSONS			L
				U4 DISTANCE	TO NEARES	T OFF-SITE BUILDING	
of Booth (Donners)						100 6+	(mi)
THE SITE IS OCCUPIED BY MAGARA CATHOLIC HIGH SCHOOL ON 664 JIFFE, WAGENLY EXPLANT THUS. THIS AREA IS PRIMABLLY BESIDENTIAL OF MEDIUM DENSITY. COMMERCIAL AREAS ARE NIGOO FRET NORTH, THE NEAREST INDUSTRIAL TOWE IS NIMICE WEST. THENE ARE NO ACCIDING AREAS WITHIN TWO MILES.							

	_		Λ
1	-	\mathbf{H}	Д

SEPA		SITE INCOE	CTION DEPOST	E SITE .	1. IDENTIFICATION
	PART 5 - \	WATER, DEMOGRAPI	CTION REPORT		01 STATE 02 SITE NUMBER NY D980535249
VI. ENVIRONMENTAL INFORMA	ATION	and a mine and the	MIC, AND ENVINC	NMENTAL DATA	10(1010000000011
01 PERMEABILITY OF UNSATURATED Z	ONE (Check one)				
□ A 10-4 - 10-	/	. 10 ⁻⁴ - 10 ⁻⁶ cm/sec [□ С. 10-4 — 10-3 сл	n/aec □ D. GREATER T	HAN 10 ⁻³ cm/sec
02 PERMEABILITY OF BEDROCK (Chica	one)				
	MEABLE B.	RELATIVELY IMPERMEAS	BLE C. RELATIVE	LY PERMEABLE O D. V	VERY PERMEABLE
03 DEPTH TO BEDROCK		TAMINATED SOIL ZONE	05 SOIL p		
20-120 (m)		NKNOWN (H)			
06 NET PRECIPITATION	07 ONE YEAR 24 H	OUR RAINFALL	08 SLOPE		
G // (in)		2. (in)	SITE SLOPE	DIRECTION OF SITE SLO	TERRAIN AVERAGE SLOPE
	10			1	
SITE IS IN 7500 YEAR FLOW		☐ SITE IS ON BARRI	IER ISLAND, COASTA	L HIGH HAZARD AREA, RI	IVERINE FLOODWAY
	erre)		12 DISTANCE TO CRIT	ICAL HABITAT (of endangered as	20C-06[
ESTUARINE	(7	THER W-3)		~ ^	(mi)
13 LAND USE IN VICINITY (mi)	B	<u>(mi)</u>	ENDANGERE	D SPECIES:	
DISTANCE TO:	BE.				
COMMERCIAL/INDUSTRIA	AL .	SIDENTIAL AREAS; NATION FORESTS, OR WILDLIF	NALISTATE PARKS, E RESERVES	AGRICU PRIME AG LAND	LTURAL LANDS AG LAND
A. <u>6.2</u> (mi)	•	B. <u> </u>	(mi)	C	mi) D. 72 (mi)
14 DESCRIPTION OF SITE IN RELATION TO					()
. UISYOSAL OF	PZY ASH	TO HAVE BEEN BE FICLED AR COVERED WITH	EA UNTIL : RO	UKITEY LEVEC.	URING THE 19503. CURLENZY SITE IN COTS
•				•	
				•	
•					
		•			
SOURCES OF INFORMATION					
CFR 40, PALT 30	O	e.g., state fies, sample analysis, re	pont)		
MMD. 1902					
MYS DEC RER 9, 198	36				
11545, 1965 '					
MSDH, 1985					•

SEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L	IDENT	LEICATION	
01	STATE	02 SITE NUMBER	_
1	ABM	1000C3524	٠,

PART 6 - SAMPLE AND FIELD INFORMATION

II. SAMPLES TAKEN				•
SAMPLETYPE	01	NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03.ESTIMATED DAT RESULTS AVAILA
GROUNDWATER				
SURFACE WATER				
WASTE				
AIR				
RUNOFF	-			
SPILL				
SOIL				
VEGETATION				
OTHER				
IIL FIELD MEASUREME	NTS TAKE	N		
01 TYPE		2 COMMENTS		
1161.		Moter near	dome teven up and and down is ind of	the
HNW		ida di	id not measure any volatile organics	
		Dresen		
		ψ1 ÷ ± 1		
IV. PHOTOGRAPHS A	ND MAPS			
01 TYPE / GROUND] AERIAL		02 IN CUSTODY OF Engineering Science and Donals &	Moore
03 MAPS 04	LOCATIONO			
□ NO			ience and Dames & Moore.	
V. OTHER FIELD DAT.	A COLLECT	FED (Provide namenie de	(scopline)	
None				
			·	
			. e.g., SINE fies, sample analysis, reports)	
ES and	S&M	. Site VI	sit, Apr. 1986	

Ú

SEPA	P .		SITE INSPE	ARDOUS WASTE SITE CTION REPORT ER INFORMATION	01	DENTIFIC STATE 02 NOT D	SITE N	ON UMBER 535049
II. CURRENT OWNER(S)				PARENT COMPANY (#	opecade)			• • •
31 NAME		02 D	+8 NUMBER	OB NAME			3+0+6	B NUMBER
DICCESE of Bulfollo DISTREET ADDRESSIR.O. BOX. AFD F. MC.I 100 South Elmicod A	. <i>C</i>	J	04 SIC CODE	10 STREET ADDRESS (P O &	z, RFD #, erc.)		11	1 SIC CODE
100 South Flancesou II	108 STATE	107 Z	IP CODE	112 CITY		13 STATE	1422	CCCE
Buffalo	NY		14302					
G1 NAME	1.	<u> </u>	HE NUMBER	CS NAME		i	C9 D+	B NUMBER
C3 STREET ADDRESS (P.O. BOL. RFD #, etc.)			04 SIC CODE	10 STREET ADDRESS (P 0. 6c)z, RFD #. etc.)		1	1 SIC CODE
OS CITY	OB STATE	07	I ZIP CODE	12 CITY		13 STATE	14 218	CODE
01 NAME	.1	021	D+8 NUMBER	OB NAME	•		C9 D+	B NUMBER
03 STREET ADDRESS (P.O. Box, RFD F. etc.)		1	04 SIC CODE	10 STREET ADDRESS (P.O. &	os. RFO F, etc.)		1	1 SIC CODE
05 CITY	OS STATE	07	ZIP CODE	12 CITY		13 STATE	14 ZJF	CODE
01 NAME		02	D+8 NUMBER	OB NAME		<u> </u>	090+	R38MUN B
03-STREET ADDRESS (P.O. Box. RFD #, etc.)		<u> </u>	04'SIC CODE	10 STREET ADDRESS (P.O. 8	ox, RFD Ø, erc.)	<u></u>	<u> </u>	1 SIC CODE
05 CITY	06 STAT	E 07	ZIP CODE	12 GTY		13 STATE	14 21	P CODE
III. PREVIOUS OWNER(S) (Les most record for	****			IV. REALTY OWNER(S) (If applicable; list most reca	era Oraști	<u></u>	
U.S Government Kar As		02	D+8 NUMBER	01 NAME			02 D	+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD P. exc.)			04 SIC CODE	03 STREET ADDRESS (P.O.	Boz, RFD Ø, etc.)			94 SIC CODE
OS CITY	OSSTAT	E 07	ZIP CODE	os city		06 STATE	07 Z	IP CODE
orname LaSalle Development	Coco	02	D+8 NUMBER	01 NAME			02 5)+8 NUMBER
O3 STREET ADDRESS (P.O. BOLL AFD P. MEJ)	•	_1	04 SIC CODE	03 STREET ADDRESS (P.O.	Box, RFD €, erc.)			04 SIC CODE
OS CITY	06 STAT	E 07	ZIP CODE	05 CITY		OS STAT	E 07 Z	IP CODE
01 NAME	1	02	D+8 NUMBER	01 NAME			G2 5	+8 NUMBER
City of Magara Fa	115							
03 STREET ADDRESS (P.O. Box, RFD 8, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O.	Box, RFO #, erc.)			C4 SIC CODE
OSCITY	06STAT	E	17 ZIP CODE	OS CITY		06 STAT	E 07 Z	IP CODE
V. SOURCES OF INFORMATION (Cas a	Doctric reference	• 8. e. c	., siale lies, sample enah	rini, reportii				
Letter Se- Magr. Po April 17,1986 De-ed Search, Fek	aul Cro	γoi.			rem Kenned	ig a s	Stor	2CK
here search ter	1,1100	,						

SEPA

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

	I. IDENTIFICATION						
i	O1 STATE	02 SITE NUMBER					
	V.A.	D98053524					

			<u> </u>
II. CURRENT OPERATOR (Promos & colleges from some	1	OPERATOR'S PARENT COMPANY (# 400	· · · -
OI NAME	02 D+8 NUMBER	10 NAME	11 0+8 NUMBER
Site is a Catholic School			
03 STREET ADDRESS (# 0 Box, NFD #, erc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD F. Mc.)	13 SIC CODE
500 664 St.			
05 CITY 106 S	TATE OF ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
	14304		
OB YEARS OF OPERATION OF NAME OF CYCLER	0 06-1-		
1 34 years Diccessióf 1	30 Halo		
III. PREVIOUS OPERATOR(S) (Lat most record feet; pro-		PREVIOUS OPERATORS' PARENT CON	PANIES (# 2004CADA)
01 NAME	02 D+8 NUMBER	10 NAME	11 0+8 NUMBER
V. S. Government			
03 STREET ADDRESS (P.O. Box. RFD #, erc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, erc.)	13 SIC CODE
Unknown			
05 CITY 08 S	TATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER DURIN	IG THIS PERIOD		<u> </u>
01 NAME	02 D+B NUMBER	10 NAME	11 D+8 NUMBER
LaSalle Development Corp			
03 STREET ADDRESS (P.O. Box, RFD F. erc.)	04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE
11 K - 50 - 5			
Unkrown 1085	TATE 07 ZIP CODE	14 CITY	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER DURIN	AC THIS DESIGN		
1923-1948	W THIS PERIOD		
9.1			
OI NAME	02 D+B NUMBER	10 NAME	11 D+B NUMBER
City of Awagara Falls			
03 STREET AODRESS (P.O. BOX, RFD #, MC.)	- 04 SIC CODE	12 STREET ADDRESS (P.O. Box, RFD #, erc.)	13 SIC CODE
05 CITY 08 S	STATE 07 ZIP CODE	14 CITY	105 57 1751 105 205 205 205
1000	THE WILL COUR	I GUIT	15 STATE 16 ZIP CODE
08 YEARS OF OPERATION 09 NAME OF OWNER DURIN	NG THIS PERIOD		
1944-1953			·
IV. SOURCES OF INFORMATION (Che specific refer	ances, e.g., slale fees, sample and	YSS. / SOO/TEJ	
	·····		

Letter for Msgr. Paul Cronin which enclosed letter from Kennedy & Stoeckl, April 17, 1986.

Doed Search, Feb. 1985.

0		POTENTIAL HAZ	L IDENTIFICATION		
SEPA	PAR	SITE INSP	ECTION REPORT FRANSPORTER INFORMATION		2 SITE NUMBER 198053524
II. ON-SITE GENERATOR					
01 NAME		02 D+B NUMBER			
Not Applicable					
03 STEEET ADDRESS (F O. Box, RFD F, HC.)		G4 SIC CODE			
ಚ ದಗ	OB STA	TE 07 ZIP CODE	_		
III. OFF-SITE GENERATOR(S)					
Hooker Chemical Co.	mpany	G2 D+8 NUMBER	01 NAME		IC2 D+B NUMSER
03 STREET ADDRESS (P.O. Box, RFD #, Ma.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFO #, etc.)		04 SIG CCC
njagara Fulls	OG STAT	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
OI NAME		02 C+8 NUM8ER	01 NAME		02 D + 8 NUMBER
03 STREET ADDRESS (P.O. BOX, RFD #, MC.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box. RFD #, etc.)		04 SIC COD
OS CITY	O6 STAT	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
IV. TRANSPORTER(S)		•	1		
01 NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER
03 STREET ADDRESS (P.O. Box, RFD F. erc.)		04 SIC CODE	03 STREET ADDRESS (P.O. BOX. AFD F. SIC.)		04 SIC COD
05 CITY	06 STAT	E 07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE
01 NAME		02 D+8 NUMBER	01 NAME		O2 D+8 NUMBER
03 STREET ADDRESS (P.O. BOX, RFD P., MC.)		04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE

05 CITY

08 STATE OF ZIP CODE

V. SOURCES OF INFORMATION ICRO EDUCATE PROFILE REPORT, FISO

06 STATE OF ZIP CODE

05 CITY

SEPA

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

L IDENTIFICATION

101 STATE 02 STE NUMBER

NY D180535949

PARI 10 - PA	ST RESPONSE ACTIVITIES	•
AST RESPONSE ACTIVITIES NONE		•
01 C A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY
04 DESCRIPTION		
		03 AGENCY
01 D B. TEMPORKAY WATER SUPPLY PROVIDED 04 DESCRIPTION	02 CATE	03 AGENUT
	22.04.77	03 AGENCY
01 CLO, PERMANENT WATER SUPPLY PROVIDED 04 DESCRIPTION	UZ DATE	63 AGENOT
	02 DATE	03 AGENCY
01 D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	UZ DATE	
TO THE COLUMN TO	O2 DATE	03 AGENCY
01 D E CONTAMINATED SOIL REMOVED 04 DESCRIPTION	UZ DATE	00 A0LIO1
		03 AGENCY
01 DF. WASTE REPACKAGED 04 DESCRIPTION	OZ DATE	03 /02/101
	02 DATE	03 AGENCY
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	
	02 DATE	03 AGENCY
01 DH. ON SITE BURIAL 04 DESCRIPTION		
THE ATTEMPT OF THE AT	DO DATE	03 AGENCY
01 D L IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	UZ DATE	
01 [] J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 🗆 K. IN SITU PHYSICAL TREATMENT	02 DATE	O3 AGENCY
04 DESCRIPTION		
A. C. L. CUCADCULATION	02 DATE	03 AGENCY
01 DL ENCAPSULATION 04 DESCRIPTION	02 0012	
01 I M. EMERGENCY WASTE TREATMENT	02 DATE	03 AGENCY
04 DESCRIPTION	02 07.12	
01 O N. CUTOFF WALLS	02 DATE	03 AGENCY
04 DESCRIPTION		·
01 D O. EMERGENCY DIKING/SURFACE WATER DIVERSION	O2 DATE -	O3 AGENCY
04 DESCRIPTION		
O1 CLB CHIOSE TREACHES/SHIMB	02 DATE	03 AGENCY
01 (1) P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	OL UNIC	
01 [] Q. SUBSURFACE CUTOFF WALL	02 DATE	O3 AGENCY
04 DESCRIPTION		
		*

SEPA

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

l.	IDEN.	TIFICATION
31	STATE	02 SITE NUMBER
	MY	02 SITE NUMBER D180535049

ST RESPONSE ACTIVITIES (CONTINUED NONE			•
D1 D R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 (S. CAPPING/COVERING 04 DESCRIPTION	O2 DATE	C3 AGENOY	
01 D T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	C3 AGENOY	
01 D U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 D X FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 Y. LEACHATE TREATMENT	02 DATE	03 AGENCY	
01 D.Z. AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY	-
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY	

III.	S	DURCES	OF	INFORM	ATION	(Cité specific ref	erences, e.g.,	SIBLE (FES. SET	coie enelysus.	report

NCHD, 1982 NUS Corporation, 1985 @ EPA

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

I. IDENT	IFICATION
O1 STATE	02 SITE NUMBER D98053524

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION () YES () NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cre specific references, e.g., sisse (fee, sample analysis, reports)

Charley Hudson, NYSDOH, 1985 NCHD, 1982 NUS Corp, 1985

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. Insufficient information is presently available to complete an HRS score for this site.

PHASE II WORK PLAN

Objectives

The objectives of the Phase II activities are:

- o To collect additional field data necessary to identify the occurrence and extent of contamination and to determine if any imminent health hazard exists.
- o To perform a conceptual evaluation of remedial alternatives and estimate budgetary costs for the most likely alternative.
- o To prepare a site investigation report including final HRS score.

TABLE VI-1
ASSESSMENT OF DATA ADEQUACY

HRS Data Requirement	Comments on Data
Observed Release	
Groundwater	Inadequate to score an observed release
Surface Water	Inadequate to score an observed release
Air	Adequate for HRS score, no observed release
Route Characteristics	
Groundwater	Inadequate for HRS score
Surface Water	Adequate for HRS score
Air	Adequate for HRS score
Containment	Adequate for HRS score
Waste Characteristics	Inadequate for HRS score
Targets	Adequate for HRS score
Observed Incident	Adequate for HRS score
Accessibility	Adequate for HRS score

The additional field data required to complete this investigation are described as follows:

Geophysical Survey - A geophysical study consisting of electrical resistivity and electromagnetic surveys is recommended. The electrical resistivity survey will be performed at various locations within and beyond the perimeter of the site to investigate site stratigraphy, delineate significant discontinuities and assess the presence and location of contaminant plumes. An electromagnetic survey will be conducted as necessary on a grid system to aid in delineating the limits of the contaminated area.

Groundwater — A groundwater monitoring system consisting of 3 wells is recommended. Borings will be drilled to a maximum depth of 80 feet; soil samples will be taken every 5 feet or more frequently if a change in soil lithology is encountered. The wells will be placed in the aquifer of concern and constructed of 2" PVC pipe. The groundwater samples will be analyzed for HSL organics and metals. Subsurface soil samples will be analyzed for HSL organics and metals. In addition, sieve and hydrometer analyses will be performed on representative samples.

Surface Water and Sediment - No further studies required.

Air - An air monitoring survey with an HNu meter is recommended to test the air quality above the site.

TASK DESCRIPTION

The proposed Phase II tasks are described in Table VI-2.

COST ESTIMATE

The estimated man-hours required for the Phase II project are presented in Table VI-3 and the estimated project costs are presented by task in Table VI-4.

HEALTH AND SAFETY PLAN

The Health and Safety Plan will be submitted as a separate document.

QUALITY ASSURANCE PLAN

The Quality Assurance Plan will be submitted as a separate document.

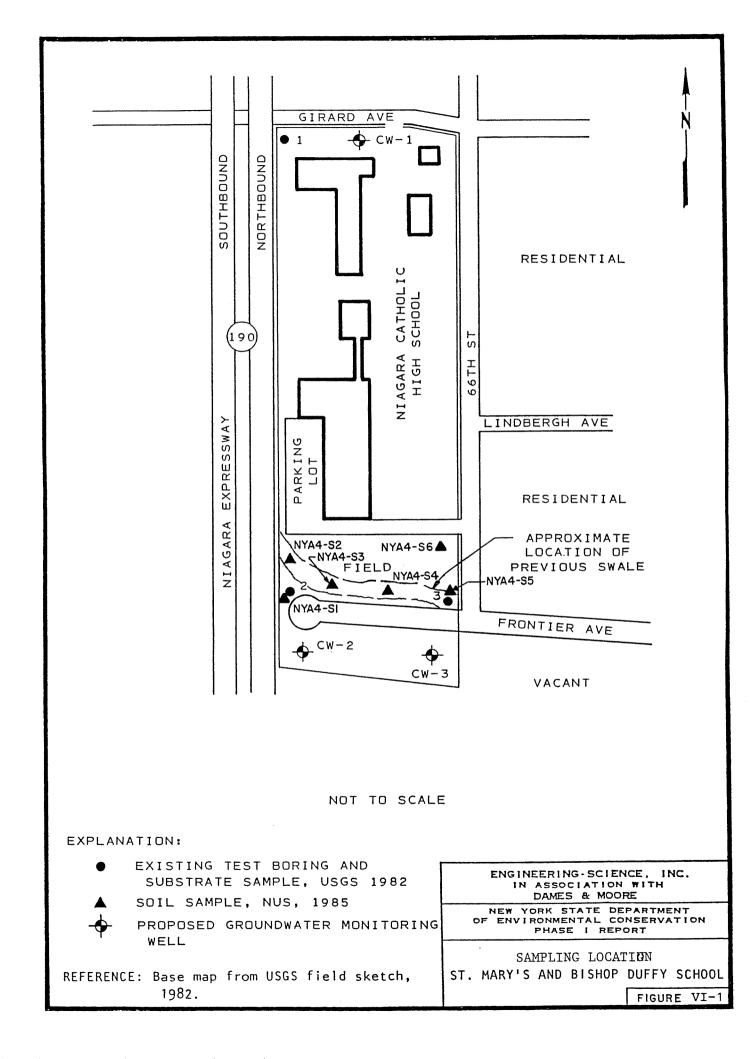


TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

	Task	Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	Conduct resistivity and electromagnetic surveys.
II-C	Conduct Boring/Install Monitoring Wells	Install 1 upgradient and 2 downgradient wells. The wells are to be located at a depth of approximately 80 feet and constructed of 2" PVC pipe.
II-D	Construct Test Pits/Auger Holes	No further construction of test pits/ auger holes necessary.
II-E	Perform Sampling & Analysis	
	Soil samples from borings	Soil samples collected at 5' intervals during drilling and at changes in subsurface lithologies. Perform one grain size analysis and permeability test per subsurface lithology change.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from borings Sediment samples from surface water	No further studies necessary. No further studies necessary.
	Groundwater samples	3 groundwater samples are to be collected and analyzed for HSL organics and metals.

TABLE VI-2, Continued

PHASE II WORK PLAN - TASK DESCRIPTION

	Task	Description of Task
	Surface water samples	No further studies necessary.
	Air samples	Using the HNu, determine the presence of organics.
	Waste samples	No further sampling necessary.
II-F	Calculate Final HRS	Based on the field data collected in Tasks II-B - II-E, complete the HRS form.
II-G	Conduct Site Assessment	Prepare final report containing Phase I report, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.
II-H	Project Management	Project coordination, administration and reporting.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PHASE II INVESTIGATION COST ESTIMATE

TABLE VI-3 SITE ID #: 932087

				_	HARLE VITO	ē						
SILE NAME: BI. MAKI 5 % FISHUT CONSULTANT: ENGINEERING SCIENCE	NCE		ESTIMATED	HOURS	OF DIRECT		TECHNICAL LABOR	(DTL)			TOTAL	Me to ben't reads bear decay from a city of a city was
TASK DESCRIPTION	Ţ	L2	L3	L4	ב	97	L.7	L8	L.9	L.10	HOLFE	COST
II-A UFDATE WORKFLAN	4	24	4		4	7.2	N N	40	5.4	S. S.	892	3801.20
II-B CONDUCT GEOPHYSICAL STUDIES	Ŋ	4				40		08	10	10	146	1913.60
II-C CONDUCT BORING/INSTALL	4	8				08		Φ	10	역	727	1838,40
MONITORING WELLS II-D CONSTRUCT TEST PITS/											0	00.00
AUGER HOLES II-E SAMPLING AND ANALYSIS											0	00.00
Soil samples from borings		-				œ		œ			7.1	242.00
Soil samples from											0	00.00
surface soils Soil samples from auger										٠	0	00"0
holes/test pits Sediment samples from											0	00.00
surface water Groundwater samples		C4				24		24			00	700,80
Surface water samples											0	00*0
Air samples											0	00.0
Waste samples											0	00.0
II-F CALCULATE FINAL HRS SCORE	œ	16	4	N	8	48	40	16	Œ	œ	158	2528.20
II-G CONDUCT SITE ASSESSMENT	N	40	4		8	80	40	Œ	09	100	342	4570,80
II-H FROJECT MANAGEMENT	4	30	4		16					48	. 102	1662.40
TOTAL HOURS	24	125	16	14	36	es es es	112	184	112	230		
HOURLY RATE \$	33.40	25.20	22.00	19.70	17.00	15.10	13.30	12.00	09.6	09.8		
DIRECT LABOR COSTS #	801.60	3150.00	352.00	275.80	612.00	5315.20	1489.60	2208.00	1075.20 1	1978.00		
5/30/86								,	TOTAL DTL COSTS INDIRECT LABOR COSTS	. COSTS LABOR C	0573	17257.40 20363.73
								(Applier	TOTAL LABOR COSTS PROFIT (15%)	OR COST		37621.13 5643.17
								•				Car W 7 Carlo

43264.30

TOTAL PRICE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL COMSERVATION PHASE II INVESTIGATION COST ESTIMATE

SITE ID #: 932087 SITE NAME: ST. MARY'S & BISHOP DUFFY	FY SCHO		TABLE VI~4	A.			
CUNSUCIANI: ENGINEERING SCIENCE TASK DESCRIPTION	DIRECT HOURS	LABOR COST(\$)	SUBCONTR. COSTS #	SUPF.& EQUIF.	MISC.	TRAVEL & PER DIEM \$	TOTALS \$
II-A UPDATE WORKFLAN	268	3801.20		237	210	260	4508,20
II-B CONDUCT GEOPHYSICAL STUDIES	146	1913.60		940	09	.096	3873,60
II-C CONDUCT BORING/INSTALL	122	1838.40	16050	026	75	820	19755.40
MONITORING WELLS II-D CONSTRUCT TEST PITS/	0	00.00					00.0
AUGER HOLES II-E SAMPLING AND ANALYSIS	0	00.00	16200	8 N N	40	548	17016.00
Soil samples from borings	17	242.00					242.00
Soil samples from surface	0	0.00					00.0
soils Soil samples from test pits/	0	00.00					0.00
auger holes Sediment samples from	0	00.00					00.0
surface water Groundwater samples	50	700.80					700.80
Surface water samples	0	0.00					00.0
Air samples	0	0.00					00°0
Waste samples	0	0.00					00.0
II-F CALCULATE FINAL HRS SCORE	158	2528.20		Ö	75		2653,20
II-G CONDUCT SITE ASSESSMENT	342	4570.80		750	1000	165	6485,80
II-H PROJECT MANAGEMENT	102	1662.40		1000	40		2702,40
SUBTOTAL	1205	17257.40	32250.00	4175.00	1500.00	2753.00	
INDIRECT LABUR (1187 DTL) PROFIT (%) PROFIT (*)		50363.73 15 5643.17	5 1612.50	5 208.75	5 22.00	0	- 60 - 64 - 65 - 65 - 65 - 65 - 65 - 65 - 65
TOTAL COSTS (\$)	mand mand when brief brief beid bent band beide seine et	43264.30	33862.50	4383.75	1575.00	2753.00	85838.55

APPENDIX A

SOURCES CONTACTED DOCUMENTATION

SOURCES CONTACTED SUMMARY SHEET ST. MARY'S AND BISHOP DUFFY SCHOOL SITE

Person Contacted/ Location	Telephone	Date	Information Collected
Glenn Hardcastle USEPA Headquarters, Superfund Office 401 M Street, SW Washington, DC 20469	202–382–5617	12/19/85	Reviewed list of sites to determine if additional information was available.
John Anderson USEPA-Region II EPA Information Offi 345 3rd St. Suite 530 Niagara Falls, NY 143		01-06-86	General information from site files.
Charley Hudson NYSDEC - Div. of Envir. Enforcement Empire State Plaza Corning Tower Albany, NY 12237	518-474-2121	12-30-85	Draft Reports
Kevin Walters NYSDEC-Div. of Envir. Enforcement 50 Wolf Road Albany, NY 12233	518-457-4346	12-30-85	Reviewed list of sites to determine legal actions taken.
Walt Demick NYSDEC-Div. of Solid & Haz. Waste 50 Wolf Road Albany, NY 12233	518-457-0639		General information from site files.
Bob Hannaford NYSDEC-Div. of Water SPDES Files 50 Wolf Road Albany, NY 12233	518-457-6716		Reviewed SPDES files for permit numbers and conditions.

SOURCES CONTACTED SUMMARY SHEET (Continued) ST. MARY'S AND BISHOP DUFFY SCHOOL SITE

Person Contacted/ Location	Telephone	Date	Information Collected
Val Washington NYS-Dept. of Law, Attorney General's Office Empire State Plaza Justice Building Albany, NY 12233	518-473-3105		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.
Jeff T. Lacey Peter Burke Glenn Bailey NYSDEC-Div. of Environmental Enforcement 600 Delaware Ave. Buffalo, NY 14202	716-847-4582	12-27-85	Reviewed list of sites to determine legal actions taken.
Peter Buechi Ahmad Tayyebi Bob Mitrey Larry Clare NYS-Region 9 Division of Solid & Hazardous Waste 600 Delaware Ave. Buffalo, NY 14202	716-847-4585	11-14-85	Collected information from site files.
Lou Violanti NYS-Regional Dept. of Health 584 Delaware Ave. Buffalo, NY 14202	716-847-4500	11-15-85	Sent site information to Peter Buechi.
Henry Sondonato Robert Armbrust Dick Dybowski Larry Stiller Jackie DiPronio NYSDEC-Region 9 Div. of Air 600 Delaware Ave. Buffalo, NY 14202	716-847-4565	11-15-85	Air emissions permits for sites.

SOURCES CONTACTED SUMMARY SHEET (Continued) ST. MARY'S AND BISHOP DUFFY SCHOOL SITE

Done Control	***************************************		
Person Contacted/ Location	Telephone	Date	Information Collected
Mike Wilkenson Jim Sneider NYSDEC-Region 9 Div. of Fisheries and Wildlife 600 Delaware Ave. Buffalo, NY 14202	716-847-4600	11–14–85	Endangered species information.
Mike McMurry Gordon Batcheller NYSDEC-Region 9 Div. of Regulatory Affairs 600 Delaware Avenue Buffalo, NY 14202	716-847-4551	01-08-86	Wetlands, critical habitat.
Marion Pfohl Spencer Schofield Erie and Niagara County Regional Planning Board 3103 Sheraton Dr. Amherst, NY 14226	716-837-2035	12-20-85	Census data, general site information.
Mike Hopkins Niagara County - Dept. of Health Tenth and East Falls S Niagara Falls, NY 1430	St.	11-20-85 12-12-85	Collected information from Niagara County site file. Obtained additional information through interview.
Joanne Elsworth Niagara County - Envir. Mgmt. Div. 59 Park Avenue Lock Port, NY 14094	716-439-6033	12-20-85	Census data, general information.
Monsignor Cronin Diocese of Buffalo 100 S. Elmwood Avenue Buffalo, NY 14202	716-847-6700	4–8–86	Site history.
Moira O'Dea Niagara Catholic High School 520 66th Street Niagara Falls, NY 1430	716–283–8771 04	4-21-86	Site visit.

GENERAL REFERENCES*

- 19. Cronin, P. T., Rev., Diocese of Buffalo. Letter to ES, 4/17/86
- 20. Kennedy & Stoeck. Letter to S. Lubick, 2/7/85.
- 21. USGS, 1984. U.S. Geological Survey Professional Paper 1270.
- $\mbox{\ensuremath{^{\star}}}$ Does not include "HRS References" which are provided directly after the HRS documentation records in Section V.



DIOCESE OF BUFFALO DEPARTMENT OF CATHOLIC EDUCATION 100 South Elmwood Avenue, Buffato, New York 14202 • (716) 847-6700

REV. MSGR. PAUL T. CRONIN
Superintendent of
Catholic Education

April 17, 1986

Ms. Cathy Bosma E-S Engineering Science 2 Flint Hill, 10521 Rosehaven Street Fairfax, Virginia 22030-2899

Dear Miss Bosma:

I tried to contact you by phone today only to find you were in Cleveland for the week.

Perhaps you have verbally received the message that you have permission to do the Walk Through Inspection at Niagara Catholic High School in Niagara Falls, New York, on Wednesday, April 23, 1986 at 11:00 A.M.

-283-8771

. Miss Moira O'Dea, the Principal, has been notified that you will be coming.

Regarding your request for information concerning ownership, I am enclosing a copy of our attorney's February 7, 1985 letter explaining the ownership of the property.

With regard to all other data, I would suggest you contact the Department of Environmental Quality, Mr. Peter Buechi, Sanitary Engineer.

Sincerely,

Rev. Msgr. Paul T. Cronin Superintendent of Catholic Education

PTC:ju

Enclosure

CC: Miss Moira A. O'Dea

REF,

GROUND WATER IN THE NIAGARA FALLS AREA, NEW YORK

With Emphasis on the Water-Bearing Characteristics of the Bedrock

BY
RICHARD H. JOHNSTON
GEOLOGIST
U.S. GEOLOGICAL SURVEY

STATE OF NEW YORK

CONSERVATION DEPARTMENT

WATER RESOURCES COMMISSION



BULLETIN GW-53

46,732

... GEOLOGY OF THE NIAGARA FALLS AREA

The geology of the Niagara Falls area is well understood both because of its simplicity and because of the excellent exposures of bedrock along the Niagara River gorge and the Niagara escarpment. The discussion of geology in this report is limited to those features which directly affect the water-bearing characteristics of the various geologic units. The reader desiring additional geologic information is referred to the reports by Grabau (1901) and Kindle and Taylor (1913).

A thin cover of unconsolidated deposits overlies the bedrock throughout most of the Niagara Falls area. These unconsolidated deposits were laid down during the closing phases of the great ice age (Pleistocene Epoch). The deposits consist of three types: (1) glacial till (locally called "stony hardpan") which is an unsorted mixture of boulders, clay, and sand which was deposited by the ice sheet that covered the area about 10,000 years ago; (2) clay, silt, and fine sand which was deposited in lakes that formed during the melting of the ice sheet; and (3) sand and gravel which was either deposited by streams carrying melt water from the ice sheet or was produced by re-working of till and other deposits along the shore of glacial Lake Iroquois (predecessor of the present Lake Ontario). The glacial till directly overlies the bedrock in most places. The lake-laid clay, silt, and sand overlie the till and are the materials found at the surface throughout a large part of the area. Sand and gravel occurs as isolated deposits and also composes a narrow 'beach ridge' that extends in an east-west direction across the area (fig. 2 and pl. 3).

The bedrock in the Niagara Falls area consists of nearly flat-lying (horizontal) sedimentary rocks. The distinguishing feature of sedimentary rocks is their natural layering. Each layer is termed a bed and is separated from the bed above and below by a plane of separation called a bedding plane. The occurrence of sedimentary rocks in the Niagara Falls area can be described as "layer-cake geology" inasmuch as the various rock units crop out in "layer-cake" fashion at the brink of Niagara Falls as shown in figure 5. These units consist of dolomite, shale, limestone, and sandstone. Although the bedrock appears to lie horizontal to the eye, the beds actually dip to the south at about 30 feet per mile. The outcrop pattern produced by erosion of this simple geological structure is shown in plate 3. It can be seen that the area south of the Niagara escarpment is directly underlain by the Lockport Dolomite whereas the area north of the escarpment is underlain by the Queenston Shale. The intervening rocks of the Clinton and Albion Groups (fig. 5) crop out only along the escarpment and in the gorge of the Niagara River.

The bedrock surface is approximately parallel to the land surface throughout most of the Niagara Falls area. South of the Niagara escarpment, the top of the rock lies 5 to 15 feet below land surface. Local exceptions to this occur beneath isolated hills and ridges south of Medina where the depth to bedrock is about 30 to 40 feet. On the lake plain north of the escarpment, depth to rock varies from 5 to 90 feet, but is commonly at depths of 30 to 40 feet. The few irregularities in the surface of the bedrock appear to be due to minor features shaped by glacial or preglacial erosion. No major drainage channels of preglacial origin are known in the area.

because studies made on the Lockport may contribute to a better understanding of the occurrence of ground water in bedrock generally. The Queenston Shale and Clinton and Albion Groups are poor aquifers in comparison to the Lockport Dolomite, and less is known of their water-bearing characteristics.

LOCKPORT DOLOMITE

Character and extent

The Lockport Dolomite is the uppermost bedrock formation in about onethird of the Niagara Falls area. Its outcrop area extends from the Niagara escarpment on the north to the southern boundary of the area covered by this report except in two small areas that may be underlain by the Salina Group. (See plate 3.) One of these areas is in the vicinity of the hamlet of Nashville and the other is in the extreme southeast corner. Because of a lack of rock outcrops in these areas the position of the contact between the Lockport and the Salina cannot be accurately determined. However, the Salina Group is not discussed as a separate water-bearing unit in this report because at most only a few feet of it occurs in the area. Continuous exposures of the Lockport are found along the gorge of the Niagara River and along the Niagara escarpment. The formation is about 150 feet thick in the southern part of the area but has been eroded to a thickness of only about 20 feet along the escarpment (pl. 2). The excellent exposures at Niagara Falls (fig. 5), where the Lockport forms the lip of the Falls, are shown in many geology textbooks as a classic example of flat-lying sedimentary rocks. Throughout most of the remainder of the area, which is relatively flat, the Lockport is concealed by a thin cover of glacial deposits.

As its name implies, the Lockport Dolomite consists mainly of dolomite; however, the formation also includes thin beds of limestone and shaly dolomite near the base. The Lockport consists of five lithologic types which, from top to bottom, are:

- (a) brownish-gray, coarse- to medium-grained dolomite, locally saccharoidal with thin intervals of curved bedding (algal structures).
- (b) gray to dark-gray, fine-grained dolomite, containing abundant carbonaceous partings.
- (c) tannish-gray, fine-grained dolomite.
- (d) light-gray, coarse-grained limestone containing abundant crinoid fragments (Gasport Limestone Member).
- (e) light-gray shaly dolomite, laminated in part (DeCew Limestone Member of Williams, 1919).

Fisher (1960) divides the Lockport Dolomite into six units based on fossils as well as rock types. An excellent discussion of the stratigraphy of the

Lockport, including measured sections in the Niagara Falls area, is given in the recent thesis by Zenger 1/.

The detailed breakdowns by Fisher and Zenger, although helpful for geologic mapping and correlating the Lockport with rocks of similar age elsewhere, are not necessary in descriptions of the water-bearing properties of the formation. For this purpose the Lockport is subdivided as follows (figure 5 and table 1): (1) upper and middle parts of the Lockport, and (2) lower part of the Lockport, including the Gasport Limestone Member and DeCew Limestone Member of Williams (1919).

Most of the beds in the Lockport are described as either "thick" (I foot to 3 feet) or "thin" (I inch to I foot). However, massive beds up to eight feet thick and very thin beds (I/4 to I inch) occur within the formation. The bedding is generally straight, but curved bedding occurs in some places in the upper part of the formation. The curved bedding is caused by domeshaped algal structures called "stromatolites" (Zenger, p. 140). These reefs (bioherms), which occur as lens-like masses up to 50 feet across and 10 to 20 feet thick, contain no bedding.

Gypsum (calcium sulfate) is common in the Lockport, occurring chiefly as small irregularly shaped masses (commonly 1/2 to 5 inches in diameter) and as selenite. Sulfide minerals, particularly sphalerite (zinc sulfide), galena (lead sulfide), and pyrite (iron sulfide) occur as particles disseminated throughout the formation.

Water-bearing openings

Types.--Ground-water occurs in the Lockport Dolomite in three types of openings: (1) bedding joints which constitute at least seven important water-bearing zones, (2) vertical joints, and (3) small cavities from which gypsum has been dissolved. Of these, the bedding joints are the most important and transmit nearly all the water moving through the formation. The three types of openings were observed in the dewatered excavations for the conduits of the Niagara Power Project. (See the description of the power project in the introduction and the location of the conduits in figure 3.) The rock faces along the four-mile length of the conduits provided an unequaled opportunity to study water-bearing openings in the entire stratigraphic thickness of the Lockport and to observe the lateral extent of these openings for a few thousand feet. At the time the observations were made (July - August 1960), approximately one-third of the length of the conduits was available for inspection by the writer.

Zenger, D. H., 1962, Stratigraphy of the Lockport Formation (Silurian) in New York State: Unpublished doctoral thesis, Cornell University.

February 7, 1985

Honorable John LaFalce 2419 Rayborn Building Washington, D.C. 20515

Attn: Ms. Susan Lubick

RE: Niagara Catholic High School

Dear Susan:

Per our telephone conversation of today enclosed please find a copy of a letter dated February 6, 1985 which I wrote to Mr. Peter Buechi, Associate Sanitary Engineer, NYS Department of Environmental Conservation, together with a copy of Mr. Buechi's letter of October 12, 1984 with the attached analytical results from the sampling program.

As I indicated the Diocese of Buffalo is the owner of the Niagara Catholic site.

The majority of the property was acquired by the Diocese from the U.S. Government War Assets Administration in two parcels, one in January of 1947 which included a then school building in the Pine Acres F.P.H.A. Development, and the second in February of 1948 which included the administration building and commissary of that same subdivision.

The original Duffy High School was opened in September 1946 in a parochial school and transferred in January of 1947 to the existing school building on the property.

If you need anything further, please don't hesitate to call.

Very truly yours, KENNEDY & SOOECKL

Joseph A. Stoeck1

APPENDIX B

PROPOSED UPDATED NYS REGISTRY

RIM YORK SHALL COLLEG YOU HAVE OUT OF MASTE DIVISHARA INACTIVE MADIANEDRU MASTE DISPOUAL SITE REPORT

CLASSIFICATION CODE: 2a REGION: 9 SITE CODE: 932087

NAME OF SITE :

St. Mary's and Bishop Duffy Schools

STREET ADDRESS: 66th Street

TOWN/CITY:

City of Niagara Falls COUNTY: Niagara

ZIP:14304

SITE TYPE: Open Dump-X Structure- Lagoon- Landfill- Treatment Pond-ESTIMATED SIZE: Two(2) Acres

SITE OWNER/OPERATOR INFORMATION:

CURRENT OWNER NAME....: Niagara Catholic High School

CURRENT OWNER ADDRESS.: 520 66th Street, Niagara Falls, NY 14304

OWNER(S) DURING USE...: Diocese of Buffalo

OFERATOR DURING USE...: Unknown OFERATOR ADDRESS..... Unknown

FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From Unknown

Tn 1950's

SITE DESCRIPTION:

The site was reportedly used by Hooker Chemical Company to dispose of fly ash during the 1950's. There are unsubstantiated reports of drums buried onsite. Radioactive slag was used as fill for the parking lot behind the school, but has been determined to be safe by local health officials as long as it remains covered.

Soils samples were taken in August 1982 and May 1983 by USGS. Both priority pollutants and non-priority pollutants were detected but were below quantifiable limits. NUS collected soil samples in June 1985 and found the soil in the field contaminated with polyaromatic hydrocarbons,

HAZARDOUS WASTE DISPOSED: Confirmed- Suspected _____IYEE_____

> Radioactive Slag Fly ash

Unknown Unknown

A CONTRACTOR OF THE CONTRACT O

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

CONTRAVENTION OF STANDARDS!

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION: None

TYFE..: State- Federal-

STATUS: In Progress- Completed-

REMEDIAL ACTION:

Froposed- Under Design- In Frogress- Completed-NATURE OF ACTION:

GEOTECHNICAL INFORMATION:

SOIL TYPE: Topsoil and fill over clay layers

GROUNDWATER DEFTH: Unknown

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

Soil results indicate PAHs, (benze (a) pyrene) levels in excess of background levels.

No groundwater samples exist for the site.

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.: E.J. Feron, Jr. NAME.: Ronald Tramontano

TITLE: Sr. San. Engineer TITLE: Bur. Toxic Substances Assess.

NAME.: Peter Buechi NAME.:

TITLE: Asst. San. Engineer TITLE:

DATE.: 01/24/86 DATE.: 01/24/86

Fage 9 - 310