53538 ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PRELIMINARY SITE ASSESSMENT

NIAGARA MOHAWK FIRE TRAINING SCHOOL OSWEGO (C)

SITE NO. 738030 OSWEGO (C)



Prepared for:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 Wolf Road, Albany, New York

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OCTOBER 1991

PRELIMINARY SITE ASSESSMENT

TASK 1: DATA RECORDS SEARCH AND ASSESSMENT

NIAGARA MOHAWK FIRE TRAINING SCHOOL SITE NO. 738030 OSWEGO (C)/OSWEGO (C)

OCTOBER 1991

Performed Under NYSDEC CONTRACT NO. D002340 NYSDEC WORK ASSIGNMENT NO. D002340-3

STATE OF NEW FOR

URS CONSULTANTS, INC.

By

For

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

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1. EXECUTIVE SUMMARY

The Niagara Mohawk Fire Training School, Site No. 738030, is an active site located on East Seneca Street in the City of Oswego, Oswego County (Figures 1 & 2). The 4-5 acre site is currently classified as 2A Site by the NYSDEC. The site is used by Niagara Mohawk to train personnel in techniques for fighting fires involving Niagara Mohawk Electrical Systems.

Part of the training done at the site involves simulating actual fire conditions. Oil from these simulations splashes, leaks, and spills onto the surrounding ground while the fires are being extinguished. Some of the oil used prior to 1977 contained levels of PCBs in excess of 50 ppm, sufficient for classification as a hazardous waste. Sampling done in 1978 detected PCBs in storage tanks, soil, groundwater, surface water, and sediments around the site. Sampling in 1985 indicated the presence of dioxins in soil at the site. Steps have been taken to alleviate the spread of contamination from the site including the installation of a gravity moat collection and treatment system around the site in 1977.

Threats to groundwater and surface water have been minimized by the installation of the collection system which has greatly reduced the potential for contaminant migration. Most previous sampling was done thirteen years ago in a PCB Characterization Program performed soon after the moat was installed but before the present water treatment system was in place. Additional sampling to determine the extent of any contaminant plume emanating from the site needs to be performed.

A site inspection was conducted on November 13, 1990 by Donald McCall and Robert Kreuzer, both of URS Consultants, Inc, along with James Morgan, Dan Kehoe, Gerald Shaw, and John Lynk, all of Niagara Mohawk. A tour of the site was made and photographs of significant features were taken as presented in Figure 3. During the site inspection, the site

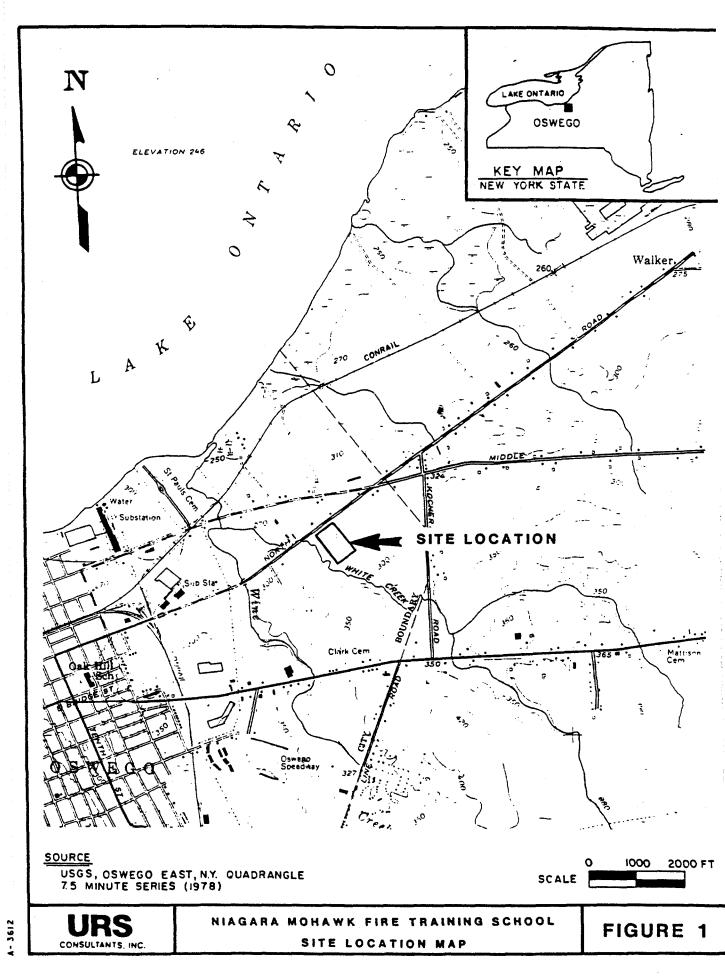
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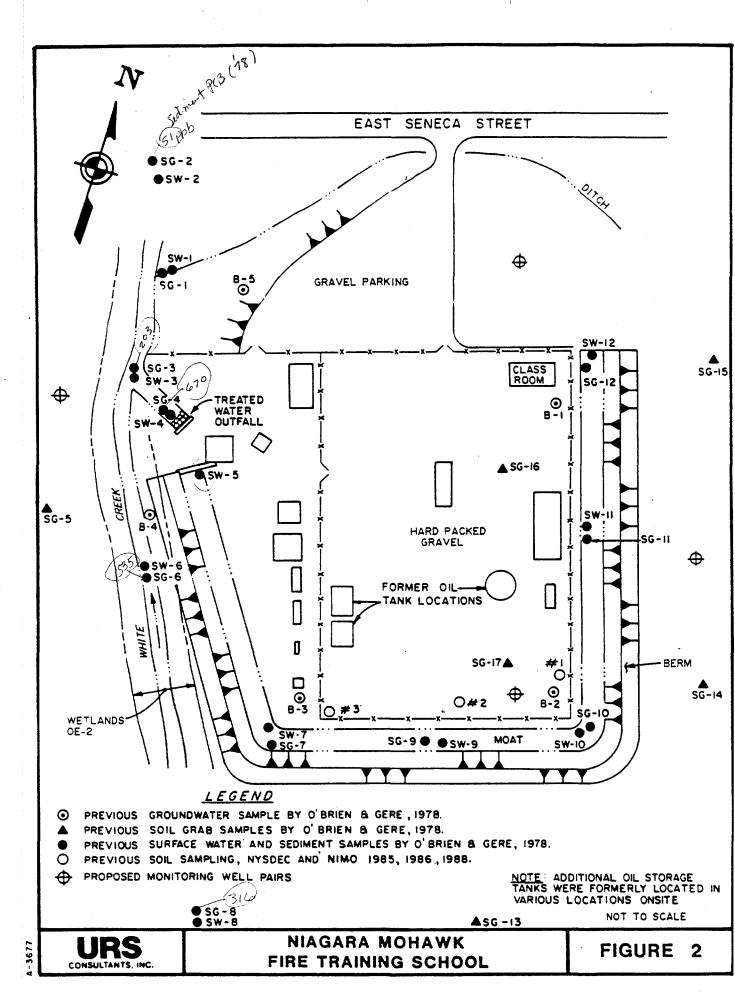
appeared to be well maintained. Oil staining was observed around some of the training equipment at the rear of the site.

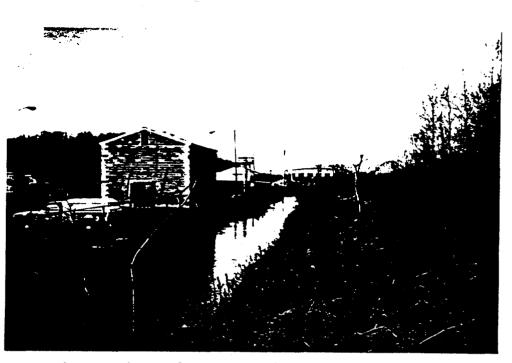
Based upon analytical results of soil which show contamination by PCB's in excess of 50 ppm, there is evidence of the presence of hazardous waste at this site. Additionally, samples of both surface water and groundwater at the site, taken in 1978, contravene the current water quality standards for PCBs, thus meeting the criteria for a significant threat. Therefore, URS recommends that the NYSDEC reclassify this site to a Class 2 site. A Remedial Investigation should be performed to further assess the significant threat to the public and the environment and determine the full extent of contamination.

 $S_{M} = 17.31 (S_{GN} = 25.35, S_{SW} = 15.94, S_{A} = 0)$ $S_{FE} = 0$ $S_{DC} = 16.67$

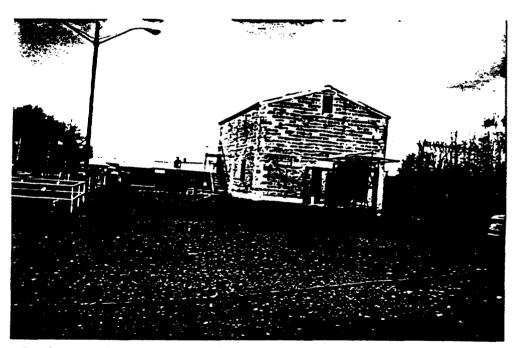
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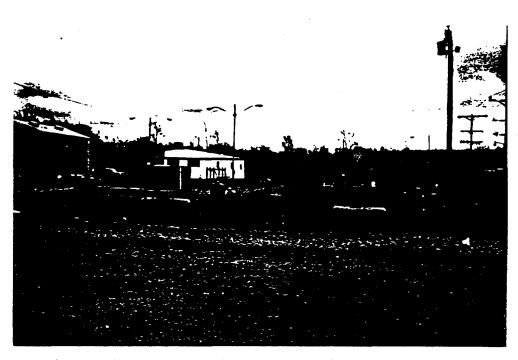
From the east berm of the moat, facing north along the moat and the training grounds.



Facing north in the training grounds. The gravel surrounding the transformer in the foreground shows oil contamination.

FIGURE 3-SITE PHOTOGRAPHS

Niagara Mohawk Fire Training School



Facing south into the training grounds from the parking area. The entire area is covered with hard packed gravel.

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From the western wall of the berm, facing the southeast corner of the training grounds and moat. Oil contamination is visible in both the soil and the water in the moat.

FIGURE 3-SITE PHOTOGRAPHS

Niagara Mohawk Fire Training School

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5. REGION

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

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

Oswego

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES 2. SITE NO. 3: XTONAS City 1. SITE NAME Niagara Mohawk 4. COUNTY Oswego 738030 Fire Training School 6. CLASSIFICATION 7. ACTIVITY Delist Reclassify - Modify Current <u>2A</u>/Proposed 8a. DESCRIBE LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

From the City of Oswego, take Route 104 East to East Fourteenth Street. Turn left and go 1/4 mile. Turn right on East Seneca Street. Take East Seneca approximately 1/2 mile. The Niagara Mohawk Fire training school is located on the right hand side of the street.

b	Quadrangle	Oswego	East	c. Site	Latitude	430	28'	<u>_23 Longitude 7</u>	60 <u>28</u> '	 d. Tax Mar	Number	110.84-	$\frac{1-1}{2}$.
9a	BRIEFLY DESC	RIBE THE	SITE (Attach	site pla	n showin	g dispo	sal/sar	mpling locations)					

The site is a fire training school used by Niagara Mohawk to train personnel in fighting fires involving Niagara Mohawk electrical equipment. The site is covered with hard packed gravel and is surrounded by a moat used to collect surface and subsurface runoff. White Creek flows adjacent to the site.

b. Area <u>4-5</u> acres c. EPA ID Number <u>NYD986870996</u> d. PA/SI Yes X No							
e. Completed: Phase I Phase II PSA Sampling							
10. BRIEFLY LIST THE TYPE AND QUANTITY OF THE HAZARDOUS WASTE AND THE DATES THAT IT WAS DISPOSED OF AT THIS SITE							
Prior to 1977, PCB contaminated oil was used in fire simulations where it would spill and splash onto the surrounding ground. The total quantity of oil spilled is unknown.							
11a SUMMARIZED SAMPLING DATA ATTACHED							
E Air E Groundwater E Surface water E Soli E Waste E Fridx E TOLF.							
Both groundwater and surface water contained PCBs in excess of the limits. Soil possibly contains PCBs and dioxin in excess of the limits. Groundwater PCBs 528 ppb; Surface Water PCB 0.4 ppb; Soil PCB 153,000 ppb Dioxins & Dibenzofurans 27 ppb.							
12 SITE IMPACT DATA							
a Nearest surface water: Distance 50 ft. Direction West Classification D							
D Nearest groundwater: Depth 0.5-7 ft. Flow Direction <u>North</u> Sole Source Primary Principal							
c Nearest water supply Distance 3000 ft. Direction <u>North</u> Active Yunknowno d Nearest building: Distance 500 ft. Direction <u>North</u> Use <u>unknown</u>							
e Grops or livestock on site? Yes XNo j Within a State Economic Development Zone? Yes X No							
I Exposed hazardous waste? Yes X No k For Class 2a: Code Health Model Score							
Controlled site access? X Yes No I. For Class 2. Priority Category							
h Documented fish or wildlife mortality? Yes XNO m HRS Score Sm=17.30, Sfe=0, Sdc= 16.67							
Impaction special status fish or wildlife resource? Yes 💭 No in Significant Threat 🖾 Yes No 🗔 Unknown							
13. SITE OWNER'S NAME 14. ADDRESS 15. TELEPHONE NUMBER							
Niagara Mohawk Power Corp. 300 Erie Boulevard West, Syracuse 815 9474-1511							
16 PREPARER							
Donald A. McCall, Chemical Engineer URS Consultants, Inc.							
4-4-91 Frinced A The Call							
Date Signature							

Date

Signature

2. PURPOSE

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Task 1, Data Records Search and Assessment, of the Preliminary Site Assessment (PSA) was conducted at the Niagara Mohawk Fire Training Fire School, Site No. 738030, in the City of Oswego, Oswego County, New York by URS Consultants under contract to the New York State Department of Environmental Conservation (NYSDEC) Superfund Standby Contract (Contract No. D002340, Work Assignment No. D002340-3).

The Niagara Mohawk Fire Training School site (Figure 1) is a suspected inactive hazardous waste site recognized by NYSDEC. This site is currently classified as Class 2a because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment. The purpose of a PSA is to provide the information for NYSDEC to reclassify the site according to the following classifications:

Class 2- Hazardous waste sites presenting a significant threat to the public health or the environment.

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

Delist-Sites where hazardous waste disposal can not be documented.

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3. SCOPE OF WORK

The Preliminary Site Assessment, Task I, investigation at the Niagara Mohawk Fire Training School site comprised several interrelated tasks as follows:

File Reviews

An extensive data search was conducted, utilizing both site-specific and regional sources. This information was compiled from existing data as well as new sources. These include:

- Visit to the NYSDEC office in Albany to conduct a file search
 June 14, 1990. (518) 457-3157
- Visit to the NYSDEC Region 7 office to conduct a file search,
 November 13, 1990. (315) 426-7531
- Phone Conversation with the Oswego County Health Department (Evan Walsh) regarding file information, February 28, 1991 (Ref. 1). (315) 469-3557
- Phone conversation with the New York State Health Department (Ronald Heerkens) regarding file information, February 28, 1991 (Ref. 2). (315) 426-7612

Site Inspection

A site inspection and interview was conducted on November 13, 1990, between 11:00 A.M. and 12:30 PM, in order to assess the surface characteristics of the site and vicinity, observe evidence, if any, of hazardous substances or wastes present, photograph the site, conduct preliminary air monitoring using a PID (HNu) and a radiation meter, and

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confirm information obtained from the initial data search. A USEPA Site Inspection Report (EPA Form 2070-13) and the NYSDEC "Additions/Changes to the Registry of Inactive Hazardous Waste Disposal Sites" were completed following the site inspection.

The site inspection was conducted by the following personnel:

NAME	TITLE	AFFILIATION
Robert Kreuzer	Geologist	URS Consultants, Inc.
Donald McCall	Chemical Engineer	URS Consultants, Inc.
James Morgan	Associate Sr. Environ- mental Analyst	Niagara Mohawk
Dan Kehoe	Fire Protection Specialist	Niagara Mohawk
Gerald Shaw	Utility Mechanic	Niagara Mohawk
John Lynk	Director of Fire Training	Niagara Mohawk

The morning of the site inspection, Mr. Morgan from Niagara Mohawk gave URS several documents providing information on the site, including information on the operation of the treatment systems, and some results of previous sampling events. The grounds of the fire training school were then toured, including a walk around the bermed moat which borders the site on the eastern, southern, and western sides of the property.

During the site inspection, the site was monitored with an HNu and with a radiation meter. No readings were recorded above background levels on either instrument. The area of the site used for training is completely flat, fenced, covered with hard packed gravel, and located within the moat. Many small buildings and pieces of electrical equipment used for training purposes are located within the fenced area. Oil stains were observed on the ground around several areas at the southern portion of the site where oil is burned to simulate actual fires. The site appeared to be well maintained.

4. SITE ASSESSMENT

4.1 <u>Site History</u>

The Niagara Mohawk Fire Training School (#738030) is an active site located on East Seneca Street in the City of Oswego. The site has been used since 1957 for the purpose of training personnel from Niagara Mohawk and other organizations in techniques for fighting fires involving Niagara Mohawk electrical systems. Various pieces and types of utility equipment (transformers, buildings, etc.) are located on the training school grounds. During training exercises, some of this equipment is doused with oil and set on fire to simulate actual fire conditions. As the fire is being extinguished, oil from the fire spills onto the surrounding area due to splashing, leaking, and run-off (Ref. 3).

Oil from the facility began to seep into the soils surrounding the facility, and to runoff into White Creek. Runoff was especially prevalent during heavy rains. Oil discharge to the creek was documented as early as 1974 (Ref. 3,4). In 1976, two studies were done for Niagara Mohawk to determine the extent of oil saturation in the ground. The conclusion was that oil contamination was confined to the southern half of the site. In 1977, a collection system consisting of an earth-bermed moat was constructed around three sides of the site. Collected water was then pumped through an oil/water separator and discharged to White Creek. The facility first received a SPDES (State Pollution Discharge Elimination System) Permit on October 1, 1977 (Ref. 5).

Prior to 1977, oil that contained PCBs was burned in some of the simulation fires. According to Niagara Mohawk personnel, the oil contained only residual PCBs that were in the tanker trucks used to haul oil. A PCB Characterization Program to determine the extent of contamination, was done for Niagara Mohawk at the site in 1978 (Ref. 6). Since 1977, all oil burned at the fire school has been certified to be PCB

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free (Ref. 10). In 1980, the SPDES permit was modified by the NYSDEC to include a limitation on PCB discharge to the creek. To meet the new effluent limitations, a two stage granular activated carbon absorption system was added to the existing oil/water separation system. A study was completed in December 1990 on upgrading the system to meet the most recent proposed change in PCB effluent limitations (Ref. 34).

The site previously contained a number of tanks used to store oil which was used in the fire training excercises. Niagara Mohawk removed all of the storage tanks and a 1,000 gallon waste oil storage tank in 1990. These were replaced with 2 - 8,000 gallon above ground steel tanks which have a secondary containment system (Ref. 36).

4.2 <u>Site Topography</u>

The Niagara Mohawk Fire Training School is a small site, estimated to be 4-5 acres in size. The actual training grounds of the site are flat and entirely covered with a hard-packed gravel surface. Small buildings, training stations and equipment are located on the grounds. A bermed moat, 4-5 feet deep, surrounds the training grounds on three sides. The moat is adequate, according to Niagara Mohawk, for intercepting surface water runoff from the site. Beyond the moat are woodlands and also White Creek that flows along the west side of the site.

Although the site is located within the limits of the City of Oswego, the immediate vicinity of the site is not densely populated. Two other sites on the NYS Registry of inactive hazardous waste disposal sites are located on East Seneca Street near the fire training school. These are the Pollution Abatement Services site (#738001), a class 2 site on the National Priorities List which has undergone remediation, and the East Seneca Street Dump, a class 2a site (#738027) (Ref. 7).

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4.3 <u>Site Hydrology</u>

Surface Water Hydrology

As shown in Figure 1, White Creek, a Class D stream and tributary to Wine Creek, is located adjacent to the Fire Training School site (Figure 2). There is much confusion among the various documents associated with this site as to the name of the creek adjacent to the school. Many documents refer to Wine Creek when in fact they are referring to White The moat located around the site was intended to intercept any Creek. surface runoff from the site that might contaminate White Creek. All of the water collected in the moat is treated via carbon absorption prior to being discharged to White Creek. White Creek joins Wine Creek and eventually flows into Lake Ontario, less than 1 mile north of the site. Portions of the land around Wine and White Creeks are designated as NYSDEC Freshwater Wetlands, OE-1 and OE-2. The total area of these wetlands is estimated to be more than 100 acres in size (Ref. 8).

Groundwater Hydrology

The Niagara Mohawk Fire Training School is located in the Erie-Ontario Plain physiographic province (Ref. 33). The geology of this area is characterized by unconsolidated glacial deposits overlying bedrock. These deposits consist primarily of ablation tills, lodgement tills, lacustrine deposits, and sand/gravel deposits (Ref. 9). The underlying Upper Ordovician Oswego Sandstone at the site is at a depth of 7 to 10 feet (Ref. 3, 11, 27). The overlying soil in the vicinity of the site is classified as Scriba very stony soils. Scriba soils are somewhat poorly drained, are moderately coarse textured, and have a fragipan. The layers of this soil typically consist of layers of stony loam and very stony fine sandy loam (Ref. 11). Previous borings taken at the site, and gravel. It is assumed that a portion of the groundwater in the shallow layers of the overburden at the site is intercepted by the moat that surrounds the site on three sides (Figure 2). No water level monitoring has been done to determine the effectiveness of the moat for containing groundwater. Groundwater in the bedrock is assumed to be flowing north towards Lake Ontario. The seasonal high water table in the area of the site is assumed to be 1/2 to 1 foot below ground surface (Ref. 11). Borings logs from around the site taken prior to the moat installation showed water levels 10 inches to 7 feet below ground, with most 2-3 feet below ground (Ref. 3). Regionally, the water in the upper 100 feet of the Oswego Sandstone is generally of suitable quality for drinking water (Ref. 28).

4.4 <u>Contamination Assessment</u>

On-Site Storage Tanks

Fourteen samples of oil from on-site storage tanks and other equipment were taken and analyzed for PCBs as the first part of the PCB characterization program by O'Brien & Gere for Niagara Mohawk in 1978. Three Aroclor mixtures were detected in these samples at total levels as high as 125 ppm. All subsequent samples in this program were only analyzed for the three aroclors detected in the storage tanks (Ref. 6).

Soil Contamination

Samples have been taken of soil from both the training grounds and the surrounding area of the Niagara Mohawk Fire Training School. Six samples of soil were taken and analyzed for PCBs as part of the PCB Characterization Program by O'Brien & Gere for Niagara Mohawk in 1978 (Ref. 6). These samples, from both onsite and offsite locations, all contained PCBs in concentrations varying from 7 to 153,000 ppb as shown in Table 1. Sample SG-17, taken from the site near a demonstration

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Soil Grab Samples Summary of Analytical Data – O'Brien & Gere, July 1978 Niagara Mohawk Fire Training School

Sample		Arocior 1016	Aroclor 1254	Aroclor 1260	Total Aroclor
Identification	Location	(ppb)	(ppb)	(ppb)	(ppb)
SG-5	West of White Creek	<0.8	1.5	5.5	7.0
SG-13	South of the Site	<2	11	18	29.0
SG-14	Southeast of the Site	<0.7	6.5	3.2	9.7
SG-15	Northeast of the Site	<1	4	10	. 14.0
SG-16	Northeast Corner Onsite	<2	19	11	30.0
SG-17	Predominant Spill Area	120,000	33,000	<12000	153,000

Based on Reference 6.

The PCB oil sampling program detected only the presence of three Aroclor mixtures in onsite tanks: 1016, 1254, and 1260. Therefore, all subsequent samples were only analyzed for these three Aroclors.

transformer, contained the highest level of PCBs at 153,000 ppb. All other soil samples, in both the on and offsite locations, contained less than 30 ppb of PCBs. The report (Ref. 6) concluded that the offsite PCBs may be due to residual background contamination from other sources. The New York State Department of Health had the following comment: "Soils offsite may be contaminated from particulates in smoke which were generated during the relatively low temperature, open-burning exercises" (Ref. 35).

In November of 1985, soil samples were taken and split between the NYSDEC and Niagara Mohawk from three onsite locations to be analyzed for dioxins and dibenzofurans. One offsite background sample was also collected. Results of these samples are shown in Table 2. One sample, taken near a training pit, was found to contain a total of 23.86 ppb of dioxin isomers, and 3.2 ppb of the dibenzofuran isomers (Ref. 12). A sample analyzed by O'Brien & Gere which was a composite of the four samples also taken in November did not show the presence of any contamination (Ref. 13).

In May of 1986, O'Brien & Gere analyzed a sample taken from the same location where the NYSDEC found the dioxin contamination. Again, neither dioxin nor dibenzofuran contamination was found in this area (Ref. 14). These results are shown in Table 2.

The most recent sampling event occurred in June of 1988 when soil samples were collected and split between the NYSDEC and Niagara Mohawk. Three samples were collected from the site by the NYSDEC and were to have been analyzed for volatiles, semivolatiles, pesticides and PCBs by Versar, Inc. (Ref. 15). The only results available were the volatile organic analyses for all three of the samples, and the pesticides/PCB analyses for samples #1 and #3 (Ref. 16). No volatile organics were detected in any of the three samples. Sample #1 was found to contain low levels of the pesticides Aldrin, Dieldrin, and Endosulfan II. Results of the available

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Soil Samples

Summary of Analytical Data – NYSDOH and O'Brien & Gere, 1985 and 1986 Niagara Mohawk Fire Training School

Sample	Sample #1	Sample #2	Sample #3	Sample #4	Composite	Resample #2
Identification	NYSDOH '85	NYSDOH '85	NYSDOH '85	NYSDOH '85	OBG '85*	OBG '86
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
2,3,7,8-Tetrachlorodibenzodioxin	<0.02	<0.02	<0.07	<0.03	<10	<0.500
Total Tetrachlorodibenzodioxin	<0.02	<0.02	<0.07	<0.03	<10	<0.500
2,3,7,8-Tetrachlorodibenzofuran	<0.06	<0.06	<0.06	<0.06	<10	<0.500
Total Tetrachlorodibenzofurans	<0.06	1	<0.06	^{``} <0.06	<10	<0.500
Total Pentachlorodibenzofuran	<0.05	1.1	<0.05	<0.05	<10	<0.500
Total Hexachlorodibenzofuran	<0.06	0.7	<0.06	<0.06	<10	<0.500
Total Heptachlorodibenzofuran	<0.08	0.4	<0.08	<0.08	<10	<0.500
Total Octachlorodibenzofuran	<0.3	<0.3	<0.3	<0.3	<10	<0.500
Total Pentachlorodibenzodioxin	<0.04	0.16	<0.08	<0.03	<10	- <0.500
Total Hexachlorodibenzodioxin	<0.07	1.4	<0.09	<0.05	<10	<0.500
Total Heptachlorodibenzodioxin	<0.2	6.3	<0.1	<0.07	<10	<0.500
Total Octachlorodibenzodioxin	<0.4	16	<0.2	<0.2	<10	<0.500

* - These results indicate the absence of chlorinated dibenzofurans and dibenzodioxins at an absolute limit of detection of ten parts per billion. In addition, they are 99% certain that these compounds are absent at a limit of detection of one part per billion.

Based on References 12, 13, and 14.

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analyses are summarized in Table 3. O'Brien & Gere analyzed the split soil samples for Niagara Mohawk (Ref. 17). These results are also summarized in Table 3. PCBs were detected in both samples #1 and #2 at total concentrations of 880 ppb and 14,000 ppb respectively. The only other contaminants detected were a few semivolatile organic compounds (phthalates) which are common laboratory contaminants. Neither the NYSDEC nor the Niagara Mohawk samples were analyzed for dioxin.

Groundwater Contamination

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Five groundwater wells were installed at depths of less than 10 feet and analyzed for PCBs as part of the O'Brien & Gere PCB Characterization Program (Ref. 6). Results of these analyses are presented in Table 4. Well B-2, located in the southeast corner of the training grounds, was the most contaminated of the groundwater samples. This well contained visible oil and was found to contain 528 ppb of total PCBs. B-1 in the northeast corner of the site was the only well found to be free of contamination. The remaining wells contained 10 to 26 ppb of PCBs. No conclusions regarding the migration of any contamination was made at that time with the available information. The current limitation for PCBs in groundwater is 0.1 ppb NYS Ambient Water Quality Standards (Ref. 18). All wells except B-1 exceeded this limitation.

Surface Water Contamination

Eleven samples of surface water were collected as part of the 1978 O'Brien & Gere study (Ref. 6). Results of all surface water samples are presented in Table 5. Four of these samples (SW-8, SW-6, SW-3, and SW-2) were taken from White Creek. Only the upstream sample SW-8 was found to be free of PCBs. The remaining samples contained 0.1 to 0.4 ppb of PCBs, all in excess of the current limit of 0.001 ppb for a Class D Stream (Ref. 18).

Split Soil Samples

Summary of Analytical Data – Versar and O'Brien & Gere, 1988 Niagara Mohawk Fire Training School

Sample Identification	Ī	Sample #1	Sample #2	Sample #3	Sample #1	Sample #2	Sample #3
Laboratory	Units	Versar	Versar	Versar	OBG	OBG	OBG
Client		(NYSDEC)	(NYSDEC)	(NYSDEC)	(NiaMo)	(NiaMo)	(NiaMo)
Methylene Chloride	µg/kg				25		
Acetone	µg/kg				94		
Di-n-butylphthalate	µg/kg	NA	NA	NA		1,000	
bis(2-Ethylhexyl)phthalate	µg/kg	NA	NA	NA			580
Aldrin	µg/kg	28	NA				
Dieldrin	µg/kg	210 J	NA				
Endosulfan II	µg/kg	83 J	NA		1	l	
Total PCBs *	µg/kg		NA		880	14,000	
Cyanide	mg/kg	NA	NA	NA	<0.1	<0.1	<0.1
Aluminum	mg/kg	NA	NA	NA	16,000	15,000	17,000
Antimony	mg/kg	NA	NA	NA	<10	<10	<10
Arsenic .	mg/kg	NA	NA	NA	13	10	6.9
Barium	mg/kg	NA	NA	NA	190	390	200
Beryllium	mg/kg	NA	NA	NA	<5	<5	<5
Cadmium	mg/kg	NA	NA	NA	<1	<1	<1
Calcium	mg/kg	NA	NA	NA	16,000	7,800	17,000
Chromium	mg/kg	NA	NA	NA	29	28	29
Cobalt	mg/kg	NA	NA	NA	<5	<5	<5
Copper	mg/kg	NA	NA	NA	24	24	20
iron	mg/kg	NA	NA	NA	34,000	31,000	35,000
Lead	mg/kg	NA	NA	NA	31	650	22
Magnesium	mg/kg	NA	NA	NA	2900	2600	3500
Manganese	mg/kg	NA	NA	NA	300	230	490
Mercury	mg/kg	NA	NA	⁻ NA	<0.5	<0.5	<0.5
Nickel	mg/kg	NA	NA	NA	9.9	10	12
Potassium	mg/kg	NA	NA	NA	1,500	870	1,100
Selenium	mg/kg	NA	NA	NA	<0.5	<0.5	<0.5
Silver	mg/kg	NA	NA	NA	2	1	2
Sodium	mg/kg	NA	NA	NA	900	800	830
Thallium	mg/kg	NA	NA	NA	110	98	120
Vanadium	mg/kg	NA	NA	NA	23	22	25
Zinc	mg/kg	NA	NA	NA	43	130	33

* - Total PCBs are given. In all cases the predominant Aroclor was 1248. NA - Either Not Analyzed or Not Available

Based on References 15, 16, and 17.

Groundwater Well Samples Summary of Analytical Data – O'Brien & Gere, July 1978 Niagara Mohawk Fire Training School

Sample		Aroclor 1016	Aroclor 1254	Aroclor 1260	Total Aroclor
Identification	Location	(ppb)	(ppb)	(ppb)	(ppb)
B-1	Northeast Corner of the Site	<0.1	<0.1	<0.1	<0.1
B-2	Southeast Corner of the Site	110	68	350	528.0
B-3	Southwest Corner of the Site	2	6	2	10.0
B-4 .	Southwest Between the Moat & Creek	2	<1	13	15.0
B-5	Northwest of the Entrance	5	<2	21	26.0

Based on Reference 6.

24

The PCB oil sampling program detected only the presence of three Aroclor mixtures in onsite tanks: 1016, 1254, and 1260. Therefore, all subsequent samples were only analyzed for these three Aroclors.

: 1

Surface Water Samples

Summary of Analytical Data – O'Brien & Gere, July 1978 Niagara Mohawk Fire Training School

Sample		Aroclor 1016	Arocior 1254	Aroclor 1260	Total Arocior
Identification	Location	(ppb)	(ppb)	(ppb)	(ppb)
SW-1	Ditch	<0.1	<0.1	<0.1	<0.1
SW-2	White Creek Downstream	0.1	0.3	<0.1	0.4
SW-3	White Creek at Outfall	<0.1	0.1	<0.1	0.1
SW-4 *	Outfall				
SW-5	Oil/Water Separator Inlet	<50	500	170	670.0
SW-6	White Creek Adjacent to Site	0.3	<0.1	<0.1	0.3
SW-7	Southwest Moat	8.9	<1.0	1.2	10.1
SW-8	White Creek Upstream	<0.1	<0.1	<0.1	
SW-9	South Moat	0.1	0.1	<0.1	0.2
SW-10	Southeast Moat	15	` 2.1	<1.5	17.1
SW-11	East Moat	0.2	<0.1	<0.1	0.2
SW-12	Northeast Moat	0.4	<0.1	0.1	0.5

* - No sample was taken because no discharge was present in the outfall at the time of the sampling.

Based on Reference 6.

The PCB oil sampling program detected only the presence of three Aroclor mixtures in onsite tanks: 1016, 1254, and 1260. Therefore, all subsequent samples were only analyzed for these three Aroclors.

There are two surface water discharge points from the site to White Creek. These are a ditch at the north end of the site and the outfall from the water treatment system. Analysis of the sample from the ditch (SW-1) did not detect the presence of any PCBs. Because the water treatment system was not operating during the O'Brien & Gere sampling event, no sample could be taken at the outfall to the creek (SW-4). Effluent from the system is monitored by Niagara Mohawk twice a month during a period of discharge from the separator (Ref. 5).

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The treatment system, referred to by Niagara Mohawk as the PCB filter system, was designed in combination with an existing oil separation facility to treat waters collected in the moat encircling the Niagara Mohawk Training Facility. An overflow pipe is designed to transport water during peak high water periods and during power outages when the oil/water separator is not functioning. The frequency of this occurance and the volume of water which bypasses the treatment system is not known (Ref. 5).

Surface water samples were also taken from the moat that surrounds the site. Except for a sample taken directly at the inlet to the oil/water separator (SW-5), the levels of PCBs in the remaining five moat samples (SW-7, SW-9, SW-10, SW-11, and SW-12) ranged from 0.2 to 17.1 ppb. Sample SW-5 contained a visible oil layer and was found to contain PCBs at a level of 670 ppb. All effluent from the moat around the site is treated prior to discharge to meet the PCB effluent limitations (2 ug/1) required by their SPDES permit. The system is being upgraded to meet the new PCB effluent limitations of 0.065 ug/1 (Ref. 34).

Sediment Contamination

For each of the surface water samples collected in 1978 by O'Brien & Gere, a sediment sample was also collected and analyzed for PCBs (Ref. 6). Results of these analyses are presented in Table 6. All four of the samples taken from White Creek (SG-8, SG-6, SG-3, and SG-2) contained

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Sediment Grab Samples

Summary of Analytical Data - O'Brien & Gere, July 1978 Niagara Mohawk Fire Training School

Sample		Aroclor 1016	Aroclor 1254	Aroclor 1260	Total Arocior
Identification	Location	(ppb)	(ppb)	(ppb)	(ppb)
SG-1	Ditch	<0.5	2	4	6
SG-2	White Creek Downstream	21	13	17	51
SG-3	White Creek at the Outfall	92	40	71	203
SG-4	Outfall	<53	530	140	670
SG-6	White Creek Adjacent to Site	400	59	76	535
SG-7	Southwest Moat	280	130	63	473
SG-8	White Creek Upstream	170	36	110	316
SG-9	South Moat	160	480	150	790
SG-10	Southeast Moat	2,700	560	610	3,870
SG-11	East Moat	18	39	26	83
SG-12	Northeast Moat	3,900	<390	740	4,640

Based on Reference 6.

1_

The PCB oil sampling program detected only the presence of three Aroclor mixtures in onsite tanks: 1016, 1254, and 1260. Therefore, all subsequent samples were only analyzed for these three Aroclors.

PCBs. The upstream sample contained 316 ppb of PCBs while the remaining samples contained 51 to 535 ppb of PCBs.

Analysis of the sediment from the ditch (SG-1) showed only 6 ppb of PCBs while analysis of the outfall (SG-4) showed PCBs at a level of 670 ppb.

Sediment contamination in the moat samples (SG-7, SG-9, SG-10, SG-11, and SG-12) varied considerably, ranging from 83 to 4640 ppb of PCBs. SG-10 and SG-12 along the eastern edge had the highest concentrations of PCBs. NYSDEC Fish & Wildlife Sediment Cleanup Criteria need to be calculated in order to determine if the sediments exceed the aquatic toxicity based criteria of 0.001 ppb for a class D stream (Ref. 18). Both PCBs and organic carbon need to be analyzed in sediments to perform the calculations.

Air Contamination

No sampling of air in the vicinity of the site has been conducted. Based on the nature of the waste disposal at the site, air contamination is not considered to be a significant factor at the site. Monitoring of the site with an HNu during the site inspection did not indicate any readings above background levels. However, in the opinion of the New York State Department of Health, "Soils offsite may be contaminated from particulates in smoke which were generated during the relatively low temperature, open burning exercises. Soil sampling should take into consideration the predominant wind direction" (Ref. 35).

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5. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

5.1 <u>Hazardous Waste Deposition</u>

At the Niagara Mohawk Fire Training School site, PCB contaminated oil was used in fire simulations. As a result of these simulations, oil was spilled onsite and subsequently seeped into the soil of the training grounds and was found to be present at significant concentrations in the moat water and sediments (Ref. 3, 5, 6, 10). It is unknown how much of this oil might have entered the ground over time. PCB contamination of the soil, surface water, groundwater and sediments at the site have all been documented in previous sampling (Ref. 6). Some PCB concentrations in the soil and on-site storage tanks were sufficient for classification as TSCA hazardous wastes (>50 ppm). Dioxins and dibenzofurans were also detected in a soil sample taken from the site. Dioxin has been found as a trace component of combustion (Ref. 19). As PCB contaminated oil was burned on site, it is probable that the dioxin detected in the on site soil is attributable to onsite activities.

5.2 <u>Significant Threat Determination</u>

Previous sampling has indicated PCBs were present in the soil, groundwater, surface water and sediments around the fire school site. Samples of surface water, soil and groundwater at the site, taken in 1978, exceed the current limits for PCBs, thus meeting the criteria for a significant threat. The installation of the moat has helped to alleviate the spread of contamination from the site. The majority of the contamination at the site was confined to the southern area where the fire simulation activities take place.

The moat around three sides of the site was designed to intercept contaminants being spread to the groundwater and surface water. The surface water is not used for drinking in the vicinity of the site.

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Groundwater is used by approximately 80 people living along Lake Ontario downgradient from the site. Although these threats are not assumed to be significant, no testing of the groundwater from the bedrock aquifer has been done. The current potential for the release of contaminants through fire or explosion is insignificant because contaminated oil has not been used at the site since 1977.

Because the site is fenced, contact with contaminated soil within the fenced area by unauthorized personnel is a remote possibility. Contact by personnel using the training grounds is also remote because the entire site is covered with layers of hard packed gravel. However, it is possible that soils outside of the fenced area were contaminated by PCB's before 1977. Soils offsite may also have been contaminated from particulates in the smoke which was generated during the relatively low temperature open burning exercises (Ref. 35). In addition, prior to the installation of the moat system around the site, oil slicks were noted in areas offsite after heavy rains. Some of this oil was probably the high PCB oil noted in the vicinity of SG-17 (Ref. 6).

In regards to dioxins present on site, 2,3,7,8-tetrachlorodibenzodioxin, the most toxic of the dioxin isomers (Ref. 19), was not detected in any of the samples. The one sample in which dioxins were found was located 8" below the ground surface. Dioxins and dibenzofurans have low vapor pressures, are insoluble in water, and do not migrate appreciably in soil (Ref. 19). Dioxins were not detected during any other sampling conducted at the site.

5.3 <u>Recommendations</u>

Based upon analytical results of surficial soil, groundwater and sediment samples which show contamination by PCB's in excess of 50 ppm, there is evidence of the presence of hazardous waste at this site. Additionally, samples of both surface water and groundwater at the site,

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taken in 1978, contravene the current water quality standards for PCBs, thus meeting the criteria for a significant threat. Therefore, URS recommends that the NYSDEC reclassify this site to a Class 2 site. In addition, sampling in the form of a Remedial Investigation should be performed to further assess the significant threat to the public and the environment.

Much of the available sampling information from the Niagara Mohawk site was done in 1978. No bedrock monitoring wells were installed in order to assess the threat to those 80 people living along Lake Ontario and using private residential wells for potable water. It is recommended that much of this sampling be redone to characterize the current site conditions at the training school grounds and the surrounding area. Additional sampling would help to determine the extent of PCB migration from the site during the past decade.

Specific Recommendations for Remedial Investigation Include:

Surface water and sediment samples should be taken from White Creek upstream, adjacent to, and downstream of the site. Samples should also be taken at the outfall from the treatment system and from the ditch. These samples should be analyzed for PCBs, dioxins, and TOC.

A minimum of four groundwater monitoring well pairs should be installed at the site. The well pairs would consist of one well in the shallow overburden, and one well in the bedrock layers to assess the contamination in the bedrock. The well pairs should be installed upgradient of the site (south), downgradient of the site (north), in the southeast corner of the training grounds where previous contamination was detected, and across White Creek (west) in order to determine

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if contaminants are discharging into, or migrating beyond White Creek.

Overburden and bedrock soil samples should be taken from all monitoring well borings to determine the depth and extent of contamination. These samples should be analyzed for TCL parameters as previous soil samples detected the presence of volatiles, semivolatiles, pesticides, PCBs, and metals. The sample from onsite should also be analyzed for dioxins.

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APPENDIX A

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1.10

PRELIMINARY COST REPORT

ON

OIL SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN

FOR

OSWEGO FIRE SCHOOL

Prepared by K. Subbarao Niagara Mohawk Power Corp. October 1976

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cc: Mr. Day

For the Record Mr. Critz

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July 15, 1974

On Wednesday, July 3, 1974, the writer inspected Wine Creek for an oil discharge. I found a continuous thin film of oil at the crossing of Wine Creek and Middle Road

I first inspected Pollution Abatement Services which is immediately upstream, but there was no apparent discharge coming from the facility.

Upon further inspection upstream the discharge appeared to be coming from the Niagara Hohawk Fire Training School.

At this school oil has been used to simulate transformer and other types of electric fires over the past twelve years. As a result of this activity, the ground has become saturated with oil. In the past few years Niagara Mohawk has taken adequate measures to prevent any more saturation of this area. Due to the saturation there is a continuing discharge of oil from the premises caused by leaching. During normal flows Niagara Mohawk has baken measures to prevent the oil from reaching the stream but because of the above average rainfall the night before there was considerable leaching causing the oil discharge to the stream. There is nothing reasonable I can recommend to Niagara Mohawk to remedy this high flow problem.

If there is any property damage downstream due to oil, Nisgara Mohawk will be held responsible.

ce: Mr. Barolo Mr. Huntley Mr. Turkki Mr. Day, Niagara Mohawk

RECEIVED JUL 2 3 1974 INSURANCE DEPT.

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R. C. CLANCY JUL 3 0 1974

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Appendix III

Soil Test Report

FORM 112-2	R 1-\$1		NIAGARA - MOHAWK	-		٤)
r			DISTRICT	Syracus	se	· ·
FROM	Α.	Fini	. DATE	9/9/76		FILE CODE SC 76
то -	R.	Pohl	SUBJECT	Soil (F	For	oil Contamination)

Thirty-three (33) soil samples from the Oswego Fire Training Facilities were received in the System Chemical Laboratory to determine the extent of oil saturation in the surrounding ground and the location of possible storage tank leakage.

The samples were dried to eliminate ground water, finely divided and oil was extracted from a representative portion with chloroform. The extract was filtered, dried and weighed. Infrared spectra were made of the samples with sufficient concentration of oil and compared with samples from the storage tanks at the facilities as well as water-emulsion samples from a nearby ditch and No Name Creek.

Every infrared spectrum was indicative of petroleum hydrocarbons except the ditch water which was not of sufficient concentration to scan.

It would appear that the results obtained confirms the findings of Parratt-Wolff, Incorporated that the contamination is most prevelant at borings 1, 6 and 7.

Results are as follows:

INTERNAL CORRESPONDENCE

TEST BORING #	<u>% OIL</u>	TEST 1	BORING #	§ OIL	TEST BORING #	<u>% OIL</u>
B1 S1A B1 S1B	4.36* 5.84		S1 S2	0.07	B6 S2B* B6 S3	2.79
B1 S1C B1 S2A	2.90*				B6 S4	Nil
B1 S2B	2.38		S1 S2	0.02 0.04	B7 S1*	1.80
Bl S3 Bl S4	1.55 0.42	B5	Sl	0.05	B7 S2* B7 S3A*	1.55 0.74
B1 S5	0.87* -		S2 S3	0.04 Nil	B7 S3B* B7 S4	0.16 0.01
B2 S1	0.07	B5		0.03	B7 S5	0.03
B2 S2 B2 S3	0.05 0.10	B6	S 1	0.02	B8 S1	0.01
B2 S4	0.09	B6	S2A*	6.90	B8 S2	0.03

* Infrared spectra run on these samples

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TEST BORINGS

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OSWEGO FIRE TRAINING FACILITIES

OSWEGO, NEW YORK

FISHER RD. EAST SYRACUSE. N Y 13057 TELEPHONE AREA CODE 315/437-1429

August 13, 1976

Niagara Mohawk 300 Erie Boulevard West Syracuse, New York 13202

Attention: Mr. Robert Pohl

Re: 7678 Oswego Fire Training Facilities Oswego, New York Purchase Order #16413

Gentlemen:

Enclosed are the logs of eight test borings made for you for the above project.

Samples from these borings have been delivered to your office this date under separate cover.

The borings were made at points indicated on the enclosed plot plan and were drilled in accordance with ASTM methods for split barrel sampling in soils.

It would appear from the samples that the oil is confined to the southern portion of the site. Borings #1,5,6 and 7 indicate contamination of some degree with a greater concentration at Boring #1.

All holes were driven to refusal which probably is soild sandstone.

The oil that appears in the lower portions of these borings could not be identified in the field by visual methods. There is a slight odor from the samples.

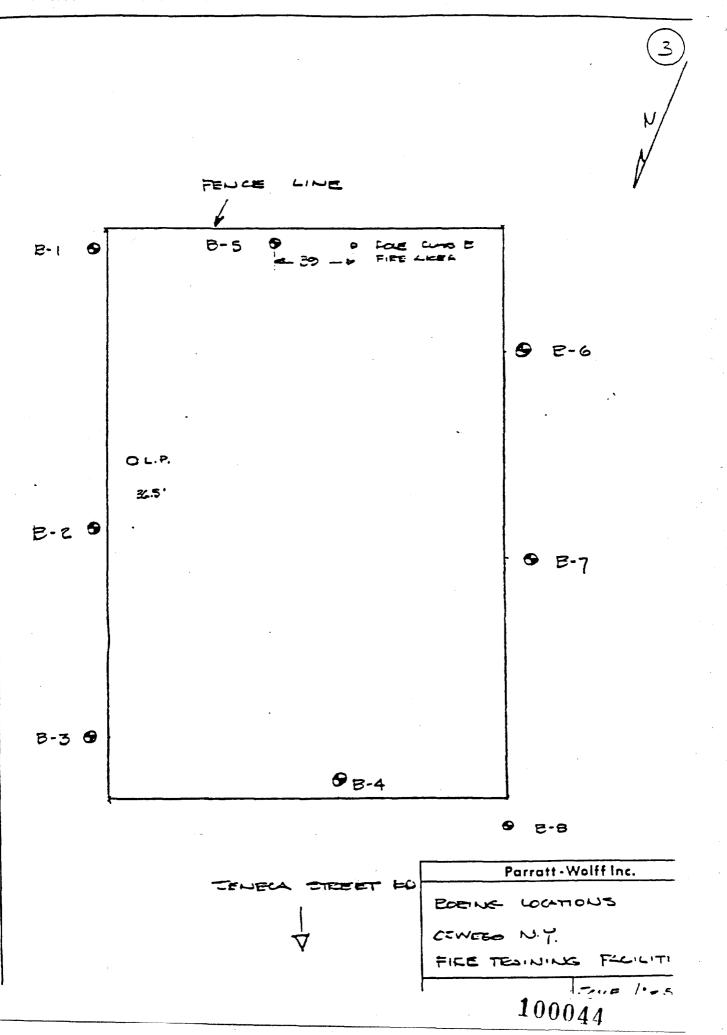
The water table is indicated on the boring logs. This varies because of the nature of the material causing trapped water. We installed a well point at Boring #8 and a check now would give you a fair indication of the natural water table.

If we can be of any further help, please contact us.

Very truly yours,

PARRATT - WOLFF, INC. Long dan J. Ponnie

Royden S. Parratt RSP/1nc encs:



part wol	att finc	TEST BO	RING LOG	FISHER ROAD EAST SYRACUSE, N.
PROJECT	Oswego Fire	Training H	acilities	HOLE NO. B-1
LOCATION	Oswego, New	York		SURF. ELEV.
DATE STARTED	8/9/76	COMPLETE	D 8/9/76	JOB NO. 7678
GROUND WATER	Depth on a	completion	7.0'	
N= NO. OF BLOWS	TO DRIVE 2" SAMPL	ER 6" W/140 LB.	WEIGHT FALLING 30"	
C= NO. OF BLOWS BORING MADE	TO DRIVE C		DLB. WEIGHT FALLING CASING	24" SHEETOF
DEPTH C.	SAMPLE NO	SAMPLE DEPTH	DESCRIP	TION OF MATERIAL
5.0 WL 10.0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	3.5' Boulder	fine GRAVEL, 15 coarse sand, tr Brown wet media little medium trace fine sand brown moist med to fine SAND, for boulder Brown moist ver fine SAND and S to fine gravel Brown moist ver coarse GRAVEL, trace fine sand Top of Rock Bottom of Borin Note: Oily was	race silt um dense SILT, to fine gravel, d dium dense medium trace silt, struc ry dense medium SILT, trace mediu ry dense fine to little silt, d

	parratt wolffinc
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FISHER ROAD 3 EAST SYRACUSE, N.Y. 13057

TEST BORING LOG

PROJECT		Oswego F	ire	Training	Facili	ties	HOLE NO.	B-2
LOCATION		Oswego,	New	York			SURF. ELEV.	
DATE START	red	8/10/7	6	COMPLET	ED 8	8/10/76	JOB NO.	7678
GROUND WA	TER	Struck	wat	er at 0.8	3' while	e drilling		
N≖ NO. OF B	LOWS TO	DRIVE 2" SA	MPLE	R 6" W/140 LB	. WEIGHT F	ALLING 30"		
C= NO. OF BI	LOWS TO	DRIVE	CA	SING 12" W/3	00 LB. WEI	SHT FALLING 2	4"	
BORING M	ADE W	ITH HOLL	ow s	TEM AUGER	R CASING	;	SHEET	OF1
DEPTH	c.	N.	SAMPLE NO.	SAMPLE DEPTH		DESCRIPT	ION OF MATERIA	
V		2/3	1	0.0'-			se fine to	
WL		3/4 8/12	2	$\frac{2.0'}{2.0'}$	GRAVEL		se medium t	0.5
		17/9		4.01	D1 0		, trace fin	
5.0	 	3/10	3	4.0'-	gravel	the second s	·	2.0
		10/27	4	6.01-		moist med: `ine sand	ium dense S	ILT, 4.0'
		40/18	5	$\frac{8.0!}{8.0!}$	and the second se		ium dense S	the second s
10.0				8.3.			, trace fin	
	<u> </u>			No re-			rganic matt lense coars	
				<u>covery</u>			ne silt, li	
						to fine :	sand	<u> </u>
	l				Top of Bottom	of Boring	Ξ	<u> </u>
								- ·
	<u> </u>				Note:	Water rut 0.9'.	nning in ho	le at
					-			

	uolffi			TEST BC	RING LO		FISHER ROA EAST SYRAC	
PROJECT		Oswego	Fire	Training	; Facilities	5	HOLE NO.	B-3
LOCATION		Oswego,	New	York			SURF. ELEV	
DATE STARI	ED	8/10/	76	COMPLET	ED 8/10/7	[,] 6	JOB NO.	7678
GROUND WA	TER	Depth	non	completio	on 2.8'			
N= NO. OF B	LOWS TO	DRIVE 2" SA	AMPLE	R 6'' W/140 LB	. WEIGHT FALLIN	G 30″		
C= NO. OF BU	-	-		SING 12" W/3	00 LB. WEIGHT FA	ALLING 24"	SHEET	<u>1</u> 0F
DEPTH	C.	N.	SAMPLE NO.	SAMPLE DEPTH		ESCRIPTION	N OF MATERI	AL
		3/6	<u>ふ</u> 1	0.0'-	Brown mois	st mediu	m dense	mediu
WL-	, 	9/7	[]	2.0'	to fine GF coarse sar		ome fine	to
WL 5.0					Brown wet			
		8/18	2	5.0'- 6.5'	GRAVEL, li to coarse		it, litt	le Il
	· · · · ·					•		
10.0		750	3	10.0'	Top of Roc	:k		
				No re- covery	Bottom of	Boring		
15.0		<u></u>						
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		/ 						
ł		1		1				

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TEST BORING LOG

	PROJECT		Oswego	Fire	Trainin	g Facilities	HOLE NO. B-4
	LOCATION		Oswego,	New	York		SURF. ELEV.
	DATE STAR	TED	8/10/	176	COMPLET	ED 8/10/76	JOB NO. 7678
	GROUND WA	TER	Depth	י מס נ	completi	on 2.5'	
I	N= NO. OF B	LOWS TO	DRIVE 2" S	AMPLEF	8 6" W/140 LB	WEIGHT FALLING 30"	
(C= NO. OF B	LOWS TO	DRIVE	CAS	SING 12" W/3	00 LB. WEIGHT FALLING	24" SHEETOF1
ſ	BORING	MADE W	ITH HOLL	.OW 57	TEM AUGER	R CASING	SHEETUF
	DEPTH	C.	N.	SAMPLE NO.	SAMPLE DEPTH	DESCRIP	TION OF MATERIAL
ł		<u> </u>	8/13		0.0'-	Crushed STONE	0.2
	A		19/12		2.0'	Brown moist der	nse coarse to fine
	WL						ine to coarse sand,
				<u> </u>		trace silt	
ł	5.0	<u> </u>	1 15/46	+	£ 0.		ry dense medium
			52	<u> </u>	5.0'- 6.5'	little silt	little fine gravel,
					<u>.</u>	Top of Rock	8.0
		· .			1	Bottom of Borin	
ļ	10.0						
				<u> </u>]			
				<u>+</u>			
				<u>├</u> {			
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			<u> </u>	├──┥			
				<u> </u>			
				<u>├</u> ───┤			

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-	Ξ	parratt wolffine	TEST BO	FISH EAST
		PROJECT Oswe	go Fire Training	g Facilities HOL
F	λT:	LOCATION Oswe	go, New York	SUR
		DATE STARTED 8/	10/76 COMPLET	ED 8/10/76 JOB
	I N	GROUND WATER De	oth on completio	on 3.5'
_	Convertible	N= NO. OF BLOWS TO DRIVE	2" SAMPLER 6" W/140 LE	8. WEIGHT FALLING 30"
- 1	l IR F	C= NO. OF BLOWS TO DRIVE	CASING 12" W/3	00 LB. WEIGHT FALLING 24"
	D1	BORING MADE WITH H		CASINGS
- .		DEPTH C. N.	SAMPLE WW Z DEPTH	DESCRIPTION OF
· :		3/	5 1 0.0'-	Crushed STONE
		WL V 5/1	21 2 2.0'-	Brown moist medium dense coarse to fin
£		5.0 16/	8 3 4.0'-	some silt, little m fine sand
		22/	5 4 6.0'-	
\sim	[10.0	6 5 8.01-	Top of Rock
			0 No re- covery	Bottom of Boring
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	parratt wolffinc
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FISHER ROAD EAST SYRACUSE, N.Y. 1305

TEST BORING LOG

PROJECT	Oswego Fire Training Fa	HOLE NO.			
LOCATION	Oswego, New York		SURF. ELE	V .	
DATE STARTED	8/10/76 COMPLETED	8/10/76	JOB NO.	7678	
GROUND WATER	Depth on completion 4	• 2 '			

N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C= NO. OF BLOWS TO DRIVE CASING 12" W/300 LB. WEIGHT FALLING 24"

SHEET _____ OF ____

BORING MADE WITH HOLLOW STEM AUGER CASING

DEPTH	с.	N.	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL	
WL 🛛		7/10 16/11 7/4 4/6	2	0.0'- 2.0' 2.0'- 4.0'	Brown-black coarse to fine GRAVEL and CINDERS, little coarse to fine sand, trace silt	4.0
5.0		$ \begin{array}{r} 11/21 \\ 16/24 \\ 21/34 \\ 35/35 \\ \hline \end{array} $	3	4.0'- 6.0' 6.0'- 8.0'	Gray wet dense coarse to fine GRAVEL, little silt, trace fine sand Brown-gray moist very dense	6.0
10.0		28/57-		8.0'- 8.7'	medium to fine SAND, some silt, little medium to fine gravel Gray wet medium coarse GRAVEL,	8.0
					some silt, trace fine sand Top of Rock Bottom of Boring	8.7

	oarrat uolffi		TESTB	DRING LOG	FISHER ROAD EAST SYRACUSE, N.
PROJECT		Oswego Fi	re Trainin	g Facilities	HOLE NO. B-B
LOCATION		Oswego, N	ew York		SURF. ELEV.
DATE STAR	TED	8/10/76	COMPLET	ED 8/10/76	JOB NO. 7678
GROUND WA	TER	Depth or	n completi	on 3.2'	
N= NO. OF B	LOWS TO	DRIVE 2" SAMP	LER 6" W/140 LE	B. WEIGHT FALLING 30"	
				BOOLB. WEIGHT FALLING	G 24" SHEET <u>1</u> OF
BORING	MADE W	ITH HOLLOW		R CASING	
DEPTH	c.	SAMPLE	SAMPLE DEPTH	DESCRI	PTION OF MATERIAL
		3/3 1 4/5	0.0'-		pose medium to fir lt, little coarse
WL 🔽			-	to fine grave:	
5.0		38/65-2	5.0'-		ery dense fine to
		.4	5.9'	fine sand, son	, some medium to ne silt
10.0		750 3	No re-	Top of Rock	
	 		covery	Bottom of Bori	ing
			_		
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		<u> </u>			

OSWEGO FIRE TRAINING SCHOOL FACILITY PCB SAMPLING PROGRAM

NIAGARA MOHAWK POWER CORPORATION

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O'BRIEN & GERE ENGINEERS, INC. 1304 Buckley Road Syracuse, NY 13221 July 14, 1978

NIAGARA MOHAWK POWER CORPORATION 300 Erie Boulevard West Syracuse, NY 13202

Attn: Mr. J. M. Toennies Environmental Affairs Director

Re: Oswego Fire Training

School

File: 1118.016

Gentlemen:

O'Brien & Gere is pleased to present the final report on the analytical program conducted at the Oswego Fire Training School to determine the polychlorinated biphenyl (PCB) levels in the immediate area of the site. The report contains information on the PCB concentrations in the oil, creek water and sediments, moat water and sediments, ground water and soil samples at the school.

It has been our pleasure to perform this study for the Niagara Mohawk Power Corporation and we hope to have the opportunity to undertake similar programs in the future.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Frank J. Drehwing, P.E. Vice President

FJD:jld

Enclosure:

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Ce

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2- Groundwater Well Sampling Apparatus

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1.d

Α	In House Memo
в	Parratt-Wolff, Inc. Report
С	Analytical Procedures for Gas Chromatography
D	In House Memo
E	Quality Control

SECTION 1 INTRODUCTION

1.01 Introduction

This program was undertaken by O'Brien & Gere Engineers, Inc. in response to a request for proposal issued on March 17, 1978 by the Niagara Mohawk Power Corporation. The purpose of the program was to determine the polychlorinated biphenyl (PCB) concentration in the soil, sediment, groundwater, surface water and oil at the Oswego Fire Training School.

Seventeen sediment, fourteen oil and seventeen water samples were collected in and adjacent to the Fire Training School at Oswego, NY. The samples were analyzed for several PCBs which were quantitated as Aroclor mixtures. The analytical procedure consisted of solvent extraction, cleanup, concentration and electron capture gas chromatography.

1.02 Background

PCBs are synthetic organic compounds produced by the chlorination of biphenyls. There are 209 possible chlorobiphenyls containing from one to ten atoms of chlorine. Various mixtures are registered in the United States by the Monsanto Chemical Company under the trade name, Aroclor. Chemical characteristics of the individual compounds and Aroclor are dependent on the degree of chlorination. Identification of the PCB mixture is by numerical nomenclature, for example, Aroclor 1221, Aroclor 1254, etc., with the number indicating the structure and composition of the compound. The first two digits represent the type of molecule - 12= chlorinated biphenyl, 54 = chlorinated terphenyl. The last two digits give the average percentage, by weight, of chlorine. The exception to this nomenclature is Aroclor 1016 which contains 41% chlorine by weight, but in which the penta-, hexa-, and heptachlorobiphenyl content has been significantly reduced from Aroclor 1242. Detailed reviews discussing the chemistry of PCBs are available elsewhere. PCBs pose a serious threat to the environment because of their acute and chronic toxic effects on fish and mammals.

1.03 Summary of Results

The oil samples showed that considerable quantities of oil contaminated in the parts per million (ppm) range was stored on the site. The sediment and water samples showed PCBs in the low parts per billion (ppb) range. Soil sample SG 17 which was collected next to a demonstration prop on the site was the only sample which contained 5 or more ppm of PCBs. Several samples from outside the property showed the presence of PCBs which may be an indication of residual background contamination from sources other than Niagara Mohawk. Because PCBs are common throughout the environment, it is difficult to draw any conclusions from the limited amount of data obtained in this study. There appears to be no readily discernible point source of PCB contaminated material being discharged to Wine Creek.

SECTION 3 - RESULTS AND DISCUSSION

3.01 Results

The results for the individual samples are tabulated in Tables 3-1 to 3-5. Table 3-1 presents a summary of the initial oil sampling program. Reviewing the results, the presence of three Aroclor mixtures (1016, 1254,1260) was evident. Based on this fact, all subsequent samples were analyzed for these three Aroclor mixtures. Table 3-2 presents the results of the surface water analysis from the creek and moat surrounding the sites. The groundwater observation well results are listed in Table 3-3. Table 3-4 itemizes the results of the soil samples on and adjacent to Niagara Mohawk property, and Table 3-5 presents the results of sediment grab samples from the creek and moat.

3.02 Discussion

The Aroclor concentrations in the water fraction were generally low compared with the corresponding sediment fraction. The two exceptions are sample SW5 which was collected from the inlet side of the oil/water separator and sample B2 which was collected from ground water observation well number two. Both of these samples contained visible quantities of oil which may have led to the high Aroclor concentration.

Comparing groundwater concentrations to adjacent surface water samples, it is observed that the groundwater samples are lower, except in the case of B2 which contained visible quantities of oil. Thus, it is difficult to establish if the groundwater is contaminated from the Fire School or some other source.

When reviewing the soil samples in Table 4, it is observed that background concentrations are located outside the Fire School property. Sample SG 17, which is inside the property, indicated the soil contains PCBs. On-site observations reveal the soil in this area retains large quantities of oil. This oil presumably originated from a large transformer used during the School's operation. The creek sediment samples (SG1, SG2, SG3, SG6 and SG8) show a large concentration variation. Therefore, it is difficult to determine a possible point source. These variations may be due to the stream relocation or sedimentation with the stream. The upstream sample SG8 reveals that there may be a source above the Fire Training School.

Reviewing the samples analyzed, it is observed that there is a possibility of background PCB contamination within the entire area. There appears to be no apparent point-source of PCB contaminated oil being discharged to Wine Creek.

Submitted by:

O'BRIEN & GERE ENGINEERS, INC.

Frank J. Drehwing, P.E. Vice President

Prepared by:

David R. Hill Edwin C. Tifft, Jr., Ph.D.

TABLE 3-1 OIL SAMPLES

F

	PCB					
Sample	Aroclor	Arocior	Aroclor	Aroclor		
Identification	<u>1221 (ppm)</u>	1016 (ppm)	1254 (ppm)	<u>1260 (ppm)</u>		
Tank #1	< 25	< 15	< 15	32		
Tank #3	< 25	73	18	_{<} 15		
Tank #4	< 25	85	21	19		
Tank #5	< 25	67	< 15	< 15		
Tank #6	< 25	75	< 15	< 15		
Tank #7	< 25	< 15	< 15	22		
Tank #8	< 25	74	< 15	18		
Tank #9	< 25	53	16	< 15		
Tank #10	< 25	74	20	19		
3000 KVA	< 25	61	20	17		
Recycle Tank	< 25	49	17	27		
Transfer Tank	< 25	55	< 15	20		
Circuit Breaker	< 25	52	< 15	20		
Oil Fraction Oil						
Separator	< 25	43	< 15	< 15		

			PCB	
Мар	OBG	Aroclor	Aroclor	Aroclor
Designation	Sample No.	<u>1016 (ppb)</u>	<u>1254 (ppb</u>)	<u>1260 (ppb)</u>
SW 1	77925	< 0.1	< 0.1	< 0.1
SW 2	77926	0.1	0.3	< 0.1
SW 3	77927	< 0.1	0.1	< 0.1
SW 4		NO DISC	HARGE	
SW 5	77928	< 50	500	170
SW 6	7792 9	0.3	< 0.1	< 0.1
SW 7	77930	8.9	<1.	1.2
SW 8	77931	< 0.1	< 0.1	< 0.1
SW 9	77932	0.1	0.1	< 0.1
SW 10	77933	15	2.1	< 1.5
SW 11	77934	0.2	< 0.1	< 0.1
SW 12	77935	0.4	< 0.1	0.1

TABLE 3-2 SURFACE WATER SAMPLES

SW = Surface Water

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TABLE 3-3

GROUNDWATER WELL SAMPLES

			PCB	
Мар	OBG	Aroclor	Aroclor	Aroclor
Designation	Sample Number	<u>1016 (ppb)</u>	<u>1254 (ppb)</u>	<u>1260 (ppb</u>
B 1	77936	< 0.1	< 0.1	< 0.1
B 2	77937	110	68.	350.
в 3	77938	2.	6.	2.
B 4	77939	2.	· <1.	13.
B 5	77940	5.	< 2.	21.
F	Pre Sampling Blank	< 0.1	< 0.1	< 0.1
F	Post Sampling Blank	< 0.1	< 0.1	< 0.1
٧	Vell Liner	< 0.1	< 0.1	< 0.1

B = Boring

F

TABLE 3-4 SOIL GRAB SAMPLES

	F	PCB	
OBG	Arocior	Aroclor	Aroclor
Sample Number	<u>1016 (ppb)</u>	<u>1254 (ppb)</u>	1260 (ppb)
77948	< 0.8	1.5	5.5
77956	< 2.	11.	18.
77957	< 0.7	6.5	3.2
77958	< 1	4.	10.
77959	< 2	19.	11.
77960	120000.	33000.	<12000.
	<u>Sample Number</u> 77948 77956 77957 77958 77959	OBGArociorSample Number1016 (ppb)77948< 0.8	Sample Number1016 (ppb)1254 (ppb)77948< 0.8

SG. - Soil Grab

2.4

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TABLE 3-5 SEDIMENT GRAB SAMPLES

			PCB	
Мар	OBG	Arocior	Aroclor	Aroclor
Designation	Sample Number	<u>1016 (ppb)</u>	<u>1254 (ppb)</u>	<u>1260 (ppb</u>
SG 1	77944	< 0.5	2.3	3.9
SG 2	77945	21.	13.	17.
SG 3	77946	92.	40.	71.
SG 4	77947	< 53.	530.	140.
SG 6	77949	400.	59.	76.
SG 7	77950	280.	130.	63.
SG 8	77951	170	36.	110.
SG 9	77952	160	480.	150.
SG 10	77953	2700.	560.	610.
SG 11	77954	18.	39.	26.
SG 12	77955	3900.	< 390.	740.

SG= Sediment Grab

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Lin P	uolffi	t nc		TEST BC	DRING	LOG	FISHER RO EAST SYR	DAD ACUSE, N.Y. 13057
PROJECT			ohawk	Training S Power Cor ork		n	HOLE NO. SURF. ELE	<u>B-1</u> -76-436 V.
DATE START	TED	5/15/78		COMPLET	ED	5/15/78	JOB NO.	7850
GROUND WA	ATER	Depth on	compl	etion at 2	2.0'		File No.	1118.016
N= NO. OF B	LOWS TO	DRIVE 2'' SA		R 6" W/140 LB	WEIGHT	FALLING 30"		
C= NO. OF BI				SING 12" W/3		GHT FALLING	5 24" SHEET	OF
DEPTH	С.	N.	SAMPLE NO.	SAMPLE DEPTH		DESCRI	PTION OF MATE	RIAL
¥	· · · · · · · · · · · · · · · · · · ·	5/6	1	0.0'-2.0'	Erown SAND	moist medi	lum dense fin	e to medium 1.51
WL 5.0 10.0		11/10 3C/33 20/22 18/15 12/21 27/50- .0 500	3	3.0'- 5.0' 7.0' 7.0'- 8.5' 10.0'	some grave Gray f silt, Gray f SAND a silt Botton	silt, littl noist very some fine wet very de and fine to n of Boring Installed		AND, SOME avel 5.0' medium EL, little 10.0' r observation

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parta wolff				FISHER ROAD EAST SYRACUS	E, N.Y 13057
	1	EST BORIN	GLOG		6
PROJECT	Fire Fighting Tra Niagara Mohawk Po	aining Station ower Corporatio	תכ	HOLE NO.	<u>3-2</u> -7337
LOCATION	Cswego, New York			SURF. ELEV.	
DATE STARTED	5/15/78	COMPLETED	5/15/78	JOB NO.	7850

GROUND WATER Depth on completion at 7.0'

N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C= NO. OF BLOWS TO DRIVE

•

CASING 12" W/300 LB. WEIGHT FALLING 24"

SHEET _____OF ____

File No. 1118.016

DEPTH	C .	N.	SAMPLE NO.	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
		3/3	1	0.0'-	Brown moist loose fine SAND, some silt
		3/2		2.0'	
		2/3	2	3.0'-	
5.0		4/12		5.0'	4.5
		12/21		5.0'-	Brown moist medium dense fine SAND
		1003		6.3'	and fine to coarse GRAVEL, trace silt
WL		<u> </u>			Refusal 8.01
10.0		; 			Bottom of Boring 8.01
		- <u>-</u>			J
					Note: Installed ground water observation
		 			well to 8.0' on completion.
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u parra wolfi	att finc	TEST BORI	NG LOG	FISHER RC EAST SYRA	ACUSE, N.Y. 13057
PROJECT .	Fire Fighti: Niagara Moh	ng Training Stat awk Power Corpor	ion ation	HOLE NO.	<u>B-3</u> -78-438
LOCATION	Oswego, New	•		SURF. ELE	V .
DATE STARTED	5/15/78	COMPLETED	5/15/78	JOB NO.	7850
GROUND WATER	Depth on con	mpletion at 4.5'		File No.	1118.015

N= NO. OF BLOWS TO DRIVE 2" SAMPLER 6" W/140 LB. WEIGHT FALLING 30"

C= NO. OF BLOWS TO DRIVE CASING 12" W/300 LB. WEIGHT FALLING 24"

BORING MADE WITH HOLLOW STEM AUGER CASING

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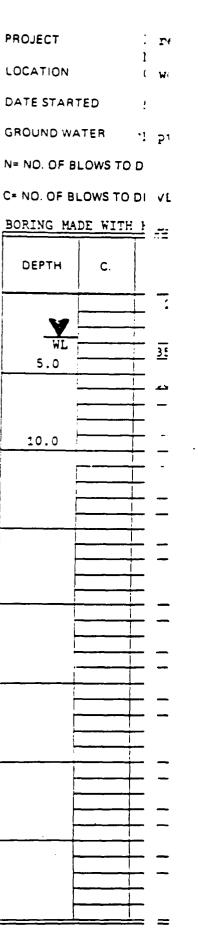
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SHEET _____OF ____

DEPTH	C .	N.	SAMPLE NO	SAMPLE DEPTH	DESCRIPTION OF MATERIAL
		2/3	1	0.0'-	Brown moist medium dense to dense fine
		12/21		2.0'	SAND and fine to coarse GRAVEL, trace
					silt
		21/26	2	3.0'-	
5.C		30/55		<u>5.0'</u> 5.0'-	5.0
		45/20	3		Gray moist very dense fine SAND, trace
<u> </u>		57		6.5'	silt, trace fine to medium gravel
		·			Refusal 7.0
10.0 -		• •	;		Bottom of Boring 7.0
					Note: Installed ground water observatio well to 7.0' on completion.
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wolffine

cepy) Ê TEST BORING LOG

PROJECT	-	g Training Station wk Power Corporati	
LOCATION	Oswego, New	York	
DATE STARTED	5/15/78	COMPLETED	5/15/78
GROUND WATER	Depth on com	pletion at 8.0'	
N= NO. OF BLOWS T	O DRIVE 2" SAMP	LER 6" W/140 LB. WEIG	HT FALLING :
C= NO. OF BLOWS TO	DRIVE	CASING 12" W/300 LB.	WEIGHT FALL

(the was cur

BORING MADE WITH HOLLOW STEM AUGER CASING

	UGER CASIN				
DE	SAMPLE DEPTH	SAMPLE NO	N.	C.	DEPTH
Brown moist	0.0'-	1	4/9		
SAND and SIL gravel	2.0'		7/6		
Braver	3.0'-	2	14/10		5.0
	5.01		17/50	!	5.0
	8.0'-	3	6/50-		WL
Gray wet ver silt, some f	8.7'		.2		10.0
Refusal					Ī
Bottom of Bo					r
Note: Insta					
well					
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New York State Department of Environmental Conservation 7481 Henry Clay Blvd., Liverpool, New York 13088 Region 7, Environmental Quality Office (315) 428-4514



Henry G. Williams Commissioner

April 9, 1986

Mr. Frank Grabowski Niagara Mohawk Power Corporation 300 Erie Blvd. West Syracuse, New York 13202

RE: SOIL SAMPLING AT NIAGARA MOHAWK'S TRAINING SCHOOL, OSWEGO (C)

Dear Mr. Grabowski:

Pursuant to our recent discussion, enclosed you will find copies of the analytical results of the soil samples collected at the Fire Training School on October 24, 1985. These soil samples were analyzed by the State Health Department Laboratory in Albany. The levels of detectibility are as indicated on the results sheet for sample point #4, which is our background standard, obtained at the Rice Creek Biological Field Station.

The other three sample points were located on the School grounds. Sample #1 was obtained just east of the transformer spray system at the SE corner of the grounds. Sample #2 was obtained alongside the training pit about eight inches below the surface. Sample #3 was obtained along the water level of the inside moat in the SW corner of the grounds.

As you can see, sample #2 showed some parameters, of the twelve dioxin and furon parameters analyzed, at levels greater than detectible. The information this Department has on dioxin is specific to the isomer 2, 3, 7, 8 -TCDD) (2,3,7,8,-Tetrachlorodibenzodioxin), for which an action level of 1.0ppb (nanogm/gm) is recommended. We are seeking a determination from the Health Department's Toxic Substances Assessment Group on the environmental and heath implications of the other isomers identified in our sampling. Once we have this information in hand, we will be contacting you to define the scope of study and/or remediation required at the NMFTS. In the interim, you may wish to resample at the training pit sampling location, keeping in mind that DEC's sample was obtained at a depth of about eight inches below existing grade.

Mr. Grabowski Page Two April 9, 1986

Should you wish to discuss this matter further, please feel free to contact me. Very truly yours,

Kathleen DelPrete Sr. Sanitary Engineer

Enc.

CC: Mr. Krichbaum Mr. Flocke Mr. Gross Mr. Rupert Collins, Oswego Co. Health Dept. Dr. Darrell Banks, M.D. Room 604

KDP:J

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r	.•	452 HER FORK STATE DEPARTMENT OF HEALT VADENDETH CENTER FOR LABORATORIES AND F			(12)
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		AGE 1 REBULTS OF EXAMINATION		FINAL	REPORT
		AMPLE ID: 54326 SAMPLE RECEIVED: 85/11/20.	i	CHARGE:	90.04
\sim	• 1	ROGRAM: 6307: DIV. SOLID & HAZARDOUS WASTE - D			3
				CODE: 3760	5
-	- 1		COUNTY:OS Z DIRECTI		6 7
-	1 1	ATITUDE Sample # (LONGITUDE: SCATION NOBBOIL- OF MIAGANA MORAWK FIRE TRAINING			
		FRODIETION SAND AND ORAVEL SURFACE			101
		EPORTING LAD: TOX: LAB FOR ORGANTER WIELD	TEMISTR		11
		ABI FAICERM: DIUSE (ETRACHEURUU)BEN2UDIOMININ	WOR FO	RANS IN SU	11L 13
	1 1	AMPLE TYPE: 600:SOIL, SAND []] IME OF BAMFLING: 85/11 13 11: 7 200	DATE	PRINTED: 86	
	13				17
		PARAMETER			18
	15		COMPLETE		1 P 20 21 27
	. 15	T55305 ELCT7, SHTHTFACHLORODIBENZODIOXIN T66733 TOTAL TETRACHLORODIBENZODIOXINS		NANOGR7G NANOGM/G	21
	17	TSEB33 2.0,7,8-TETEACHLORODIBENZOFURAN		NANOGM/G	23 24
	19	TTOTAL TETRACHLORODIBENZOFURANS		NANOGM7G	25
~	20		·		26
	21	FOLLONING PARAMETERS NOT PART OF TEST PAIT	ERN	·	27 20
	22	NALVSIS DIOX-FURAN OTHER DIOXINS AND FURANS			20
~	21		•		31
	2.5	PARAMETER	RESULT		33
	50	T11033 TOTAL PENTACHLORODIBENZOFURAN		NANOGM/G	34 35 34
	27	T20033 TOTAL HEXACHLORODIBENZOFURAN		NANDGM/G	30
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	00	T15333 TOTAL PENTACHLORODIBENZODIOXIN		NANDGH/G	36 40 41
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	32	T19003 TOTAL HEPTACHLORODIBENZODIOXIN		NANOGH/G	42
	32	T25033 TOTAL OCTACHLORODIBENZODIOXIN	< 0.4	NANDGM/G	44
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- -;	:	AGE 1		RESULTS OF EXAM			FINAL	REPORT
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	PACE :	RESULTS OF EXAMINATION		FINAL	REF
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	ROUNCE ID. Political suspivisión os	DRAINAGE BASIN:	GAZETTEER COUNTY. OS		į
6	LATITUDE Sample #3	LONGITUDE: ACKGROUND NIAGARA MUHAN	Z DIRECTI A FIRE TRAINI		
1		LAB FOR ORGANIC ANALYT			
• •	BAMELE IVER 600	TETRACHLORODIBENZOUTUX SOIL, SAND			
12	TIME OF SAMPLING: RBALL	13 11:	DATE	PRINTED: 86	5703
14		TCDD/TCDF ANALYSIS	RESULT COMPLETE		
· 1.6 1.7	T66733 TOTAL TETRACH	LORODIBENZODIOXINS	 0.07 0.07 	NANOGM7G NANOGM7G	
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10 21		ETERS NOT PART OF TEST	PATTERN		
	ANALYSIS. DIOX-FURAN (DTHER DICKINS AND FURANS		· · · · ·	
21	FARAMETER		RESULT		
25	TEODOG TOTAL HEXACHIL	DRODIBENZOFURAN	< 0.06	NANOGM/G Nanogm/g Nanogm/g	
20	TOF533 TOTAL HEFTALF T12033 TOTAL OCTACHL T15333 TOTAL PENTACH	DRODIBENZOFURAN	< 0.3	NANOGI1/G NANOGI1/G	
31	TIGEBS TOTAL HEXACILL	DRODIBENZODIOXIN	0.07	NANUGM/G	
21	T25023 TOTAL OCTACHLI		< 0.2	NANDGH/G	
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	LIVERFOOL, N.Y. IBC.				

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	;	PAGE 1		REBULTS OF	EXAMINATION		FINAL	REPORT
*	-	PROGRAM:		SAMPLE RE SOLID & HAZA	ARDOUS NAETE	- DEC_REGION	17	70. 0 2 3
		FOURCE ID: POLITICAL SU (LATITUDE: Sa	mble #4	LONGITUDE:		COUNTY: OS Z DIRECTI		5 6 7 8
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		AREST PATTERN BAMPLE TYPE	101 <u>0</u> 00	STETRACHEORC C:SOIL, SAND		INSTANE7OR FU		14
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MA tile

" Nini Fire Training School (4)

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

March 7, 1986

Ms. Kathleen DelPrete Sr. Sanitary Engineer New York State Department of Environmental Conservation 7481 Henry Clay Blvd. Liverpool, NY 13088

Re: Oswego Fire Training School Soil Sampling and Analysis

Dear Ms. DelPrete:

In accordance with your request of March 4, 1986 Niagara Mohawk submits a copy of the analytical results of the composite soil sample collected from the Fire Training School. Four soil samples were collected last fall and taken to O'Brien & Gere for compositing and analysis.

If you have any questions on this submittal, please contact the undersigned at (315) 428-6616.

Respectfully,

Frank & Grabouski 228 6616

F. J. Grabowski Environmental Analyst

FJG:dd

Enclosure

3/11/86 - 23 8, 4000 date, no everyses acceletite from the simples Decordice the on 10/24/66 Samples are at Dott dieb in Albany. \mathcal{L}



cc: T. J. Rooney/J. M. Toennies √F. J. Grabowski John Corcoran John Lynk

O'BRIEN 5 GERE

January 20, 1986

Mr. Frank L. Sciortino Niagara Mohawk Power Corporation 300 Erie Boulevard West Syracuse, New York 13201

> Re: Fire Training School Results

File: 1118.047

Dear Frank:

Enclosed, please find our Laboratory Data Report for the composite sample collected from the Fire Training School at Oswego in November of 1985. These results indicate the absence of chlorinated dibenzofurans and dibenzodioxins at an absolute limit of detection of ten parts per billion. In addition, we are 99 percent certain that these compounds are absent at a limit of detection of one part per billion. Because of the presence of interfering compounds of an unknown nature at a relatively high level, lower limits of detection could not be achieved. However, a lower value should not be necessary as one part per billion has been the targeted level for the cleanup of dioxin disposal sites and transformer fire residues.

The method of analysis was by gas chromatography/mass spectrometry using selective ion detection. EPA Region V Method was used for the analysis of dioxins. No analogous method exists for dibenzofurans; however, we used a modified procedure that has previously been accepted by the New York State Department of Health. Furthermore, we believe these results would withstand the review of the State Health Department. We would be happy to meet with representatives of any appropriate State agency to review these results should it be necessary.

In summary, we are pleased to report these findings and hope we may be of future assistance to Niagara Mohawk.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC

Edwin C. Tifft, Jr., Ph.D

Vice President

ECT:djb Enclosure:

O Brien & Gere Engineers, Inc. Box 4573, 1304 Buckley Poad, Syracuse, NY 53221 (1315) 461-4711 Blue Bell PA - Boston, MA - Landover, MD : New York, NY - St. Louis, MO (1White Plains, NY)





CLIENT	NIAGARA MOHAWK POWER CO	RPUKATION	JOB NO	1118.047.517
DESCRIPTION	Composite Soil Sample			
DATE COLLECTED	DATE REC'D	10-16-85	DATE ANALYZED	1-10-86
Сомр	OUNDS	Sample # 32342		
2,3,7,8-Tetra	chlorodibenzodioxin	<10.ug/kg		
2,3,7,8-Tetra	chlorodibenzofuran	<10.ug/kg		
Total (Tetra-	Octa)chlorodibenzodioxin	<10.ug/kg		
Total (Tetra-	Octa)chlorodibenzofuran	<10.ug/kg		
Methodology: Federal	Register — 40 CFR, Part 13	0ct.26,198	34 Units: mg// (p	n) unless otherwise :
Comments:			GRT.	ept-
O'Brien & Gere Eng	ineers, Inc. ckley Rd. / Syracuse, NY / 13221 /		Authorized:	1 6 1

Box 4873 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 451-4700

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100076

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

July 25, 1986

Mrs. Kathleen DelPrete Sr. Sanitary Engineer New York State Department of Environmental Conservation 7481 Henry Clay Blvd. Liverpool, NY 13088

MCHANK

Re: Soil Sampling at Niagara Mohawk's Fire Training School Oswego (c), Oswego County

Dear Mrs. DelPrete:

In response to your April 9, 1986 and May 20, 1986 correspondence, Niagara Mohawk obtained an additional sample from soil sampling location number 2 at the above cited facility. Sample location number 2 is adjacent to the training pit. The sample was taken from a 2 ft. by 2 ft. area at a depth of about 0 to 8 inches.

The soil sample was analyzed by O'Brien and Gere for dioxins and dibenzofurans. The EPA Region V method was used for the analysis of dioxins. No analogous method exists for dibenzofurans; however, a modified procedure which has been accepted by the New York State Department of Health was used. A copy of the analytical results for this sample is attached. The results indicate the absence of chlorinated dibenzofurans and dibenzodioxins at the detection limits indicated.

Based on the analytical results of this latest sampling and the October 1985 sampling at the Oswego Fire Training School, it is Niagara Mohawk's opinion that dibenzofurans and dibenzodioxins are not present at levels of detectability based on accepted scientific methodology. Therefore, it is Niagara Mohawk's position that no further investigative studies and/or remediation of this site should be required.

If you have any questions on this submittal, please contact the undersigned at (315) 428-6616.

Respectfully,

Frank & Arabowski

Frank J. Grabowski Environmental Analyst

FJG:dd

attachment

NIAGARA MOHAWK POW					
				OB NC	1118.047.51
DESCRIPTION OSWEGO Fir	e Training Sch	001			
DATE COLLECTED	DATE REC'D	5-13-8	6	_DATE ANALYZE	б <u>6-27-86</u>
	S. 8	ample # 5870*	Sample # A0623	Sample # A0586*	
			Matrix Spike	Method Blank	
		(ppt)	%Recovery	(ppt)	
TOTAL				\$20E	
Totra ICDD		500	100.	<20.	
Tetra TCDF Penta TCDD		1. 花田安田	100.	(20)	
Penta TCDF			98.	<20.	
Hexa JCDD			56.	×405	
Hexa TCDF		The second second	55.	<40.	
Hepta JCDD				<100-	
Hepta TCDF			37.	<100.	
Octa TOD				£00-	
Octa TCDF			_	<400.	
2-31-74-8=1GDD			1.2.	the second	
2,3,7,8-TCDF			-	-	
	and the second sec			HT SALES	
Accuracy ³⁷ Cl ₄ -2,3,7,	8-TCDD	98.6%	125.%	98.3%	
STRATON IS C S. J. B		Rest		TOTE AS	
*ppt = parts per_tri	llion_				

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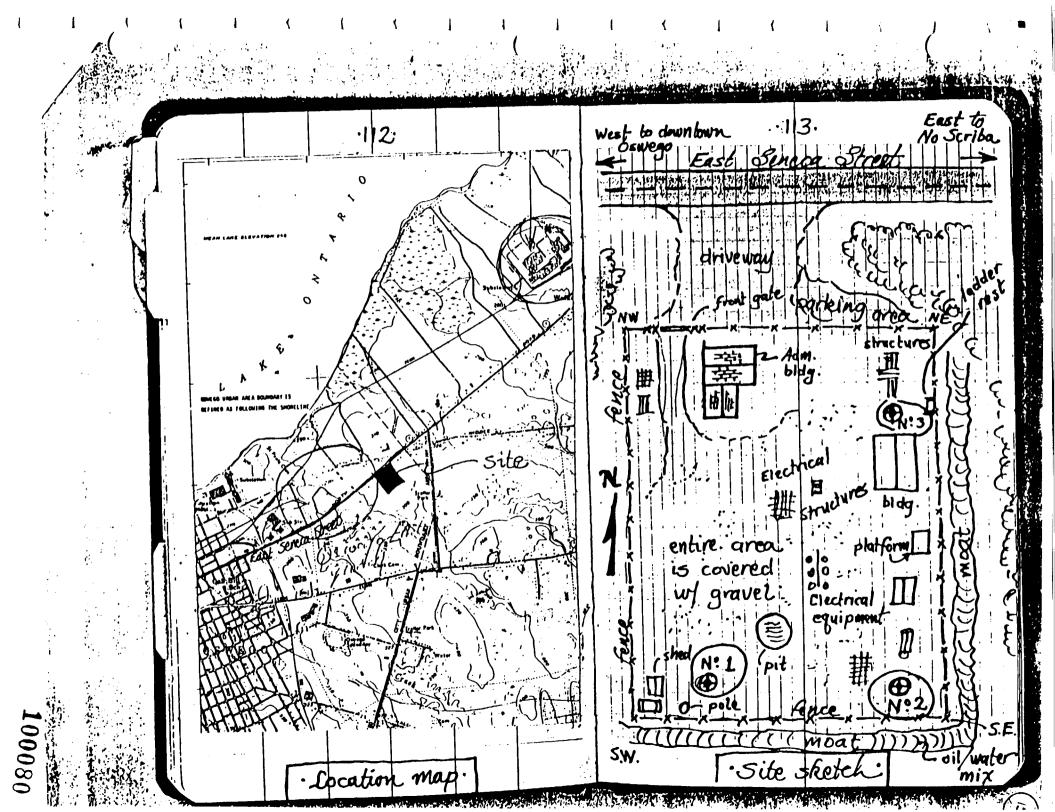
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OBG Laboratories, Inc. Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

100078

Date: July 9, 1986

Niagara- Mohan R. Fire Training School Site ID Nº 738030 East Seneca Street Ni Mo Fire Oswego (city) Oswego County Training School 738030 -3 soil samples are Field Notes to be taken a this site. To be analysed for VOA's, BNA's EPCB's. June 1988 Sampling is schuduled for Wednesday, June 15, 1988. Niagara Mohank Fire Training School Site ID Nº: 738030 Sampling analysis is to be done WA VERSAR Tab in Soringfield VA Contacted Jay Bernanding FVERSAR on June 10 - C placed on order for the bottles. Bottles arrived on G-14. appeared to be in good shape. 0007



- Arrived on side on Weetmerday-June 15# 1988@ 3:15 Franzie 3:30 a Ucather conditions time of Very hot (95°) Slight breeze -sampling ADDER Present for TM Koc Brian Roger Kevin Kelhy 4-5 slightly stained soil? Above background on photologe - which Lynks - Director of the Fire Training School from the Ni Mo Fire fraining school otovad Probe in sample showed much 1000 He accompanied us all the samplink locations .0008 Sample time: about 3:40. . . .

6 12-12 redlish mal som 03 brung ting followed set a doub soil with a black stained layer at a distilled water ringe. Photovac: slightly higher The samples wore put into the than background._ coolers & iced down. Evidence Tape was put on the lide of both) Goural notes: of & focked in the back of The whole Det (estimated C 2/2-Bacres in size) was cavered truck cap overnight w hard packed grave I. It was mus hard to dig in. In all of There was no evidence of tampening in the samples vin hard to dig in. the 3 location Where samply were next day 6 Samplas were delivered taken there was a notable dark stained layer (looked to be oil ed X-Press of Fice in Lathon about 3/2 + 9" below the surface. on 6-16 @ about 8 P.W. All withe samples & the lid There was a motable odor of rolatiles over the entire site. tras covered in evidence type It was reminiscent of old motor I contacted Jay Bernardin All sampling was done @ June 19th The informed my Ievel C All samples taken by 707 that the sample's atrived areas The shore & 3. powels used m smoling were thorow arralon deconnex win to ON NEXT 4 conning aras done "

.119. .118. Sampl Sample Pt. NiMo F.T.Ctr. Sample Pt. Nº 07 Sample Nº I Takin near the back S.W. corner of the property Sample Nº 2 Taken near the S.E. corner of the property... 100083 1.2 ALC: NOT THE OWNER OF THE OWNER O

·121. .120. Sample Pt. 03 Overview of the Fire Training School ... Sample pt. Nº 3 - taken about 100' south of the north-east corner of the property. 100084 Encl of Field Notes for the NiMo Fire training school. **\vec{v}**

7/13/89 - xc: Mr. Donald Storrier (Stearns & Wheler)

LABORATORIES, INC.

August 25, 1988

Mr. Frank Grabowski NIAGARA MOHAWK POWER CORPORATION 300 Erie Boulevard West Syracuse, NY 13202

Re: Lab Data Report

File: 1118.051.517

Dear Mr. Grabowski:

Please find enclosed the results of laboratory analysis on samples received 7-1-88.

If you have any questions concerning these results, please do not hesitate to contact us.

Very truly yours,

OBG LABORATORIES, INC.

David R. Hill Vice President

DRH/bpp

Enclosure

100085

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Sample #H12ALUMINUM16000.ARSENIC13.BERYLLIUM<5.CALCIUM16000.COBALT<5.IRON34000.MAGNESIUM2900.	1-88 DATE ANALYZED e #1 Site #2 Site #3 205 H1206 H1209 . 15000. 17000. . 10. 6.9
ATE COLLECTED 7-1-88 DATE RECD 7-1 Description Site Sample # H12 ALUMINUM 16000. ARSENIC 13. BERYLLIUM <s. CALCIUM 16000. COBALT <s. IRON 34000.</s. </s. 	e #1 Site #2 Site #3 205 H1206 H1209 . 15000. 17000. . 10. 6.9
Description Site Sample # H12 ALUMINUM 16000. ARSENIC 13. BERYLLIUM <s. CALCIUM 16000. COBALT <s. IRON 34000.</s. </s. 	e #1 Site #2 Site #3 205 H1206 H1209 . 15000. 17000. . 10. 6.9
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Sample #H12ALUMINUM16000.ARSENIC13.BERYLLIUM<5.	205 H1206 H1209 . 15000. 17000. . 10. 6.9
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BERYLLIUM <5. CALCIUM 16000. COBALT <5. IRON 34000.	
CALCIUM 16000. CIRCULU COBALT <5. IRON 34000. MAGNESIUM 2900.	
CALCIUM 16000. CHRONIU COBALT <5. IRON 34000. MAGNESIUM 2900.	
COBALT <5. IRON 34000.	
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IRON 34000. MAGNESIUM 2900.	
IRON 34000. AJU MAGNESIUM 2900.	
MAGNESIUM 2900.	
MAGNESIUM 2900.	
MERCURY <0.	
POTASSIUM 1500.	
SELEVIU	.5 <0.5 <0.5
SILVER 2.	.5 <0.5 <0.5 . 870. 1100.

Methodology: Federal Register - 40 CFR, Part 136, October 26, 1984

Comments:

OBG Laboratories, Inc. Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494 Units: mg/((ppm) unless otherwise noted

Authonzed: Deiter

Date: August 25, 1988



Laboratory Report

.17

CLIENT NIAGARA MOHAWK PO	OWER CORPORATI	ON		JOB I	NO. 1118.0	51,517
DESCRIPTIONOSWEDO, NY	- Fire Traj	ning Schoo	<u></u>			
UNITS: mg	<u>/kg wet weight</u>	<u>(except</u>	percent sol	ids)		
DATE COLLECTED 7-1-88	DATE REC'D	7-1-88		DATE ANALY	ZED	
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Comments:

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OBG Laboratories, Inc. Box 4942 / 1304 Buckley Rd. / Syracuse, NY / 13221 / (315) 457-1494

DRILL Authorized: _

Date: August 25, 1988

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Lab !	Name: ORG LA	SURATURIES, Inc	Contract:	İ	Sirel
Lab (Code:	Case No.:	SAS No.:	SDG No.	:
		· ·			
Matri	ix: (soil/wate	T) <u>Soic</u>	Lab :	Sample ID: <u> </u>	41205
Sampl	le wt/vol:	(g/\$\		File ID:	Site 1
Level	: (low/med)	Low	Date	Received:	7-1-88
ł Moi	sture: not dec	:. <u> </u>	Date	Analyzed:	7-F-FF
Colum	n: (pack/cap)	<u></u>	Dilut	ion Factor:	5
•	CAS NO.	COMPOUND	CONCENTRATI (Ug/L or Ug	ON UNITS: 5/Rg) <u>uq/kg</u>	Q
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	74-83-9	Bromomethane	·····	1	
		Vinyl Chlori		1	
l		Chloroethane		1	
ļ		Methylene Ch	loride	1pr	
ļ	67-54-1			94	
1		Carbon Disul		125	
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1		1,2-Dichloro	ethene (total)	1	!
1		Chloroforz		I	
1	107-06-2	1,2-Dichlors	ethane	1	
		2-Butanone		50	
1	71-55-6	1,1,1-Tricn1	orcetlane	25	
1	56-23-5	Carbon Tetra	chloride	121	
1	108-05-4	Vinyl Acetat	8	<u> </u>	
1	75-27-4	Bromodichlor	omethane	125	!
1	78-87-5	1,2-Dichloro	propane	I	
· · · 1	10061-01-5	cis-1,3-Dich	loropropene	!	
1		Trichloroeth		I	
	124-43-1	Dibromochlor:	ошетлале	I	
T	79-00-5	1,1,2-Trichl	orcethane	l	!
1	71-43-2	Benzene			
1		trans-1,3-010	caloropropene		
1	75-25-2				
Í		4-Methyl-2-26	entanone	V	
Ì	591-78-6			50	
i		Tetrachloroet	Liene	50	
i		1,1,2,2-Tetra		25	
i	108-38-3			/	
i		Chlorobenzene			
1		Ethylbenzene	· /		
	100-42-5				-;;
•		Xylene (total	<u>}</u>		-;;

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NC.

(r)

Lab Name: OBG LABULATOLICI, Inc.	Contract: Sire "2
Lab Code: Case No.:	SAS NO.: SDG NO.:
Matrix: (soil/water) <u>Seit</u>	Lab Sample ID: <u>11106</u>
Sample wt/vol:(g/mL)	Lab File ID:
Level: (low/med)	Data Received:F
* Moisture: not dec. 9	Date Analyzed:F_F
Jolumn: (pack/cap)	Dilution Factor:
CAS NO. COMPOUND	CONCENTRATION UNITS: (Ug/L of Ug/Kg) <u>ug/k</u> Q
74-87-3Chloromethane	e 50 4
74-33-93romomethane	
75-01-4Vinyl Chlorid	ie
75-00-3Chloroethane	
75-09-2Methylene Chl	oride
67-54-1Acatone	
75-15-0Carbon Disulf	lide 21
75-35-41,1-Dichloroe	thene
75-34-31,1-Dichlorpe	thane
540-59-01,2-Dichloroe	
67-66-3Chlorofora	
107-06-21,2-Dichloroe	
78-93-32-Butanone	
71-55-61,1,1-Trichlo	roethane 25
56-23-5Carbon Tetrac	bloride
108-05-4Vinyl Acetate	<u>رم</u>
75-27-4Bromodichloro	methane
78-87-51,2-Dichlorop	
10061-01-5cis-1,3-Dichle	
79-01-6Trichloroether	
124-43-1Dibromochlorom	
79-00-51,1,2-Trichlor	roethane
71-43-2Benzene	
10061-02-6trans-1,3-D1cs	loropropene
75-25-2Bromofora	
108-10-14-Methyl-2-Per	
591-78-52-Hexanone	ا ا دی ا
127-18-4Tetrachloroeth	
79-34-51,1,2,2-Tetrac	hloroethane 15
108-38-3Toluene	
108-90-7Chlorobenzene	
100-41-4Ethylbenzene	
100-42-5Styrene	
1330-20-7Xylene (total)	

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1A VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

17

Lab	Name:OG	BURATURICS JMC	_ Contract:	I	Site #3
طما	Code:	Case No.:	SAS No.:	SDG No	.:
Mate	rix: (soil/wate	27) <u>(016</u>		Sample ID: _	1-1209
Samp	ple wt/vol:	(g/ml)	a Lab :	File ID: _	
. Leve	al: (low/med)	<u></u>	Date	Received: _	7-1-18
\$ Ma	isture: not de	c. <u>9</u>	Date	Analyzed: _	7-8-88
Jolu	mn: (pack/cap) <u>pack</u>	Dilut	ion Factor:	
	CAS NO.	Compound	CONCENTRATI (ug/l or ug	ON UNITS: (/Xg) <u>as/m</u>	Q
	74-87-3	Chlorometha	.ne	<u> </u>	
•		Vinyl Chlor	18	· /	¦/
	75-00-3	Chlorsethan	£	•	╺╾╾╸╎╺╌┼╾╾╾╸╎
	75-09-2	Hethylene C	hloride	1 25	
	67-54-1	Acatone		5~	
	75-15-0	Carbon Disu	lfide	25	
	75-35-4	1,1-Dichlor	oethene		
	75-34-3	1,1-Dichlor	pethane		
	540-59-0	1,2-Dichlor:	cethene (total)	1	
U		Chlorofora_		1	
	107-06-2	1,2-Dichlor	cethane	1/	
	78-93-3	2-Butanone_		50	
	71-55-6	1,1,1-Trich	loroetnane	1	
	56-23-5	Carbon Tetra	achloride	25	
	108-05-4	Vinyl Acetat	.e	50	!!
	75-27-4	Bromodichlor	comethane	2<	!!
		1,2-Dichlore	propane	<i>+</i>	!!
	1 10001-01-5	cis-1,3-Dich	Loropropene		!!
•		Trichloroeth			!_ <u>_</u> !
	1 79-00-5	Dibromochlor			
	71-43-2	1,1,2-Trichl			
~ ·		trans-1,3-01		<u>i</u>	━━╎╺┿╾╾╾╎
	75-25-2		earorabrabeue		
1		4-Methyl-2-P			;;
	591-78-6	2-Hexanone	encanone	<u></u>	
1		Tetrachloroe	These		
1	79-34-5	1,1,2,2-Tet:	achloraethane	i	━╎━┼━━╎
1	108-38-3	Toluene			
1		Chlorobenzen	e		
1	100-41-4	Ethylbenzene			
1	100-42-5	Styrene			
	1330-20-7	Xylene (tota)			
i	······································		· · · · · · · · · · · · · · · · · · ·		
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1/37 Rev.

של אינגע בסוגנאני אינגער אינגער אינגעראין אינגעראין אינגעראין אינגעראין אינגעראינגעראינגעראין אינגעראינגעראין אינ EPA SAMPLE NO. Les Name: ORG Laboraturies Inc. <u>Ste 1</u> Contract: Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: Matrix: (soil/vater) Soil Lab Sample ID: 41205 30.0 (g/=1) G Sample vt/vol: Lab File ID: (low/med) low Lavel: Dete Received: July 1 1988 * Maisture: not dec. 7 Date Detacted: July 3.1938 dec SoF. Date Analyzed: July 26.1459 (SepF/Cont/Sonc) Detraction: (Z/AD_N GPC Cleanup: pH:____ . Dilution Factor: .01 CONCERNERACEON UNCERS: CLS NO. CORPORED (ug/L or ug/Lg) Ua/Ka. Q 329-84-6--alpha-SEC <u>400</u>. 329-85-7--beta-BEC . Ē ; 329-86-8--del 32-50C ī 58-89-9--game-BEC (Lindene) Ē 76-4-8--Septechlor Т -11deria 309-00-2--E -Septechiar epocide 1024-57-3-Ł -Indosalina I 353-38-8-× 60-57-1--Dieldrin 1600 -4,4'-002 72-55-9 73-29-0 -Endrin 33233-65-9 Endomiltin II 1 72-54-8--4,4'-000 1031-07-0 Endomitin suitate 50-29-3--4,4'-DDT Y Sectorychlor 72-43-5-2000 -Indria batone 53454-70-5-1600 -sinha-Cilordane 5103-71-9-400 I. 5103-74-2-Game-Cilordane مل 8001-35-2-..... 16000 ¥ 12674-11-2--1roclar-1016 ÷ -iroclar-1771 11104-28-2ŧ 11142-16-5--Aroclar-1777 * 53469-21-9--Aroclar-1242 4 12672-29-6--Aroclar-1248 4 11097-69-1--1-200100-1254 4 11096-62-5--Aroclar-1260 4

* The total PCB is 880 ug/kg and the

predominant aroclor is 1249.

FORM I PIST

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ID FPA SUBJIC NO. PRESIDENT OR DRAYES ANALYSIS DRAY SETT			.17
Lab Code:	D PESTICIDE ORDAICS MOLITS		PA SAMPLE NO
Hattrix: (soil/veter) <u>50</u> Hattrix: (soil/veter) <u>50</u> Sample vt/vol: <u>300</u> (g/aL) <u>6</u> Lab Sample D: <u>U1206</u> Sample vt/vol: <u>300</u> (g/aL) <u>6</u> Lab File D: Lavel: (low/mad) <u>dut</u> Date Bacaived: <u>U1206</u> t Moisture: not dec. <u>9</u> dec Date Banayred: <u>U126099</u> Detraction: (SepF/Cont/Sonc) <u>SepF</u> Date Banayred: <u>U126099</u> GPC Clearmy: (T/N) <u>N</u> pH: Dilution Factor: <u>.001</u> CDFCTFDLTCH URCTS: CLS ND. CDEPCURD (bg/L or bg/Eg) <u>UQ/KQ</u> . C <u>132-66-5</u> delta-BHC <u>132-66-5</u> delta-BHC <u>1321-76-5</u> Bhdesultas <u>12</u> <u>4</u> <u>4</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>4</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>502-7</u>	Les Nese: ORG Laboraturies Inc. a		+- 2
Hattrix: (soil/veter) <u>50</u> Hattrix: (soil/veter) <u>50</u> Sample vt/vol: <u>300</u> (g/aL) <u>6</u> Lab Sample D: <u>U1206</u> Sample vt/vol: <u>300</u> (g/aL) <u>6</u> Lab File D: Lavel: (low/mad) <u>dut</u> Date Bacaived: <u>U1206</u> t Moisture: not dec. <u>9</u> dec Date Banayred: <u>U126099</u> Detraction: (SepF/Cont/Sonc) <u>SepF</u> Date Banayred: <u>U126099</u> GPC Clearmy: (T/N) <u>N</u> pH: Dilution Factor: <u>.001</u> CDFCTFDLTCH URCTS: CLS ND. CDEPCURD (bg/L or bg/Eg) <u>UQ/KQ</u> . C <u>132-66-5</u> delta-BHC <u>132-66-5</u> delta-BHC <u>1321-76-5</u> Bhdesultas <u>12</u> <u>4</u> <u>4</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>4</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>502-71-5</u> Bhdesultas <u>12</u> <u>502-7</u>	Lab Code: Case No.: S	DS No.: SDG No	
Sample vr/vol: 30.0 (g/aL) 6 Lab File D: Level: (low/med) but Date Received: 1/1/1/933 * Moisture: not dec. 9 dec. Date Received: 1/1/1/933 * Moisture: not dec. 9 dec. Date Received: 1/1/1/933 * Moisture: not dec. 9 dec. Date Received: 1/1/1/933 * Moisture: not dec. 9 dec. Date Received: 1/1/26/83 CPC clearmp: (T/N) N pE: Dilution Rector: 001 CDS NO. CDEFOUND (mg/L or mg/Lg) mg/Kg. Q Q 7139-64-6			
Level: (100/3ed) <u>bui</u> tevel: (100/3ed) <u>bui</u> t Moisture: not dec. <u>4</u> dec. <u>Date Derevise: <u>100</u>, 91997 Detraction: (SepF/Cont/Sonc) <u>SepF</u> Date Malyzet: <u>100, 26,1939</u> GPC Clearmy: (1/8) <u>N</u> <u>pH</u> <u>Dilution Factor: <u>001</u> CONTRELATION UNITS: CLS ND. <u>COMPOUND</u> (UNCL or UNCL) <u>000</u> <u>1319-64-6</u> <u>delta-BBC</u> <u>3000</u> <u>U</u> <u>319-64-6</u> <u>Deta-BBC</u> <u>3000</u> <u>U</u> <u>309-00-2</u> <u>11drin</u> <u>1014-5BC</u> <u>4000</u> <u>U</u> <u>309-00-2</u> <u>11drin</u> <u>1014-5BC</u> <u>1000</u> <u>1014-57-3</u> <u>Bertachlor eponds</u> <u>1014-57-3</u> <u>Bertachlor <u>1016</u> <u>1000</u> <u>10000</u> <u>1000</u> <u>1000</u> <u>1000</u> <u>1000</u> <u>1000</u> <u>1000</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>		•	41206
* Moisture: not dec. <u>9</u> dec Date Date Datected: <u>10099</u> Dataction: (SepP/Cont/Sonc) <u>SepE</u> Date Analyzed: <u>100999</u> GPC Clearmy: (T/N) <u>N</u> <u>pH</u> : Dilution Factor: <u>001</u> <u>CLS NO.</u> <u>COMPOUND</u> (ug/L or ug/Lg) <u>ug/Lg.</u> Q <u>719-64-6</u> <u>elpha-BHC</u> <u> docs</u> <u>U</u> <u>719-64-6</u> <u>elpha-BHC</u> <u> docs</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>epoclde</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>U</u> <u>72-63-6</u> <u>Enderelian</u> <u>U</u> <u>72-64-9</u> <u>docs</u> <u>15m</u> <u>T</u> <u>72-64-9</u> <u>docs</u> <u>15m</u> <u>T</u> <u>1011-07-9</u> <u>Enderelian</u> <u>Ularta</u> <u>docs</u>	Sample vt/vol: <u>30.0 (g/aL) G</u>	Lab File ID:	
* Moisture: not dec. <u>9</u> dec Date Date Datected: <u>10099</u> Dataction: (SepP/Cont/Sonc) <u>SepE</u> Date Analyzed: <u>100999</u> GPC Clearmy: (T/N) <u>N</u> <u>pH</u> : Dilution Factor: <u>001</u> <u>CLS NO.</u> <u>COMPOUND</u> (ug/L or ug/Lg) <u>ug/Lg.</u> Q <u>719-64-6</u> <u>elpha-BHC</u> <u> docs</u> <u>U</u> <u>719-64-6</u> <u>elpha-BHC</u> <u> docs</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>epoclde</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>U</u> <u>72-63-6</u> <u>Esptachlor</u> <u>U</u> <u>72-63-6</u> <u>Enderelian</u> <u>U</u> <u>72-64-9</u> <u>docs</u> <u>15m</u> <u>T</u> <u>72-64-9</u> <u>docs</u> <u>15m</u> <u>T</u> <u>1011-07-9</u> <u>Enderelian</u> <u>Ularta</u> <u>docs</u>	Level: (low/med) low	Date Received:	1.11920
Detrection: (SepF/Cont/Sonc) SenF Dete inalyzed: July 26,1459 GPC Clearmy: (I/N) N pH: Dilution Factor: .001 CLEARNO: CLEARNO: CLEARNO: CLEARNO: CLEARNO: CLEARNO: CLEARNO: CLEARNO:	· •	:	
GPC Clearmy: (Z/R) <u>N</u> pH: Dilution Pactor:	* BOLSTER: DOT dec. 4 dec.	Date Dittacted:	1 9 1999
GPC Clearmy: (Z/R) <u>N</u> pH: Dilution Pactor:	Extraction: (Sep?/Cont/Sonc) SenF	Date Analyzed: Ju	1,26,1999
CLS NO. CIMPOUND CIMPOUND <th< td=""><td></td><td></td><td></td></th<>			
CAS ND. CEMPOUND (Eg/L or Eg/Lg) 12g/Lg. 2 719-64-6		. Dilution Factor:	
CAS ND. CEMPOUND (Eg/L or Eg/Lg) 12g/Lg. 2 719-64-6			
319-64-6 elpha-SEC 3000 4 319-65-7 beta-SEC	CLS NO. CERPOURD		Q
139-65-7 beta-BRC 319-66-8 delta-BRC 58-69-9 genera-BRC 76-44-4 Septachlor 309-00-2 Aldrin 1024-57-3 Septachlor eputide 959-98-8 Didentita 959-98-8 Didentita 959-98-9 Didentita 1024-57-3 Septachlor eputide 959-98-8 Didentita 959-98-9 Didentita 950-99-3 A.4'-DDT 950-29-3 Didentita 950-29-3 Didentita 950000 I <			
139-65-7 beta-BRC 319-66-8 delta-BRC 58-69-9 genera-BRC 76-44-4 Septachlor 309-00-2 Aldrin 1024-57-3 Septachlor eputide 959-98-8 Didentita 959-98-8 Didentita 959-98-9 Didentita 1024-57-3 Septachlor eputide 959-98-8 Didentita 959-98-9 Didentita 950-99-3 A.4'-DDT 950-29-3 Didentita 950-29-3 Didentita 950000 I <	329-84-6	am	
58-83-9 Guess-ERC (_indense)			
76-44-8 Septechlor 309-00-2 Aldrin 1024-57-3 Septechlor eporties 959-86-8 Endorin I 959-7-1 Dislotin I 60-57-1 Dislotin I 72-13-2 A.4'-DOR 72-13-2 A.4'-DOR 72-13-2 Endorin 72-13-2 Endorin 72-13-2 Endorin 72-13-2 Endorin 72-13-3 Endorin 72-14-4 A'-DOR 1031-67-6 Endorin 1031-67-6 Endorin State 1031-67-6 Endorin State 1031-67-6 Endorin State 1031-67-7 Sethoxychlor 1031-67-7 Sethoxychlor 1031-71-9 Sethoxychlor 1031-71-9 Sethoxychlor 103-71-9 Sethoxychlor 1031-71-9 Sethoxychlor 1031-71-9 Sethoxychlor 1001-35-2 Torin ketons 1001-35-2 Torin ketons 1001-35-2 Torin ketons 1104-28-2 Aroclor-1026 1	319-86-8del =		╼╎╍╍┿╍╍╎
309-00-2 Aldrin 1024-57-3 Septechlor eporte 959-38-6 Endesultan I 959-38-6 Endesultan I 972-35-9 4,4'-DDT 72-35-9 4,4'-DDT 72-35-9 4,4'-DDT 72-35-9 4,4'-DDT 72-35-9 1.4.4'-DDT 72-35-9 4,4'-DDD 1031-07-6 Endesultan II 72-35-9 4,4'-DDD 1031-07-6 Endesultan sultate 1031-07-7 Endesultan sultate 1031-07-7 Endesultan sultate 1031-70-7 State 1031-71-2 State 1030-71-2 State 1030-71-2 State 1001-35-2 Toxapbase 1001-35-2 Toxapbase 1207-25-2 Aroclor-1222 1207-25-2 Aroclor-1232 12104-25-2 A	58-89-9	B)	╼╎╼╼╤╼╼╎
1024-57-3 September	76-44-8Beptachlor		
953-98-0 Endosaliza I			
60-57-1 Dialdrin 16000 72-13-2 4,4'-DDE 1 72-28-6 Enderslin 1 72-34-6 4,4'-DDE 1 72-54-6 4,4'-DDE 1 72-54-6 4,4'-DDE 1 1031-07-6 Endersulian II 1 1031-07-6 Endersulian Stifate 1 1031-07-5 Entrin kstone 160000 1030-71-7 Alpha-Chlordane 160000 1030-71-7 Alpha-Chlordane 160000 1030-71-2 States 1000000 1001-35-2 Toxaphene 16000000 1001-35-2 Aroclor-1016 1 1104-28-2 Aroclor-1221 1 11104-28-2 Aroclor-1222 1 1104-28-21			
72-13-9 4,4'-DDE 72-20-0 Indrin 72-20-0 Indrin 72-30-0 Indrin 72-54-0 4,4'-DDD 1031-07-0 Dosultan sultare 1031-07-0 Dosultan sultare 1031-07-0 Dosultan sultare 1031-07-0 Dosultan sultare 1031-07-0 Sultare 1031-07-0 V 1031-07-0 Sultare 1031-07-0 Sultare 1031-07-0 Sultare 1031-07-0 Sultare 1031-71-7 Sultare 1010-71-7 Sultare 1100-71-7 Sultare 1100-7-69-1 Sultare			
72-28-**********************************		1_16000	
33213-63-3 Endosultan II			-!!
72-54-8 4,4'-000 1031-07-4 Indostilization stilization 50-29-3 4,4'-000 72-43-5 Hethorycalor 5103-71-9 Lipha-Chloriane 5103-74-2 James Chloriane 5103-74-2 James Chloriane 5103-74-2 James Chloriane 8001-35-2 Tumpbene 12674-11-2 Aroclor-1016 12104-28-2 Aroclor-1221 12142-16-5 Aroclor-12732 53469-21-9 Aroclor-1242 12672-29-6 Aroclor-1248 121097-69-1 Aroclor-1254		!	= {
1031-07-0 Indestilian sulfate			• {
50-29-3			
72-43-5 Hethorychlar 40000 1 53494-70-5 Intrin ketome 16000 1 5103-71-9 elpha-Chlardane 40000 1 5103-74-2 game-Chlardane 90000 1 5103-74-2 game-Chlardane 90000 1 5103-74-2 game-Chlardane 90000 1 5103-74-2 game-Chlardane 90000 1 8001-35-2 Turaphene 90000 1 12674-11-2 Aroclar-1016 1 1 12104-28-2 Aroclar-1222 1 1 12142-16-5 Aroclar-1222 1 1 53469-21-5 Aroclar-1242 1 1 12672-29-6 Aroclar-1248 1 1 12057-69-1 Aroclar-1254 1 1	1 50=29=3		⋗ <mark>╎╼╾╤</mark> ╼╼╾╎
53494-70-5 Intrin betone 1600 5103-71-9 elpha-Chlordane 90000 5103-74-2 game-Chlordane 90000 8001-35-2 Tomphene 1000 12674-11-2 Aroclor-1016 1000 12104-28-2 Aroclor-1222 1000 12141-16-5 Aroclor-1222 1000 122672-29-6 Aroclor-1242 1000 12097-69-1 Aroclor-1254 1000	72-43-5Hethorychlor		•
5103-71-9 elpha-Chlordane \$0000 5103-74-2 game-Chlordane \$0000 8001-35-2 functione \$0000 12674-11-2 incolor-1016 i 12674-11-2 incolor-1016 i 12104-28-2 incolor-1222 i 12141-16-5 incolor-1222 i 53469-21-5 incolor-1242 i 12672-25-6 incolor-1248 i 11057-69-1 incolor-1254 i	53454-70-5		· · · · · · · · · · · · · · · · · · ·
5103-74-2 Gines-Chlordens 3000 8001-35-2 Toraphens 1(2000) 12674-11-2 Aroclor-1016 12104-25-2 Aroclor-1022 12141-16-5 Aroclor-1222 53469-21-5 Aroclor-1242 12672-25-6 Aroclor-1248 11057-69-1 Aroclor-1254	5103-71-9elpha-Cilordane		
\$001-35-2 1000000000000000000000000000000000000	5103-74-2	دوج ويستجيب بالكناد الكتاب المكنة • جوج مجر المحد التكنيب	i
11104-28-2			1-1/1
11141-16-5			
53469-21-9			ا <u>ــــــــــــــــــــــــــــــــــــ</u>
22672-29-6			<u> </u>
1 11097-69-1			<u> </u>
	/		!!

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* The total PCB is 14,000 ug/kg and the predominant aroclor is 1249

FORM I PIST

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DO		EPA SAMPLE NO.
Lab Name: OAG Loboratories Inc Contract:	I	5:+ e 3
Lab Code: Case No.: SAS No.: _	א 5DG א	o.:
Matrix: (soil/vater) 501 La	b Sample 20:	41200
Sample ve/vol: <u>30.0 (g/al) g/</u> La	b File ID:	
Level: (low/mod) low De	te Received:	I.I. i 1999
* Moisture: not dec dec De	te Ettracted:	July 8, 1998
Extraction: (SepF/Cont/Sonc) SoF Det	te Analyzed:	July 26,1999
GPC Cleanup: (1/2) N pH: Dil	lution Pactor:	1.0
	UTON UNITS: Ug/Ig) us /kar	. e
319-84-6alpha-BEC	8.0	<u> u </u>
319-65-7	•	
319-86-8delta-SEC		!
SS-89-9	!	!!
76-44-8Beptachlor		!
309-00-2 <u>114rin</u>		!
1024-57-3Beptachlor eponde		!!
959-98-8-8-Indosalian I	¥	!!
60-57-1Dieldrin		╺╾╸╎╼╼┿╼╾╸╎
72-53-5	╺╾╴┊╼╼╼╌┥╼╼╌╌╸	╺╾╸╎╼╾┿╼╾╸╎
72-20-8Endrin		
33213-65-9Endosultan 11		──
72-54-8		
1031-07-0-Endosultan sultate		┉┉╎╺┉┿┉┉╸╎
50-29-3	\$0.0	
72-43-5Kethorychlar		
53494-70-5	40.0	
5103-71-9elpha-Cilordane		╺╾╴╎╺╼╤╼╼╾╎
5103-74-2gamme Chlordane		═╼╎═╧══╎
8001-35-2		╺╾╸╎╺╍╍┾╍╍╼╴╎
12674-11-2	<u>*</u> 20	╺╾╴╎╺╾┿╼╼╸╎
1:104-28-2		╺╾╴╎╺╾┿╼╼╼╴╎
11141-16-5Aroclar-1232	!	╺╼╞╼╧╧
53469-21-9		
12672-29-6		
11097-69-1	-1	
11096-62-5	<u></u>	

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FORM I PEST

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Site +1 Lab Name: OBG LABORATORIES, INC. Contract: Lab Code: _____ Case No.: ____ SAS No.: ____ SDG No.: Matrix: (soil/water) you Lab Sample ID: _///201 Sample wt/vol: <u>_______(g/ml)_</u>e____ Lab File ID: Level: (low/med) سامل Date Received: 7-/-58 * Moisture: not dec. ____ dec. _7 Date Extracted: 7-7-FF Extraction: (SepF/Cont/Sonc) Date Analyzed: <u>P-4</u>-FF TPC Cleanup: (Y/N) N Dilution Factor: 33 pE:____ CONCENTRATION UNITS: (ug/L or ug/Kg) ug/kg CAS NO. COMPOUND Q | 108-95-2----Phenol 330 111-44-4----bis(2-Chloroethyl)ether 95-57-8----2-Chlorophenol 541-73-1-----1,3-Dichlorobenzene 106-46-7-----1,4-Dichlorobenzene 100-51-6----Benzyl alcohol 95-50-1------1_2-Dichlornbenzene 95-48-7----2-Methylphenol | 108-60-1----bis(2-Chloroisopropyl)ether_! | 106-44-5----4-Methylphenol 621-64-7----N-Nitroso-di-n-propylamine 67-72-1----Hexachloroethane 98-95-3-----Nitrobenzene 78-59-1----Isophorone 88-75-5-----2-Nitrophenol - i V 105-67-9----2,4-Dimethylphenol 1 65-85-0----Benzoic acid_ 1600 111-91-1----bis(2-Chloroethory)methane 330 120-83-2----2,4-Dichlorophenol 120-82-1----1,2,4-Trichlorobenzene Ĩ 91-20-3----Naphthalene 1 106-47-8-----4-Chloroaniline 87-68-3-----Hexachlorobutadiene 59-50-7-----4-Chloro-3-methylphenol 91-57-6----2-Methylnaphthalene 1 77-47-4-----Hexachlorocyclopentadiene 1 88-06-2----2,4,6-Trichlorophenol V 95-95-4-----2,4,5-Trichlorophenol_ 1630 91-58-7----2-Chloronaphthalene 370 88-74-4----2-Nitroaniline 1600 131-11-3----Dimethylphthalate 230 208-96-8-----Acenaphthylene 606-20-2-----2,6-Dinitrotoluene

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EPA SAMPLE NO.

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56-55-3-

218-01-9-

117-81-7--117-84-0---

207-08-9---

50-32-8----

53-70-3--

191-24-2-

2

193-39-5----

	LATILE ORGANICS ANALYS	IS DATA SHEET	EPA SAMPLE NO.
Lab Name: OBG L	ABORATORIES, INC. Co	ontract:	Sire # 1
Lab Code:	Case No.: S	3AS No.: SDG	No.:
Matrix: (soil/wat	ez) sui	Lab Sample ID:	H1205
Sample wt/vol:	30 (g/mL) <u>q</u>	Lab File ID:	
Level: (low/med		Date Received:	7-1-FS
	ec dec?		
	F/Cont/Sonc)	Date Analyzed:	
_			_
GPC Cleanup: (Y,	/N)_/pf:	Dilution Factor	r: <u> </u>
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
		1	1 1
	3-Nitroaniline	(L) >	<u> </u>
	Acenaphthene	<u>ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا ا </u>	<u>_</u>
83-32-9	Acenaphthene	330	
83-32-9		330	
83-32-9 51-28-5 100-02-7	Acenaphthene	330	
83-32-9 51-28-5 100-02-7 132-64-9	Acenaphthene 2,4-Dinitrophenol 4-Nitrophenol Dibenzofuran		
83-32-9 51-28-5 100-02-7 132-64-9 121-14-2	Acenaphthene 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen		
83-32-9 51-28-5 100-02-7 132-64-9 121-14-2 84-56-2	Acenaphthene 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen 2,4-Dinitrotoluen		
83-32-9 51-28-5 122-64-9 121-14-2 84-66-2 7005-72-3	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen Diethylphthalate 4-Chlorophenyl-ph		
83-32-9 51-28-5 100-02-7 122-64-9 121-14-2 84-66-2 7005-72-3	Acenaphthene 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen Diethylphthalate Diethylphthalate Fluorene		
83-32-9 51-28-5 100-02-7 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen Diethylphthalate fluorene 	enyletner_	
83-32-9 51-28-5 100-02-7 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran Diethylphthalate Diethylphthalate Fluorene 4-Nitroaniline 4,6-Dinitro-2-met		
83-32-9 51-28-5 100-02-7 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6	Acenaphthene 2,4-Dinitrophenol 	130 130	
83-32-9 51-28-5 100-02-7 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6 101-55-3	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen 2,4-Dinitrotoluen 2,4-Dinitrotoluen 2,4-Dinitrotoluen 2,4-Dinitrotoluen 4-Nitrosniline 4,6-Dinitro-2-met 4,6-Dinitro-2-met 4-Bromophenyl-phe	330	
83-32-9 51-28-5 100-02-7 122-64-9 84-66-2 84-66-2 7005-72-3 -86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 138-74-1	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen 2,4-Dinitrotoluen Diethylphthalate 	333	
83-32-9 51-28-5 100-02-7 122-64-9 84-66-2 7005-72-3 86-73-7 100-01-6 534-52-1 86-30-6 101-55-3 138-74-1 87-86-5	Acenaphthene 2,4-Dinitrophenol 2,4-Dinitrophenol Dibenzofuran 2,4-Dinitrotoluen 2,4-Dinitrotoluen Diethylphthalate 	333	
83-32-9 51-28-5 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6 101-55-3 13-74-1 87-86-5 85-01-8	Acenaphthene 2,4-Dinitrophenol Dibenzofuran Dibenzofuran 2,4-Dinitrotoluen Diethylphthalate 	333	
83-32-9 51-28-5 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6 101-55-3 128-74-1 87-86-5 85-01-8 120-12-7	Acenaphthene 2,4-Dinitrophenol Dibenzofuran Dibenzofuran 2,4-Dinitrotoluen Diethylphthalate 	333	
83-32-9 51-28-5 122-64-9 121-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6 101-55-3 128-74-1 87-86-5 85-01-8 120-12-7 84-74-2	Acenaphthene 2,4-Dinitrophenol Dibenzofuran Dibenzofuran 	333	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Acenaphthene 2,4-Dinitrophenol Dibenzofuran 	333	
83-32-9 51-28-5 122-64-9 122-14-2 84-66-2 7005-72-3 100-01-6 534-52-1 86-30-6 101-55-3 128-74-1 87-86-5 85-01-8 120-12-7 84-74-2 129-00-0	Acenaphthene 2,4-Dinitrophenol Dibenzofuran 	330	

FORM I SV-2

-Senzo(a) anthracene

--Di-n-octylphthalate

---- Benzo (k) fluoranthene

----Indeno(1,2,3-cd)pyrene

----Benzo(g,h,i)perylene

-Benzo(a)pyrene_

-----Oibenz(a,h)anthracene

-bis(2-Ethylhexyl)phthalate

-Chrysene

(1) - Cannot be separated ifom Dipnenylamine

205-99-2----Benzo(b) fluoranthene

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	SEMIVOLAT	ic T <u>le</u> organics analysi	S DATA SHEET	EPA SAMPLE NO
طمت	Name: OBG LABO	RATORIES, INC. Co:	ntract:	Sire #2
Lab	Code:	Case No.: 52	as No.: SD	G No.:
Matz	:ix: (soil/water) (310	Lab Sample I	D: 11/206
		(g/mL)_q	Lab File ID:	
-	-	,		
	1: (low/med)		Date Received	
* Mo	isture: not dec.	dec	Date Extracte	nd: 7-7-FF
Extra	action: (SepF/C	Cont/Sonc)	Date Analyzed	1: 8.4-58
car ((¥/\)	p£:	Dilution Fact	
			Dilucion raci	
	CAS NO.	COMPOUND	CONCENTRATION UNITS (ug/L or ug/Kg)	-
		2,4-Dinitrophenol		!
		4-Nitrophenol	/(!!
		Dibenzofuran	<u>33</u> 0	
		2,4-Dinitrotoluen	£	
	84-56-2	Diethylphthalate		
		4-Chlorophenyl-phe	anylether	
		Fluorene		
			/620	;;
				;;;
	·	Hexachlorobenzene		
		Pentacalorophenol		
			المراجع المحاكا المراجع المراجع المراجع المراجع المحاجرين المراجع المحاجر المراجع المحاجر المحاجر المراجع المحاجر المحاج	!!
	85-01-8	Phenanthrane	/635	
	85-01-8		330	
	85-01-8 120-12-7 84-74-2		330	
	85-01-8 120-12-7 84-74-2		330	
	85-01-8 120-12-7 84-74-2		33	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0		33 - 33 - 33 - 1000 33 - 1	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0			
- 1	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1		330 330 1000 330 1000 330 100	
-	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3		330 330 1000 330 1000 330 100	
-	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9		33- 33- 33- 1000 330 1000 330 1000 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7		33- 33- 33- 1000 33- 1000 33- 1000 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 117-64-0		33- 33- 33- 1000 33- 1000	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 127-64-0		33- 33- 33- 1000 33- 1000 33- 1000 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 205-99-2 207-08-9		33- 33- 33- 1000 33- 1000 33- 1000 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7 91-94-1 56-55-3 218-01-9 117-81-7 117-84-0 205-99-2 207-08-9 50-32-8		33- 33- 33- 1000 330 1000 330 1000 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7		33- 33- 33- 1000 330 100 <	
	85-01-8 120-12-7 84-74-2 206-44-0 129-00-0 85-68-7		33- 33- 33- 1000 330 100 <	
	85-01-8 120-12-7		33- 33- 33- 1000 330 1000 330 1000 <	

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

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EPA SAMPLE NO.

	SETTVUENTIE URGANIUS ANAI	LISIS DATA SHEET	
Lab	Name: OBG LABORATORIES, INC.		Sire #2
			1
طعت	Code: Case No.:	SAS NO.: SI	DG No.:
	·······		
-Matr	ix: (soil/water) <u>sert</u>	<u>Lab</u> Sample 1	D: 121206
	• • • • • •		
- Samp	le wt/vol: <u>30</u> (g/mL) <u>q</u>	_ Lab File ID:	
· • • • • •			ala a ch
,Æv€	1: (low/med) <u>سما</u>	Date Receive	Ha:
t Mo	isture: not dec dec. 9	Date Frema	ed: 7-7-FF
'XTI	action: (SepF/Cont/Sonc) <u>Le</u>	c Date Analyze	d: F-4 18
	Ćleanup: (Y/N) <u>∕</u> pH:	_ Dilution Fac	tor: <u>33</u>
,		_	
• •		CONCENTRATION UNIT	
	CAS NO. COMPOUND	(ug/L or ug/Kg)	<u>/*+</u> Q
,	108-95-2Phenol		
	111-44-4bis(2-Chloroet		
	95-57-82-Chlorophenol		
	541-73-11, 3-Dichlorobe		
	106-46-71,4-Dichlorobe		
	100-51-6Benzyl alcohol		
	1_95-50-11.2-Dichlarabe	nzene	
~	95-48-72-Methylphenol		
, —	108-60-1bis(2-Chlorois	opropyl)ether_	
	106-44-54-Methylphenol	·!!	!
	621-64-7N-Nitroso-di-n 67-72-1Hexachloroetha	-propylamine	
	98-95-3Nitrobenzene	ne	
	78-59-1Isophorone		[]
	88-75-52-Nitrophenol		
	105-67-92,4-Dimethylph	enol	
	65-85-0Benzoic acid	/(00	
	111-91-1bis(2-Chloroet	hoxy)methane 330	
• •	120-83-22,4-Dichloroph		
·	120-82-11,2,4-Trichlor	obenzene	
	91-20-3Naphthalene		
	106-47-84-Chloroanilin		
	87-68-3Hexachlorobuta 59-50-7		
(91-57-62-Methylnaphth		╺╼╼╼╸╎╺╼╼┼╾╾╎
1	77-47-4		╘╼╾╾╾╸╏╺══┽╍╾╵
1 1	88-06-22,4,6-Trichlor		
	95-95-42,4,5-Trichlor		
	91-58-72-Chloronaphtha		
- 1	88-74-42-Nitroaniline	/600	
1	131-11-3Dimethylphthala	178	
1	208-96-8Acenaphthylene	1 310	I/
1	606-20-22,6-Dinitrotol	iene	

FORM I SV-1

1/87 Rev.

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1B SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NC.

			• ,·		
Lab Name: OBG L	ABORATORIES. INC.	Contract:	I	Sire * 3	
Lab Code:	Case No.:	SAS No.:	SDG 1	No.:	
Matrix: (soil/wa			Sample ID:	All a	
		• الشکالية	ombre 19.		
sample wt/vol:	<u> </u>		File ID:		
Avel: (low/me	d) <u>(م</u>	Date	Received:	7-1-85	
<pre>* Moisture: not</pre>	dec dec	9 Date	Extracted:	7-7-88	
xtraction: (Se	pF/Cont/Sonc)	uf Date	Analyzed:	8-4-15	
FPC Cleanup: (Y/N) // pH:	Dilut	ion Factor	:	
CAS NO.	COMPOUND	CONCENTRAII (lg/l or ug		<u>¢</u> Q	
1					
-	Phenol		330	<u> </u>	
111-44-4	bis(2-Chloro	ethyl) ether	!		
	2-Chlorophen		!		
541-73-1	1, 3-Dichloro	benzene	!		•
106-46-7	l, 4-Dichloro	benzene	I		
	Benzyl alcoh				
95-50-1		benzene			_
	2-Methylphen			!	
- 108-60-1	bis(2-Chloro	isopropyl)ether_		!	
106-44-5	4-Methylphend	ol	1	!	
621-64-7	N-Nitroso-di-	-n-propylamine		!	
67-72-1	Hexachloroeth	hane		!	
98-95-3	Nitrobenzene			!	
78-59-1	Isophorone			!!	
88-75-5	2-Nitrophenol			!!	
	2,4-Dimethylr			!!	
65-85-0	Benzoic acid		<u> </u>	!!	
	bis(2-Chloro 2,4-Dichlorop			!	
-	1,2,4-Trichlo			╺╼╼╼╸╎╼╼╪╼╼╼╸╎	
	Naphthalene				
	Hexachlorobut			╼╍╼╴╎╺╼╍┶╍╍╸╎	
	4-Chloro-3-me			╺━━╾╎╼╾╌┿╍╼╸╎	
	2-Methylnapht	enArhnenor		┉┉┉╎┈┈┼┉╌╎	
1 77-47-4	Hexachlorocyc		<u> </u>	╺╼╾╾╎╶╍╌┼╾╼╎	
	2,4,6-Trichlo	Tohenregatette			
	2,4,5-Trichlo		1600	━━━━┤╼━━┼╾━━╎	
	2-Chloronapht		330		
	2-Nitroanilin			╺╼╼╴╎╶╼╼┼──╼╎	
	Dimethylphtha		330		
	Acenaphthylen			╺╾╾╎╼╼┽╾╼╴╎	
		=/.			
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SEMIVOLATILE	ORGANICS	ANALYSIS	data	SHEET

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Lab Name: OBG LABORATORIES, INC.	
Lab Code: Case No.: _	SAS No.: SDG No.:
Matrix: (soil/water) Suit	Lab Sample ID: 1/1/109
Sample wt/vol: (g/m	L) <u>q</u> Lab File ID:
Level: (low/med) <u>ن</u> سی	Date Received:
* Moisture: not dec de	c. 9 Date Extracted: 7-7-86
Extraction: (SepF/Cont/Sonc)	Sapr Date Analyzed: 1-4-FF
GPC Cleanup: (Y/N) // pi	E: Dilution Factor: 33
CAS NO. COMPOUND	CONCENTRATION UNITS: (ug/l of ug/Kg) <u>c / k</u> Q

	J-Nitroaniline	1600	u
83-32-9	Acenaphthene	330	
	2,4-Dimitrophenol	1(30	
	4-Nitzophenol	U	
	Dibenzofuran	330	
121-14-2	2,4-Dinitrotoluene		
84-56-2	Diethylphthalate		
7005-72-3-	4-Chlorophenyl-phenylether		
86-73-7	Fluorene	an an Kara an	
100-01-6	4-Nitroanline	1600	
534-52-1	4,6-Dinitro-2-methylphenoi	6	
86-30-5	N-Nitrosodiphenylamine (1)	330	
101-55-3	4-Bromophenyl-phenylether		
	Hexachlorobenzene	6	
87-86-5	Pentachlorophenol	1600	
	Phenanthrene	- 130	
	Anthracene		
84-74-2	Di-n-butylphthalate		
	Fluoranthene		
	Рутеле		
	Butylbenzylphthalate	V	
91-94-1	3,3'-Dichlorobenzidine	(1)	
56-55-3	Benzo(a) anthracene	330	
	Chrysene	U	
117-81-7	bis(2-Ethylhexyl)phthalate!	SP	
17-84-0	Di-n-octylphthalate	330	
	Benzo(b)fluoranthene	1	
207-08-9	Benzo(k) fluoranthene		
0-32-8	Benzo(a)pyrene		
.93-39-5	Indeno(1,2,3-cd)pyrene		
3-70-3	Dibenz(a,h) anthracene		
91-24-2	Benzo(g,b,i)perylene	· · · · ·	- <u> </u>

(1) - Cannot be separated from Diphenylamine

FORM I SV-2

1/87 Rev.

EPA SAMPLE NO.

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LAE	ORATO	DRIES,	INC.

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CHAIN OF CUSTODY RECORD

111F. 051.517

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BCUP

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<u></u>				1.64.10	236	/					
SURVEY Niacoor	Hibrack Fire S	Se.hor	1	7	· Ank	<i>i i</i>	La	mak			
STARON MUMBER	STARON LOCARON	DATE				540	NG. OF	4044753 200400			
, !	Fire School site No. 1	7/1198	on hette	II				Hazardous Sabstan			
2	5°+, AJ. 2	711160	i 10 Hle					• •			
2	stelio 3					1					
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OBG Laboratories, Inc.

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Box 4942 / 1304 Buckley Road / Syracuse, New York 13221 / (315) 457-1494 Oakdale Medical Building / 700 Harry L. Drive / Johnson City, New York 13790

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URS CONSULTANTS, INC. 570 DELAWARE AVENUE BUFFALO NEW YORK 14202-1207 716 883-5525 FAX 716 883-0754

December 17, 1990

Mr. John Ozard New York State Department of Environmental Conservation Information Services 700 Troy Schenectady Road Latham, New York 12110

RE: DISTANCE TO CRITICAL HABITAT OF ENDANGERED SPECIES

Dear Mr. Ozard:

URS Consultants, Inc. is currently conducting several Preliminary Site Assessments (PSA) in Central New York.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 27-1309.

In order to complete the HRS scoring for this investigation, the distance to a critical habitat of an endangered species is needed.

Enclosed please find copies of portions of USGS 7.5' quadrangles listed below with the sites highlighted. The maps have a scale of 1:24,000 and a one mile radius is marked.

- Majestic Weaving, #336028, Cornwall, New York Quadrangle.
- o L&B Products, #411004, Hudson North, Stottville, New York Quadrangle.
- o Cadosia Lumber, #413012, Hancock Quadrangle.
- o Jackson Farms, #447012, Schenectady Quadrangle.
- Valenite, #734023, Syracuse East Quadrangle
- o State Fair Landfill, #734033, Syracuse West Quadrangle
- Niagara Mohawk Fire Training School, #738030, Oswego East Quadrangle.
- Colonie Town Landfill, #401004, Troy North Quadrangle.
- o Saratoga Springs Landfill, #546008, Saratoga Quadrangle.

In addition, we are currently conducting several Phase II investigations for the NYSDEC.



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Mr. John Ozard December 17, 1990 Page 2

In a 1986 Phase I reported for the Saratoga Springs Landfill, by Wehran Engineering, a significant habitat was identified. The Significant Habitat Report identified two areas within 1 mile of the site as being significant habitats of the Karner Blue Butterfly, an endangered species. As this report is four years old, I am requesting an update on this Significant habitat.

In addition, URS Consultants is also working on a Phase II report for the Town of Colonie Landfill. The additional sites for which information is needed are:

o Saratoga Springs Landfill, #546008, Saratoga Quadrangle.

o Colonie Town Landfill, #401004, Troy North Quadrangle.

I hope this information will be sufficient.

Sincerely,

URS CONSULTANTS, INC.

illes Rettie

Phyllis Rettke Geologist

PR/ys

12-17-90.DEC 35231.00 (File: 5010)

New York State Department of Environmental Conservation

Information Services Wildlife Resources Center 700 Troy-Schenectady Road Latham, New York 12110-2400



Phyllis Rettke URS Consultants, Inc. 570 Delaware Avenue Buffalo, New York 14202-1207

Dear Ms. Rettke:

We have reviewed the Significant Habitat Unit and the NY Natural Heritage Program files with respect to your request for biological information concerning several preliminary site assessments in central New York.

January 11, 1991

JOB #

Enclosed you will find a computer printout covering the area you requested to be reviewed by our staff. The information contained in this report is <u>confidential</u> and may not be released to the public without permission from the Significant Habitat Unit.

Our files are continually growing as new habitats and occurrences of rare species and communities are discovered. In most cases, site-specific or comprehensive surveys for plant and animal occurrences have not been conducted. For these reasons, we can only provide data which have been assembled from our files. We cannot provide a definitive statement on the presence or absence of species, habitats or natural communities. This information should not be substituted for on-site surveys that may be required for environmental assessment.

This response applies only to known occurrences of rare animals, plants and natural communities and/or significant wildlife habitats. You should contact our regional office(s), Division of Regulatory Affairs, at the address(es) <u>enclosed</u> for information regarding any regulated areas or permits that may be required (e.g., regulated wetlands) under State law.

If this project is still active one year from now we recommend that you contact us again so that we may update this response.

Sincerely,

Burrell Buffington

Significant Habitat Unit

Encs.

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cc: Regions 3, 4, 5, & 7, Regional Wildlife Mgrs.

New York Heritage Program is supported in part by The Nature Conservancy CLINATOGRAPHY OF THE UNITED STATES NO. 20

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OSHEGO EAST, NY

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CLIMATOLOGICAL SUMMARY

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THESE VALUES WERE DETERMINED FROM THE INCOMPLETE GAMMA DISTRIBUTION.

306314 OSHEGO EAST, NY

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LAT: 43 28N LONG: 76 30H

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NOTE: FOR CORN THE BASE IS 50, AND THE DEGREE UNITS ARE ADJUSTED FOR TEMPERATURES BELOH 50 AND ABOVE 86

OTHER CLIMATOLOGICAL DATA ARE AVAILABLE IN A VARIETY OF SUMMARIES AND FORMATS, SUCH AS THE CLIMATOGRAPHY OF THE UNITED STATES: NO. 60 - CLIMATE OF STATES; NO. 81 - MONTHLY NORMALS IAND SUPPLEMENTS: ANNUAL DEGREE DAYS TO SELECTED BASES DERIVED FROM THE 1951-80 NORMALS; AND MONTHLY PRECIPITATION PROUABILITIES, SELECTED PROBABILITY LEVELS DERIVED FROM THE 1951-80 NORMALS; NO. 84 - DAILY NORMALS; NO. 85 - DIVISIONAL NORMALS. A VARIETY OF DATA IS AVAILABLE EITHER ON MAGNETIC TAPE, MICROFICHE, OR PAPER COPY.

TO ODTAIN INFORMATION ABOUT CLIMATOLOGICAL DATA AND RELATED PUBLICATIONS, CONTACT:

DIRECTOR NATIONAL CLIMATIC DATA CENTER FEDERAL DUILDING ASHEVILLE, NC 20001-2696 (OR TELEPHONE: 17041 259-0602)



DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE NATIONAL CLIMATIC DATA CENTER ASHEVITE, NC

USCONN-NOAA-ASHEVSLLE, NC 7/84/204

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

Mr. Charles W. Hurley URS Consultants, Inc. 282 Delaware Avenue Buffalo, NY 14202

Dear Mr. Hurley:

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Thomas C. Jorling Germissioner F.L. URSICO ANTS

5015-115

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AUG 9 1991

JOB # <u>3523/</u> Re: W.A. D002340-3 PSA Report Review 5

AUG n 6 1991

The draft Preliminary Site Assessment (PSA) Task 1 report for the Niagara Mohawk Fire Training School (#738030) is returned to you for revision.

Specific comments are included in the body of the report and are indicated by colored tabs. Additional comments are offered below.

- 1.0 Executive Summary Please revise the section to be consistent with other PSAs. The summary should include as a minimum: site size, classification, hazardous waste disposal statement, significant threat statement, reclassification recommendation. The statement on Page 2, "...additional sampling be performed to determine the extent of any contaminant migration..." is not consistent with the purpose of a PSA (as noted in 2. Purpose).
- 1.1 <u>Site History</u> This section should discuss the on-site tanks noted on Tables 1, 4, 5 and 6 and in Reference 6. What were they used for? Are they still on-site (see comment noted on Table 1)? The last paragraph in the section (Page 8) discusses dioxin/dibenzofuran analyses from 1985 and 1988. Why was this analysis singled out for discussion here? If site contamination is covered here, it would seem appropriate to discuss the full realm of sampling, particularly PCB analysis.
- 4.4 <u>Contamination Assessment, Air Contamination</u> The New York State Department of Health had the following comment: "Soils offsite may be contaminated from particulates in smoke which were generated during the relatively low temperature, open-burning exercises. Soil sampling offsite should take into consideration the predominant wind direction in the area." The potential for offsite contamination by particulates should be discussed in this section. Sampling to evaluate this, however, is probably beyond the scope of a PSA.
- 5.1 <u>Hazardous Waste Deposition</u> The report seems to clearly document the disposal of listed hazardous waste, i.e. PCBs at concentrations in excess of 50 ppm. This is shown in the

sampling data from 1978 to date, Reference 6 which documents the storage of hazardous waste, and given the known operations at the site (dumping PCB oil on the ground).

5.2 <u>Significant Threat Determination</u> - The determination of significant threat should be made based on guidance given previously to URS, including the proposed Part 375 regulations. The analysis seems to indicate impact to the environment.

This section notes that the contamination may be due to background conditions. Does URS really believe this? The section discusses PCB contamination at E. Seneca Street and PAS; given that PAS is downgradient of the site and E. Seneca is sidegradient (and no background samples are available), what real affect would these sites have on the Niagara-Mohawk site? It would seem appropriate to concentrate on what we do know and can support. If you are really concerned about background contamination, you must support your premise.

5.3 <u>Recommendations</u> - Given the documented hazardous waste disposal and the impact on the environment (i.e., significant threat), a reclassification would seem in order.

Please make the required revisions and return one draft final to me for review.

Sincerely,

Mart

Martin D. Brand Project Manager Bureau of Hazardous Site Control Division of Hazardous Waste Remediation

Enclosure

APPENDIX B

Site Inspection Report USEPA Form 2070–13



Site Inspection Report

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01 DXB SURFACE WATER CONTAMINATION D3 POPULATION POTENTIALLY AFFECTED:0	04 NARRATIVE DESCRIPTION	D POTENTIAL	
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01 C D. FIRE EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02 DOBSERVED (DATE:) O4 NARRATIVE DESCRIPTION	C POTENTIAL	C ALLEGED
None reported			·
01 DE E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: 460	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION		C ALLEGED
Estimate of the population in a 2 access is controlled but much o	l-mile radius of the site, The f the contamination has migrate		
01 T F CONTAMINATION OF SOIL D3 AREA POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	D POTENTIAL	
	04 NARATIVE DESCRIPTION NYSDEC in November 1985 detect	D POTENTIAL	
OIL F CONTAMINATION OF SOL D3 AREA POTENTIALLY AFFECTED: Analysis of a soil sample by the dioxins & dibenzofurans. PCBs a: D1 C G DRINKING WATER CONTAMINATION 80 D3 POPULATION POTENTIALLY AFFECTED:	04 NARATIVE DESCRIPTION NYSDEC in November 1985 detect re also present in the soil.	C POTENTIAL	C ALLEGED
Analysis of a soil sample by the dioxins & dibenzofurans. PCBs a:	04 NARATIVE DESCRIPTION NYSDEC in November 1985 detect re also present in the soil. 02 D OBSERVED (DATE) 04 NARATIVE DESCRIPTION 80 residents are using groudwat	C POTENTIAL ed the pr C POTENTIAL er from t	C ALLEGED
OIC G DRINKING WATER CONTAMINATION 80 CONTRACT OF SOL CARRY Analysis of a soil sample by the dioxins & dibenzofurans. PCBs a: CONTRACT OF CONTAMINATION 80 CONTRACT OF CONTAMINATION 80 CONTAMINATION 80 CONTAMI	Of NARATIVE DESCRIPTION NYSDEC in November 1985 detect re also present in the soil. Of DOBSERVED (DATE) Of NARATIVE DESCRIPTION 80 residents are using groudwat ents are located on the beachfr	C POTENTIAL ed the pr C POTENTIAL er from t	C ALLEGED
OIC G DRINKING WATER CONTAMINATION 80 CONTRACT OF SOL CARRY Analysis of a soil sample by the dioxins & dibenzofurans. PCBs a: CONTRACT OF CONTAMINATION 80 CONTRACT OF CONTAMINATION 80 CONTAMINATION 80 CONTAMI	Of NARRATIVE DESCRIPTION NYSDEC in November 1985 detect re also present in the soil. O2 D OBSERVED (DATE) O4 NARRATIVE DESCRIPTION 80 residents are using groudwat ents are located on the beachfr O2 D OBSERVED (DATE) O4 NARRATIVE DESCRIPTION	C POTENTIAL ed the pr d POTENTIAL er from t ont.	C ALLEGED esence of C ALLEGED the aquifer D ALLEGED
OILC H WORKER EXPOSURE/NULTY None reported although there is	Of NARATIVE DESCRIPTION NYSDEC in November 1985 detect re also present in the soil. O2 D OBSERVED (DATE) O4 NARATIVE DESCRIPTION 80 residents are using groudwat ents are located on the beachfr O2 D OBSERVED (DATE) O4 NARATIVE DESCRIPTION a slight potential of workers of	C POTENTIAL ed the pr d POTENTIAL er from t ont.	C ALLEGED esence of C ALLEGED the aquifer D ALLEGED

EPA FORM 2070-13 (7-81)

	TENTIAL HAZARDOUS WASTE SITE	L IDENTIFICATION
SEPA	SITE INSPECTION REPORT	NY DODGOTOGO
PART 3 · DESCRIP	PTION OF HAZARDOUS CONDITIONS AND INCIDENT	3
I. HAZARDOUS CONDITIONS AND INCIDENT	S (Computer	
D1 I J. DAMAGE TO FLORA D4 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:}	C POTENTIAL C ALLEGE
None reported		
01 🗇 K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include remark) of second	02 C: OBSERVED (DATE:)	C POTENTIAL C ALLEGE
None reported		
D1 B L CONTAMINATION OF FOOD CHAIN	02 C OBSERVED (DATE:)	G POTENTIAL C ALLEGE
PCBs were found in the s	tream beside the site. PCBs have t	he potential to
bioaccumulate and contam	inate the food chain.	
01 2 M. UNSTABLE CONTAINMENT OF WASTES	02 0 OBSERVED (DATE: 1974)	
Set Aver Store state Learn state unk		
-	tially containg PCB's was observed	in White Creek
downgradient from the site 01 Ž N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE)	ALLEGE
PCB contamination has been to the site.	n detected offsite and is believed t	o be attributable
DI C O CONTAMINATION OF SEWERS, STORM D D4 NARRATIVE DESCRIPTION	DRAINS, WWTPB 02 C OBSERVED (DATE:)	D POTENTIAL D ALLEGE
None reported		
01 P ILLEGAL UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 2 085ERVED (DATE: 1958-1977-)	
PCB contaminated oil was d	lumped on the ground and burned.	
05 DESCRIPTION OF ANY OTHER KNOWN, POTEN	NTAL OR ALLEGED HAZARDS	
None reported		
II. TOTAL POPULATION POTENTIALLY AFFE	CTED: 21,500 (Estimate of population	n in a 3 mile radius
V. COMMENTS		
V. SOURCES OF INFORMATION Con specce referen	nces 6 8 31610 100 367000 eners 10 100075;	····
NYSDEC Albany File Searc URS Site Visit 11/13/90	ch, 6/19/90	

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	POTENTIA		IS WASTE SITE		I. IDENTIFICATION
⊛EPA		SITE INSPEC	TION		NY D986870996
	PART 4 - PERMI	T AND DESCRI	TIVE INFORMAT	TION	
II. PERMIT INFORMATION					
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS	
L'A NPDES					
C D ACRA					
C.E. ACRA INTERIM STATUS					
C.F. SPCC PLAN					
EG STATE (Source) SPDES	NY0103152	10/1/77	unknown		
CH LOCAL					
I. OTHER (Seechy)					
			<u>l · </u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·
III. SITE DESCRIPTION					
01 STORAGE DISPOSAL (Crock of the appy)	OZ AMOUNT OS UNIT (OF MEASURE 04 T	REATMENT (Croce at mar		OS OTHER
		-	INCENERATION		E A. BUILDINGS ON SITE
C B. PILES			UNDERGROUND INJ CHEMICAL/PHYSIC		Training building
C D. TANK, ABOVE GROUND			BIOLOGICAL	*	& classroom
E. TANK. BELOW GROUND	·		WASTE OIL PROCES	SING	DE AREA OF SITE
		DF.	SOLVENT RECOVER	Y	4-5
G. LANDFARM H. OPEN DUMP			OTHER RECYCLING	RECOVERY	
KIOTHER all waste was	discharged or		OTHER		
(See dumped	on the ground				
IV. CONTAINMENT					
DI CONTAINMENT OF WASTES (Cross and)	_	_			
D A. ADEQUATE, SECURE	U B. MODERATE	D C. NADEO	JATE, POOR	C D. INSECU	RE. UNSOUND. DANGEROUS
OZ DESCRUPTION OF DRUMS, DIKING, LINERS, B			· · · ·	- 6 - 1	
A moat collection syste and to stop the spread	of contaminati	ion into th	e groundwat	of the sider and su	te to recover oil rface water. All
water is treated prior Before the installation	to discharge t n of the most o	to White Cr	'eeK. System PCR	contamin	ated oil une
dumped on the ground at					
V. ACCESSIBILITY					
01 WASTE EASILY ACCESSIBLE.					
D2 COMMENTS The site is entirely fe	enced and acces	ss to the s	ite is cont	rolled.	Direct contact is
restricted by layers of					
VI. SOURCES OF INFORMATION (Car and					
URS Site Visit 11/13/9	90				
Ref. 5					

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III. GROUNDWATER DI GROUNDWATER USE IN VCHITY (Chest only ZA. ONLY SOURCE FOR DRINKING DIS DRENKING DI GROUNDWATER USE IN VCHITY (Chest only COMMERCIAL PRODATION DI GROUNDWATER DI GROUNDWATER DI S DRECTON OF GROUNDWATER DI S DRECTON OF GROUNDWATER DI S DRECTON OF GROUNDWATER DI S DRECTON OF GROUNDWATER DI S DRECTON OF GROUNDWATER DI DI SCHARGE ANEA DI S DRECTON OF GROUNDWATER DI S DRECTON OF WELLS (STRUCK ON ALL STRUCK ON	SEPA		SITE INSPEC	RDOUS WASTE SI TION REPORT	-	I. IDENTIFICATION OI STATE OZ SITE NUMBER NY D986870996
01 TYPE OF DEMIXED SUPPLY (Continuents a demaked (COMMUNITY) 02 STATUS 03 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 05 DSTANCE TO STE A 04 DSTANCE TO STE A 04 DSTANCE TO STE A 05 D NST NEED A	IL DRINKING WATER SUPP					
SURFACE WELL ENDANGERED AFFECTED MONTORED COMMUNITY A.E. B.D. A.D. B.D. C.G. A.J.			02 STATUS			CO DISTANCE TO SITE
COMMUNETY A B B D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D C D A D B D D D	(Chect as appreciate)		ENDANCER		NONGORED	
NON-COMMUNTY C.D D.GK D.GK D.GK F.D F.D.G.G. M.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G			1			A. <u>3 +</u> (mi)
01 GAOLMOWATER USE IN VENTY (CAUSE AND CONVERTIGATION CONTINUE TO ADDRESS OF STE CONVERTIGATION CONTINUES OF STE CONVERTIGATION				E. 🗆	F. 🗆	
CALONY SOURCE FOR DOWNER C B DEVELOG COUNT FOLL MOUSTRUL PROATON C COUNTERLAL PROATON C D NOT USED UNUS ADDITION DEVELOPMENT AND ADDITION L ADDITION DEVELOPMENT AND ADDITIONAL ADDITION DEVELOPMENT AND ADDITIONAL ADDI	III. GROUNDWATER					
COMPARENT FOR LATEN AND THE ADDRESS OF MATER CONTACT TO MEASURE TO ME	DI GROUNDWATER USE IN VICINI	TY (Check and)				
02 HOPULATION SERVED BY GROUND WATER 03 DESCRIPTION OF GROUNDWATER R.O.W 04 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUST TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUST TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUSTS, DAMAGE MELL 01 DESTINAL TO ADJUST T	CA. ONLY SOURCE FOR DRU	COMMERCIAL I	NOUSTRIAL IRRIGATIO	(Langed other sea	, INDUSTRIAL, INDUGAT	TON D. NOT USED, UNUSEABL
0.5 - 1 (m) Assumed N, NW 0.5 - 1 (m) Or Adurén (pop) 09 DESCRETOR OF WELLS INDUCTION ONE, AND AND AND AND AND AND AND AND AND AND	02 POPULATION SERVED BY GRO	NNO WATER 80 estim	ated	03 DISTANCE TO NEARE		MEL 0.6 (mi)
O.5 - 1 IN Assumed N, NW O.5-1 IN Inknown Opdition 00 Descaption of Wells means and a state means of barry Unknown, no well construction details or well logs were found during the file search. In Deschande AREA In Deschande AREA 00 Descaption of wells means and a state means of barry In Deschande AREA In Deschande AREA In Deschande AREA 0 Rechande AREA In North Table Stat	04 DEPTH TO GROUNDWATER	OS DIRECTION OF GR	OUNDWATER FLOW			D 08 SOLE SOURCE AQUIF
OD ODSCRATION OF WELLS FRANKING VALUES OF STEE Image: State of the state of	0.5 - 1 "m	Assume	d N, NW			(00d) UYES 2 NO
DI SUAFACE WATER USE (CARE AND) © A RESERVOIR, RECREATION DRINKING WATER SOURCE DI SURFACE WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE DRINKING WATER SOURCE White Creek White Creek White Oreek DRING PROPERTY INFORMATION DI TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A A A MO OF FRADOWS NO OF FRADOWS DI O. O NO OF FRADOWS DI O. O DI O. O DI O OF FRADOWS DI O. O DI O. O DI O OF FRADOWS DI O. O	T YES COMMENTS	inknown		ITYES COMMEN		
Image: Sector of a rescent of a line integration. Economically important resources Image:	IV. SURFACE WATER	·····				
Lake Ontario	DRINKING WATER SOL	URCE IMPORTAL			AFFECTED	D. NOT CURRENTLY USE
Lake Ontario V. DEMOGRAPHIC AND PROPERTY INFORMATION 01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A 460 NO OF FERSONS 10,800 NO OF FERSONS 0.6 IND OF FERSONS 0.6 0.1 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0.4 DISTANCE TO NEAREST OFF-SITE BUILDING 0.2 DISTANCE TO NEAREST OFF-SITE BUILDING 0.01 0.3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0.4 DISTANCE TO NEAREST OFF-SITE BUILDING 0.3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0.4 DISTANCE TO NEAREST OFF-SITE BUILDING 0.3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0.4 DISTANCE TO NEAREST OFF-SITE BUILDING 0.01 (mi)	Wine Creek	C				
ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE 0 2 DISTANCE TO MEAREST POPULATION A 460 B. 10,800 C 21,500 0.6 NO OF PERSONS NO OF PERSONS 0.6 (mi)	Lake Ontar	:io		<u> </u>	0	
ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE A 460 B. 10,800 C. 21,500 NO OF PERSONS NO OF PERSONS 0 of PERSONS DO3 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 0 d DISTANCE TO NEAREST OFF-SITE BUILDING		OPERTY INFORMATION				
	V. DEMOGRAPHIC AND PR					
	01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. 460	<u> 10,800 </u>	c 21	, SOO		0.6
	ONE (1) MILE OF SITE A. 460 NO OF PERSONS	8. <u>10,800</u> NO OF FERIORE	c 21) MILES OF SITE , 500 o of peasons		0.6
	ON TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. 460 NO OF PEASONS D3 NUMBER OF BUILDINGS WITHIN	B. 10,800 NO OF PERSONS TWO (2) MILES OF SITE	c 21) MILES OF SITE , 500 o of peasons	ST OFF-SITE BUILDING	0.6(m/)
	DI TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. 460 NO OF PERSONS D3 NUMBER OF BUILDINGS WITHIN 2	B. 10,800 NO OF PERONE TWO (2) MILES OF SITE 2850	c. <u>21</u>)) MILES OF SITE , 500 0 OF PLANOIS 04 DISTANCE TO NEARE:	57 OFF-SITE BUILDING 0.01	0.6(mi)
	01 TOTAL POPULATION WITHIN ONE (1) MILE OF SITE A. <u>460</u> NO OF PERSONS D3 NUMBER OF BUILDINGS WITHIN <u>2</u> D5 POPULATION WITHIN VICINITY (10,800 100 OF PERSONS Two (2) MILES OF SITE 2850 0 SITE (Provide namese sectoring a	c <u>21</u>	MILES OF SITE , 500 O OF PEASONS OA DISTANCE TO NEARE	57 OFF-SITE BUILDING 0.01	0.6(mi) (mi)

\$ EPA			ECTION REPO	DRT	01 5	DENTIFICATION
	PART 5	- WATER, DEMOGRA	APHIC, AND ENV	IRONMENTAL D		
VI. ENVIRONMENTAL INFORM						
		- - - - - - - - - - - - - -	D C 10-1 - 10-		ATED THAN	10-1 00/000
02 PERMEABILITY OF BEDROCK (Cree					_	
C A. IMPEI (Loss M	RMEABLE X	B. RELATIVELY IMPERMI (10 ⁻⁴ - 10 ⁻⁴ amount)		TIVELY PERMEABLE		PERMEABLE
03 DEPTH TO BEDROCK	04 DEPTH OF	CONTAMINATED SOIL ZONE	05 \$			
_<10(n)		<io< td=""><td>4.</td><td>.5-7.3</td><td></td><td></td></io<>	4.	.5-7.3		
	DT ONE YEAR	24 HOUR RAINFALL				
10.3		2.5	SITE SLOP	E DIRECTION OF	SITE SLOPE	TERRAIN AVERAGE SL
09 FLOOD POTENTIAL		0 (in)	0-1	-* NA		
		- 	ARRIER ISLAND, CO.	ASTAL HIGH HAZARD	AREA, RIVER	
SITE IS IN 100 YEAR FL						
11 DISTANCE TO WETLANDS IS acro m	~~		12 DISTANCE TO	CRITICAL HABITAT (of a	NA	
ESTUARINE		OTHER				_ (mi)
A. <u>NA</u> (mi)	∎. <u></u> C) <u>.01</u> (mi)	ENDAN	GERED SPECIES	one rep	orted
DISTANCE TO: COMMERCIAL/INDUST	PIAL	RESIDENTIAL AREAS. NA FORESTS, OR WILL		KS. PRIME /	AGRICULTU IG LAND	RAL LANDS AG LAND
COMMERCIAL/INDUST	I)	FORESTS, OR WILL B0.6	DUFE RESERVES	C2		D (m
COMMERCIAL/INDUST	n To surrounom ite used	FORESTS, OR WILL BO.6 RG TOPOGRAPHY for training i	DUFERESERVES	c ly flat. Wh		D (m
COMMERCIAL/INDUST A	n ite used uch of th	FORESTS, OR WILL 0.6 KGTOPCORAPHY for training i ne surrounding	DUFERESERVES	c ly flat. Wh		D (m

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\$epa		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	L	D9868709
II. SAMPLES TAKEN				
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		OJ ESTIMAT RESULTS
GROUNDWATER	5	O'Brien & Gere		July 1
SURFACE WATER	12	O'Brien & Gere		July 1
WASTE				
AR.				
RUNOFF				
SPILL				
SOL.		-see next page-		
VEGETATION				
OTHER Sediment	11	O'Brien & Gere		July
III. FIELD MEASUREMENTS	B TAKEN			
IV. PHOTOGRAPHS AND N		OR IN CUSTODY OFURS_Consultants, Inc.		
01 TYPE IS GROUND C AE				
	RS Consultants,	, Inc., 282 Delaware Avenue, Buff	falo, New	York
V. OTHER FIELD DATA CO	LLECTED Pro- at a range of the	:		
Photographs of developed.	significant fe	eatures were taken and a site loo	cation map) was
VI. SOURCES OF INFORMA	ATION : Cro specific references, a	8 SIN 2 1005 PRAMA DUTY PO		
		/14/90		

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SAMPLE TYPE	NO.	SAMPLES SENT TO	DATE
Soil	6	O'Brien & Gere	1978
Soil	4	NYSDOH	1985
Soil	l	O'Brien & Gere	1985
Soil	l	O'Brien & Gere	198 6
Soil	3	Versar, Inc.	1988
Soil	3	O'Brien & Gere	1988

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wer Co. d West osstate NY	PART 7 - OW	PECTION REPORT /NER INFORMATION PARENT COMPANY (* uppr: dam) OB NAME 10 STREET ADDRESS (P 0 date: NPD #, dat.) 12 CTY OB NAME		2 SITE NUMBER 0986870996 09 D+8 NUMBER 11 SIC CODE
wer Co. d West osstate NY	02 D+ B NUMBER 04 SIC CODE 13202 02 D+ B NUMBER	PARENT COMPANY (# concentration) OB NAME 10 STREET ADDRESS (# 0 Box N/D #, one.) 12 CITY		D9 D+ 8 NUMBER
wer Co. d West osstate NY	04 SIC CODE 13202 02 D+ 8 NUMBER	08 NAME 10 STREET ADDRESS (P 0 Box NFD P. ME.) 12 CITY		11 SHC CODE
wer Co. d West osstate NY	04 SIC CODE 13202 02 D+ 8 NUMBER	10 STREET ADDRESS (P O Boe N/D P. ME.) 12 CITY		11 SHC CODE
d West Destate NY	04 SIC CODE 13202 02 D+ 8 NUMBER	12 СТТУ	1 J STATE	
OG STATE NY	07 ZIP CODE 13202 02 D+8 NUMBER	12 СТТУ	13 STATE	
OG STATE NY	13202 02 D+0 NUMBER		1 J STATE	14 2/P COD#
NY	13202 02 D+0 NUMBER		13 STATE	14 219 0005
	02 D+8 NUMBER	OB NAME		
		OB NAME		
DA STATE		1		C9 D+ B NUMBER
OR STATE		10 STREET ADDRESS /P 0 Box, NOP . MEL		11 SIC CODE
OR STATE				
LAA AIWIEL	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE
	02 D+ & NUMBER	CO NAME		
]				
	04 SIC CODE	10 STREET ADDRESS (# 0. dat. NO P. at.)		11 SIC CODE
	1			
OS STATE	07 20 COOE	12 CITY	13 STATE	14 ZIP CODE
	02 D+8 NUMBER	CE NAME		OBD+B NUMBER
	04 SIC CODE	10 STREET ADORESS (P O Bue APD + ore)		11 SIC CODE
		1		
OS STATE	07 20 CODE	12 CITY	13 STATE	14 ZIP CODE
	· · · · · · · · · · · · · · · · · · ·	IV. REALTY OWNER(S) /		
	02 D+8 NUMBER	OT NAME		02 D+B NUMBER
ļ				
	04 SIC CODE	OJ STREET ADORESS (P O Bas. AFD 4. ar.)		04 SIC CODE
				l
OSSTATE	07 ZP CODE	OS CITY	OS STATE	07 ZP CODE
1	I	1		· /
	02 D+B NUMBER	OI NAME		02 D+8 NUMBER
	04 SIC CODE	OJ STREET ADORESS (P.O. Bus, AFD P. ME.)		04 SIC CODE
CO STATE	07 ZP CODE	D& CITY	OB STATE	07 ZIP CODE
	· · · · · · · · · · · · · · · · · · ·			
	02 D+8 NUMBER	OTHINE		02 D+8 NUMBER
				1
	04 SIC CODE	OS STREET ADORESS (P.O. Box, AFD F. etc.)		04 SIC CODE
OU STATE	07 20 CODE	OS CITY	OR STATE	07 IP CODE
	L			
alle references. () (. alare Mail, spripte analys			
le Sear	ch 6/14/90			
	04 STATE 09 STATE 09 STATE 09 STATE	04 SIC CODE 04 SIC CODE 04 STATE 02 D+8 NUMBER 04 SIC CODE 04 SIC CODE 04 SIC CODE 04 SIC CODE 02 D+8 NUMBER 02 D+8 NUMBER 04 SIC CODE 04 SIC CODE 02 D+8 NUMBER 04 SIC CODE 02 D+8 NUMBER 04 SIC CODE 02 D+8 NUMBER 04 SIC CODE 04 SIC CODE 02 D+8 NUMBER	D4 SIC CODE 10 STREET ADDRESS (# 0 Ani. M/0 #. mil) D6 STATE 07 ZIP CODE 12 GTY D2 D+B NUMBER D6 NAME D4 SIC CODE 10 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE 10 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE 10 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE 12 CTY U IV. REAL TY OWNER(S) (# and/came and in) D4 SIC CODE D1 NAME D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D3 STREET ADDRESS (# 0 Ani. M/0 #. mil) D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC CODE D4 SIC C	04 SC CODE 10 STREET ADDRESS (# 0 But. M/0 #. mt.) 06 STATE 07 Z# CODE 12 CTY 13 STATE 02 D+8 NUMBER 06 NAME 03 NAME 04 SC CODE 10 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SC CODE 10 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SC CODE 10 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SC CODE 12 CTY 13 STATE 07 Z# CODE 04 SC CODE 12 CTY 13 STATE 13 STATE 04 SC CODE 12 CTY 13 STATE 13 STATE 04 SC CODE 12 CTY 02 D+8 NUMBER 01 NAME 04 SC CODE 03 STREET ADDRESS (# 0 But. M/0 #. mt.) 06 STATE 07 Z# CODE 06 GTY 04 SC CODE 03 STREET ADDRESS (# 0 But. M/0 #. mt.) 06 STATE 07 Z# CODE 06 GTY 08 STATE 07 Z# CODE 06 GTY 04 SIC CODE 03 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SIC CODE 03 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SIC CODE 03 STREET ADDRESS (# 0 But. M/0 #. mt.) 04 SIC CODE </td

EPA FORM 2070-13 (7-81)

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	PO	TENTIAL HAZ	ARDOUS WASTE SITE	I. IDENTIFI	CATION	
€ EPA		SITE INSPE			TATE 02 SITE NUMBER Y D986870996	
IL CURRENT OPERATOR			OPERATOR'S PARENT COMPA		1 D+ B NUMBER	
Niagara Mohawk Power	1	2 D+ B HLANDER	TO NAME		1 d+ B Number	
DE STREET ADORESS (P.O. Bos. MED.F. MEL)		04 SIC CODE	12 STREET ADDRESS IF D BML MPD		13 SIC CODE	
300 Erie Boulevard M	West					
OS CITY	OB STATE (T ZP CODE	14 GTV	15 STATE T	IS 2P CODE	
Syracuse	NY	13202				
DE YEARS OF OPERATION OB NAME OF	OWNER					
III. PREVIOUS OPERATOR(S) nor me		l gellerent krem ennet)	PREVIOUS OPERATORS' PARE			
OI NAME		D2 D+0 NUMBER	10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P 0 Bar. AFD		04 SIC CODE	12 STREET ADDRESS (P.O. doc. APD P. and	<u>ا</u>	13 SIC CODE	
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OF YEARS OF OPERATION OF NAME OF	OWNER DURING THIS	PERIOD			· · · · · · · · · · · · · · · · · · ·	
01 NAME	0	2 D+ B NUMBER	10 NAME	[11 D+8 NUMBER	
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OS CITY	OS STATE	07 ZP CODE	14 CTV	15 STATE	16 ZIP CODE	
08 YEARS OF OPERATION 09 NAME OF	OWNER DURING THIS	PERICO				
IV. SOURCES OF INFORMATION						
NYSDEC Albany Fil	e Search 6.	/14/90				
Ref. 10						
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	PART		RITRANSPORTER INFORMATION	NY	D <u>986870996</u>
II. ON-SITE GENERATOR	, ·				
Niagara Mohawk Pow	er Corp.	02 D+B NUMBER			
300 Erie Boulevard	West	04 SIC CODE			
Syracuse	OS STATE NY	07 20 CODE 13202			
III. OFF-SITE GENERATOR(S)					
None known		02 D+B NUMBER	OI NAME		02 D+ B NUMBER
DI STREET ADDRESS (P O Bas. APD #, sec.)	<u> </u>	04 SIC CODE	03 STREET ADDRESS (P 0 Bee, M/D P, and	,	04 SIC CODE
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OS CITY	08 STATE	07 20 CODE		O6 STATE	07 ZIP CODE
					L
IV. TRANSPORTER(S)		02 D+8 NUMBER	OI NAME	<u>_</u>	02 D+ B NUMBER
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	CO STATE	07 20 CODE	05 GTY	06 STATE	07 ZIP CODE
V. SOURCES OF INFORMATION ICA			_		
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€PA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT	-	LIDENTIFICATION
		PART 10 - PAST RESPONSE ACTIVITIES		
PAST RESPONS		02 DATE	01 40 5000	
04 DESCRIPTION			US AGENUT	
	None Reported	3		
	ORARY WATER SUPPLY PROVI	DED 02 DATE	03 AGENCY	·····
04 DESCRIPTI				
	None reported			
01 C PERN 04 DESCRIPTI	ANENT WATER SUPPLY PROVE	DED 02 DATE	03 AGENCY	
	None reported	3		
01 D D. SPILL	ED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	DN .			
	None reported	1		
01 C E. CONT 04 DESCRIPTIO	AMINATED SOIL REMOVED	02 DATE	03 AGENCY	
4 4666.4 .14	None reported	1		
OT CE WAST		02 DATE	03 AGENCY	
04 DESCRIPTIC				
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	E DISPOSED ELSEWHERE	02 DATE	03 AGENCY	
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01 C H. ON SI 04 DESCRIPTIO	W4		US AGENCI	
	None reported	2		
01 C 1. IN SITU	CHEMICAL TREATMENT	02 DATE	OJ AGENCY	
04 DESCRIPTIC	None reported	3		
01 C J. IN SITI	J BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
	None reported			
01 C K. IN SIT	U PHYSICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTIO		_		
	None reported			
01 C L ENCAJ 04 DESCRIPTIO		02 DATE	03 AGENCY	
	None reported	a		
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04 DESCRIPTIC		•		
	None reported	a		
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04 DESCRIPTIC				
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01 E P CUTO	FF TRENCHES/SUMP	02 DATE	03 AGENCY	
UN DESCRIPTIO		د		
	None reporte			
		D2 DATE	OR AGENCY	
01 C Q SUBS				

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	POTENTIAL HAZARDOUS WASTE SITE		I. IDENTIFICATION
I≎EPA	SITE INSPECTION REPORT		DI STATE DE SITE NUMBER
	PART 10 - PAST RESPONSE ACTIVITIES		NY D986870996
II PAST RESPONSE ACTIVITIES			
01 E R BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 C S CAPPING/COVERING	02 DATE		
04 DESCRIPTION			
None reported			
01 D.T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	D3 AGENCY	
None reported			
01 D U GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
None reported			
01 D V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
None reported			
01 C W GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	
None reported			
	02 DATE	03 AGENCY	
04 DESCRIPTION None reported			
01 DY LEACHATE TREATMENT	02 DATE	03 AGENCY	· · · · · · · · · · · · · · · · · · ·
None reported			
	02 DATE	03 AGENCY	
None reported			
	02 DATE	03 AGENCY	
None reported			
01 C 2. POPULATION RELOCATED	02 DATE	OJ AGENCY	
04 DESCRIPTION			
None reported			·····
01 22 3 OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE1977	OJ AGENCY.	
	tion and makes advantion treat	mont cur	tem was installed
	tion and carbon adsorption treat d treat surface water runoff fro		
	to White Creek.		
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III. SOURCES OF INFORMATION ICH weeks a	Annesi I g. Bas Das surges proves, reports		
NYSDEC Albany	File Search 11/14/90		
URS Site Visi	t 11/13/90		

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

I. IDENTIFICATION OI STATE OZ SITE NUMBER NY D986870996

IL ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION C YES E NO

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY ENFORCEMENT ACTION

IIL SOURCES OF INFORMATION ICas searche references + g . same free . sames energies . reported

NYSDEC Albany File Search 11/14/90

EPA FORM 2070-13 (7-81)

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APPENDIX C

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Interview Documentation Forms

	URS
	AN INTERNATIONAL PROFESSIONAL SERVICES
JOB NO.	JOB NAME NYSDEC - Niagara Mohawk Fire Training Sc
	MEMO OF TELECON
DATE	2-28-91 TELEPHONE (315) 349-3557
PERSON C	ALLING D. MCCall PERSON CALLED EVAN WALSH
	TING URS CONSULTANTS, BUFFALO REPRESENTING CONTY HEALTH D
PURPOSE	OF TELECON AND/OR EQUIPHENT INVOLVED: INFORMATION ON THE NIAMOFTS
TEXT OF	
	THE ONLY INFORMATION THAT THEY HAVE ON
	THE ONLY INFORMATION THAT THEY HAVE ON
	THE SITE IS WHAT HAS BEEN SENT TO THEM
	BY THE NYSDEC. THEY HAVEN'T DONE
	ANYTHING ON THE SITE THEMSELVES.
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cc:	
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	RS
AN INTERNAT	FIONAL PROFESSIONAL SERVICES CAGAN
JOB NO. 35231.00.11500 JOB NAME NYSDEC - Niagara Mohawk	Fire Training School
MEMO OF TELECON	
	-
DATE $2 - 28 - 91$ TELEPHONE $(315) 426$	
PERSON CALLING D. McCall PERSON CALLED KON HEL	
- REPRESENTING URS Consultants, Buffalo REPRESENTING RECIONAL TOWN	<u>is loved.</u> NYSDCH
PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED:	
INFORMATION ON THE NIAMOFTS SITE	
TEXT OF TELECON	
- AS FAR AS HE KNOWS, THE SITE W	JAS ALWAYS
OWNED AND OPERATED BY NIAGARA N	
- THE ONLY PROBLEMS HE KNOWS OF AT	THE SITE
	AND THE
RESIDUAL DIOKINS & FURANS THAT WERE	
- THE SOLL SAMPLES	
- THEIR FILE CONSISTED ONLY OF THE	1985 AND
THE 1986 DATA. THEY HAD NO INFO	RMATION ON
ANY WORK THAT WAS DONE IN 19	EE.
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- THERE ARE SOME PECKE TO THE EAST	OF THE.
SITE THAT USE THE GROUNDWATTER	
	RE RICHT IN
THE SAME AREA	
·	<u> </u>
	100127

, ,	RECEIVED URS CONSULTANTS	URS	
	Mr. Coburn New York State Department of Environmental Conservation - Wetlands 615 Erie Boulevard - West Syracuse, New York 13204	ATLANTA BOSTON BUFFALO CLEVELAND COLUMBUS DEVVER VEW VORK PARAMUS NJ VEW ORLEANS SAN FANCISCO SAN MATEO SEATTLE VIRCIMIALEACH VIRCIMIALEACH	*
-	RE: PRELIMINARY SITE ASSESSMENTS, REGION 7	•.	
	Dear Mr. Coburn:		

URS Consultants, Inc. is currently conducting Preliminary Site Assessments of three (3) sites in Region 7.

We are performing these investigations under contract to the New York State Department of Environmental Conservation pursuant to the requirements of the New York State Environmental Conservation Law, Section 27-1309.

As part of the assessment, we need to determine whether or not there are any wetlands within a 1-mile vicinity of the site. The sites for which we are doing assessments are listed below:

Valenite -	# 734023
State Fair Landfill -	#734033
Niagara Mohawk Fire Training School -	#738030

Copies of the USGS topo maps showing the locations of the sites have been included.

We would appreciate it if you would send us copies of the wetlands maps for the locations of these three sites. Your prompt attention to our request would be appreciated, as this information is necessary to complete our evaluation of the site. If you have any questions, please feel free to call.

Sincerely,

URS CONSULTANTS, INC.

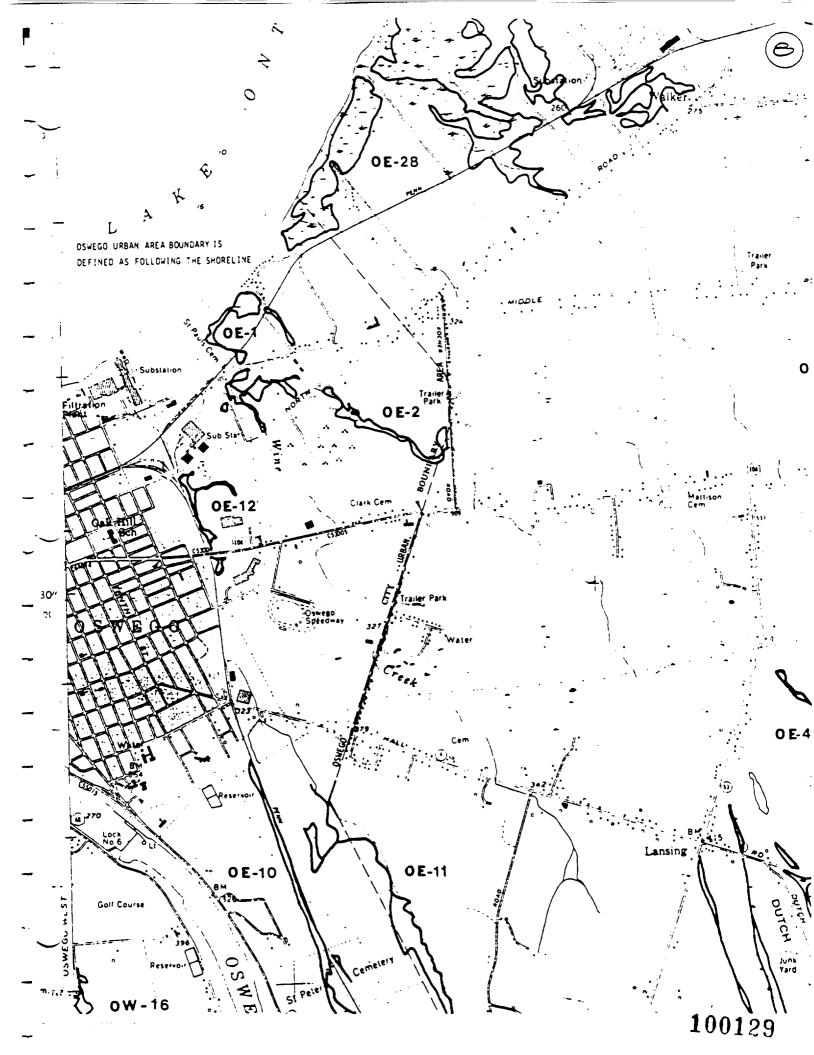
all

Donald A. McCall Project Engineer

DAM/ys Enc.

12-17-90.MC 35231.00 (5010)







URS CONSULTANTS, INC. BUFFALO. NEW YORK 14202-1207 (716) 883-5525

February 19, 1991

570 DELAWARE AVENUE FAX: (716) 883-0754

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Mr. James F. Morgan Assoc. Sr. Environmental Analyst Niagara Mohawk Power Corporation 300 Erie Boulevard West Syracuse, New York 13202

RE: NIAGARA MOHAWK FIRE TRAINING SCHOOL, #738030

Dear Mr. Morgan:

As mentioned during our visit to your site on November 13, 1990, URS Consultants, Inc. is currently conducting a Preliminary Site Assessment of the Niagara Mohawk Fire Training School site in the City of Oswego, Oswego County, New York.

We are performing this investigation under contract to the New York State Department of Environmental Conservation (NYSDEC) pursuant to the requirements of the New York State Environmental Conservation Law, Section 27-1309.

This is to confirm our conversation wherein you, Dan Kehoe, Gerald Shaw, and Mr. John Lynk provided the following information:

- 0 The site has been in use for 33 years.
- The oil that was previously burned only contained residual PCBs from the 0 tanker trucks that were hauling the oil. All oil burned at the Fire School has been certified to be PCB free since 1977.
- The moat around the site was designed to collect surface runoff, 0 groundwater from the overburden, and the bedrock runoff. This water goes through a carbon treatment system and is then discharged to Wine Creek.
- The oil/water separator was designed for 99% removal of oil before water 0 goes through the carbon system. It can not be determined if the oil/water separator achieves the 99% removal.
- 0 No soil has been removed from the site.
- Two monitoring wells that were located in the back corner of the site have 0 had their risers removed because they presented a safety hazard.
- The depth to bedrock is approximately 4 feet. ο
- The nearest residence to the site is approximately 0.6 mile. 0
- The nearest groundwater well is 1.5 2.0 miles from the site. 0

URS AN INTERNATIONAL PROFESSIONAL SERVICES OF DAME

Mr. James F. Morgan February 19, 1991 Page 2

We have incorporated your corrections as outlined in your letter of February 11, 1991. We would appreciate it if you would review this information, note any necessary corrections, and return a signed and dated copy to indicate your concurrence. Your prompt attention to this would be greatly appreciated, as the information is necessary to complete our evaluation of the site. Please use enclosed envelope.

Sincerely,

URS CONSULTANTS, INC.

Donatol A. m' Call

Donald A. McCall Project Engineer

DAM/ys

2-19-91L.DMC 35231.00 (File: 5015 - 115)

I agree with the information as it is presented.

James F. Morgan Date

										SSIONAL SERVICE
	*									
JOB NO.	35231.00	.11500	-	JOB NA	ME NYSE	EC - Ni	agara !	lohawk	Fire T	raining S
				MEMO	OF TELE	CON				
DATE	3-1-S	<i>Э</i> С			TELEPH	ONE	(315)) 426	7	531
	CALLING _		11		PERSON	CALLED	Сня	RLIE	BRA	NAEH
REPRESE	NTING U	RS Consul	tants,	Buffalo	REPRES	ENTING	_NY:	SDEC	<u>L</u> F.	SICN 7
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cc:										

D PESTICIDE ORGANICS ANALYSIS DATA	EPA SAMPLE NO.
	:_C001298
- jab Code: VERSAR Case No.:6016 SAS No.:	SDG No.:
fatrix: (soil/water)SOIL	Lab Sample ID: _50827
Sample wt/vol: 30 (g/ml) G	Lab File ID:
-	Date Received: _06/17/88
	Date Extracted: _06/22/88
	Date Analyzed: _07/06/88
3PC Cleanup: (Y/N)N pH:6.8	
	TRATION UNITS: or ug/KgUG/KG Q
319-84-6alpha-BHC	3.7 3.7 3.7 3.7 3.7 3.7 3.7 1 3.7 28 1 3.7 28 1 3.7 28 1 3.7 210 1 7.3 210 1 7.3 210 1 7.3 210 1 7.3 210 1 7.3 1 7.3 1 7.3 1 7.3 1 7.3 1 7.3 1 7.3 1 7.3 1 1 1 <

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Lab Name:	•	1D PESTICIDE ORGANICS ANALYSIS DA	WA SAMPLE NO.
Hatrix: (soil/vater)SOIL Lab Sample ID: _50829 Sample vt/vol: 30 (g/ml) G Lab File ID: Level: (lov/med) LOW Date Received: _06/17/88 X Moisture: not dec. 7 dec Date Extracted: _06/22/88 Extraction: (SepF/Cont/Sonc)SONC Date Analyzed: _07/05/88 GPC Cleanup: (Y/N)N pH:6.6 Dilution Factor: 10.0 CAS NO. COMPOUND (ug/L or ug/KgUG/KG I 319-84-6beta-BHC 36 (U)	Lab N	ame:VERSAR, INC Contrac	 SH88738030-03D :t:_C001298
Sample vt/vol: 30 (g/ml) G Lab File ID: Level: (low/med) LOW Date Received: _06/17/88 X Moisture: not dec. 7 dec Date Extracted: _06/22/88 Extraction: (SepF/Cont/Sonc)SONC Date Analyzed: _07/05/88 GPC Cleanup: (Y/N)N pH:6.6 Dilution Factor: 10.0 CONCENTRATION UNITS: CAS NO. COMPOUND (ug/L or ug/KgUG/KG Q 1 319-84-6alpha-BHC1 36 iU1 319-85-7beta-BHC1 36 iU1	<u>ь</u> С	ode: VERSAR Case No.:6016 SAS No	SDG No.:
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1 58-89-9gamma-BHC (Lindane) 36 1_U_1 1 76-44-8Heptachlor 36 1_U_1	_ ·	1 319-85-7beta-BHC 1 319-86-8delta-BHC 1 58-89-9delta-BHC (Lindane)_ 1 76-44-8Heptachlor	1 36 11 36 11 36 11 36 11 36 11 36 11 36 11 36 11
1 309-00-2Aldrin 36 !_U_1 1 1024-57-3Heptachlor Epoxide 36 !_U_1 1 959-98-8Endosulfan I 36 !_U_1 1 60-57-1Dieldrin 72 !_U_1 1 72-55-94, 4'-DDE 72 !_U_1 1 72-20-8Endorin 72 !_U_1		<pre>1 1024-57-3Heptachlor Epoxide 1 959-98-8Endogulfan I 1 60-57-1Dieldrin 1 72-55-94,4'-DDE</pre>	
i 72-20-8Endrin 72 !_U ! i 33213-65-9Endosulfan II 72 !_U ! i 72-54-84,4'-DDD 72 !_U ! i 1031-07-8Endosulfan Sulfate 72 !_U ! i 50-29-34,4'-DDT 72 !_U ! i 72-43-5Hethoxychlor 72 !_U !		<pre>1 72-54-84,4'-DDD 1 1031-07-8Endosulfan Sulfate 1 50-29-34,4'-DDT</pre>	I 72 I_U_I 72 I_U_I 72 I_U_I 72 I_U_I
1 53494-70-5Endrin Ketone1 72 i_U_i 1 5103-71-9alpha-Chlordane1 72 i_U_i 1 5103-74-2gamma-Chlordane1 72 i_U_i 1 8001-35-2Toxaphene 72 i_U_i	-	<pre>1 53494-70-5Endrin Ketone 1 5103-71-9alpha-Chlordane 1 5103-74-2gamma-Chlordane 1 8001-35-2Toxaphene</pre>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
i 11104-28-2Aroclor-1221i 3G0 !Ui i 11141-16-5Aroclor-1232i 3G0 !Ui i 53469-21-9Aroclor-1242i 360 !Ui i 12672-29-6Aroclor-1248i 360 !Ui		11104-28-2Aroclor-1221 11141-16-5Aroclor-1232 53469-21-9Aroclor-1242 12672-29-6Aroclor-1248	i 360 i_U_i i 360 i_U_i i 360 i_U_i i 360 i_U_i i 360 i_U_i
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Versar, Inc. Laboratory Operations 6850 Versar Center, Springfield VA 22151 (703) 750-3000

ISample Humber 1 ISH8873803001 I

	URGANICS ANALYS	SIS DATA SHEET (Page 1)	
Laboratory Hame:VERSAR		Case Ho:	6016 B#232
Lab Sample ID No:	50835	QC Report No:	6016 B#232
Sample Matrix:	SOIL	Contract No:	C001298
Data Release Authorized By:		Date Sample Received:	06/17/88
		LE COMPOUNDS	
	Concentration:	LOW	
	Date Extracted/Pre	pared:06/22/88	
	Date Amalyzed:	06/22/88	
	Conc/Dil Factor:	1 pH	NA
	Percent Moisture:	9.09	

CAC

Number		ug/Kg		
174-87-3	Chloromethane	1	11	u
74-83-9	I Bronceethane	1	11	U
75-01-4	Winyl Chloride	1	11	u
75-00-3	iChloroethane	1	11	u
75-09-2	Hethylene Chloride	1	5	u
67-64-1	lAcetone		11	U
75-15-0	Carbon Disulfide	1	5	u
75-35-4	11,1-Dichloroethene	1	5	u
75-34-3	11,1-Dichloroethane	1	5	u
156-60-5	ITrans-1,2-Dichloroethene	 	5	u
67-66-3	IChlorofors		5	u
107-06-2	11,2-Dichloroethane	1	5	u
78-93-3	12-butanone	1	11	U
71-55-6	11,1,1-Trichloroethane	1	5	u
56-23-5	ICarbon Tetrachloride	 	5	u
108-05-4	IVinyl Acetate		11	u
75-27-4	1Bromodichloromethane	1	5	u

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178-87-5	11,2-Dichloropropane	і 5 ц I
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1124-48-1	IDibromochloromethane	l Sul
179-00-5	11,1,2-Trichloroethane	l 5ui
171-43-2	IBenzene	l 5ul
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1110-75-8	12-chloroethylvinylether	l 11 u l
175-25-2	Bronoform	i Sul
108-10-1	14-Methyl-2-Pentanone	1 11 11
1591-78-6	-	 11 u
1127-18-4	Tetrachloroethene	l Sul
179-34-5		
	11,1,2,2-Tetrachloroethane	l Sul
1108-68-3	IToluene	l 5ul
1108-90-7	IChlorobenzene	i Sui
1	Ethylbenzene	-[] Ι 5μ
1100-42-5	IStyrene	i 5ul
1	iTotal Xylenes	f Sul

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

- u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)

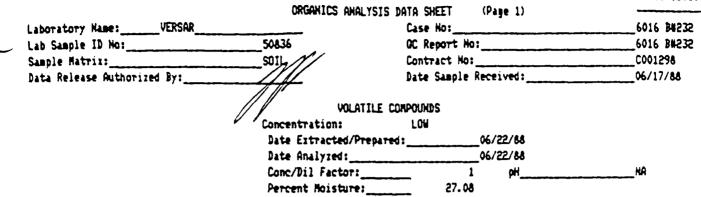
C This flag applies to pesticide parameters where the identification has been confirmed by GC/HS.

- B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- T Spectrum does not meet criteria for confirmation but does indicate compound presence.
- HR Not Required.
- HA Compound present in both matrix spike standard and unspiked sample.

Versar, Inc. Laboratory Operations 6850 Versar Center, Springfield VA 22151 (703) 750-3000

ISample Humber I ISH8873803002 |

16



Husber		ug/Kg	
174-87-3	iChlorosethane		 14 u
174-83-9	18romomethane	1	14 u
175-01-4	Winyl Chloride	1	- 14 u
175-00-3	IChloroethane	1	14 u
175-09-2	(Methylene Chloride	1	7 u
167-64-1	IAcetone		14 u
75-15-0	Carbon Disulfide	1	7 u
75-35-4	11,1-Dichloroethene	1	7 u
75-34-3	11,1-Dichloroethane	I.	7 u
156-60-5	ITrans-1,2-Dichloroethene	1	7 แ
67-66-3	iChlorofore		7 u
107-06-2	11,2-Dichloroethane	1	7 u
78-93-3	12-butanone	1	14 u
71-55-6	11,1,1-Trichloroethane	1	7 u
56-23-5	Carbon Tetrachloride	1	7 u
108-05-4	IVinyl Acetate		14 u
75-27-4	IBromodichloromethane	1	7 u

000

CAS Hunber		ug/Kg
178-87-5		1 7 4 1
110061-02-6		
179-01-6	ITrichloroethene	l 7ui
1124-48-1	IDibromochloromethane	1 7ul
179-00-5	11,1,2-Trichloroethane	l 7ul
171-43-2	Benzene	1 7 u l
110061-01-5	lcis-1,3-Dichloropropene	1 7ul
1110-75-8	12-chloroethylvinylether	1 14 u i
175-25-2	Brosoform	i 7ul
1108-10-1	14-Methy1-2-Pentanone	1 14 u i
1591-78-6	12-Hexanone	i 14 u i
1127-18-4	ITetrachloroethene	1 7ui
179-34-5	11,1,2,2-Tetrachloroethane	1 7ul
1108-88-3	iToluene	1 7 u i
1108-90-7	[Chlorobenzene	1 741
1	-I IEthylbenzene	- 7 µ
1100-42-5	IStyrene	J 7 1 1
	ITotal Xylenes	i 7ul

Data Reporting Qualifiers

Form I

- Value If the result is a value greater than or equal to the detection limit, report the value.
- u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)
- This flag applies to pesticide parameters where the identification has been confirmed by GC/MS.
- 3 This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- T Spectrum does not meet criteria for confirmation but does indicate compound presence.
- NR Not Required.

C

NA Compound present in both matrix spike standard and unspiked sample. Versar, Inc. Laboratory Operations 6850 Versar Center, Springfield VA 22151 (703) 750-3000

ISample Humber I ISH8873803003 I

0073003003

、	URGANICS ANALY	SIS DATA SHEET (Page 1)	**************************************
Laboratory Hame:VERSAR		Case Ho:	6016 B#232
Lab Sample ID No:	50837	QC Report No:	6016 B#232
Sample Matrix:	SOIL 11.	Contract No:	C001298
Data Release Authorized By:		Date Sample Received:	06/17/88
	VOLATI Concentration:	LE COMPOUNDS LOW	
	Date Estracted/Pre		
	Date Analyzed:	06/22/88	
	Conc/Dil Factor:	1 pH	NA
	Percent Hoisture:	7.31	

DOCANTES ANALYATA NATA CUFET

Husber		ug/Kg		
174-87-3	Chloroaethane	1	11	u
174-83-9	18romomethane	I	11	u
175-01-4	(Vinyl Chloride	1	11	u
75-00-3	iChloroethane	1	11	u
175-09-2	Hethylene Chloride	1	5	U
167-64-1	lAcetone		11	u
175-15-0	Carbon Disulfide	1	- 5	u
175-35-4	11,1-Dichloroethene	1	5	u
175-34-3	11,1-Dichloroethane	1	5	u
156-60-5 	ITrans-1,2-Dichloroethene	 	5	u
67-66-3	iChloroform	1	5	ų
107-06-2	11,2-Dichloroethane	1	5	u
178-93-3	12-butanone	I.	11	u
171-55-6	11,1,1-Trichloroethane	1	5	u
156-23-5	ICarbon Tetrachloride	 	5	u
108-05-4	IVinyl Acetate		11	u
75-27-4	IBromodichloromethane	l I	5	u

Hunber		ug/Kg	
178-87-5	11,2-Dichloropropane	1 5	u
110061-02-6	ITrans-1,3-Dichloropropene	1 5	u I
179-01-6	ITrichloroethene	i 5	u l
1124-48-1	Dibrosochlorosethane	I 5	u i
179-00-5	11,1,2-Trichloroethane	1 5	u i
171-43-2	Benzene	1 5) u
110061-01-5	lcis-1,3-Dichloropropene	1 5	u l
1110-75-8	12-chloroethylvinylether	1 11	u l
175-25-2	Brosofors	1 5	u I
1108-10-1	14-Methy1-2-Pentanone	1 11	u ł
1591-78-6	12-Heranone	1 11	, u
1127-18-4	lTetrachloroethene	I 5	u I
179-34-5	11,1,2,2-Tetrachloroethane	1 5	u l
1108-66-3	IToluene	1 5	u i
108-90-7	iChlorobenzene	1 5	u l
 100-41-4	-l IEthylbenzene	1 . 5	I u)
1100-42-5	IStyrene	1 5	u i
1	ITotal Xylenes	1 5	u I

Data Reporting Qualifiers

Value If the result is a value greater than or equal to the detection limit, report the value.

- u Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.
- J Estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response factor is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero. (e.g. 10J)
- C This flag applies to pesticide parameters where the identification has been confirmed by GC/HS.
- B This flag is used when the analyte is found in the blank as well as the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.
- T Spectrum does not meet criteria for confirmation but does indicate compound presence.
- HR Hot Required.
- NA Compound present in both matrix spike standard and unspiked sample.

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3	5231.00.11500			NYSDEC	- Niagara	Mohawk	Fire Train	ning s
JOB NO.	5231.00.11500	<u> </u>		P TELECO				
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DATE	2-28-91			TELEPHONE	(315	-) 34	3 . 337	5
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PURPOSE OF	TELECON AND/	OR EQUIPMENT	INVOLVE POP	D:	DATZ	<u> </u>		
TEXT OF TE	LECON			<u></u>		<u> </u>		
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JOB NO.	35231.00.115			NYSDEC - Ni			ig Sc
			<u>HEHO O</u>	F TELECON			
DATE	2-28-9	1		TELEPHONE	(315) 34	13-2586	
	CALLING D.			PERSON CALLED			FFL
			Buffalo	REPRESENTING	TOUN	OF CSUEC	o
PURPOSE	OF TELECON AN	ND/OR EQUIPH					
			1-tail	ATTON D	474		
TEXT OF	TELECON						
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	Town	rF (SWEGO	WAS	802+.		
	Town	rf (SWEGO	WAS	802+.		
	Town	rf (SWEGO	WAS	802+.		
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	Town	rf C	SWEGO	WAS			
	Town	rF (SWEGO	WAS	802+.		
	Town	rf (SWEGO	WAS	802+.		
	Town	rf (SWEGO	WAS			
	Town	rF C	SWEGO	<u>.</u>			
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	Town			<u>WAS</u>			

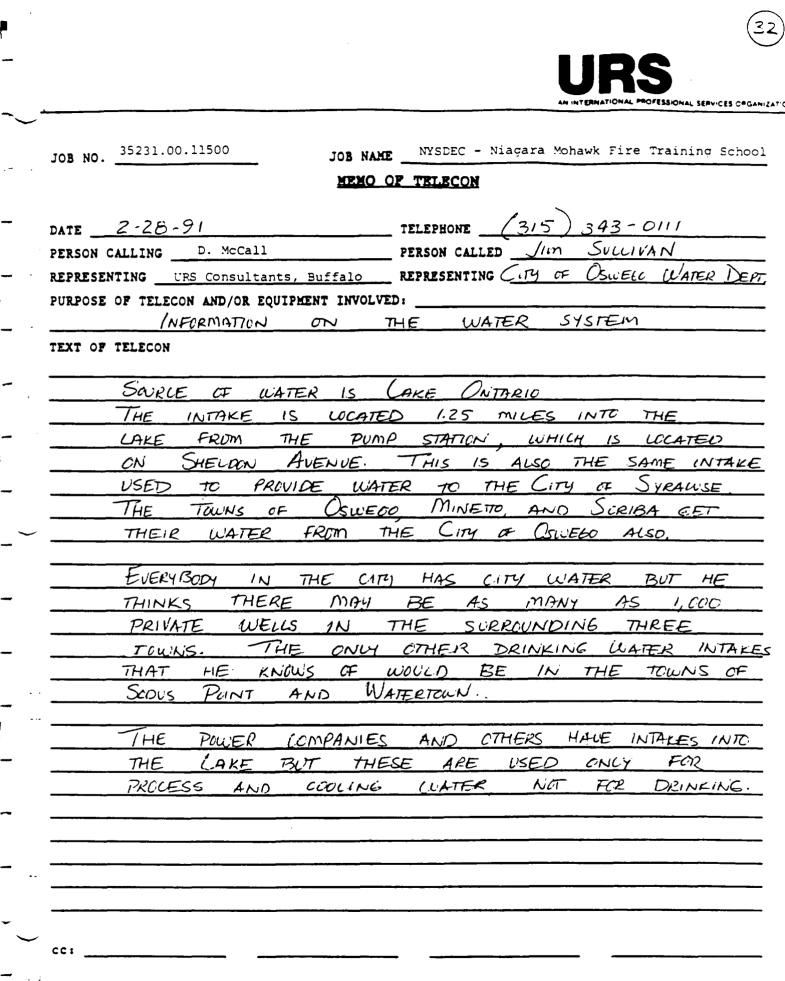
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JOB NO	31.00.11500		JOB NAME	NYSDEC -	Niagara Mohaw	vk Fire Training Sc	hool
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DATE 2						42-8116	
PERSON CALLI				PERSON CALL		CLERK'S OFFIC OF CSWEGO	<u>+</u>
PURPOSE OF T	ELECON AND/O	R EQUIPMENT	INVOLVE				
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JOB NO. 35231.00.11500 JOB NAMEWYSDEC - NIAGAZA MONAWK FIRE TRAINING SCHO KENO OF TELECON DATE3-12-91 TELEPHONE(315)_342_3723 PERSON CALLINGD. MCCALL PERSON CALLEDGREGJONIES REPRESENTINGURSCONSULTANTS, BUFFAIOREPRESENTING WATER SUPER /AFO. ON THE SCLIBA WATER SYSTEM TEXT OF TELECON /AFO. ON THE SCLIBA WATER SYSTEM TEXT OF TELECON 		I
JOB NO. 35231.00.11500 JOB NAKE _NYSDEC - Niacara Mohawk Fire Training Scho NERO OF TELECON DATE _3-12-91		
DRIE		CES CRGA
DRIE	NVEDEC - Niggara Nobult Fire Training	C e in e e
DATE <u>3-12-91</u> TELEPHONE <u>(315)</u> 342 - 3723 PERSON CALLING D. MCCall PERSON CALLING D. MCCall PERSON CALLING DATES ON THE SUBJECT AND A CONTRACT SUPER S		
PERSON CALLING D. McCall PERSON CALLED GREG JONES REPRESENTING URS CONSULTANTS, BUITALD REPRESENTING WATER SUPE - SCRIBA PURPOSE OF TELECON AND/OR EQUIPMENT INVOLVED: /NFO. ON THE SCRIBA WATER SYSTEM TEXT OF TELECON EVERYBODY IN NORTHWEST SCRIBA HAS MUNICIPAL WATER EXCEPT FOR A FEN RESIDENCES IN THE BEACH AREA. Smith's BEACH is ONE of THE AREAS THAT IS TROBABLY USING GROUNDWATER FOR DRINKING WATER. AS FAR AS HE KNOWS, THEY HAVE NOT YET RECEIVED MUNICIPAL WATER.	ELEO OF TELECON	
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THEY HAVE NOT YET RECEIVED MUNICIPAL WATER.	TRINKING INFTER AS FAR AS HE KNOWS	
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	THEY HAVE NOT YET RECEIVED MUNICIPAL	
	WATER.	
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			AN	INTERNATIONAL P	OFESSIONAL SERVIC
JOB NO. 35231.00.11500	JOB NAME	NYSDEC - Ni	agara Mo	hawk Fire	Training S
	<u>HEMO OF</u>	TELECON			
DATE 2-27-91		TELEPHONE (315)	343 -4	4681
PERSON CALLING D. McCall		PERSON CALLED			
REPRESENTING URS Consultants,			WATE:	2 SVPT	TOWN OF
PURPOSE OF TELECON AND/OR EQUIP: /NFORMATR	CN CN TH		? 545	FEM	
TEXT OF TELECON					
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THE SYSTEM	FOR THE	TOWN	SERVIC		ILY THE
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TOWN OF CHUER	e NOT	THE CIT	<u>.</u>	HEIR	SOURCE
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WATER FROM	OSWF.60	CITY			
RECOMMENDED	CALLINE	MR.	Jim	Sim	AN Q
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	IIRS
	OB NAME
	NENO OF TELECON
DATE 8/13/91	TELEPHONE 315- 4/28-3101
PERSON CALLING Phyllis Rettke	PERSON CALLED James Morgan
REPRESENTING UKS	REPRESENTING Environmental Analyst - N.
PURPOSE OF TELECON AND/OR EQUIPHENT	INVOLVED:
TEXT OF TELECON	
_All of these storage tank	s reawingd in 1990 -
Tank # 1, 2, 3, 4, 6,	7, 8, 9, 10, 11, 12 + 100 gallon
warte oil tank	
- replaced with 2 a	above ground steel 8000
- gallon tanks for the	aliferenter rel.
The had the sector	+ in all a prepart -
	t mould be complete - tition to have the site delisted.
NIMC wants to pe	unter to hall the part for an
YIMC wades to pe	united to have been a
YIMC Wedles to pe	
YIM(S Walls 40 pe	
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YIM() Wadds 40 pe	

F

APPENDIX D

P

Hazard Ranking System

FACILITY NAME:	Niagara Mohawk Fir	e Training School			
LOCATION:	East Seneca Street, C	East Seneca Street, Oswego, Oswego County, NY			
EPA REGION:	EPA Region II; NYSDEC Region 7				
PERSON(S) IN CHARC	GE OF THE FACILITY:	Niagara Mohawk Power Corpor	ation		
PERSON(S) IN CHARC	GE OF THE FACILITY:	Niagara Mohawk Power Corpor 300 Erie Boulevard West	ation		
PERSON(S) IN CHARC	GE OF THE FACILITY:		ation		

GENERAL DESCRIPTION OF THE FACILTY:

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

The Niagara Mohawk Fire Training School is an active site used to train personnel in techniques for fighting fires involving Niagara Mohawk electrical systems. Prior to 1977, some of the oil used in fire simulations was contaminated with PCBs. PCBs have been detected in the soil, groundwater, surface water and sediments around the site. One soil sample was found to contain total dioxins of 24 ppb. Several NYSDEC Wetlands are located in the immediate vicinity of the site. White Creek flows adjacent to the site on the west side and Lake Ontario is approximately 1/2 mile north of the site. The high values for groundwater and surface water migration are due to releases that were observed in 1978 and that probably do not reflect the current site conditions. Much of the contamination detected in 1978 would have been released prior to the construction of a moat around three sides of the site in 1977. The moat should be adequate for surface water and possibly groundwater containment at the site.

SCORES: Sm= 17.31 (Sgw = 25.35 Ssw = 15.94 Sa = 0) Sfe = 0 Sdc = 16.67

HRS COVER SHEET

RATING FACTOR	ASSIGNED VALU	E MULTI-	SCORE	MAX.		REF.
	(CIRCLE ON	E) PLIER		SCORE		(SECTIO
1 OBSERVED RELEASE	0 45 [45 1		45	45	3
IF OBSERVED RELEA						
2 ROUTE CHARACT	ERISTICS					3
DEPTH TO AQUIFER OF	0123[2	· .	0	6	
NET PRECIPITATION	0123[1		0	3	
PERMEABILITY OF THE	0123	1		0	3	
UNSATURATED ZONE				_	_	
PHYSICAL STATE	0123	1		0	3	
TOTAL ROUT	E CHARACTERISTIC	3 SCORE		0	15	
3 CONTAINMENT	0 1 2 3	1		0	3	
4 WASTE CHARACTE	ERISTICS			h		±
TOXICITY/PERSISTANCE	0369 [18 1		18	18	
HAZARDOUS WASTE	r					
QUANTITY	0123	1 1		1	8	
TOTAL WAST	E CHARACTERISTIC	SCORE		19	26].
5 TARGETS	······	<u>-</u>				I
GROUND WATER USE DISTANCE TO NEAREST W	L.	3 3		9	9	
POPULATION SERVED	046810					
	12 16 18 20	8 1	-	8	40	
	24 30 32 35 4	 0				
<u> </u>	TOTAL TAR	GETS SCORE		17	49	
6 IF LINE 1 IS 45, MU	LTIPLY 1 X 4	X 5	14	535	57,330	
IF LINE 1 IS 0, MUI				0		<u> </u>
7 DIVIDE LINE 6 BY	57,330 AND M	ULTIPLY BY Sgw =		.35		

GROUND WATER ROUTE WORK SHEET

100147

	SURFACE WATER ROUTE WORK SHEET					
RATING FACTOR	ASSIGNED V		MULTI- PLIER	SCORE	MAX. SCORE	REF. (SECTION)
I OBSERVED RELEASE	0 45	45] 1	45	45	4.1
IF OBSERVED RELE IF OBSERVED RELE						
2 ROUTE CHARAC	TERISTI	CS				4.2
FACILITIES SLOPE AND INTERVENING TERRAIN	0123	3] 1	0	3	
	0 1 2 3 0 1 2 3	-	1 2	0 0	3 6	
	0123	8] 1	0	3	
TOTAL ROUTE C	HARACTERIS	mcs sc	ORE	0	15	
3 CONTAINMENT	0 1 2 3	3	1	0	3	4.3
4 WASTE CHARACTER TOXICTTY/PERSISTANCE HAZARDOUS WASTE		s 18	1	18	18	4.4
QUANTITY 1 2 3 4	5678	3 1	1	1	8	
TOTAL WASTE	HARACTERIS	STICS SC	ORE	19	26	
5 TARGETS SURFACE WATER USE DISTANCE TO A SENSITIVE	0123	3 2	3	6	9	4.5
	0123	3	2	- 6	6	
	12 16 18 20 24 30 32 35 40	0	1	0		
	TOTAL T	ARGE	TS SCORE	12	55	
6 IF LINE 1 IS 45, M IF LINE 1 IS 0, MU				10260 0	64,350	
7 DIVIDE LINE 6 BY					4 <u>, ',</u>	

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SURFACE WATER ROUTE WORK SHEET

	<u> </u>					
	AIR ROUTE	WORK SHE	EET			
RATING FACTOR	ASSIGNED VALUE	MULTI-	SCORE	MAX.	REP.	
<u> </u>	(CIRCLE ONE)	PLIER		SCORE	(SECTION)	
1 OBSERVED RELEAS	0 45 0]1	0	45	5.1	
DATE AND LOCATION	:					
SAMPLING PROTOCOL						
IF LINE 1 IS 0, THE Sa IF LINE 1 IS 45, THEN						
2 WASTE CHARACTER	RISTICS				5.2	
REACTIVITY AND INCOMPATIBILITY TOXICITY HAZARDOUS WASTE 3 4 QUANTITY	0 1 2 3 0 1 2 3 5 6 7 8	1 3 1	0 0	3 9 8		
				20		
TOTAL WASTE CHARA	CTERISTICS SC	URE	0	20	<u>I</u>	
3 TARGETS					5.3	
POPULATION WITHIN 4 MILE RADIUS DISTANCE TO SENSITIVE	0 9 12 21 24 27] 1	0	30		
ENVIRONMENT LAND USE	0 1 2 3	2 1	0	6 3		
	TOTAL TARGE	TS SCORE	0	39		
4 MULTIPLY 1 X 2	X 3		0	35,100		
5 DIVIDE LINE 4 BY 35,100 AND MULTIPLY BY 100 Sa= 0.00						

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AIR ROUTE WORK SHEET

	S	S ²
GROUNDWATER ROUTE SCORE (Sgw)	25.35	642.79
SURFACE WATER ROUTE SCORE (Ssw)	15.94	254.21
AIR ROUTE SCORE (Sa)	0.00	0.00
$S^2gw + S^2sw + S^2a$		897.00
square root of(S ² gw + S ² sw + S ² a)		29.95
square root of $(S^2gw + S^2sw + S^2a)/1.73 = Sm$		17.31

WORKSHEET FOR COMPUTING Sm

		FIRE AND EX	XPLOSION	WORK SHEET		
NOT	Applicable for RATING FACTOR	ASSIGNED VALUE		SCORE	MAX.	
	RATING FACTOR			SCORE	SCORE	REF.
		(CIRCLE ONE)	PLIER		SCORE	(SECTION)
		1 3	1	0	3	7.1
	1 CONTAINMENT		j		5	/.1
	2 WASTE CHARACTE	RISTICS		· · · · · · · · · · · · · · · · · · ·	·	•
	DIRECT EVIDENCE	0 3] 1		3	7.2
	IGNITABILITY	0 1 2 3	1 1	0	3	
	REACTIVITY	0 1 2 3	1 1	0	3	
	INCOMPATIBILITY	0 1 2 3	1 1	0	3	
	HAZARDOUS WASTE		-		3	
	QUANTITY 1 2 3 4	5678] 1	0	8	
						ı
	TOTAL WASTE	CHARACTERISTICS SC	CORE	0	20	
	3 TARGETS					7.3
	DISTANCE TO NEAREST	0 1 2 3 4 5] 1			
	POPULATION DISTANCE TO NEAREST	0 1 2 3] 1			
	BUILDING					
	DISTANCE TO A SENSITIVE		.			
	ENVIRONMENT	0 1 2 3	1		6	
	LAND USE	0 1 2 3	1			
	POPULATION WITHIN	012345] 1			
	2 MILE RADIUS		2			
	BUILDINGS WITHIN	012345] 1			
	2 MILE RADIUS			1		·
				•		
		TOTAL TARGE	TS SCORE	0	24	
	4 MULTIPLY 1 X 2 3			0	1,440	
				·	 , . , 0	<u></u>
	5 DIVIDE LINE 4 BY 1	440 AND MULT	IPLY BY 10	0		
		,	Sfe =	0.00		
L				0.00		

FIRE AND EXPLOSION WORK SHEET

• • •

DIRECT CONTACT WORK SHEET **RATING FACTOR** ASSIGNED VALUE MULTI- SCORE MAX. REF. (CIRCLE ONE) PLIER SCORE (SECTION) 45 0 0 0 45 1 OBSERVED RELEASE 1 8.1 IF LINE 1 IS 45, PROCEED TO LINE 2 IF LINE 1 IS 0, PROCEED TO LINE 2 2 2 ACCESSIBILITY 0 1 2 3 2 1 3 8.2 15 15 3 CONTAINMENT 0 1 8.3 15 15 8.4 4 WASTE CHARACTERISTICS 5 15 15 0 1 2 3 3 TOXICITY **5 TARGETS** 8.5 8 20 POPULATION WITHIN 0 1 2 3 4 5 2 4 **1 MILE RADIUS** DISTANCE TO A CRITICAL HABITAT 0 1 2 3 0 0 12 4 . 32 8 TOTAL TARGETS SCORE 6 IF LINE 1 IS 45, MULTIPLY 1 X 4 X 5 0 IF LINE 1 IS 0, MULTIPLY 2 X 3 X 4 X 5 3600 21,600 7 DIVIDE LINE 6 BY 21,600 AND MULTIPLY BY 100 Sdc = 16.67

DIRECT CONTACT WORK SHEET

GROUNDWATER ROUTE

1 OBSERVED RELEASE

o CONTAMINANTS DETECTED (5 MAXIMUM):

PCBs were detected in the groundwater downgradient from the site in 1978 (Ref. 6).

• RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

PCB contaminated oil was used at the site for fire simulations and migrated into soil groundwater and surface water. Steps have since been taken to limit migration.

SCORE 45

2. ROUTE CHARACTERISTICS

DEPTH TO AQUIFER OF CONCERN

• NAME/DESCRIPTION OF AQUIFER(S) OF CONCERN:

NA

• DEPTH(S) FROM THE GROUND SURFACE TO THE HIGHEST SEASONAL LEVEL OF THE SATURATED ZONE [WATER TABLE(S)] OF THE AQUIFER OF CONCERN:

NA

• DEPTH FROM THE GROUND SURFACE TO THE LOWEST POINT OF WASTE DISPOSAL/STORAGE:

NA

SCORE O

NET PRECIPITATION

.

- MEAN ANNUAL OR SEASONAL PRECIPITATION(LIST MONTHS FOR SEASONAL):
 NA
- MEAN ANNUAL OR SEASONAL EVAPORATION (LIST MONTHS FOR SEASONAL):
 NA
- NET PRECIPITATION (SUBTRACT THE ABOVE FIGURES):

NA

SCORE 0

PERMEABILITY OF UNSATURATED ZONE

• SOIL TYPE IN UNSATURATED ZONE:

NA

• PERMEABILITY ASSOCIATED WITH SOIL TYPE:

NA

SCORE O

PHYSICAL STATE

 PHYSICAL STATE OF SUBSTANCES AT TIME OF DISPOSAL (OR AT PRESENT TIME FOR GENERATED GASES):

NA

score <u>o</u>

- -

3. CONTAINMENT

CONTAINMENT

METHOD(S) OF WASTE OF LEACHATE CONTAINMENT EVALUATED:

NA

o METHOD WITH THE HIGHEST SCORE:

NA

SCORE 0

4.

*** WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

• COMPOUND(S) EVALUATED:

COMPOUND EVALUATED	TOXICITY	PERSISTENCE	SCORE
PCBs	3	3	18
Dioxin	3	3	18
Aldrin	3	3	18
Dieldrin	3	3	18
Endosulfan II	3	3	18

• COMPOUND WITH THE HIGHEST SCORE:

All compounds scored 18

SCORE <u>18</u>

HAZARDOUS WASTE QUANTITY

 TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY, EXCLUDING THOSE WITH A CONTAINMENT SCORE OF O(GIVE A REASONABLE ESTIMATE EVEN IF QUANTITY IS ABOVE MAXIMUM):

Unknown

SCORE 1

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BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

The total amount of contaminated oil released is unknown. Much of the oil is being recovered. The minimum quantity of waste scored is 1.

SURFACE WATER ROUTE

- 1. OBSERVED RELEASE
- CONTAMINANTS DETECTED IN SURFACE WATER AT THE FACILITY OR DOWNHILL FROM IT (5 MAXIMUM):

PCBs were detected in White Creek in 1978 (Ref. 6).

• RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE FACILITY:

PCB contaminated oil was used at the site for fire simulations. Higher concentrations were detected in the downstream than in the upstream samples.

SCORE 45

2. ROUTE CHARACTERISTICS

FACILITY SLOPE AND INTERVENING TERRAIN

• AVERAGE SLOPE OF THE FACILITY IN PERCENT:

NA

• NAME/DESCRIPTION OF THE NEAREST DOWNSLOPE SURFACE WATER:

NA

o AVERAGE SLOPE OF TERRAIN BETWEEN FACILITY AND ABOVE-CITED SURFACE WATER IN PERCENT:

NA

• IS THE FACILITY LOCATED EITHER TOTALLY OR PARTIALLY IN SURFACE WATER?:

NA

SCORE O

IS THE FACILITY COMPLETELY SURROUNDED BY AREAS OF HIGHER ELEVATION? NA

1-YEAR 24 HOUR RAINFALL IN INCHES

NA

SCORE O

....

DISTANCE TO NEAREST DOWNSLOPE SURFACE WATER

NA

SCORE O

PHYSICAL STATE OF WASTE

NA

SCORE <u>0</u>

3. CONTAINMENT

CONTAINMENT

o METHOD(S) OF WASTE OR LEACHATE CONTAINMENT EVALUATED:

NA

• METHOD WITH THE HIGHEST SCORE:

NA

SCORE O

5. TARGETS

GROUNDWATER USE

USE(S) OF AQUIFER(S) OF CONCERN WITHIN A 3-MILE RADIUS OF THE FACILITY:

Most residents in the vicinity of the site obtain their water from municipal supply. However, some of the beachfront residences are using groundwater. No municipal water is yet available to the Smith's Beach area of the Town of Scriba (Ref. 30, 31, 32).

SCORE 3

DISTANCE OF NEAREST WELL

 LOCATION OF NEAREST WELL DRAWING FROM <u>AQUIFER OF CONCERN</u> OR OCCUPIED BUILDING NOT SERVED BY A PUBLIC WATER SUPPLY;

Assumed to be north in the Smith's Beach area (Ref. 30)

• DISTANCE TO ABOVE WELL OR BUILDING:

0.6 mile (3000 feet) (Ref. 4, 10)

POPULATION SERVED BY GROUNDWATER WELL WITHIN A 3-MILE RADIUS

• IDENTIFIED WATER-SUPPLY WELL(S) DRAWING FROM <u>AQUIFER(S) OF CONCERN</u> WITHIN A 3-MILE RADIUS AND POPULATIONS SERVED BY EACH:

Estimated to be approximately 80 people that would be affected by the aquifer of concern.

 COMPUTATION OF LAND AREA IRRIGATED BY SUPPLY WELL(S) DRAWING FROM <u>AQUIFER(S) OF CONCERN</u> WITHIN A 3-MILE RADIUS, AND CONVERSION TO POPULATION(1.5 PEOPLE PER ACRE):

None Known

• TOTAL POPULATION SERVED BY GROUNDWATER WITHIN A 3-MILE RADIUS:

80

SCORE 8

4. WASTE CHARACTERISTICS

TOXICITY AND PERSISTENCE

o COMPOUND(S) EVALUATED

COMPOUND EVALUATED	TOXICITY	PERSISTENCE	SCORE
PCBs	3	3	18
Dioxin	3	3	18
Aldrin	3	3	18
Dieldrin	3	3	18
Endosulfan II	3	3	18

o COMPOUND WITH THE HIGHEST SCORE:

All compounds scored 18

SCORE

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):

Unknown

SCORE 1

• BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

The total amount of contaminated oil released is unknown. The minimum quantity of waste scored is 1.

5. TARGETS

SURFACE WATER USE

 USE(S) OF SURFACE WATER WITHIN 3 MILES DOWNSTREAM OF THE HAZARDOUS SUBSTANCE:

White Creek flows into Lake Ontario which is used for recreational purposes such as fishing and boating.

Score 2

o IS THERE TIDAL INFLUENCE?

NO

DISTANCE TO A SENSITIVE ENVIRONMENT

DISTANCE TO A 5-ACRE(MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS:

NA

• DISTANCE TO A 5 ACRE (MINIMUM) FRESH-WATER WETLAND, IF 1 MILE OR LESS:

< 50 feet to Wetlands OE-2 (Ref. 20, 21)

• DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES OR NATIONAL WILDLIFE REFUGE, IF 1 MILE OR LESS:

NA (Ref. 20, 21)

SCORE 3

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POPULATION SERVED BY SURFACE WATER

LOCATION(S) OF WATER-SUPPLY INTAKE(S) WITHIN 3 MILES(FREE-FLOWING BODIES)
 OR 1 MILE (STATIC WATER BODIES) DOWNSTREAM OF THE HAZARDOUS SUBSTANCE AND
 POPULATION SERVED BY EACH INTAKE:

The nearest water supply intakes are those of the City of Oswego, However these intakes are more than 3 miles from the site. • COMPUTATION OF LAND AREA IRRIGATED BY ABOVE-CITED INTAKE(S) AND CONVERSION TO POPULATION (1.5 PEOPLE PER ACRE):

NA

• TOTAL POPULATION SERVED

NA

• NAME/DESCRIPTION OF NEAREST ABOVE-CITED WATER BODIES:

White Creek, a tributary to Wine Creek, flows adjacent to the site.

• DISTANCE TO ABOVE-CITED INTAKES, MEASURED IN STREAM MILES:

NA

SCORE O

AIR ROUTE

- 1. OBSERVED RELEASE
- CONTAMINANTS DETECTED:

NA

• DATE AND LOCATION OF DETECTION OF CONTAMINANTS:

NA

• METHODS USED TO DETECT THE CONTAMINANTS:

NA

o RATIONALE FOR ATTRIBUTING THE CONTAMINANTS TO THE SITE:

NA

SCORE 0

2. WASTE CHARACTERISTICS

REACTIVITY AND INCOMPATIBILITY

MOST REACTIVE COMPOUND

NA

• MOST INCOMPATIBLE PAIR OF COMPOUNDS

NA

SCORE O

TOXICITY

• MOST TOXIC COMPOUND

NA

SCORE O

HAZARDOUS WASTE QUANTITY

• TOTAL QUANTITY OF HAZARDOUS WASTE:

NA

SCORE O

BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

NA

3 TARGETS

POPULATION WITHIN 4-MILE RADIUS

• UNDERLINE RADIUS USED, GIVE POPULATION AND INDICATE HOW DETERMINED:

0 TO 4 MI 0 TO 1 MI 0 TO 0.5 MI 0 TO 0.25 MI

NA

SCORE O

• •

DISTANCE TO A SENSITIVE ENVIRONMENT

o DISTANCE TO 5 ACRE (MINIMUM) COASTAL WETLAND, IF 2 MILES OR LESS:

NA

- DISTANCE TO 5 ACRE (MINIMUM) FRESH WATER WETLAND, IF 1 MILE OR LESS:
 NA
- DISTANCE TO CRITICAL HABITAT OF AN ENDANGERED SPECIES, IF 1 MILE OR LESS: NA

SCORE O

LAND USE

o DISTANCE TO COMMERCIAL/INDUSTRIAL AREA , IF 1 MILE OR LESS:

NA

 DISTANCE TO NATIONAL OR STATE PARK, FOREST, OR WILDLIFE RESERVE, IF 2 MILES OR LESS:

NA

• DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

NA

• DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN THE LAST 5 YEARS, IF 1 MILE OR LESS:

NA

• DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST YEARS, IF 2 MILES OR LESS:

NA

• IS A HISTORICAL OR LANDMARK SITE(NATIONAL REGISTER OR HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN VIEW OF THE SITE?

NA

SCORE 0

S. 1

FIRE AND EXPLOSION

1. CONTAINMENT

o HAZARDOUS SUBSTANCES PRESENT:

All hazardous wastes present at the site have seeped into the soil and surrounding area. All fires at the site are controlled and are not considered to be a significant threat. Furthermore, PCBs are not flammable.

• TYPE OF CONTAINMENT, IF APPLICABLE:

NA

SCORE O

2. WASTE CHARACTERISTICS

DIRECT EVIDENCE

• TYPE OF INSTRUMENT AND MEASUREMENTS:

NA

SCORE O

IGNITABILITY

• COMPOUND USED

NA

SCORE O

REACTIVITY

o MOST REACTIVE COMPOUND:

NA

score <u>o</u>

INCOMPATIBILITY

• MOST INCOMPATIBLE PAIR OF COMPOUNDS:

NA

SCORE_0

HAZARDOUS WASTE QUANTITY

• TOTAL QUANTITY OF HAZARDOUS SUBSTANCES AT THE FACILITY:

SCORE O

···

o BASIS OF ESTIMATING AND/OR COMPUTING WASTE QUANTITY:

NA

3 TARGETS

DISTANCE TO NEAREST POPULATION

NA

SCORE O

DISTANCE TO NEAREST BUILDING

NA

SCORE O

DISTANCE TO SENSITIVE ENVIRONMENT

• DISTANCE TO WETLANDS

NA

• DISTANCE TO CRITICAL HABITAT:

NA

score <u>0</u>

LAND USE

DISTANCE TO COMMERCIAL/INDUSTRIAL AREA

NA

 DISTANCE TO NATIONAL OR STATE PARK, FOREST OF WILDLIFE RESERVE, IF 2 MILES OR LESS:

NA

• DISTANCE TO RESIDENTIAL AREA, IF 2 MILES OR LESS:

.

NA

 DISTANCE TO AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF 1 MILE OR LESS:

NA

DISTANCE TO PRIME AGRICULTURAL LAND IN PRODUCTION WITHIN PAST 5 YEARS, IF
 2 MILES OR LESS:

NA

 IF A HISTORIC OR LANDMARK SITE (NATIONAL REGISTER OF HISTORIC PLACES AND NATIONAL NATURAL LANDMARKS) WITHIN VIEW OF THE SITE?

NA

score <u>o</u>

POPULATION WITHIN 2 MILE RADIUS

ŇΑ

SCORE 0

BUILDINGS WITHIN A 2 MILE RADIUS

NA

SCORE O

DIRECT CONTACT

1. OBSERVED INCIDENT

• DATE, LOCATION AND PERTINENT DETAILS OF INCIDENT:

NA, No confirmed instances or injury, illness, or death SCORE $\underline{0}$

2. ACCESSIBILITY

o DESCRIBE TYPE OF BARRIER(S):

The site is completely surrounded by a fence and a locked gate. The site is still used for fire training activities.

SCORE 2

3. CONTAINMENT

• TYPE OF CONTAINMENT, IF APPLICABLE:

The hazardous substance is in the ground and probably has less than 2 feet of cover.

SCORE <u>15</u>

4. WASTE CHARACTERISTICS

TOXICITY

• COMPOUNDS EVALUATED

COMPOUND EVALUATED	TOXICITY
PCBs	3
Dioxin	3
Aldrin	3
Dieldrin	3
Endosulfan II	3

• COMPOUND WITH HIGHEST SCORE:

All compounds scored 3.

SCORE 3

5 TARGETS

POPULATION WITHIN 1 MILE RADIUS

An estimated 460 people live within a 1-mile radius of the site (Ref. 22).

SCORE 2

DISTANCE TO CRITICAL HABITAT (OF ENDANGERED SPECIES)

NA, No critical habitat reported with a 1-mile radius (Ref. 20, 21)

SCORE $\underline{0}$

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