2021 Hazardous Waste Scanning Project

File Form Naming Convention.

(File_Type).(Program).(Site_Number).(YYYY-MM-DD).(File_Name).pdf

Note 1: Each category is separated by a period "." Note 2: Each word within category is separated by an underscore "_"

Report. HW 915008A. 1988-01-01. Phase_I

Specific File Naming Convention Label:



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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

Ashland Petroleum Corp. Town Of Tonawanda Site No. 915008A Erie County



Prepared for: New York State Department of Environmental Conservation 50 Wolf Road, Albany, New York 12233 Thomas C. Jorling, Commissioner

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

ENGINEERING-SCIENCE

By:

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

ASHLAND PETROLEUM CORPORATION NYS SITE NUMBER 915008A TOWN OF TONAWANDA ERIE COUNTY NEW YORK STATE

Prepared For

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DATE OF SUBMITTAL: January 1988

ASHLAND PETROLEUM CORPORATION

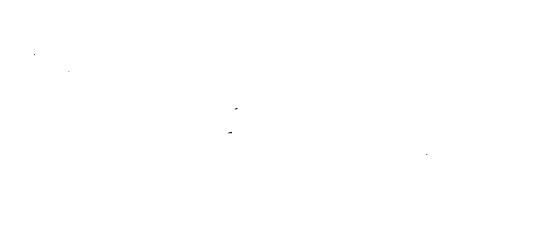
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PROPOSED UPDATED NYS REGISTRY

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SECTION I EXECUTIVE SUMMARY ASHLAND PETROLEUM CORP.

This report, prepared for the New York State Department of Environmental Conservation (NYSDEC) presents the results of the Phase I investigation for the Ashland Petroleum Corp. Site (NYS Site Number 915008A, EPA Site Number D0063653133) located in the Town of Tonawanda, Erie County, New York (see Figure I-1).

SITE BACKGROUND

The site is located within the Ashland Petroleum facility in the Town of Tonawanda, New York. The site is suspected of being used for the weathering of tetraethyl lead sludge and is located within the diked area of Tank No. 24. The Tank No. 24 site is approximately 10 feet by 30 feet. Tetraethyl lead sludge was reportedly disposed of within the diked area in 1953. After the sludge had weathered (volatilized), the sludge was removed for off-site disposal. No records exist which indicate where the sludges were disposed of off-site.

There appears to be some confusion as to the actual location of the site used by the Ashland Petroleum Corporation for the weathering of tetraethyl lead sludge. Based on an Industrial Chemical Survey completed by Ashland Petroleum, an estimated three tons/year of tetraethyl lead sludge were removed during the cleaning of gasoline holding tanks (Scalise, 1976). The NYSDEC indicated that the diked area of Tank No. 24 was used for the weathering of sludge in 1953 while Ashland Petroleum personnel report that only the Tank No. 22 diked area was used in 1976 for sludge weathering. However, Ashland personnel believe that the Tank

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No. 24 area may have been used in the 1950's for sludge weathering (Scalise, 1985). No detailed records of the quantity of wastes generated or where the sludges were weathered exist. Therefore, the Tank No. 24 site as designated by the NYSDEC, was the site evaluated during the Phase I investigation.

No groundwater, surface water, soil or waste sampling has been conducted at the Tank No. 24 site. However, an extensive monitoring program was conducted in the stream that receives surface water from Ashland's tank farm outfall. Surface water conveyed from the Ashland Tank Farm (including Tank No. 24) and other portions of the plant discharge from this outfall. Concentrations of lead (5.94 ppm) were detected that exceeded Class AA surface water levels (0.05 ppm).

ASSESSMENT

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

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

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- o S_{M} reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving groundwater, surface water or air. It is a composite of separate scores for each of the three routes (S_{GW} = groundwater route score, S_{SW} = surface water route score, and S_{A} = air route score).
- o S_{FE} reflects the potential for harm from substances that can explode or cause fires.
- o S_{pc} reflects the potential for harm from direct contact with hazardous substances at the facility (i.e., no migration need be involved).
- o The preliminary HRS score is:

S _M =	0.41	S _A = 0
S _{gw} =	0.70	$S_{FE} = 0$
S _{sw} =	0	$S_{\rm DC} = 0$

These scores reflect the fact that only a small quantity of tetraethyl lead sludge was spread within a diked area and removed after the lead had volatilized.

RECOMMENDATIONS

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

- o Groundwater sampling will not be required based on the following information:
 - TEL-ladened sludge was placed within an impermeable soil lined dike for weathering, thereby reducing the potential for groundwater contamination.

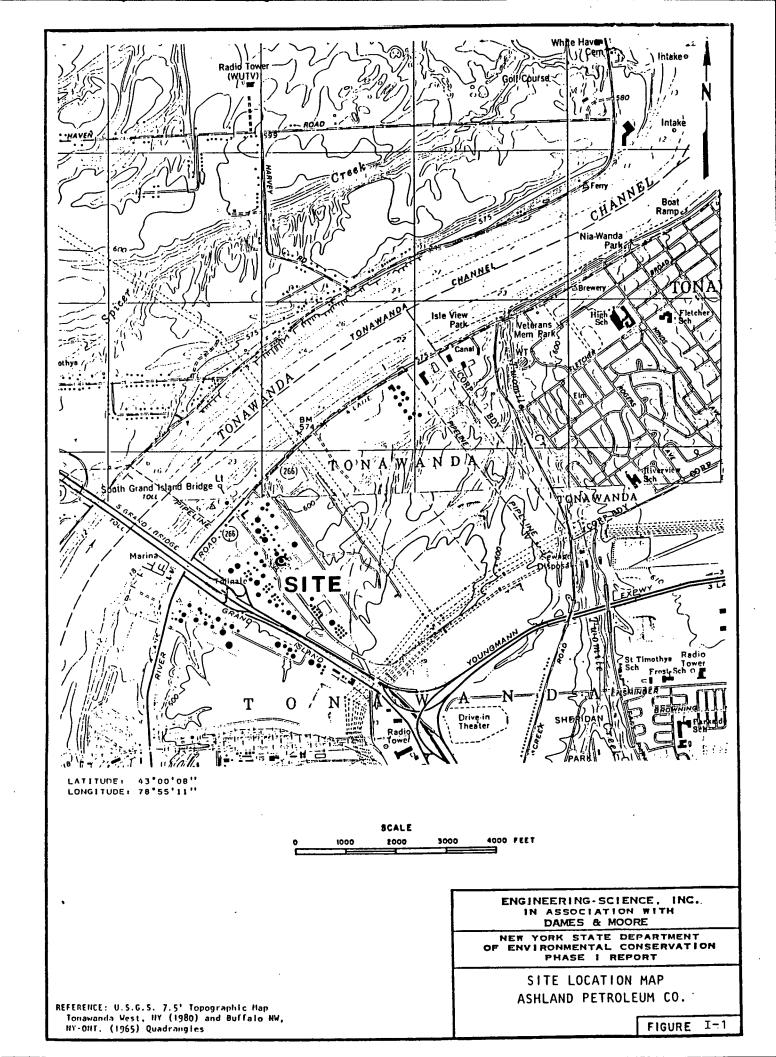
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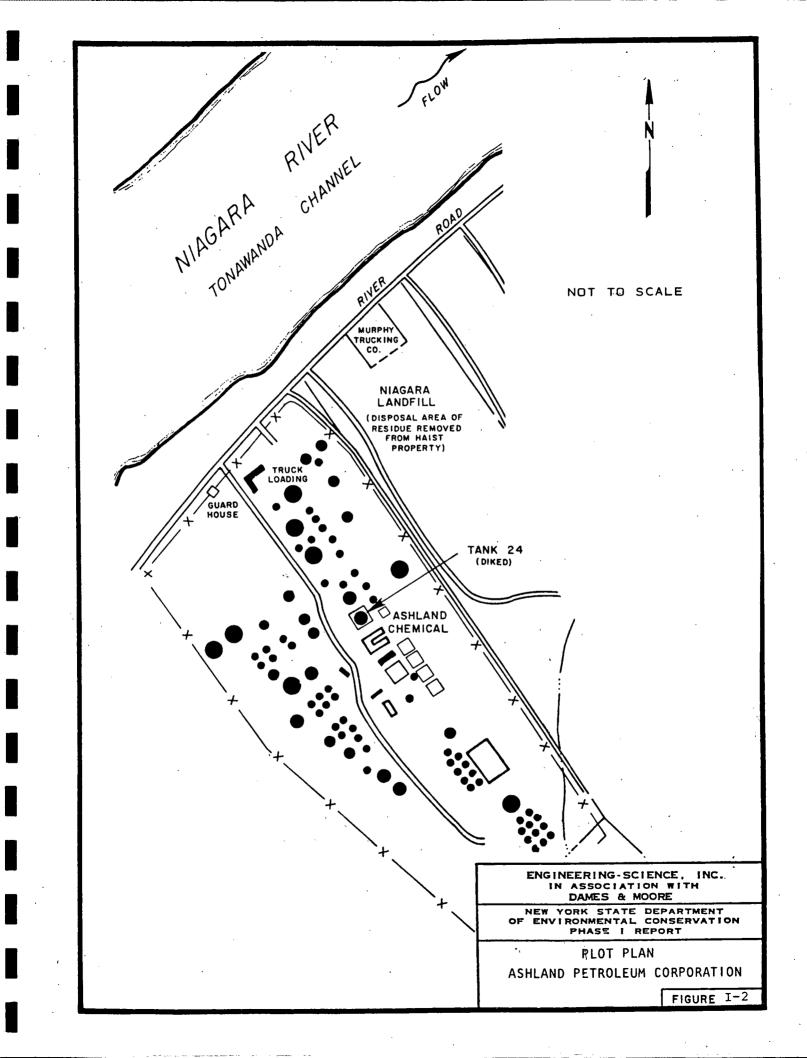
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- After weathering, the material was removed for offsite disposal.
- Subsurface soil samples consisting of 8 samples collected at 2 foot intervals at four locations within the diked area of Tank 24. Background subsurface soil samples consisting of 2 samples collected in an area away from the suspected disposal site. Samples will be analyzed for hazard substance list (HSL) metals.

The estimated man-hour requirements to complete Phase II are 594, while the estimated cost is \$29,135.

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SECTION II PURPOSE

The purpose of the Phase I investigation at the Ashland Petroleum Corp. site was to assess the hazard to the environment caused by the present condition of the site. This assessment is based on the Hazard Ranking System, which involves the compilation and rating of numerous geological, toxicological, environmental, chemical, and demographic factors and the calculation of an HRS score. Details of HRS implementation are included in Section V. During the initial portion of the investigation, available data and records, combined with information collected from a site inspection, were reviewed and evaluated. The investigation at this site focused on the disposal of tetraethyl lead sludges in 1953. Based on this initial evaluation of the Ashland Petroleum Corp. site, a Phase II Work Plan has been prepared for collecting any additional data needed to complete the HRS score. In addition, a cost estimate for the recommended Phase II work is provided.

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SECTION III SCOPE OF WORK

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

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

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SECTION IV

SECTION IV SITE ASSESSMENT

SITE HISTORY

The Ashland Petroleum-Tonawanda Facility, engaged in the refining of petroleum products, was established in 1928 as the Frontier Oil & Refining Company. The Ashland Petroleum Company assumed ownership of Frontier Oil in 1952, and is the current owner of the refining plant. In July 1982, the Ashland Refining Plant went out of production and remains closed to this date. The facility is currently owned by the Ashland Petroleum Company and is used as a petroleum storage depot. The facility has four confirmed Phase I disposal sites located on the property (ES and D&M Site Interview - Don Scalise, 12/10/85).

The processes previously used at the Ashland Petroleum Plant included crude distillation, catalytic cracking, platinum reforming, light ends treating and asphalt blowing. The products produced at the plant from these manufacturing activities included gasoline, liquified petroleum gas, distillates, aromatics, asphalt and synthetic natural gas (NYSDEC, 1976).

The Ashland Petroleum site being investigated consists of a 10 ft by 30 ft diked area around Tank 24. This area was reportedly used as a weathering area for tetraethyl lead (TEL) sludges (NYSDEC, Registry, 1985). In 1953, an estimated 420-630 gallons (10-15 barrels; one barrel equals 42 gallons) of TEL ladened sludge were generated during the cleaning of Tank 24. The sludge was spread in a 6-inch layer within the dike. The sludge was weathered for several weeks to allow the tetraethyl lead to volatilize. The sludge was then excavated and disposed of off-site. (NYSDEC-Buechi Memo, 1982).

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IV-1

It is noted that several other tanks in the same vicinity as Tank 24 were also cleaned following the same procedure. No records exist which indicate where the sludges were disposed of after being removed from the Ashland property. (ES and D&M Site Visit - Scalise, 1985; Du Pont Procedures Form).

Although there are no records which indicate where the excavated sludges were disposed off-site, two landfill sites are located in the vicinity of the Ashland Petroleum Facility that may have received these wastes. Ashland Petroleum operated a landfill to dispose of general plant refuse and several industrial wastes including phosphoric acid polymerization catalyst, spent clay and lime slurry sludge. Also, the Seaway Industrial Park, presently the Niagara Landfill, is located adjacent to Ashland Petroleum Site. However, no records are available which indicate if Ashland utilized these facilities for the disposal of weathered TEL sludges. (ES and D&M Site visit, 1985).

SITE TOPOGRAPHY

Ashland Petroleum Company site is located at 4545 River Road, Town of Tonawanda, Erie County, New York State. The refinery encompasses approximately 140 acres of land; the majority of the property is occupied by petroleum storage or process tanks.

The surrounding land use is primarily heavy industrial operations. The nearest residences are approximately 1-1/4 miles to the east, 1-1/4miles to the west, and over 2 miles to the north and south. Within a one mile radius of the site are 8 NYSDEC Identified Inactive Hazardous Waste Disposal Sites including the Ashland Petroleum Company Landfill and the "Haist Property." (NYSDOH, 1986)

The weathering area is reported to be within the bermed confines of Tank Number 24, FCC Tank. As a fire-control requirement, the tank is surrounded by 6-8 foot berms forming a 10 ft. by 30 ft. impoundment. The berms are grass covered as well as the floor of the impoundment. Small areas of staining occur near the tank. Since the berms are required for product containment, the design materials call for clay (ES & D&M Site Visit, 1985).

Access to the site is restricted. The weathering area is within the Ashland Petroleum Facility which is fenced. The weathering of tetraethyl lead sludge reportedly occurred once in 1953 (NYSDEC Registry, 1985). This sludge treatment practice is no longer in use at the Ashland Petroleum facility (Scalise, 1985, ES and D&M Site Inspection, 1985).

There is no natural drainage for the impoundment nor are there any surface drains. Storm water collected within the bermed impoundment is manually pumped to the plant oil/water separator and then discharged into Two Mile Creek (Ashland, 1982). Two Mile Creek joins Tonawanda Creek which in turn discharges into the Niagara River.

The Town of Tonawanda obtains potable water from surface water sources and no groundwater drinking water wells exist within three miles of the site (ECDEP, 1982).

Local Sensitive Environments

A NYSDEC registered wetland is located 0.3 miles south of the site. This wetland is identified as BW-8 (NYSDEC, 1986).

Regional Geology and Hydrology

The site is located in the Erie-Ontario lowlands physiographic province. The bedrock of this region is predominantly limestone, dolostone, and shale. Most of the rocks are deep aquifers with regional flow to the south (NYS Museum and Science Service Bedrock Geology Map).

In the recent past, most of New York State, including the site, has been repeatedly covered by a series of continental ice sheets. The activity of the glacier widened pre-existing valleys, and deposited widespread accumulations of till. The melting of ice, ending approximately 12,000 years ago, produced large volumes of meltwater; this water nNYSDEC 1:41 IV-3 subsequently shaped channels and deposited thick accumulations of stratified, granular sediments (La Sala, 1968).

As glacial ice retreated from the region, meltwater formed lakes in front of the ice margin. The Erie County region is covered by lake sediments; the most recent being from Lake Warren (a larger predecessor to Lake Ontario and Lake Erie). The sediments consist of blanket sands and beach ridges which are occasionally underlain by lacustrine silts and clays (indicating quiet or deeper water deposition (La Sala, 1968).

Site Hydrogeology

Bedrock beneath the site is reported to be Camillus Shale ocurring at a depth of approximately 80 feet (USGS, 1985). Inactive industrial wells in the vicinity of the site have produced yields of 125 gpm to 500 gpm from this rock unit (La Sala, 1968).

Soils in the immediate vicinity of the site are identified as Urban Land, a unit composed of urban areas that have been intensively developed for commercial and industrial use. Adjacent to the site are Churchville-Remson and Odessa units. Characteristic of these units are reddish-colored sediments with a high clay content. The units generally mantle glacial till deposits. Permeability is slow to very slow (USDA, 1979). The soils forming the impoundment probably consist of the above units.

The aquifer of concern is the bedrock aquifer. Due to their low permeability, the site soils are not considered to form a shallow aquifer, although seasonal perched water tables may occur within permeable zones of the Urban Land (NYSDOH, 1985; USGS, 1985).

Site Contamination

The Ashland Petroleum Corporation previously treated tetraethyl lead (TEL) sludges utilizing a weathering process. The TEL sludges were generated from the cleaning of bulk gasoline storage tanks. The

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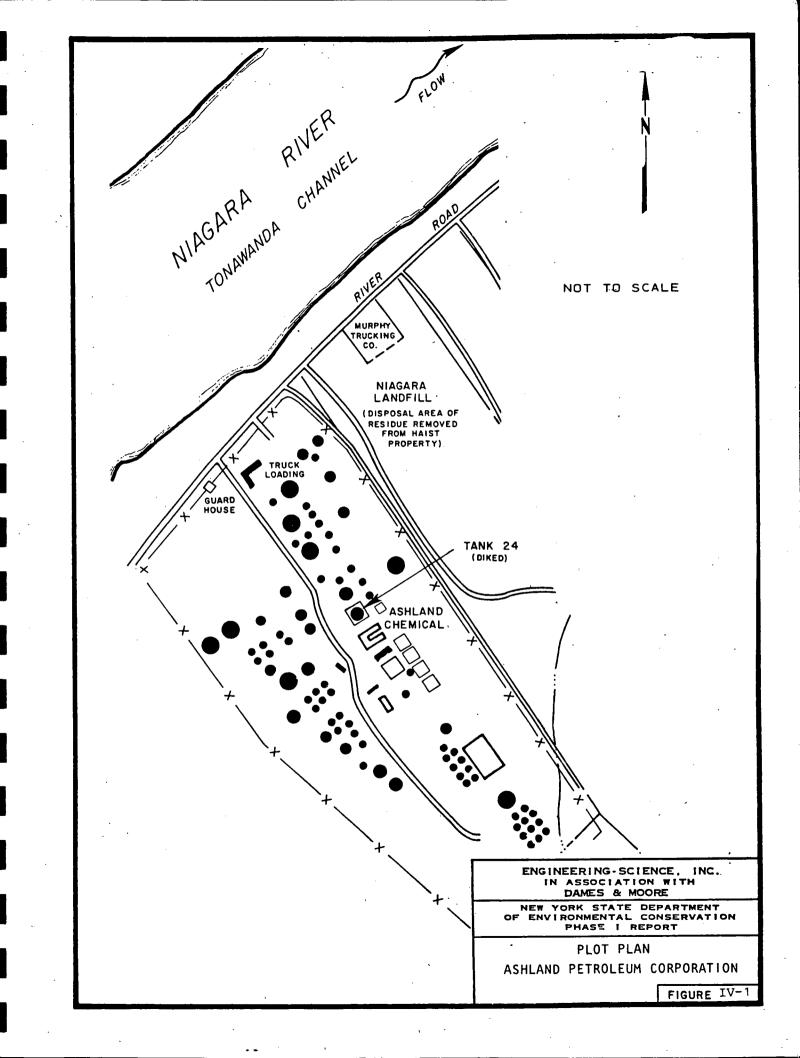
treatment process consisted of spreading sludges containing TEL to allow volatilization of the lead. In 1953, this method was used to treat sludge generated from the cleaning of tank 24 at the Ashland tank farm (NYSDEC Registry Sheet, 1985). The sludge was reportedly spread in a 6-inch layer within the diked area of Tank 24 (DuPont Leaded Gasoline Disposal Procedure). After the sludge was allowed to volatilize for several weeks, the sludge was excavated from the dike area and disposed of off-site. No records exist which indicate where the sludges were disposed of off-site. (ES and D&M Site Interview - Scalise, 1985).

No monitoring of surface water, groundwater or soil has been conducted in the vicinity of the Tank 24 site to determine if contamination resulted from the past sludge management practices (NYSDEC Registry Sheet, 1985). However, surface water samples were collected from the Ashland Petroleum outfall during an extensive surface water study done in 1980. This study was conducted by the NYSDEC to determine the impact of the "Haist Property" on Two Mile Creek. The Haist Property was previously used to dispose of low-level radioactive waste. Concentrations of lead (5.94 ppm) were detected at levels which exceed New York Class AA surface water levels (0.05 ppm) (Phase I Site Investigation-Haist Property, ES). It is noted that the outfall conveys surface water from the tank farm area, not just the tank 24 site. Because the gasoline bulk storage tanks are within diked areas which do not discharge to the surface water outfall, the tanks are not expected to have contributed to the lead concentrations (ES and D&M Site Visit, 1985).

HNu meter readings were taken upwind and downwind of the site in April 1986 by ES and D&M. As a result, the HNu meter readings indicated no measurable concentrations of volatile organics above background concentrations (1 ppm).

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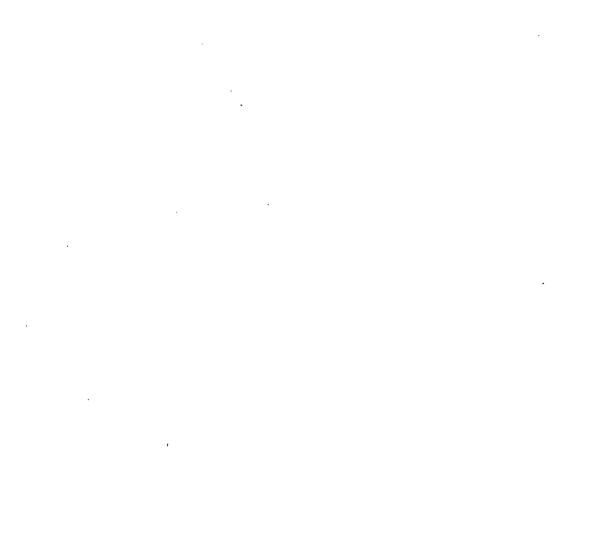
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SECTION V

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NARRATIVE

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PRELIMINARY APPLICATION OF HAZARD RANKING SYSTEM

NARRATIVE SUMMARY

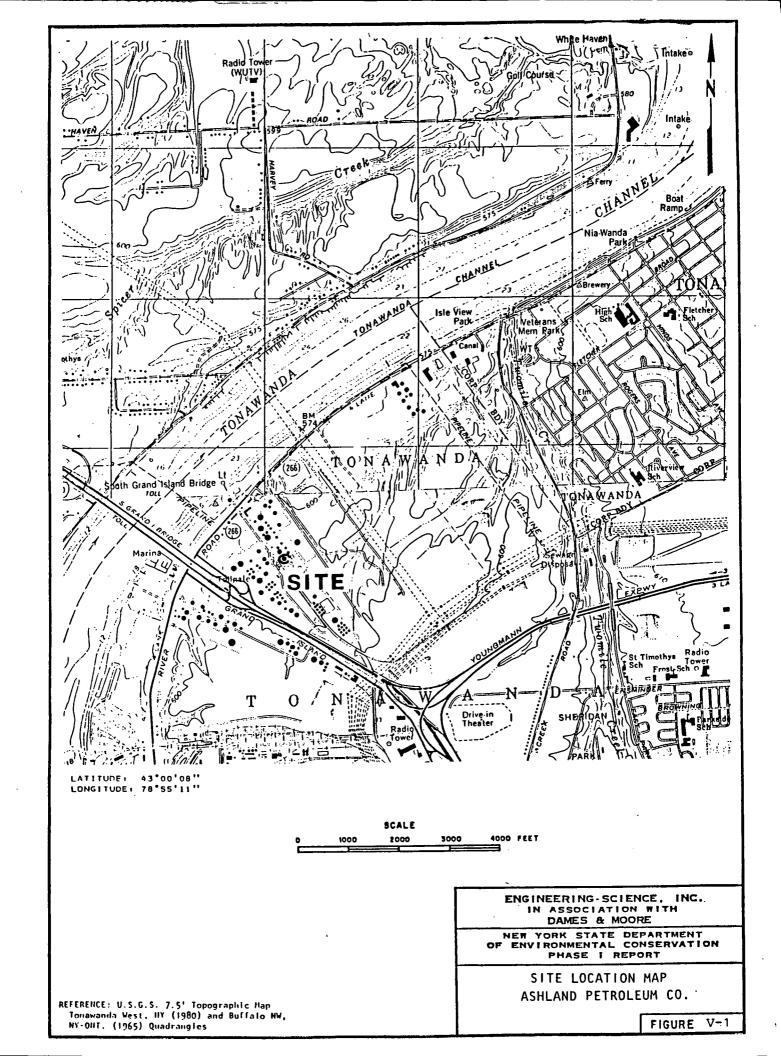
The Ashland Petroleum facility is located in the Town of Tonawanda, Erie County, New York. The 10 ft by 30 ft site is located within the diked area of Tank 24 at the Ashland Petroleum facility. The Ashland Petroleum Corporation owned and operated the facility in 1953 when the TEL ladened sludge (10-15 barrels) was cleaned from Tank 24 and spread within the diked area. The lead sludge contained approximately 0.5 gallons of TEL. No monitoring data are available for the site (EPA March 1985; ES and D&M Site Visit, 12-10-85). The site is located within a half mile of the Niagara River and is fenced and guarded 24 hours a day (Site Inspection, December 1985).

HNu meter readings were taken upwind and downwind of the site in April 1986 by ES and D&M. As a result, the HNu meter readings indicated no measurable concentrations of volatile organics above background concentration of 1 ppm.

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HRS COVER SHEET

Facility Name: Ashland Petroleum Corp.

Location: 4545 River Road, N. Tonawanda, Erie County, New York

EPA Region: II

Person(s) in charge of the facility: J. Donald Scalise Jack Patton (Plant Manager)

Name of Reviewer: Cathy J. Bosma

Date: 01-13-86

General Description of the facility:

Sludge ladened with tetraethyl lead (TEL) was removed from Tank 24 (FCC - Fluid Catalytic Cracker) in 1953. This waste material was spread in a 6-inch layer on a 10x30 foot section within the tank dike area. This sludge treatment process was used to permit volatilization of TEL. An estimated 420-630 gallons of TEL ladened sludge were deposited within the berm. No monitoring of surface water, groundwater or soil has been conducted in the vicinity of the Tank 24 site to determine if contamination resulted from past sludge management practices.

Scores: $S_{M} = 0.41$ ($S_{GW} = 0.70$ $S_{SW} = 0$ $S_{A} = 0$)

$$S_{FE} = 0$$
$$S_{DC} = 0$$

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Facility Name: Ashland Petroleum Corp. Date: Jan. 86

Ground Water Route Work Sheet										
Rating Factor	Assigned Val (Circle One		Score	Max. Score	Ref. (Section)					
1 Observed Release	<u>(</u>) 4	5 1	0	45	3.1					
	If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.									
2 Route Characteristics Depth to Aquifer of Concern	0 1) 2 3	2	8	6	3.2					
Net Precipitation Permeability of the Unsaturated Zone Physical State	0 1 (2) 3 (0) 1 2 3 0 1 2 (3)		r N N	3 3 3						
Total Route	Characteristi	cs Score	7	15						
3 Containment	0 1 2 3	1	1	3	3.3					
4 Waste Characteristics					3.4					
Toxicity/Persistence Hazardous Waste Quantity	036912 0①234	15 (18) 1 5 6 7 8 1	18	18 8						
Total Waste (Characteristic	s Score	19	26						
5 Targets					3.5					
Ground Water Use Distance to Nearest Well/Population Served	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	10 1	30	9 40						
Total T	argets Score		3	49						
6 If line 1 is 45, mu If line 1 is 0, mul		4 × 5 3 × 4 × 5	399	57,330						
7 Divide line 6 by 57	,330 and mult	iply by 100	Sgw =	0.70	•					

GROUND WATER ROUTE WORK SHEET

Facility Name: Ashland Petroleum Corp. Date: Jan, 86

Surface Water Route Work Sheet									
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)				
1 Observed Release	<u> </u>	1	0	45	4.1				
If observed release is If observed release is									
2 Route Characteristics		- - -			4.2				
Facility Slope and	(¹) 1 2 3	1	0	3					
Intervening Terrain 1-yr. 24-hr. Rainfal Distance to Nearest	1 0 1 ② 3 0 1 ② 3	1 2	2 4	3 6					
Surface Water Physical State	0 1 2 3	1	3	3					
Total Route	Characteristics Sco	ore	9	15					
3 Containment	· (b) 1 2 3	1	0	3	4:3				
4 Waste Characteristics					4.4				
Toxicity/Persistence	03691215(18 1	18	18					
Hazardous Waste Quantity	0 1 2 3 4 5 6	781	1	8	-				
Total Waste	Characteristics Sc	ore	19	26					
5 Targets					4.5				
Surface Water Use Distance to a Sensit	0 1 2 3 tive 0 1 2 3	`3 2	9 2	9 6					
Environment Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40		a0	40					
Total	Targets Score		31	55					
6 If line 1 is 45, m If line 1 is 0, mu	ultiply 1 × 4 × Itiply 2 × 3 ×	< 5 4 × 5	0	64,350					
7 Divide line 6 by 6			, 5 = sw	0					

SURFACE WATER ROUTE WORK SHEET

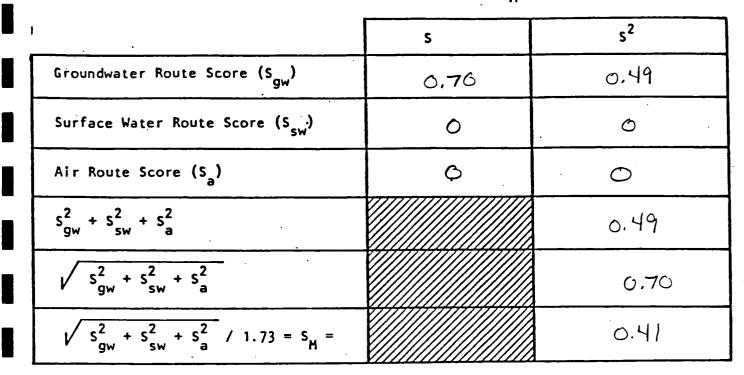
Facility Name: Ashland Petroleum Corp. Date: Apr, 86

		Route Work S			· · · · · · · · · · · · · · · · · · ·	
Rating Factor	Assigner (Circle		Multi- plier	Score	Max. Score	Ref. (Section)
1 Observed Release	0	45	1	0	45	5.1
Date and Location: Ap	ril 1986	, upwind	and do	unwind	of site	
Sampling Protocol: H	Nu mete	r				<u></u>
If line 1 is 0, the If line 1 is 45, the	-					
2 Waste Characteristics	-					5.2
Reactivity and	0 1	2 3	1	·	3	
Incompatibility Toxicity Hazardous Waste	0 1 0 1 2	23 345678	3 1		9 8	
Total Wast	e Character	istics Scor	e		20	
3 Targets				••••••		5.3
Population Within	0 9	12 15 18	1		30	
4-Mile Radius Distance to Sensitive	2124 01	27 30 2 3	2		• 6	
Environment Land Use	0 1	2 3	1		. 3	
Total Tar	gets Score	·			39]
4 Multiply 1 × 2 ×	3		· · · ·		35,100	
5 Divide line 4 by 35	100 and mu	ltiply by 10		s_^= 6)	

AIR ROUTE WORK SHEET

Facility Name: Ashland Petroleum Corp. Date: Apr. 1986

Worksheet for Computing S_M



WORK SHEET FOR COMPUTING SM

Facility Name: Ashland Retroleum Corp Date: JAN 1595

Fire and Explosion Work Sheet										
Rating Factor				d Va e Or			ulti- lier	Score	Max. Score	Ref. (Section)
1 Containment	1			3			1		3	7.1
2 Waste Characteristics			•							7.2
Direct Evidence Ignitability Reactivity Incompatibility Hazardous Waste Quantity	0 0	1 1 1 1 2	2	3 3 3 4 .5	6	78	1 1 1 1		3 3 3 8	
Total Wast	e Ch	ara	cte	ris	tic	s Şo	ore		20	
3 Targets					4					7.3
Distance to Nearest	0	1	2	3	4	5	1		5	
Population Distance to Nearest	0	1	2	3			1		3	
Building Distance to Sensitive	0	1	2	3			1		. 3	
Environment Land Use Population Within	0 0	1	2 2	3 3	4	5	1		3 5	
2-Mile Radius Buildings Within 2-Mile Radius	0	1	2	3	4	5	1		5	
Total Ta	rge	ts S	Scol	re					24	
4 Multiply $1 \times 2 \times 3$							1,440			
5 Divide line 4 by 1,440 and multiply by 100								S _{FE}	= Ø	

FIRE AND EXPLOSION WORK SHEET

Facility Name: Ashland Petroleum Corp. Date: Jan, 1986

Direct Contact Work Sheet											
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)						
1 Observed Incident	(i) 45	. 1	0	45	8.1						
	If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2										
2 Accessibility	() 1 2 3	٦	0	3	8.2						
3 Containment	0 15	1	15	r	8.3						
4 Waste Characteristics Toxicity	0 1 2 Ĵ	5	15	15	8.4						
5 Targets					8.5						
Population Within	0 1 2 3 4	54	16	20							
1-Mile Radius Distance to a Critical Habitat	(b) 1 2 3	4	0	12							
Total T	argets Score 🗧		16	32							
6 If line 1 is 45, mu	ltiply 1 × 4 ×	5									
If line 1 is 0, mul	tiply 2 × 3 ×	4 × 5	0	.21,600							
7 Divide line 6 by 21	,600 and multiply	by 100	S _{DC} =	- 0							

DIRECT CONTACT WORK SHEET

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IDS IDS

DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

FACILITY NAME: Ashland Petroleum Corp.

LOCATION: 4545 River Road, Town of Tonawanda, Erie County, New York

1. OBSERVED RELEASE

Contaminants detected (5 maximum):

No analytical groundwater data available. (NYSDEC Registry Sheet, 1985)

Rationale for attributing the contaminants to the facility:

Not applicable.

2. ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) in concern:

Bedrock aquifer in Camillus Shale. (NYSDOH, 1985)

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

Greater than 80 feet to Camillus Shale. (USGS, 1985)

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

-1-

Zero (0) - waste weathered on surface.
 (Scalise, 1985)

Net Precipitation

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

Mean annual precipitation is 36" (Climatic Atlas of the United States, 1979)

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

Mean annual lake evaporation is 27" (Climatic Atlas of the United States, 1979)

Net precipitation (subtract the above figures):

36" - 27" = 9" net precipitation
 (Climatic Atlas of the United States, 1979)

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Clays and compacted till. (USDA, 1979, and ES and D&M Site Visit, 1985)

Permeability associated with soil type

Greater than 10^{-7} cm/sec . (CFR 40, part 300, App. A.)

Physical State

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

Sludge.

(NYS Hazardous Waste Survey, 1976; Scalise, 1985 and NYSDEC Registry Sheet, 1985)

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3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment: nonpermeable soil liner with sound run-on diversion. No leachate collection system HRS = 1. (ES and D&M Site Visit, 1985)

Method with highest score:

Same as above.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Tetraethyl lead (TEL). NYSDEC Registry Sheet, 1985; NYS Hazardous Waste Survey, 1976; and Scalise, 1985)

Compound with highest score:

Tetraethyl lead = 18. (SAX, Dangerous Properties of Industrial Materials, 6th Edition, 1984)

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):

An estimatead 420-630 gallons of TEL ladened sludge were removed from a 420,000 gallon storage tank. For HRS scoring assign a value of one.

(Interview and Letter - Jay Hill, Ashland Petroleum; NYSDES, P. Buechi Memo, 1982)

Basis of estimating and/or computing waste quantity:

10-15 barrels of TEL ladened gasoline removed from storage tank. 15 barrels (one barrel = 42 gallons) = 630 gallons TEL sludge.

(Interview and Letter - Jay Hill, Ashland Petroleum; NYSDES, P. Buechi Memo, 1982)

nNYSDEC 1:49

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5. TARGETS

Ground Water Use

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

No known users within 3-mile radius. Aquifer is not used but is usable. HRS = 1. (Erie County DEP, 1982)

Distance to Nearest Well

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

None within 3-mile radius.

Distance to above well or building:

Not applicable.

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

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

None within 3-mile radius. (NYS Atlas of Community Water System Sources, 1982)

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

None within 3-mile radius.

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

Zero (0).

nNYSDEC 1:49

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SURFACE WATER ROUTE

1. OBSERVED RELEASE

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

No record of surface water monitoring attributed to Tank 24. Plant does have SPDES permit and monitoring for lead was previously conducted at the outfall. (Maximum lead concentration detected was 5.94 ppm.)

(SPDES Permit #NY-0001678, Erie County, and Ashland Petroleum Phase I report 915061)

Rationale for attributing the contaminants to the facility:

Not applicable.

: * *

2. ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Zero (0) - closed basin. (ES and D&M Site Visit, 1985)

Name/description of nearest downslope surface water:

Niagara River, approximately 2500' west. (USGS Topographic Map, Tonawanda West Quad)

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

2% west. (USGS Topographic Map, Tonawanda West Quad)

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

No.

(ES and D&M Site Visit, 1985)

nNYSDEC 1:49

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Is the facility completely surrounded by areas of higher elevation?

No, the tank farm area is not surrounded by higher elevations, but diked impoundment around the tank has dike walls of 6-8' high.

1-Year 24-Hour Rainfall in Inches

2.1" (CFR 40, Part 300, App. A, 1983)

Distance to Nearest Downslope Surface Water

Niagara River, approximately 2500' west of Tank 24. (USGS Topographic Map, Tonawanda West Quad)

Physical State of Waste

Sludge.

(NYSDEC Hazardous Waste Survey, 1976; Scalise, 1985; and NYSDEC Registry Sheet, 1985)

3. CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Surface impoundment with sound diking, adequate freeboard, and no erosion evident. Compacted soil liner. (ES and D&M Site Visit, 1985)

Method with highest score:

Same as above.

4. WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Tetraethyl lead (NYSDEC Registry Sheet, 1985; NYS Hazardous Waste Survey, 1976; and Scalise, 1985)

Compound with highest score:

Tetraethyl lead = 18 (SAX, Dangerous Properties of Industrial Materials, 6th edition, 1984)

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):

420-630 gallons TEL sludge obtained from 420,000 gal gasoline storage tank. (Interview and Letter - Jay Hill, Ashland Petroleum; NYSDEC, P. Buechi Memo, 1982)

Basis of estimating and/or computing waste quantity:

10-15 barrels of TEL gasoline (one barrel = 42 gallons)
630 gallons.
(Interview and Letter - Jay Hill, Ashland Petroleum; NYSDEC,

(Interview and Letter - Jay HIII, Ashland Petroleum, Misble, P. Buechi Memo, 1982)

* * *

5. TARGETS

Surface Water Use

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

Municipal water supply intakes for the Town of Tonawanda and the Town of N. Tonawanda. Recreational uses.

(NYS Atlas of Community Water System Sources, 1982)

Is there tidal influence?

No.

(USGS Topographic Map, Tonawanda West Quad)

Distance to a Sensitive Environment (NYSDEC Region 9 Wetlands Map, 1986)

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

None within 2 miles. (NYSDEC, M. McMurry, 1986; Wetlands Map)

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

Wetland BW-8 is located 0.3 miles south of the site. (NYSDEC, M. McMurry, 1986; Wetlands Map)

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

None within 1 mile. (NYSDEC, M. McMurry, 1986; Wetlands Map)

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:

City of Tonawanda – intake in the Niagara River East Branch approximately 2.7 miles north (downstream) of site. Population served is 18,538 people.

North Tonawanda City - intake in the Niagara River East Branch approximately 2.5 miles north of site. Population served is 36,000 people.

(NYS Atlas of Community Water System Sources, 1982)

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

None for given intakes. (USGS Topographic Map, Tonawanda West Quad)

Total population served:

City of Tonawanda: 18,538 North Tonawanda City: 36,000 Total: 54,538 people

(NYS Atlas of Community Water System Sources, 1982)

Name/description of nearest of above water bodies:

Niagara River - East Branch. (USGS Topographic Map, Tonawanda West Quad)

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

City of Tonawanda: 2.7 miles North Tonawanda City: 2.5 miles (USGS Topographic Map, Tonawanda West Quad)

AIR ROUTE

1. OBSERVED RELEASE

Contaminants detected:

No volatile organics were observed using an HNu meter. Readings were taken upwind and downwind of the site (ES and D&M Site Visit, Apr. 86).

Date and location of detection of contaminants:

No air release observed. (ES and D&M Site Visit, 1986)

Methods used to detect the contaminants:

See previous notes.

Rationale for attributing the contaminants to the site:

Not applicable.

* * *

2. WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

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

Most incompatible pair of compounds:

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

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Toxicity

Most toxic compound:

Tetraethyl lead sludge was previously weathered on-site prior to off-site disposal. Therefore, no hazardous wastes which could potentially impact the air pathway are known to exist on-site. (NYSDEC Registry Sheet, 1985; NYS Hazardous Waste Survey, 1976; and Scalise, 1985)

Hazardous Waste Quantity

Total quantity of hazardous waste:

Not applicable.

Basis of estimating and/or computing waste quantity:

Hazardous wastes are not attributed to the site for the purposes of scoring the air pathway.

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 1/2 mi 0 to 1/4 mi

101,373

(Compiled from 1980 Census Data)

Distance to a Sensitive Environment

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

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

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less: None within 2 miles.

(NYSDEC, M. McMurry 1986; NYS Wetland Maps)

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

None within 1 mile.

(NYSDEC Region 9, Div. of Fish and Wildlife Files - Ashland Petroleum Phase I Report, Site No. 915061)

Land Use

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

Site is industrial area. BFI (Seaway) Landfill adjacaent to site. Approx. 0.3 mile. (ES and D&M Site Visit, 1985)

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

Sheridan Park - 1-1/2 mile
Veterans Memorial Park - 1-1/2 mile.
Isle View Park - 1-1/4 mile.
(Interview - Charley Hudson, NYSDOH, Bureau of Toxic Substance
Assessment; and USGS Topographic Map, Tonawanda West Quad)

Distance to residential area, if 2 miles or less:

Residents - Canadian site 3/4 mile. 0.6 miles. ES and D&M Site Visit, 12/85; USGS Topographic Map)

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

None within 1 mile. (USGS Topographic Map, Tonawanda West Quad)

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

None within 2 mile. (USGS Topographic Map, Tonawanda West Quad)

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

-12-

No.

FIRE AND EXPLOSION

1. CONTAINMENT

Hazardous substances present:

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

Type of containment, if applicable:

Not applicable.

2. WASTE CHARACTERISTICS

Direct Evidence

Type of instrument and measurements:

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

(ES and D&M Site Visit, 1985)

Ignitability

Compound used:

No ignitable compounds are known to exist on-site. (NYSDEC, Registry Sheet, 1985)

Reactivity

Most reactive compound:

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

Incompatibility

Most incompatible pair of compounds:

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

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility:

No hazardous wastes with the potential to cause a fire or explosion hazard are known to exist on-site. (NYSDEC Registry Sheet, 1985; NYS Hazardous Waste Survey, 1976; Scalise, 1985)

Basis of estimating and/or computing waste quantity:

Hazardous wastes are not attributable to the site for purposes of scoring the fire and explosion pathway.

* * *

3. TARGETS

Distance to Nearest Population

0.6 miles. (ES and D&M Site Visit, 12/86; USGS Topographic Map)

Distance to Nearest Building

<1/4 mile. (ES and D&M Site Visit, 12/86; USGS Topographic Map)

Distance to Sensitive Environment

Distance to wetlands:

None within 2 miles. (NYS Wetlands Map)

Distance to critical habitat:

None within 1 mile. (Ashland Petroleum Phase I Report, Site No. 915061, and Div. of Fish and Wildlife Files - NYSDEC)

Land Use

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

Site is industrial area. BFI Landfill is located approximately 0.3 miles from the site. (ES and D&M Site Visit, 1985)

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

```
Sheridan Park - 1-1/2 miles
Veterans Memorial Park - 1-1/2 miles
Isle View Park - 1-1/4 miles
```

(Interview - Charley Hudson, NYSDOH, Bureau of Toxic Substance Assessment; and USGS Topographic Map, Tonawanda West Quad)

Distance to residential area, if 2 miles or less:

0.6 miles.

(ES and D&M Site Visit, 12/85; USGS Topographic Map)

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

None within 1 mile.

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

None within 2 miles.

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

No.

Population with 2-Mile Radius

14,340 people. (US Bureau of Census, 1980)

Buildings Within 2-Mile Radius

Greater than 260 but less than 790. (USGS Topographic Map, Tonawanda West Quad)

DIRECT CONTACT

1. OBSERVED INCIDENT

Date, location, and pertinent details of incident:

Based on review of information collected during the Phase I Investigation of this site, no evidence of past or present direct contact with hazardous substances has occurred at this site that caused injury, illness or death to humans or animals. Note that sludge was removed from the dike in approximately 1955 for off-site disposal.

* * *

2. ACCESSIBILITY

Describe type of barrier(s):

Fenced site with 24 hour guard. Tank site is diked. (ES and D&M Site Visit, 1985)

* * *

3. CONTAINMENT

Type of containment, if applicable:

Tetraethyl lead sludge, previously treated on-site, was removed for off-site disposal. Also, the former sludge treatment area is enclosed by 6-8 foot dike. Therefore, hazardous substances are not accessible to direct contact at the site.

(NYSDEC Registry Sheet, 1985; NYS Hazardous Waste Survey, 1976; and Scalise, 1985)

4. WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Hazardous wastes are not present on-site for purposes of scoring a direct contact score.

Compound with highest score:

Not applicable.

nNYSDEC 1:49

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5. TARGETS

Population within one-mile radius

4,988 people (US Bureau of Census, 1980)

Distance to critical habitat (of endangered species)

None within 1 mile. (Ashland Petroleum Phase I Report, Site No. 915061)

HRS REFERENCES*

1.	Ashland	Petrole	eum SPDES	Request,	1982.
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- 2. Code of Federal Regulations, Protection of Environment, No. 40, Parts 190 to 399, 1983.
- 3. ES and D&M Site Inspection and Interview, Don Scalise and Jay Hill of Ashland Petroleum, December 1985.
- 4. Engineering-Science (ES) and Dames & Moore (D&M), Phase I Investigation-Ashland Petroleum Company (915061).
- 5. Erie County, Department of Environment and Planning, Site Survey Phase II Reports, 1982.
- 6. Hudson, Charley, NYSDOH, Interview, 12-30-85.
- 7. NYS Atlas of Community Water System Sources, NYS Department of Health, 1982.
- 8. NYSDEC, Hazardous Waste Survey, 1976
- 9. NYSDEC, Memo from Peter Buechi to file, 6/8/82.
- 10. NYSDEC Region 9, Division of Fish and Wildlife Files and Wetlands Map, Mike McMurry, 1986.
- 11. NYSDEC Registry Sheet, 1985.
- 12. Sax, <u>Dangerous Properties of Industrial Materials</u>, 6th Edition, 1984.
- 13. US Bureau of the Census, 1980.
- 14. USDA, General Soil Map for Erie County, 1979.
- 15. US Dept. of Commerce, National Climatic Center, Climatic Atlas of the United States, 1979
- 16. USGS, Draft Report, Boring Information (1982), EPA/USGS Study, 1985.
- 17. USGS Topographic Map, Tonawanda West Quadrangle.

*For general references, see Appendix A.

DIVET OF CORE WATERS RUREAU OF DEBUSCIAL PROGRAMS

ASHLAND DIL, INC. • POST OFFICE BOX 391 • ASHLAND, KENTUCKY • 41101 • PHONE (606) 329-3333

Ashland

MICHAEL J. DUFFY Environmental Coordinator (606) 329-4457

February 25, 1982

Mr. William L. Garvey, P.E. Chief, Permit Administration Section Division of Water New York State Department of Environmental Conservation 50 Wolf Road Albany, New York 12233

0001678 Fri

REF

Re: SPDES Permit NO. NY-0001628 Buffalo Refinery

Dear Mr. Garvey:

On February 1, 1982 Ashland Petroleum Company received a summary modification to the referenced SPDES permit. Ashland did not receive a draft of the modification nor is it aware of a public notice or comment period on this modification. Additionally, Ashland has still not been advised of the basis With for the modification, which adds immediately effective effluent limitations for iron and lead for outfalls 002 and 004.

Ashland Petroleum believes the inclusion of these parameters for outfall 002 is inappropriate for the reasons discussed below and respectfully requests that they be deleted from the permit.

A single large crude oil storage tank is located approximately one-half mile northeast of the refinery proper. Due to SPCC and fire code requirements, this tank is enclosed by an earthen dike. The discharge from outfall 002 consists solely of the stormwater which accumulates in the dike. This accumulated dike water is treated in an oil water separator and then discharged to Two Mile Creek. The presence and operation of this crude oil storage facility should in no way contribute iron or lead

In summary, this discharge consists solely of treated stormwater runoff; Ashland's operations do not contribute either iron or lead to the discharge and consequently the treatment system is not designed for the removal of either. Finally, review of the data submitted on the form 2C shows that these effluent limitations cannot be consistently met. Ashland Petroleum Company therefore requests that these parameters be deleted.

REF-1

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Mr. William L. Garvey, P.E. February 25, 1982 Page 2

Ashland has reviewed the facts regarding discharge 004 and the activities contributing thereto and is of the opinion that this outfall should not be considered an SPDES discharge for which Ashland's refinery should have responsibility.

The discharge from outfall 004 consists of stormwater runoff from several sources: 1) an undeveloped area of the refinery, 2) a commercial industrial landfill which adjoins the refinery's north property line, 3) approximately one mile of River Road (four lane highway), 4) the Agway tank farm and service station and 5) the Murphy Motor Freight terminal and garage. Since this area of the refinery contains neither processing units nor leaded gasoline storage and no runoff from the leaded gasoline storage areas is directed to this outfall, there is no reason to believe that any lead or iron found in this discharge are the result of Ashland's operations. Notwithstanding the fact that the runoff from Ashland's property represents a small portion of the total effluent in this discharge, in order to avoid adverse environmental effects in the Niagara River from actions in the drainage basin Ashland installed outside of its property boundry a small oilwater separator in the drainage ditch just prior to its confluence with the Niagara. However, since Ashland has no way of controlling the activities of others such as Murphy Motor Freight, Agway or users of River Road whose activities affect the quality of water in the drainage ditch, Ashland does not feel that it should be charged with the responsibility for the discharge. Further, as with outfall 002, the form 2C data for outfall 004 indicates that these effluent limitations cannot be consistently met. Accordingly, Ashland Petroleum requests that outfall 004 be removed from the refinery's

It should be noted that neither outfall 002 nor outfall 004 would require an SPDES permit except for Ashland's installation of facilities such as oil-water separators to mitigate the environmental effects of any unplanned releases of materials. Both discharges are composed entirely of storm activity and have not been identified as significant contributors

The imposition of stringent effluent limitations on stormwater runoff such as outfalls 002 and 004 is inconsistent with the impending revisions of the applicable NPDES permit regulations (40 CFR 122.57) resulting from the litigation of the consolidated permit program regulations. If the impending revisions of 40 CFR 122.57 had been in effect at the time Ashland submitted its application for renewal of its SPDES permit, no quantitative data whatsoever would have been required regarding outfalls 002 and 004 for the pollutants in question.

Mr. William L. Garvey, P.E February 25, 1982 Page 3

The impending revisions of 40 CFR 122.57 would also significantly alter the permit requirements applicable to outfall 004. Under the revisions, if a stormwater discharge system includes the discharges of more than one owner or operator, any permit would identify the effluent limitations, if any, which would apply to each owner or operator and no stormwater dischargers would be subject to a permit condition for discharges other than its own discharges into that system without its consent.

It is Ashland Petroleum Company's position that the proposed effluent limitations and monitoring requirements for iron and lead are not authorized by Section 301, 302, 303, 306, 307, 402 or any other provision of the Clean Water Act and are not authorized by any provision of state law or regulation. It is also Ashland Petroleum Company's position that the modification of its SPDES permit without prior notice or opportunity for comment or public hearing was inconsistent with the Clean Water Act, the NPDES permit program regulations, and state laws and regulations implementing the SPDES program. The modification of the permit is contrary to fact and injurious to the Company and will cause it damage by invading or interfering with its private right to conduct its business without unreasonable and unlawful governmental restraint. Ashland has not previously requested or participated in a hearing on this issue since it received no prior notice or opportunity to comment on the modification of its permit.

Pursuant to state law and regulations applicable to the SPDES program, Ashland Petroleum Company hereby petitions the Department for a hearing on the modification of its SPDES permit. Ashland appreciates your prompt consideration of our

requests and would be happy to meet with representatives of the department at your convenience to discuss this matter

Very truly yours,

MJD:k1

George Hansen cc: Walter Loveridge Federal Register / Vol. 47, No. 137, Friday, July 16, 1982 / Rules and Regulations

List of Illustrations

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- 2 Ground Water Route Work Sheet
- , The to Aquifer of Concern
- : Annual Lake Evaporation (In
- 5 Normal Annual Total Precipitation (inches)
- **B** Distance to the Nearest Well
- 7 Surface Water Route Work Sheet
- 8 One Year 24-Hour Rainfall
- 9 Air Route Work Sheet
- 10 Work Sheet for Computing Sm
- 11 Fire and Explosion Work Sheet
- 12 Direct Contact Work Sheet

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- **1** Comprehensive List of Rating Factors
- 2 Permeability of Geologic Materials
- 3 Containment for Ground Water Route
- 4 Waste Characteristics Values for Some Common Chemicals
- 5 Persistence (Biodegradability) of Some Organic Compounds
- Sax Toxicity Ratings
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- 9 Containment Values for Surface Water Route
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- 13 Values for Land Use (Air Route)
- 14 NFPA Ignitability Levels and Assigned Values
- 15 Values for Sensitive Environments (Fire and Explosion)

1.0 Introduction

The Comprehensive Environmental Response. Compensation and Liability Act of 1960 (CERCLA) (Pub. L. 96-510) requires the President to identify the 400 facilities in the nation warranting the highest priority for remedial action. In order to set the priorities, CERCLA requires that criteria be established based on relative risk or danger, taking into account the population at risk; the hazardous potential of the substances at a facility; the potential for contamination of drinking water supplies, for direct human contact, and for destruction of sensitive ecosystems; and other appropriate factors.

This document describes the Hazard Ranking System (HRS) to be used in evaluating the relative potential of uncontrolled hazardous substance facilities to cause health or safety problems, or ecological or environmental damage. Detailed instructions for using the HRS are given in the following sections. Uniform application of the ranking system in each State will permit EPA to identify those releases of hazardous substances that pose the greatest hazard to humans or the environment. However, the HRS by itself cannot establish priorities for the allocation of funds for remedial action. The HRS is a means for applying uniform technical judgment regarding the potential hazards presented by a facility relative to other facilities. It does not address the.

feasibility, desirability, or degree of cleanup required. Neither does it deal with the readiness or ability of a State to carry out such remedial action as may be indicated, or to meet other conditions prescribed in CERCLA.

RFF 2

The HRS assigns three scores to a hezardous facility:

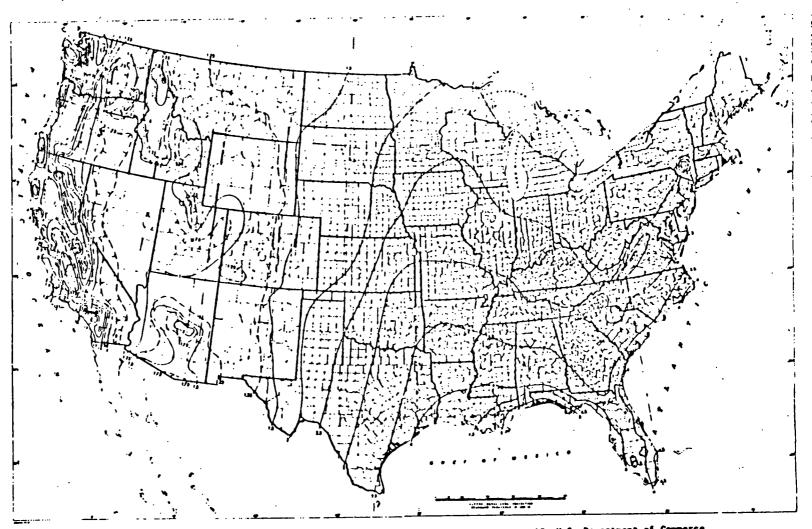
• S_M reflects the potential for harm to humans or the environment from migration of a hazardous substance away from the facility by routes involving ground water, surface water, or air. It is a composite of separate accres for each of the three routes.

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

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

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

BILLING CODE 6560-60-M



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



1-Year 24-Hour Rainfall (Inches)

BILLING CODE 6560-50-C

REF. 2

uly 16, 1952 /

Ruk

REF. 3

INTERVIEW FORM

INTERVIEWEE/CODE DON & CALISE 1 JAY HUL TITLE - POSITION Ashland Petroleum ADDRESS 4545 RIVER PD. ZIP STATE NY CITY TONAWANDA PHONE (716) 879.8630 TO RESIDENCE PERIOD INTERVIEWER / ALEY LEGGE /CATHY BOSMA LOCATION - LIVER RO 1 12:00 - 4:00pm DATE/TIME 12-10-85 SUBJECT: SITE No 915008-4 9541AND PETERLEUM CORP. REMARKS: The Aleaning From of the tank (TANK # 2.2) was This cleaning mol dove once in 1953 this tank. The rest of scaly sust incide may contain constituent woolen (TEC) since is n 1 lin the tank appline is estimated to velence of ALL (42 gal), This common barrels rust and allow sprind the ma done decompre to lit 1 of the dilus at Tank Total volume H. #22 Confires of the cleaning. las been 420,000 gal). The parties 10,000 tarels No camples have been taken of the Dince 1953 diles; no excavation or cover has been done at the dited area. Dike is North high, area is goods covered, partssurface minty clay. Jell (See allochum I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW: SIGNATURE: ABBAY) Yhought the above Durli (DEC-COMMENTS: 24. This tonk was an FCC tank which at Tank to occur not believed to contain any of the above mentioned Tel. Formes

Attachment

<u>Given</u>

2 barrels of rust that must be fairly dry of liquid before men can scrape it safely off the bottom of a tank that contained gasoline.

2 bbi $Fe_2O_3 \times \frac{42 \text{ Gal. } Fe_2O_3}{\text{bbl } Fe_2O_3} \times \frac{2 \text{ parts material}}{3 \text{ parts space}}$

= 56 Gal. Fe_2O_3

Fe₂O₃ has a specific gravity of 5.24 Water weights 8.35 lb./gal.

56 Gal. $Fe_2O_3 \times \frac{43.7 \text{ lb. } Fe_2O_3}{\text{Gal. } Fe_2O_3} - 2,447 \text{ lb. } Fe_2O_3$

Assume 1% Gasoline on the Fe_2O_3 Assure a high TEL addition of 3 gr/gal gasoline

Therefore, 24.5 lb. Gasoline contains 0.162 lb. TEL

Mol. Wt. of Pb = 207 Mol. Wt. of TEL = 324

Therefore, 0.162 lb. TEL contains 0.102 lb. Pb

TEL is 99% Volatile TEL Evaporation Rate is 1.0 (water = 1.0) CTB Calculation:

But 10-15 barrels (42 cal. of gas) = 420-630 gal, of TEL ladened sludge

INTERVIEW FORM

INTERVIEWEE/CODE Don Scalise/Jay Hill /
TITLE - POSITION Ashland Petroleum
ADDRESS 4545 River Rd.
CITY
PHONE (716) 879-8630 RESIDENCE PERIOD TO
LOCATION INTERVIEWER Larry Keffe/Cathy Bosma
DATE/TIME 12/10/85 / 2:00 - 4:00 p.m.
SUBJECT: Site No. 915008-4 Ashland Petroleum Corp.
REMARKS: The cleaning of the tank (No. 22) was done once in 1953. This cleaning
involved_the removal_of_scaley_rust_inside_this_tankThe_rust_may_contain_come
tetraethyl lead (TEL) since it was a constituent in the leaded gasoline held in the
tank (volume \sim 2 gal TEL/gal gasoline). The total volume of rust is estimated to
be between 1-2 barrels (42 gal). The common method of disposal was to spread the
rust and allow any organics adhered to the rust to decompose. This was done once
within the confines of the dikes (100' x 200') at Tank 22. Total volume of No. 22.
10,000 barrels (420,000 gal.). No cleaning has been done since 1953. No samples
have been taken of the soils within dikes; no excavation or cover has been done at
the diked area. Dike is \sim 5- $\pmb{5}$ ft. high, area is grass covered, soil surface
mainly clay
I AGREE WITH THE ABOVE SUMMARY OF THE INTERVIEW: /s/ Jav J. Hill (see attachment)
SIGNATURE:
COMMENTS: Peter Buechi (DEC-Albany) thought the above stated to occur at Tank 24.
This tank is an FCC tank which is not believed to contain any of the above mentioned
TEL. Focus will be on Tank 22.

REF-3

REF. 3

ES AND D&M SITE INSPECTION

Observations made during the ES and D&M Site Inspections are provided on US EPA Forms 2070-12 and 2070-13. Field notes were used to complete these EPA Forms, and are not included herein. ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES IN THE STATE OF NEW YORK PHASE I INVESTIGATIONS REF. 4

ASHLAND PETROLEUM COMPANY NYS SITE NUMBER 915061 TOWN OF TONAWANDA ERIE COUNTY NEW YORK STATE

Prepared For

DIVISION OF SOLID AND HAZARDOUS WASTE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 50 WOLF ROAD ALBANY, NEW YORK 12233-0001

Prepared By

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

In Association With

DAMES & MOORE 2996 BELGIUM ROAD BALDWINSVILLE, NEW YORK 13027



HAZARDOUS WASTE INACTIVE SITE SURVEY PHASE II - REPORT

DECEMBER, 1982

DIVISION OF ENVIRONMENTAL CONTROL SOLID WASTE SECTION

REF 5

County of Erie

DEPARTMENT OF

ASHLAND PETROLEUM 3701 RIVER RD. TONAWANDA, N.Y.

DEC SITES # 915008 a & b

GENERAL INFORMATION

The 1980 Interagency Task Force on Hazardous Waste reported that the Ashland Petroleum company operated four (4) sites at the Tonawanda facility. One (1) site, 915008-c, Haist Property, was profiled previously.

Site # 915008-a is reported as a weathering area for tetraethyl lead sludges.

Site # 915008-b is reported as a storage pit for sediments, oil sludges and spill recovery.

INSPECTION FINDINGS

Mr. Campbell of our Department inspected these sites on May 29, 1981, and found that they pose no apparent environmental hazards.

Site # 915008-a, the tetraethyl lead sludge weathering area, is a small (10 x 30 feet) area, last used in 1953. The site was well contained and there were no signs of any leaching to the surroundings.

Site # 915008-b is a 280 x 220 foot concrete pit used to store API separator sludges, tank water and sediment, sewer sediment and spill

-43

ASHLAND PETROLEUM November 15, 1982 Page 2

recovery. Oils are reclaimed from this unit. The DEC had determined that a Part 360 permit was not necessary for this facility. Mr. Campbell did not find any evidence of leaching or spillage associated with the operation of the facility.

BACKGROUND DATA

The information generated during the preparation of the "Haist Property", # 915008-c, profile would apply to sites # 915008-a & b as well. Since early 1982 the firm has ceased refining operations at the Tonawanda facility. Any lead sludges to be removed from process equipment will be disposed of at an off-site disposal area. The drainage from the refinery and tank farm areas will be processed by the API separator prior to discharge.

CONCLUSIONS

There are no apparent problems associated with either sites # 915008-a or b. Site # 915008-a is currently coded as an IATF "A" site indicating further field inspection, preliminary hydrogeological information, and/or additional information on chemicals present is needed. Site # 915008-b is currently listed as an "E" site indicating periodic surveillance and chemical analysis is required for a properly closed and maintained site. ASHLAND PETROLEUM November 15, 1982 Page 3

RECOMMENDATION

Sti-filment

Contraction of the local division of the loc

Contraction of the

Based on the small contained area which was utilized for the weathering of tetraethyl sludges, it is not felt that the site poses any hazard in its industrial setting. We would recommend that the classification be changed to "F" indicating that no further action is required.

It has become apparent that site # 915008-b is not an inactive disposal site, but an actively used storage pit for the control and containment of sediments and oil spills. For this reason it is believed that the site was erroneously listed as a hazardous waste disposal site. It is therefore recommended that the site be removed from the list.

-45-



HAZARDOUS WASTE INACTIVE SITE SURVEY PHASE I - REPORT

FEBRUARY, 1982

DIVISION OF ENVIRONMENTAL CONTROL SOLID WASTE SECTION



Ashland Petroleum Co. # 915008-c

This site, also referred to as the "Haist Property", received low level radioactive material produced during 1944-46. Approximately 8000 tons of residue containing uranium (est. 0.54 Uranium) were spread over the site to a depth of 1 to 5 feet. In 1979, possibly 30-40% of the residue was removed from the Haist property and taken to the adjacent Seaway Industrial Park (now Niagara Landfill). The Haist site first appeared in a 1951 aerial photograph and has remained virtually unchanged since that time. A 1962 photo showed some activity immediately to the northwest of the disposal site. It could not be determined if the activity was landfilling of wastes or site grading. Surface runoff from the Haist property would be tributary to Two Mile Creek via drainage ditches and culverts.

On June 17, 1981, the DEP sampled the drainage downstream of the site and evidence of radioactivity was found in the water.

The results of analyses of the June 17, 1981 water samples were evaluated. The following observations were made.

1. Iron concentrations increased from 2.06 to 18.5 mg/l from upstream of the Niagara Landfill to downstream of the Ashland Landfill. This suggests leaching of iron from the area in between. The levels exceed the NYS Water Quality Standard of 0.3 mg/l.

2. Lead concentrations ranged from 0.03 to 0.10 mg/l. These values exceed the NYS Water Quality Standard of 0.025 mg/l.

3. Magnesium levels decreased from 138 to 86 mg/l. There was no evident reason for this decrease. The levels reported are not considered to be significant.

- 18 -

<u>Site:</u> 915008-C

Owner:

Surrounding Land Use:

Uranium tailing disposal

Ashland Petroelum Company River Road Tonawanda, New York

Heavy industrial - nearest residential approximately 1½ mile to the East, 1½ mile to the West, 1 mile to the North, and 1 mile to the South.

Anticipated Effect of Disposal Site On:

Groundwater Supplies:

Surrounding Area:

None-area served by surface source public water supply.

Low Level Radiation has been documented leaving the site via surface drainage and could affect the Two Mile Creek and Niagara River. Two Mile Creek flows past a residential area along Two Mile Creek Road and through a recreation area. (Isle View Park) and enters the Niagara River.

Airborne Transport of Pollutants:

Need for Immediate Action:

Need for Future Action:

Responsible Agency:

None- site is inactive. Vegetative cover will preclude dust problems.

None. Federal Government has concluded site poses no threat given present usage.

ERDA Re-evaluation of site.

NYSDEC and E.R.D.A.

DEP sampling of Two Mile Creek in June/ July 1982.

DEP resampling of four (4) sites previously sampled for parameters of concern.

INTERVIEW FORM

ADDRESS	·	•	
CITY Albany	STATE NY	ZIP	
PHONE (518) 473-8427	RESIDENCE PE	RIOD	TO
LOCATION. NYSDOH offices .	INTERVIEWER	S. Powers	
DATE/TIME 12/30/85 / 10:3			
SUBJECT: Ashland Petroleum 914008-A		` * -	. •
			<u> </u>
REMARKS: Notes taken from NYSDOH Bureau of	Toxic Substance	Assessment Ha	azardous
Waste Site Inspection Report* Inspectio	on by Y Khaikir	and K Mann	Land use:
have 8 other hazardous waste sites in 1		<u>ana k. num.</u>	
Consolidated Freight 915083 1700m NI		· · · · · · · · · · · · · · · · · · ·	
Veterans Memorial Park 915078 18500m	NE " "	<u></u>	
Ashland Petroleum 915061 500 m NE fi	rom site		
Seaway/Niagara/LF 915074 200m NE			
Ashland Petroleum 915008-b 200m SE	rı ît		<u> </u>
" " 915008-c 400m SE	11 19	•	
Tonawanda Coke 915055-c 1500m SSE	11 11		
single residence homes NE from site			
Sheridan Park Veterans Memorial Park, di	rive-in theatre	nearby	
site accessible to workers in area estim	mate direct cont	act 1 person (0.5 hr/day
site fenced and has 24 hr surveillance s	system; area of	soil stain 10	2m ²
Aquifer in unconsolidated depostis 801 I AGREE WITH THE ABOVE SUMMARY OF THE IN	•	lifer in Camil	lus shale 80 ft
	AICKATCM:		

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COMMENTS:

(see page 2)

Continued Pg. 2

6

INTERVIEW FORM

INTERVIEWEE/CODE		/	•
TITLE - POSITION			
ADDRESS	· · · · · · · · · · · · · · · · · · ·	·	
CITY	STATE	21P	
PHONE (')	RESIDENCE	PERIOD	
LOCATION	INTERVIEW	ER	
DATE/TIME /			
SUBJECT:		······································	
REMARKS:			
Ashland Petroleum (cont)	•		
distance between haz waste & highe soil is clay K 10 ⁻⁷ cm/sec no groundwater data	st level of aqui	fer 75 ft	
prevailing wind is from SW Surface water - small tributary - adj 300 :	ft - no-known 1	lses	
- 2 mile creek	<u>,,, , , , , , , , , , , , , , , , , , </u>		· · ·
facility slope - 0 - 3%			
intervening slope (SW-site) 0 - 3	£		
			······································
I AGREE WITH THE ABOVE SUMMARY OF TH	E INTERVIEW:		
SIGNATURE:			
COMMENTS:			
·			

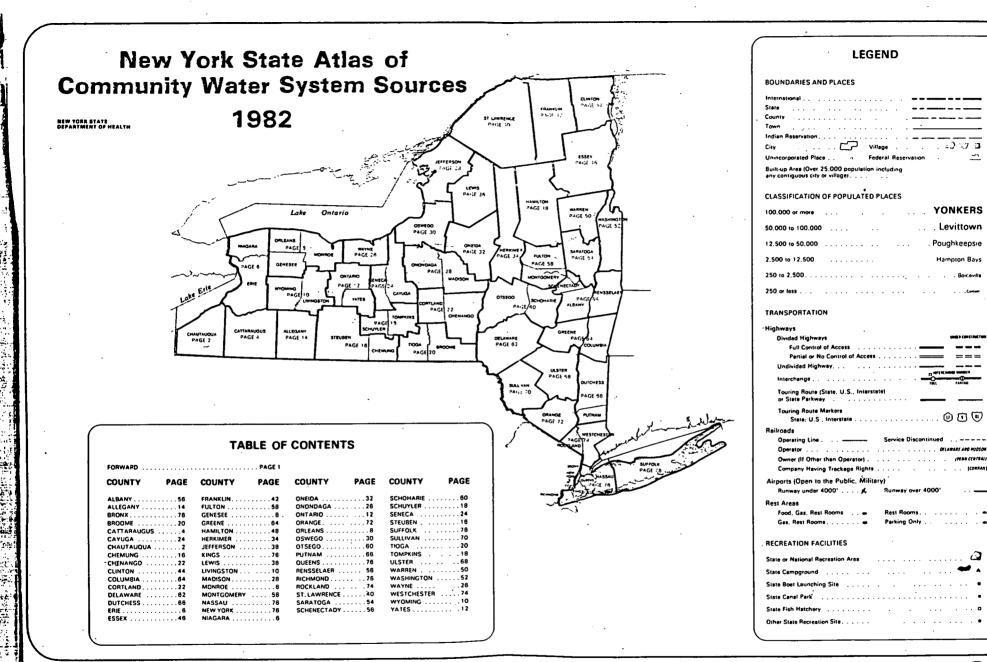
INTERVIEW FORM

Charly Hudson INTERVIEWEE/CODE of The NYSTOOH TITLE - POSITION ADDRESS Albany CITY STATE ZP (518) 473-8427 T PHONE . RESIDENCE PERIOD NYSDOH offices I Powers LCCATION INTERVIEWER 12/30/85 10:30 AN DATE/TIME Dotrolevin SUBJECT: Ashlan 915008-A Sibstance · DYSDOH Russon of Toxic REMARKS: Notes take Inspection Mann ikin 1 mile Dias eiter in NE from site 915083 1700m DE 915078 1850 m JOOM NE 915061 ZOO.M NE F 915074 915005 SE 2 mil 200m 915008-400 915055-C on 15000 55 NF ni -hy Mennia in istime contact a 2 veillarce 24 onsolidated deposits < 80' uck agailer in Camillus shale 80' aguil bo.l Signature/Title: Comments: * This report is in diat tam. Copies of it could not be Made.

REF. 6

Ashland Detroleum (cont) distance between har waste & highest level of agoifer < 75' Soil is clay K < 10⁻⁷ cm/sec No G W data prevailing wind is from Scul a Water Sitace Water - small tributny - adj. 3 No known uses - Z mile creek 300' J Facility slope - 0-3% Intervening slope (Sw-site) 0-3%

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:1

RE

(CORRAN)

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ERIE COUNTY

ID NO COMMUNITY WATER SYSTEM POPULATION SOURCE

Monicipal Community

Akcon Village (See No 1 Wyoming Co.

	Akron Villade (See No I wyoming Co,
	Page 10)
	Alden Village
	Angola Village
5	Angola Village
3	Buffalo City Division of Water 357870 Lake Erie
4	Caffee Water Company
5	Collins Water District #3
6	Collins Water Districts #1 and #2 1384 Wells
ž	Erie County Water Authority
$\dot{\sim}$	
`8 `	(Sturgeon Point Intake)
	(Van Dewater Intake)
9	Grand Island Water District #2 9390 Niagara River
10	Holland Water District
11	Lawrons Water Company,
12	
	Niagara County Water District (Niagara Co) Niagara River - West Branch
13	Niagara County Rater District Col
14	Niagara Falls City (Niagara Co) Niagara River - West Branch
15	North Collins Village 1500 Wells
16:	North Tonawanda City (Niagara Co) Niagara River - West Branch
17	Orchard Park Village
	Controvitio Villand 0169 Wells
18	Tonawanda City
19	Ionawanda City
20	Tonawanda Water District #1
21	

Non-Municipal Community

~~	Aurora Mobile Park
22	Bush Gardens Mobile Home Park
23	Bush Gardens Robite Home rate. 50 Vetls
24	Circle B Trailer Court
25	Circle Court Mobile Park 125 Wells
26	Creekside Mobile Home Park 120 Wells
27	Donnetly's Mobile Home Court
28	Gowanda State Hospital
	Hillside Estates
29	Hunters Creek Mobile Home Park 150 Walls
30	HUNCERS Creek House House Fark,
31	Knox Apartments NA Wells
32	Maple Grove Trailer Court
33	Hillarove Mobile Park
34	Parking Trailer Park
35	Quarry Hill Estates
	Springville Mobile Park
36	Springwood Mobile Village
37	Springwood House Village. 10 Wells
38	Taylors Grove Trailer Park
39	Valley View Mobile Court
40	Villager Apartments NA, Wells

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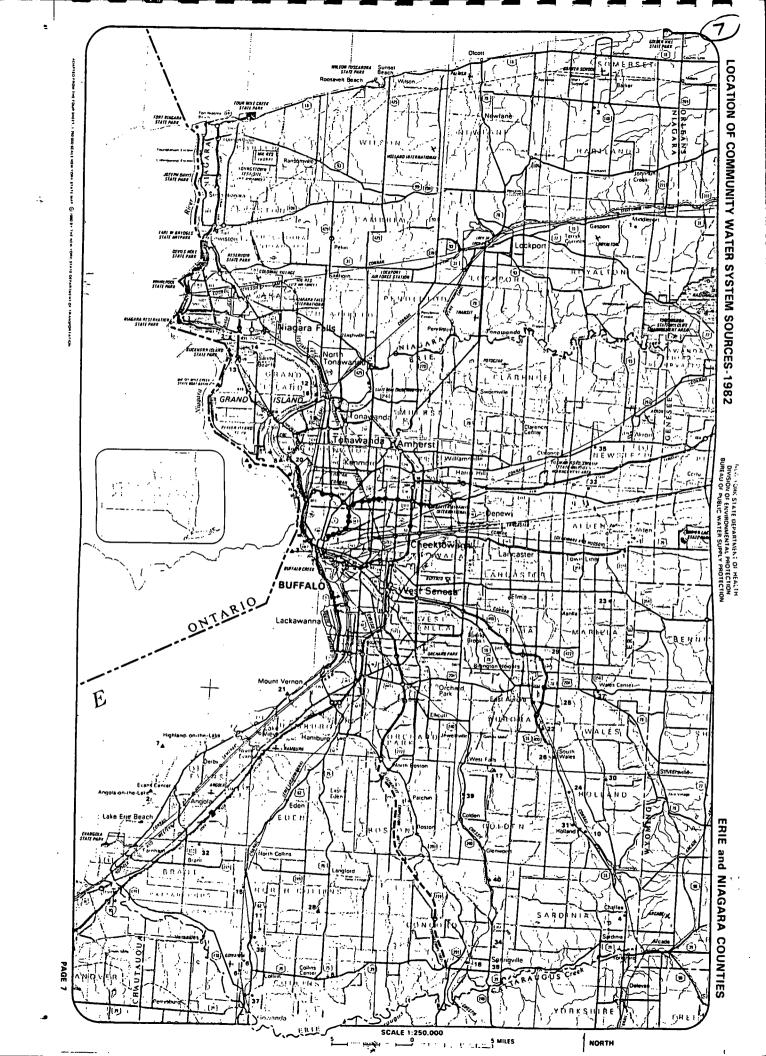
NIAGARA COUNTY

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Munic	cipel Community		•
1 1	ockport City (See No 12, Erie Middleport Village Niagara County Water District	2000	Wells (Springs)
2 1	(See No 1], Erie Co) Niagara Falls City (See also N Erie Co)	0 14 77384	Niagara River - East Branch
	North Tonavanda City (See No 1 Erie Co)	6 36000	

Non-Municipal Community

. .

PAGE 8



Address FIINTICH DIVISION - 26:0 Flinwood Ave. Flone Visit //////// by 10 NIMERE N. 1. 1421 111676- by 1212 176 by - up · Phone (71:1-877-7177 County Erice n Completed SIC Codes 1. 7711 ats: 2. CONFIDENTIAL New York State Hazardous Waste Survey Department of Environmental Conservation Division of Solid Waste Management Telephone: (518) 457-6605 50 Wolf Rcad, Albany, N.Y. 12233 REF. 8 eral Information Company Name Ashland Petrokum Company Mailing Address 4545 River Road, Tonawanda, N.Y. 14150 Street City State Zip Plant Location / 14 . Same as above State Zip City Stree: . If Subsidiary, Name of Parent Company Ashland Oil, Inc. 3. Individual Responsible for Plant Operations A. V. Peppard Name Plant Superintendent (716)-877-7177 ExT, 300 4. Individual Providing Joseph D. Scalise Information Name Environmental Supervisor (716)-877-7177 ExT,229 Title 5. Department of Environmental Conservation Interviewer John E. Tannoth 6. Standard Industrial Classification (SIC) Codes for Principal Products Approximate % of SIC Coce Improduction / /Value Added (4 Digit) Group Name a. Petroleum Refining 2911 b. d. 8. Products 7. Processes Used at Plant a. Crude distillation a. gaseline b. <u>1. P. G.</u> b. catalytic cracking c. distillates c. platinum reforming a. aromatics a. light ends treating e. <u>asphalt</u> S.N.G. - Synthetic Natural Gas c. asphalt blowing

g. tetra ethyl lead h. additives CRG, molyboenum ULFURIC acia caustic - Nach (5040) chlorine CONFIDENTIAL (8) . On Site Waste Water Treatment / Fres //No On Site Waste Water Treatment by July 1977 / Yes / /No On Site Waste Water Treatment by July 1983 Ares //No API Separator effluent Industrial Sewer Disclarge Types T/No Name of Sewage Treatment Plant to Niogara River NPDES No. 000/678 SPDES No.____ _____ . a. Air Pollution Control Devices Wiles Tio Types CO Boiler, Catalyst cyclones, sulphur recovery unit, (amine scrubbers for H2 Sgas, 502 tail gar incincrated 5. To Be Built //Yes / Ho by / / . Air 100 Emission Point Registration Numbers 27, all registered . Number of manufacturing employees 246 b. Manufacturing Floor Space N.A. sq.ft. . Attach a plat or sketch of the facility showing the location of on-site process wasta torage (if available): . Attach flow diagrams of chemical processes including waste flow outputs (if available). nouse waste treatment sapabilities: API separator separates oil from water H25 from HC. Cleaning s there a currently used or abandoned landfill, dump or lagoon on plant property? / Jaries . Industrial wastes produced or expected to be produced by plant.) settled slydge from API separator and froth from air flotation unit Spent ratalyst from API separator S [imm (d) C] sulphut recovery system spent platinum catalyst spent sulfuric acia tetraethyl lead sludge Corments:

Waste Characterization and Management Practice COMFIDENTIAL (Use separate form for each waste stream) 1. Waste Stream No. 7 (from Form I, Number 17) 2. Description of process producing waste cleaning of scale from gasoline holding tanks 3. Brief characterization of waste tetra ethyl lead sludge 4. Time period for which data are representative <u>CUFFENT</u> to ______ 5. a. Annual waste production <u>3</u> / tons/yr. //gal./yr. b. Daily waste production _____/tons/day //gal./day c. Frequency of waste production: //seasonal //occasional //continual //other (specify)_____ 6. Waste Composition a. Average percent solids ___ % b. pH range __ to ___ c. Physical state: //liquid, //slurry, /wsludge, //solid, /_/other (specify)____ Average / /wet weight Concentration //dry weight d. Component 1. tetra ethyl lead ______/_/wt.% /_/ppm ______/_/wt.% /_/ppm 2. _____/wt.% //ppm 3. _____/_/wt.% /_/ppm 4. _____/wt.% //ppm 5. _____//wt.% //ppm 6. ______/_/wt.% /_/ppm 7._____ _____ //wt.% //ppm 8. //wt.% //ppm 9. _____/_wt.% //ppm 10.

47-15-4 (12/76)

CONFLORING Company Code e. Analysis of emersicien is [/theoretical [/laboratory [/estimate 8] f. Projected Wincrease, Adecrease in volume from base year: 0 % by July 1977; g. Hazardous properties of waste: []flammable [Mtoxic []reactive []explosive [[corrosive []other (specify)] 7. On Site Storage a. Method: []drum, []roll-off container, []tank, []lagoon, [Vother(specify] 970. b. Typical length of time waste stored ______ []days, []weeks, []months c. Typical volume of waste stored____ d. Is storage site diked? [___Yes ____No _____/tons, ____gallons e. Surface drainage collection //Yes //No B. Transportation N.A. a. Waste hauled off site by //you //others b. Name of waste hauler Address Street State City 9. Treatment and Disposal Zip'Code a. Treatment or disposal: Von site []off site b. Waste is [/reclaimed [/treated [] land disposed [/incinerated c. Off site facility receiving waste Name of Facility_ Facility Operator_ Facility Location Street State City Zip Code Phone

17-15-4(12/76)

REF. 9

15m0 TO: FILE FROM: PETER BUECOSI PyBula ASHLAND OIL REFINERY, DISPUSAL SITE 116 SLIBJ: DATE: 6/8/82

PARAECON MITT DON SCALISE OF ASIAMO PETRAEN NESTAOME DISPOSAL SITE NO. 116 WARA AUEDEDLY RECEILED TETRAETTYL LEAD MASTES

MR. SAUSE STATED THAT TELADETHYL LEAD SOME FROM TANE # 24 WAS TEMPORANLY STONED AT THIS SATE WAS THE TANK MAS CLEMED PRIOR TO PETUR BISHING. SCALE WAS ALCONED TO WEATHER IN THE SUNCCAP FOR APENLOD OF THE TO CONCERT ORCOME LEAD TO IN ORCOME LEAD. SCALE THEN CONCERTED AND DISPOSED OFF SITE.

CLEMING OF THE TOUR PLACE ON SEP 3, 1953, M. SCALISE DIAERRY INCOLVED. ONE OF THIS FIRST JOBS ON REPORTING TO REFILTER. ESTIMATES THIS 10-15 BARREDS OF SCALE REMOVED FROM THE TANK. SITE 1775 RECEIVED NO FERTISE SCALE SITCE THAT TOME. His indicates that the tarrely were used for transporting the Dale. His indicates that the tarrely were used for transporting the Dale. MR. SCALISE ALSO INDICATED DATE BURGED WITHINGSS IN THE MESS ACCOUNT AND DALES THE PROSEM DIFFERENT

REF, 10

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INTERV	IEW FORM	
HC Miron	y Mc Murry	
NTERVIEWEE/CODE MIKE MALAURR		/
ITLE - POSITION ENVIRONMENTAL		
DDRESS 600 Dalaware Ave		
	STATE N.Y	ZIP /4202
HONE (716) $\frac{1}{642} - \frac{2}{215} \frac{1}{547} - \frac{4}{557}$	RESIDENCE PERIOD	TO
OCATION. DEC REGULATORY AFFAIR	INTERVIEWER 201	C NYE - DIM
DATE/TIME 1/3/86 /	BUFFALO	
UBJECT: METLANDS + FLOOD INFO- R	EGION 9	••
· · ·		
REMARKS: MET WITH MIKE WITO 64	VE ME ACCESS TO	BOTH WETLAND
AND FLOODINGY MAPS FOR THE L	OCAL REGION	- M
	////	
V he was sime used to		
* ALSO LEFT SITE LOCATIONS FOR	THE IDENTIFICATION	V OF WILDLIFE
CRITILAL HABITAT & WILDLIFE REF	-	y of wildlife
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NATIONAL	-	<u>Υ</u> ΟΓ Υμιλ) LIFE
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CRITILAL HABITAT & WILDLIFE REF	0.65.5	y or wildlife nental Analyst

•

REF. 10

INTERVIEW FORM

TITLE - POSITION Environmental A		
	nalyst	
ADDRESS 600 Delaware Ave.		
CITYBuffalo		ZIP14202
PHONE (716) 847-4551	RESIDENCE PERIOD	
LOCATION DEC Regulatory Affairs Buffal	DINTERVIEWER PRC,	NYE, DIM
DATE/TIME/	· ·	
SUBJECT: Wetlands & Flood info- Regi	on 9	·
REMARKS: Met with Mike who gave me acc	ess to both Wetland and	Floodway maps for
the local Region		
Also left site locations for	the indentification of	wildlife critical
Habitat & National Wildlife Refuges		<u></u>
		· · · · · · · · · · · · · · · · · · ·
		··································
		<u></u>
	·	
I AGREE WITH THE ABOVE SUMMARY OF THE	INTERVIEW:	
	· · · · · · · · · · · · · · · · · · ·	<u> </u>
SIGNATURE: /s/ Michael I. McMurra	y, Environmental Analy	şŧ
	·	•
COMMENTS:		

REF. 10

NYS WETLANDS MAPS

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

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

CLASSIFICATION CODE: 2a RE	GION: 9 SITE (CDDE: 915008a
NAME OF SITE : Ashland Petroleum C STREET ADDRESS: 4545 River Road TOWN/CITY:	OTP.	ZIP:
Tonawanda	Erie	14217
SITE TYFE: Open Dump-X Structure- ESTIMATED SIZE: 1 < Acres	Lagoon- Landfill-	Treatment Fond-
SITE OWNER/OFERATOR INFORMATION:		
CURRENT OWNER NAME Ashland Pe	-	•
CURRENT OWNER ADDRESS.: 2630 Elmwo	od Ave., Kenmore, NY	14217

OWNER(S) DURING USE...: Ashland Fetroleum Corp. OPERATOR DURING USE...: Same ' OFERATOR ADDRESS.....: Same as above FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From To 1953

SITE DESCRIPTION:

This site was used as a weathering'area for tetraethyl lead sludge that resulted from the cleaning of storage tanks. The site was reportedly used only once in 1953. After the lead sludge had weathered, it was reportedly excavated from the site and disposed off site.

HAZARDOUS WASTE DISPOSED:

Confirmed-X Suspected

ted -____QUANIIIY_(units)_ Several tons

_____TYPE_____ Tetraethyl lead sludge

Page 9 - 93

REF.

REF. 11

SITE CODE: 91500Ba

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Ininking Water- Surface Water- Air-

LEGAL ACTION:

TYPE..: None State- Federal-STATUS: In Progress- Completed-

REMEDIAL ACTION:

Froposed- Under Design- In Frogress- Completed-X NATURE OF ACTION: Lead sludge was reportedly excavated.

GEOTECHNICAL INFORMATION: SOIL TYPE: GROUNDWATER DEPTH: Unknown

ASSESSMENT OF ENVIRONMENTAL FROBLEMS:

Extent of environmental problems is unknown, although significant problems appear unlikely.

ASSESSMENT OF HEALTH FROBLEMS:

Insufficient information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME:: Peter Buechi TITLE: Assoc: Sanitary Engr.

NAME:: Roberto A, Olazagasti TITLE: Solid Waste Management Spec.

DATE .: 01/24/85

NEW YORK STATE DEPARTMENT OF HEALTH

NAME:: R. Tramontano TITLE: Bur, Tox. Subst. Assess.

NAME.: TITLE:

DATE .: 01/24/85

Fage 9 - 94

REF. 12

Dangerous Properties of Industrial Materials

Sixth Edition

N. IRVING SAX

Assisted by: Benjamin Feiner/Joseph J. Fitzgerald/Thomas J. Haley/Elizabeth K. Weisburger



US CENSUS DATA, 1980

REF. 13

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

ERIE COUNTY

4 171115

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TP

12.

REF. 13

50.000 float primitial and on tyrik York coordinate System (Alexandria

THIS IS NOT THE OWNER OF THE OWNE

ERIE COUNTY PLANNING DEPARTMENT

1980 CENSUS TRACTS

Tract Boundaries Tract Boundaries Extending to the International Boundary Tract Portion

Source: U.S. Bureau of the Census, 1980. Prepared: Erie County Department of Environment and Planning, Division of Planning, October 1980.

REF. 14

GENERAL SOIL MAP

ERIE COUNTY, NEW YORK (Scale 1:62,500)

Prepared for

ERIE COUNTY SOIL AND WATER CONSERVATION DISTRICT

by the UNITED STATES DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

In cooperation with CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION

Report prepared by:

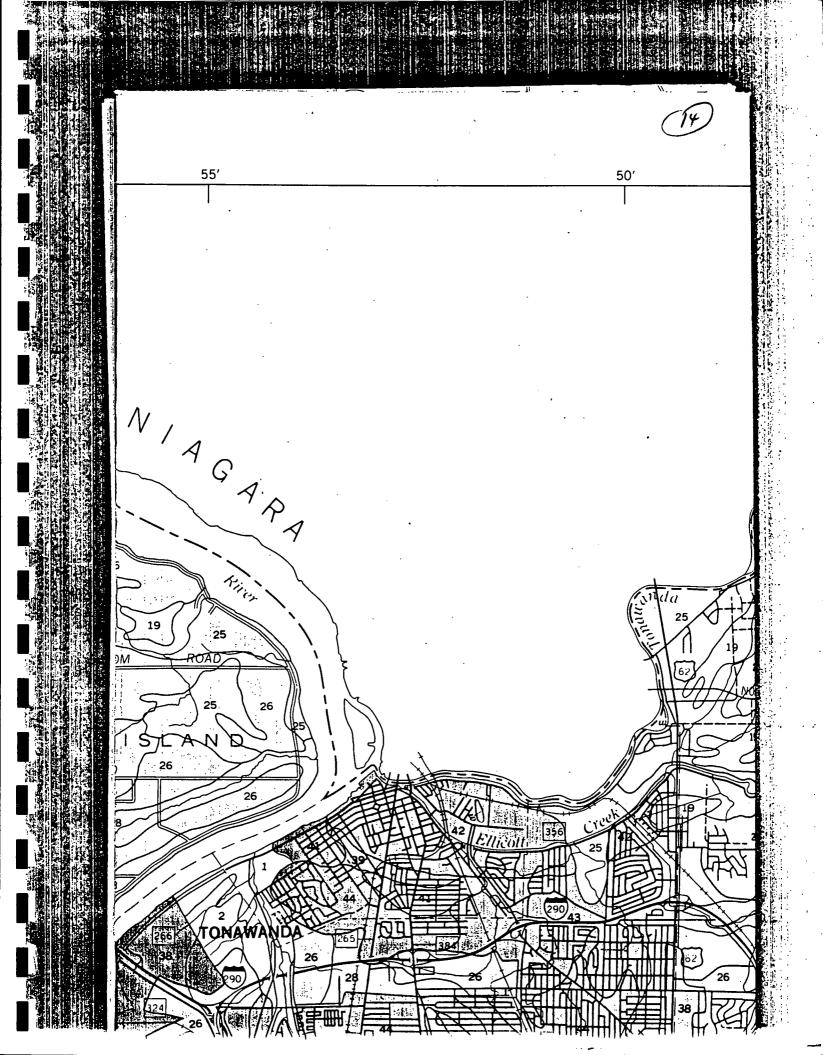
John P. Wulforst, Soil Scientist, Soil Conservation Service Willis E. Hanna, Soil Scientist, Soil Conservation Service

May 1979

This report is a supplement to the <u>Soil</u> Survey of Erie County, New York. The detailed soil survey provided a basis for preparation of this report and accompanying general soil map. The reader should consult the Soil Survey of Erie County for detailed soils information.

Note - Because this report is published in advance of the detailed Soil Survey of Erie County, a few soil names and interpretations may differ slightly from the final published detailed soil survey.

Partial funding for publication of this report was provided by the Erie County Soil and Water Conservation District.



1. CAZENOVIA-CAYUGA, GENTLY SLOPING

Deep, moderately well drained to well drained, loamy and clayey soils, on plains

This general soil unit consists of gently sloping and sloping soils on ridges, knolls, and slightly raised island-like benches on the lowland plain in the northern part of the county. A few areas in the southern portion of the county are on plateau shoulder slopes. Slope ranges from 3 to 15 percent, but is dominantly 3 to 8 percent.

This unit covers about 7,400 acres or 1.1 percent of the county. Cazenovia soils make up about 55 percent of the unit, Cayuga soils about 35 percent, and soils of minor extent comprise the remaining 10 percent.

The Cazenovia soils formed in loamy, reddish-colored, glacial till deposits with a moderate amount of soft shale fragments. The Cayuga soils formed in a thin layer of gravel-free, clayey sediments about 2 feet thick that mantle loamy glacial till deposits. Both soils are well drained and moderately well drained, and dominantly neutral in reaction in the subsoil and moderately alkaline in the substratum. They have a seasonal high water table perched at depths of 1.5 to 4.0 feet below the soil surface during early spring and other excessively wet periods. The rate of water movement (permeability) through the subsoil of Cayuga soils is slow, and in the subsoil of Cazenovia soils it is slow or moderately slow.

Soils of minor extent are those of the Ovid, Churchville, and Lima series. Ovid and Churchville soils are somewhat poorly drained and occur on foot slopes and in other low areas. Moderately well drained Lima soils are in areas where the clay content of the subsoil is lower than in the major soils.

Most areas of this unit near the urban fringe are idle, while more rural areas are used for farming. Seasonal wetness in low areas containing the minor soils will delay normal spring tillage operations. Erosion is a hazard, particularly on long slopes and where the soils are left bare of vegetative cover.

2. CHURCHVILLE-REMSON, NEARLY LEVEL

Deep, somewhat poorly drained, clayey soils, on lowland plains and fringe areas to the uplands

This general soil unit consists of nearly level to sloping soils on lowlands in the northern part of the county, and on plateau fringe areas extending from the central part to the southwestern portion of the county. Slope ranges from 0 to 15 percent, but is dominantly 0 to 3 percent.

This unit covers about 41,000 acres or 6.1 percent of the county. Churchville soils make up about 45 percent of the unit, Remson soils about 35 percent, and soils of minor extent make up the remaining 20 percent.

The Churchville soils formed in reddish, clayey sediments about 2 feet thick that mantle loamy glacial till deposits. The Remson soils formed in clayey glacial till with a moderate content of gray shale fragments. Both soils are somewhat poorly drained and have a seasonal high water table perched in the upper part of the subsoil during spring and other wet periods. Generally, surface water runs off these soils quite slowly. Rate of water movement (permeability) through the subsoil of Churchville soils is slow or very slow, and in Remson soils it is very slow.

Soils of minor extent include those of the Cayuga, Niagara, Danley, Lakemont, and Canadice series. Well drained and moderately well drained Cayuga soils are on convex knolls and ridges, and poorly drained and very poorly drained Lakemont soils are in depressions and along drainageways. In areas adjacent to Remson soils, moderately well drained Danley soils are on knolls and poorly drained Canadice soils are in low areas. Somewhat poorly drained Niagara soils are in areas where the subsoil has a lower clay content than in the major soils.

Most areas of this unit were originally cleared and used for farming. However, because of seasonal wetness and poor soil tilth, many of these areas are now idle and have reverted to brush. Some areas are used for pasture. Erosion is a serious hazard in more sloping areas.

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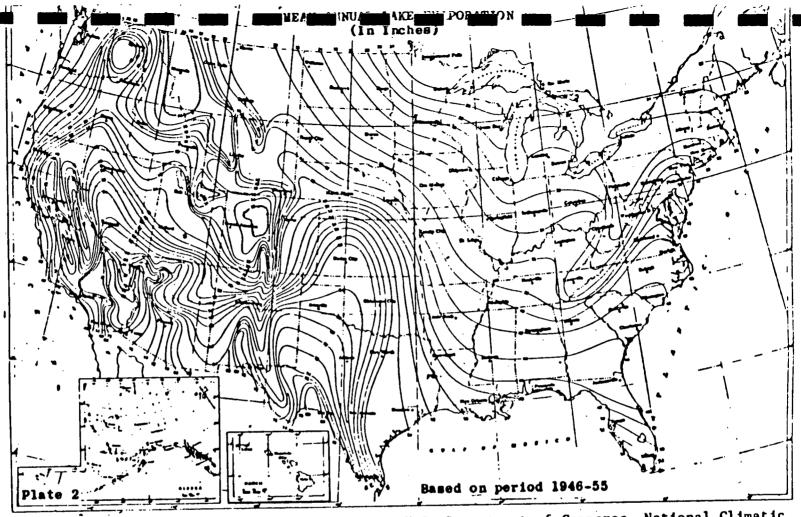
38. URBAN LAND

Nonsoil areas consisting of commercial and industrial developments This unit is composed of urban areas that are intensively developed for commercial and industrial uses. Very few areas of undisturbed soil which originally covered the landscape remain. Slope is mostly less than 3 percent, but in a few areas it ranges up to 8 percent. This unit covers about 15,400 acres or 2.3 percent of the county.

Practically all of the downtown commercial and industrial areas of the cities of Buffalo and Lackawanna, and a sizable portion of Tonawanda are in this unit. Most areas are covered with buildings, roads, or parking lots; however, a sizable portion of the unit includes landfills, industrial waste, and extensive fill and dredge areas such as those near the Buffalo harbor.

Some areas of this unit extend into, or occur as islands, in suburbs. These areas are mostly industrial parks, railroads, airports, and exceptionally large shopping plazas.

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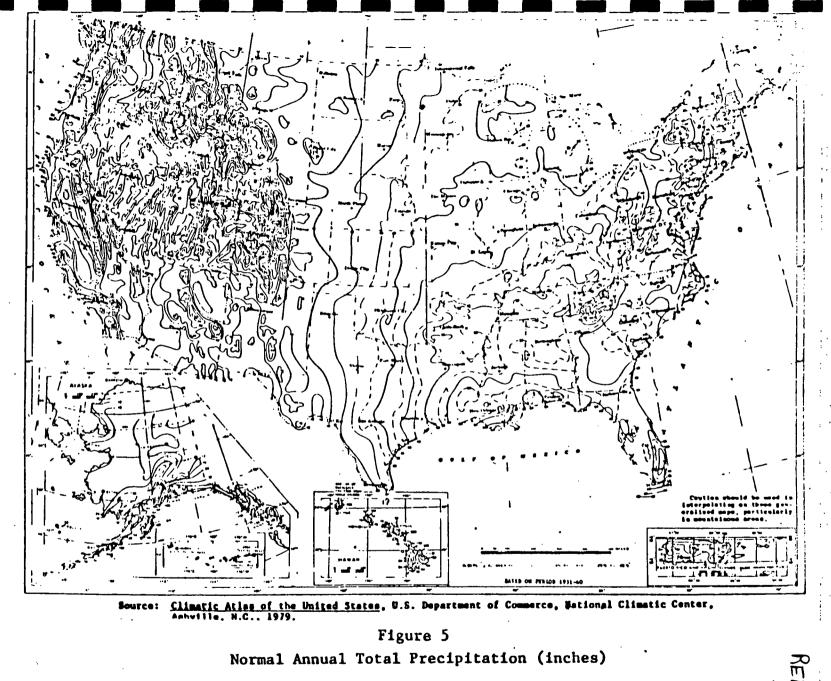
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Source: Climatic Atlas of the United States, U.S. Department of Commerce, National Climatic Center, Ashville, N.C., 1979.

Figure 4

Mean Annual.Lake Evaporation (In Inches)



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"Preliminary Evaluation of Chemical Migration to Groundwater and the Niagara River from Selected Waste-Disposal Sites"

REF. 16

Bу

Edward J. Koszalka, James E. Paschal, Jr.,

Todd S. Miller and Philip B. Duran

Prepared by the U.S. Geological Survey

in cooperation with the

New York State Department of Environmental Conservation

for the

U.S. ENVIRONMENTAL PROTECTION AGENCY

114. ASHLAND PETROLEUM COMPANY (Literature review)

NYSDEC 915061

General information and chemical-migration potential.--This site, in the northern part of the town of Tonawanda, is a solid-waste landfill containing spent lime, clay, wood, concrete, metal, and phosphoric acid catalysts. The potential for contaminant migration is indeterminable because data are lacking.

<u>Geologic information</u>.--The U.S. Geological Survey drilled four test borings on the site in 1975. The geologic logs indicated bedrock (Camillus Shale) at approximately 80 ft below grade. Overlying the bedrock is a sequence of silt and clay layers with occasional embedded gravel.

Hydrologic information.--No hydrologic information is available.

Chemical information .-- No chemical data are available, and no monitoring has been proposed.

115. ASHLAND PETROLEUM COMPANY (Literature review)

NYSDEC 915008c

<u>General information and chemical-migration potential</u>.--This site, received lowlevel radioactive material during 1944-46. Approximately 8,000 tons of uranium ore tailings containing 0.54 percent uranium was spread over the area to a depth of 2 ft.

No data are available to determine contaminant migration by ground-water movement. However, the chemical analyses of water from adjacent drainage ditches indicate the presence of some heavy metals and low-level radiation, which indicates possible offsite migration by surface runoff. The potential for contaminant migration in ground water is indeterminable. <u>Geologic information</u>.--The site is underlain by glacial lacustrine clay of unknown thickness that in turn overlies bedrock of Camillus Shale. No geologic test borings have been made.

Hydrologic information.--No ground-water data are available. Surface water flows from the site into drainage ditches and culverts, which drain into Two Mile Creek, a tributary to the Niagara River (pl. 2).

Chemical information.--The U.S. Energy Research and Development Administration (ERDA) and the Erie County Department of Environmental Planning (ECDEP) have collected and analyzed several surface-water and soil samples.

In 1976, ERDA collected nine mud samples and eight water samples from drainage ditches upgradient and downgradient of this site. The mud samples were analyzed for uranium 238, and the water samples for radium 226, uranium 234, 235, 238, and thorium 228, 230, and 232. The results indicated low-level radiation and contamination of soils in the area.

In June 1981, ECDEP collected four water samples from the drainage ditches leading downstream from the site and analyzed them for heavy metals and selected organic compounds and tested for alpha, beta, and gamma radiation. Results supported the ERDA data, confirming the migration of low-level radiation from the site through the drainage areas. The levels of radiation in the drainage ditches are significantly below Nuclear Regulatory Commission standards.

116. ASHLAND PETROLEUM COMPANY (Literature review)

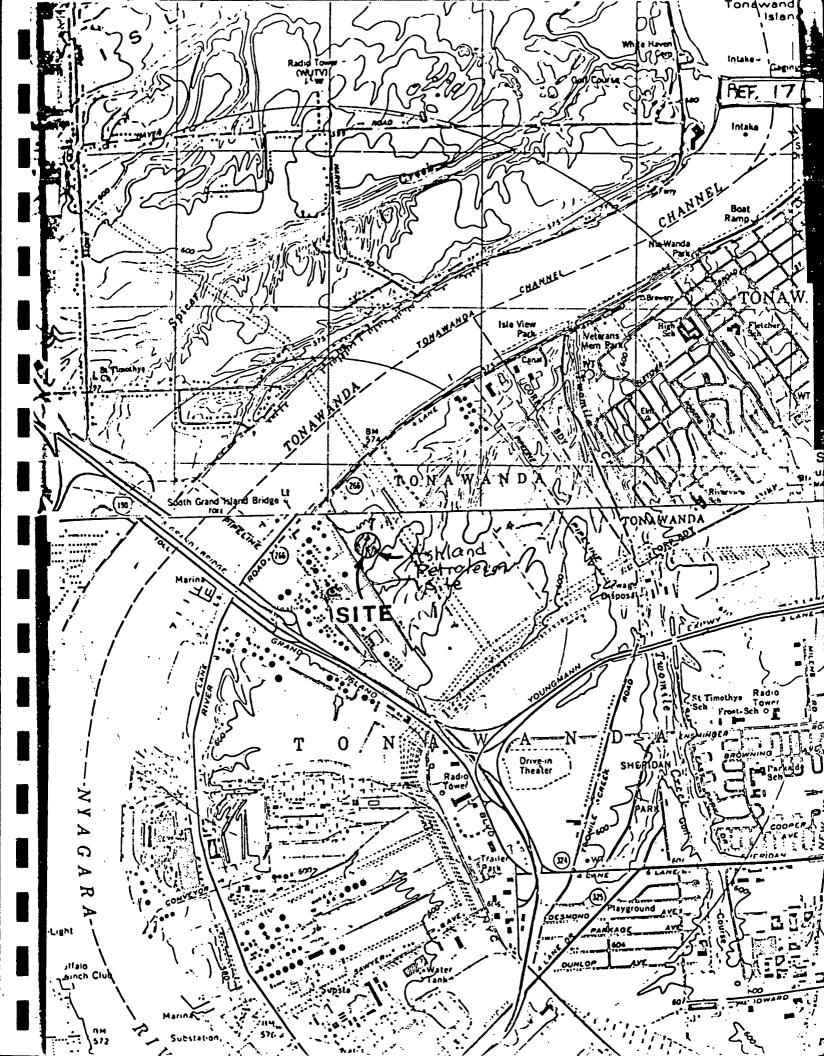
NYSDEC 915008-a

<u>General information and chemical-migration potential</u>.--This site, in the northern part of the town of Tonawanda, was a weathering area for tetraethyl lead sludges in 1953. The area used was 10 ft x 30 ft. The site was well contained, and no leachate was present upon surficial inspection. Owner representatives indicated that lead sludge had been excavated and disposed of offsite after the lead had weathered for several years. The site probably poses no hazards, and no monitoring has been proposed. The potential for contaminant migration is indeterminable.

117. ASHLAND PETROLEUM COMPANY (Literature review)

NYSDEC 915008-b

General information and chemical-migration potential.--This site, in the northern part of the town of Tonawanda, has been a storage pit for sediments, oil sludges, and chemical-spill recovery. The area is a concrete storage pit 280 ft wide and 220 ft long. No monitoring has been proposed for the site, and the potential for contaminant migration is indeterminable.



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

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EPA FORM 2070-12(7-81)

L IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE 01 STATE 02 SITE NUMBER SEPA PRELIMINARY ASSESSMENT 00063653133 N4 PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS IL HAZARDOUS CONDITIONS AND INCIDENTS (Comment D POTENTIAL O ALLEGED 02 COBSERVED (DATE: _ _) 01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION no rene D POTENTIAL C ALLEGED 02 C OBSERVED (DATE: ____ _) 01 C K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (means no recol _) D POTENTIAL 02 D OBSERVED (DATE: ____ 01 CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION not likely - area is industrial / commind D POTENTIAL ALLEGED 01 C M. UNSTABLE CONTAINMENT OF WASTES 02 DOBSERVED (DATE: _ (Some nine 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED:_ __) __ D POTENTIAL 02 OBSERVED (DATE: _____ C ALLEGED 01 C N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION no beend 01 0 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 02 0 OBSERVED (DATE: _ 04 NARRATIVE DESCRIPTION SPDES permit on file - monitor for level not able to edistif, source. D POTENTIAL 01 D P. ILLEGAL/UNAUTHORIZED DUMPING 02 DOBSERVED (DATE: ____ C ALLEGED 04 NARRATIVE DESCRIPTION Not likely - and is fenced and petiollel? 05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS IL TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS . SOURCES OF INFORMATION (Car specific references, e.g., state thes, seriore energies, recorrect AUSTRE Region, 1982 Erie Canty Die, 1982 AVS atlas of Commenty wite System Bruces, 1982 EPA FORM 2070-12 (7-81)

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PA 2070-13

	POT	ENTIAL HAZAR		VASTE SITE		I. IDENTIF	
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Cathy J. Bas.	na	CivilE	nain	eer	Eminee	prine, Scie	1703) 591-7575
09 OTHER INSPECTORS					11 ORGANIZ	ATION	12 TELEPHONE NO.
Larry Keefe		Geolo	oist		Domes &	Mrore	(3)51638-257.
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ı ł		(Seecely)	NO. OF DRUMS		<u> </u>			
╎┟	III. WASTET							
┢	SLU	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
۱ŀ	OLW	SLUDGE		<u> </u>				
╞	SOL	OLY WASTE		420-630	gol.	TEL lad	uned sluda	¢
┢	PSD	SOLVENTS				placed	in dike in	1953
۱ŀ		PESTICIDES				to pron	arte volot	ilizoticr.
╞┠	<u>юс</u>	OTHER ORGANIC CH				of ora		
┢	ACD	INORGANIC CHEMIC	ALS	· .)	, <u> </u>	
۱ŀ	BAS	ACIDS						
╎┝	MES	BASES HEAVY METALS			·			
\mathbf{F}				L				
H	DI CATEGORY	OUS SUBSTANCES	pendia for most frequenc					
H	040	02 SUBSTANCE NA		03 CAS NUMBER	04 STORAGE/DISP	OSAL METHOD	05 CONCENTRATION	06 MEASURE OF
ľ	<u> </u>	Tetraethy 1.	ead	78-00-2	<u> </u>		Unknown	
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L	1						i	1
Ŀ	.FEEDSTO	CKS (See Aspende to CAS Member	₩	La	·····		L	
L	CATEGORY	01 FEEDSTOCK	NAME	02 CAS NUMBER	CATEGORY	01 FEEDST		
Γ	FDS	Done			FDS			02 CAS NUMBER
Γ	FDS				FDS			
	FDS				FDS			
	FDS				FDS			
v	I. SOURCES	OF INFORMATION (Care ap						
		Sad Dan	Clash d	FOR THE ANTON ANY SAL TO				
		S and D&M S	site visit	and then	VIEW, PT	0-85.		
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L IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE OI STATE OZ SITE NUMBER SITE INSPECTION REPORT 100063653,3 €FPA NV PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS N. IL HAZARDOUS CONDITIONS AND INCIDENTS D POTENTIAL C ALLEGED 02 CO OBSERVED (DATE: 01 D A. GROUNDWATER CONTAMINATION · 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: No record of testing D'POTENTIAL ALLEGED 02 COBSERVED (DATE: 01 DE B. SURFACE WATER CONTAMINATION 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: SPDES permit infile - in sufficient to identify sile is ALLEGED D POTENTIAL 02 COBSERVED (DATE: 01 C. CONTAMINATION OF AIR 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: _ unlikely - in organic land decomposed to ingunic lead) 'D POTENTIAL D ALLEGED 02 COBSERVED (DATE: 01 D. FIRE/EXPLOSIVE CONDITIONS 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: Hazard unlike as a result of weathing. **CKPOTENTIAL** D ALLEGED 02 C OBSERVED (DATE: 01 E DIRECT CONTACT 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: _ Glot Site is within a diked area, plant has a fence with a security checkpoint. D POTENTIAL C ALLEGED 02 COBSERVED (DATE: OT THE F. CONTAMINATION OF SOIL . 03 AREA POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION Residual lead in sub purface D POTENTIAL ALLEGED 02 COBSERVED (DATE: 01 C G. DRINKING WATER CONTAMINATION 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED: Low potential - SPDES permit on file for plant discharge ALLEGED D POTENTIAL 02 COBSERVED (DATE: 01 CH. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION No record D POTENTIAL. **ALLEGED** 01 DI. POPULATION EXPOSURE/INJURY 02 COBSERVED (DATE: **04 NARRATIVE DESCRIPTION** 03 POPULATION POTENTIALLY AFFECTED: No Record EPA FORM 2070-13 (7-81)

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I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE 01 STATE OZ SITE NUMBER SITE INSPECTION REPORT 00063653133 NY PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS · · · · · ZARDOUS CONDITIONS AND INCIDENTS (Comme O ALLEGED -D POTENTIAL 02 COBSERVED (DATE: _1 01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION Time netuel D POTENTIAL 02 COBSERVED (DATE: ___ .1 01 C K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include names al of se none nous D POTENTIAL C ALLEGED 01 CONTAMINATION OF FOOD CHAIN 02 C OBSERVED (DATE: ____ _) 04 NARRATIVE DESCRIPTION Unlikely - industrial area D POTENTIAL ALLEGED 01 D M. UNSTABLE CONTAINMENT OF WASTES 02 C OBSERVED (DATE: __ _} _____ 04 NARRATIVE DESCRIPTION 03 POPULATION POTENTIALLY AFFECTED:__ Contained in inprendment 02 OBSERVED (DATE: _____) C ALLEGED D POTENTIAL 01 IN. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION none notices D POTENTIAL O ALLEGED JI O . CONTAMINATION OF SEWERS, STORM DRAINS, WWTPS 02 OBSERVED (DATE: 11 04 NARRATIVE DESCRIPTION No second - SPDES permet on file - monitoring to 02 COBSERVED (DATE: ____ OT D P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION 1ic-OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZAROS IL TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS V. SOURCES OF INFORMATION (Cro so acte references, e. g., state free, service energies, records ES. D.M. Sile visit PAFORM2070-13 (7-81)

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

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I. IDENTIFICATION DI STAJE OZSTENUNSER NI NYDOC6365313

	FAR1 4-1 Climit					· · · · · · · · · · · · · · · · · · ·
IL PERMIT INFORMATION						
DI TYPE OF PERMIT ISSUED	OZ PERMIT NUMBER	03 DATE IS	SUED	04 EXPIRATION DATE	03 COmmering	
(Check al the approp						
A. NPDES	- Acal					
D.D. RCRA						
DE. ACRA INTERIM STATUS						
D.F. SPCC PLAN				<u> </u>		
G. STATE Sources						
H. LOCAL			•	<u> </u>		
DL OTHER						
	SPDES				For entire	property
III. SITE DESCRIPTION						
DI STORAGE/DISPOSAL (Check of the source)	02 AMOUNT 03 UNIT (F MEASURE	041	REATMENT (Chocs of the		05 OTHER
	420-630 40	21		INCENERATION		
CA SURFACE IMPOUNDMENT	<u> 12 </u>		1	L UNDERGTOUND IN	JECTION	DA. BUILDINGS ON SIT
C. DRUMS, ABOVE GROUND				CHEMICAL/PHYSIC		
D. TANK, ABOVE GROUND				BIOLOGICAL		
E TANK, BELOW GROUND				WASTE OIL PROCE		06 AREA OF SITE
C F. LANDFILL	—			SOLVENT RECOVE		21/2
C G. LANDFARM				B. OTHER RECYCUN	GURECOVERY	·/*
				1. OTHER VOLNE	Souchy	· ·
	·····		1			
site is the area approximately 7-8 rust scale (which a dike. The TEL is 1 The sluda was disposed in a	celleved to have removed and sp	d spre ie vou iread	ctiz ctiz	ng it in (ed. No sau volatilizati	inch lay. moling is a ion in 195	ers within the vailable. sz. Remains we
IV. CONTAINMENT			•			
01 CONTAINMENT OF WASTES (Creat and	/					
A ADEQUATE, SECURE	B. MODERATE	🗆 C.	INADE	QUATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS
OZ DESCRIPTION OF DRUMS, DIKING, LINER	S. BARRIERS, ETC.					
Dike Height = 7	-8 high				•	
V. ACCESSIBILITY		•	······			
01 WASTE EASLY ACCESSIBLE:	YES CONO	. ^		المتناسم والمتنا	1 ouber 1	de
Site within pr	reporty. Property	isten	cea	र युगय त्याद	र्यपाद /	Cerrys
She iself is	diked.					
VI. SOURCES OF INFORMATION 10			(000/18)	· · · · · · · · · · · · · · · · · · ·		
FS ond DAM Ste	the second se					
EPA Preliminary	Evaluation of Che ected waste-disp	pmical 1	Migr Ies,	ation to Grea	undiwater an	d the Niagore
EPA FORM 2070-13 (7-81)		<u> </u>				
				-		

€PA	PART 5	•	NTIAL HAZARI SITE INSPECT DEMOGRAPHIC	ION REPOR	T			TIFICATION E 02 SITE NUMBER DO063653133
DRINKING WATER SUPPL	Υ			• • •	<u>.</u>		<u> </u>	•
1 TYPE OF DRINKING SUPPLY			02 STATUS				. 031	DISTANCE TO SITE
(Charles an applicable) SUR		VELL	ENDANGERE	D AFFECTE	א ם	ONITORED		2 5
COMMUNITY A	. 🖄 👘	B. CI	A. 🗆	8. 🗆		C . []		(mi)
NON-COMMUNITY C	.0	0. 🖸	D. C	EO		F. 0		
IL GROUNDWATER			·····	<u></u>				
DI GROUNDWATER USE IN VICINIT	ν κυνία Ξ8.DR ιου . CO	ar sources availa	OUSTRIAL IRRIGATION	(Lana o		INDUSTRIAL, IRRIC	EATION 5	D. NOT USED, UMUSEABLE
02 POPULATION SERVED BY GROU			_	03 DISTANCE T	O NEARES	T DRINKING WATE	R WELL	(m)
04 DEPTH TO GROUNDWATER		CTION OF GR	OUNDWATER FLOW	OS DEPTH TO A		07 POTENTIAL		OB SOLE SOURCE AQUIFER
7.80			y m	OF CONCER		OF ADUIFER	3pm	CINES DNO
(m)		linin						compare
09 DESCRIPTION OF WELLS (Incard						,		
10 RECHARGE AREA				11 DISCHARGE	AREA			
I YES COMMENTS					COMMEN	TS		· •
. SURFACE WATER		<u> </u>		<u> </u>				
01 SURFACE WATER USE (CHAR)			ON, ECONOMICALL			IAL, INDUSTRIAL		D. NOT CURRENTLY USED
						AFFEC	TED	DISTANCE TO SITE
NAME:	<u>.</u>							0.5 (mi
Tilaqua	Liner_					0		(mi
			• •			0	•	(mi
V. DEMOGRAPHIC AND PI	OPERTY INFO	RMATION				02 DISTANCE TO M	EAREST PO	
ONE (1) MILE OF SITE A. <u>4988</u> NO. 65 PERSONS	TWO (2) M B NO. (AILES OF SIT	E THREE C	(3) MILES OF S 52 (59 NO. OF PERSONS	_			• • • • • • • • • • • • • • • • •
03 NUMBER OF BUILDINGS WITH	IN TWO (2) MILES	OF SITE		04 DISTANCE	TO NEAR	EST OFF-SITE BUI	DING	
						- <u></u>		(mi)
OS POPULATION WITHIN VICINIT	OF SITE (Provedo na					e. densely populated		
Birder	strict on	I com	mercial as	ua - pr	qub	tim an	pint 1	Sumaris
of worker). Alses	A rese	elinces 1	1.5 mil	les 1	All the East.		
l								
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EPA FORM 2070-13 (7-81)				•				

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I. IDENTIFICATION POTENTIAL HAZARDOUS WASTE SITE OI STATE OZ SITE NUMBER SITE INSPECTION REPORT シトヤム NY 1006365333 PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA I. ENVIRONMENTAL INFORMATION PERMEABILITY OF UNSATURATED ZONE (Check and 🖞 A. 10-4 - 10-4 cm/sec 🛛 B. 10-4 - 10-4 cm/sec 🖾 C. 10-4 - 10-3 cm/sec 🖾 D. GREATER THAN 10-3 cm/sec 2 PERMEABILITY OF BEDROCK (Check and B. RELATIVELY IMPERMEABLE C C. RELATIVELY PERMEABLE C D. VERY PERMEABLE C A IMPERMEABLE (Greater than 10 - 2 cmrsac) (10-4 - 10-4 UNVINE) (10-2 - 10-4 (20100) 04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH S DEPTH TO BEDROCK ~75.80 Les Know unhnow m (11) 07 ONE YEAR 24 HOUR RAINFALL OB SLOPE 6 NET PRECIPITATION DIRECTION OF SITE SLOPE , TERRAIN AVERAGE SLOPE SITE SLOPE 2.1 \mathcal{O} dosed not (in) (in) 09 FLOOD POTENTIAL 10 C STE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY SITE IS IN JOUL YEAR FLOODPLAIN 12 DISTANCE TO CRITICAL HABITAT In endangered species 11 DISTANCE TO WETLANDS IS and another ESTUARINE OTHER . (mi) 0.3 ENDANGERED SPECIES: .(mi) 8. ന്ന്രി 13 LAND USE IN VICINITY DISTANCE TO: RESIDENTIAL AREAS; NATIONAL/STATE PARKS. AGRICULTURAL LANDS AG LAND COMMERCIAL/INDUSTRIAL FORESTS, OR WILDLIFE RESERVES PRIME AG LAND B. 1.5 (mi) c. 73 (mi) 0. 73 . · () (mi) . (mi) 14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY Ste is located within the ashland Returkeron refinery. alloged to be wish the confines of burned fire control around Tank #24. area es generelly heavy indication / commercial with open areas between properties. Deneral hazerbour waste dissonal site identified in the immediate area. Vicares residution the is approximatily 1.5 miles wie of site. /II. SOURCES OF INFORMATION (Cate specific references, e.g., size rise. 11545 11982 MYSDER, 18, 9; 1984 CAL 40, Purt 300, 1583 ESODA BLEVIE, 1985 EPA FORM 2070-13 (7-81)

\$epa		OTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT ART 6 - SAMPLE AND FIELD INFORMATION	L IDENTISICA	
I. SAMPLES TAKEN		· · ; :··		-
SAMPLE TYPE	I NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		RESULTS AVA
GROUNDWATER		None	· .	
			· .	
WASTE	· · · ·			<u> </u>
AIR	•	7		
RUNOFF	•			1
SPIL			·.	
SOL				<u> </u>
VEGETATION				,
OTHER	<u> </u>	None	· .	
IIL FIELD MEASUREMENTS TAM	EN	,		
IV. PHOTOGRAPHS AND MAPS 01 TYPE ETGROUND D AERIAL 03 MAPS 04 LOCATION 04 LOCAT	POFMAPS may of sit	oz naustoor of <u>Engineering</u> -Scient INDER of Organization of market e was updated during site in	RANGE)
• -•		•	•	
VI. SOURCES OF INFORMATION ES and Da		nspection 12-10-85 and Apr	1986	
EPAFORM 2070-13 (7-81)				

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CURRENT OWNER(S)	· · · ·		PARENT COMPANY (# ADDACADE		•
INAME	L .	D D+BNUMBER	DB NAME	c	D+BNUMSER
ASh Cin) & Petrileum (orap	2ny	04 SIC CODE	10 STREET ADDRESS (P 0 Box. RFD #. er		11 5/3 CODE
4545 River Road T. Toraubunda	1 1		12 СПУ	13 STATE	A JP CODE
1. TO nautorna	NY	14150 220+8 NUMLER	C6 NAME	<u> </u>	SO+SNUPICR
STREET ADDRESS (P 0. Box AFD 4, enc.)		04 SIC CODE	10 STREET ADDRESS (P 0. 600. RFD #	ne.)	11 SIC CODE
35 CTY	IOA STATE	07 ZIP CODE	12 CITY	13 STATE	IA ZIP CODE
DI NAME		02 D+ B NUMBER	OS NAME		D9 D+ B NUMBER
STREET ADCRESS IP O. Bos, AFD . ME.		04 SIC CODE	10 STREET ADDRESS (P.O. Bos. AFO	91C.)	1 1 SIC CODE
DS CITY	OB STATE	07 ZIP CODE	12 СПУ	13 STATE	14 ZIP CODE
)) NAME		02 D+B NUMBER	OB NAME		09 D+ 8 NUMSER
DIGTREET ADDRESS (P.O. Box. AFD S. WEJ		04'SIC CODE	10 STREET ADDRESS (P.O. Box, AFD 4,	e=c.j	1 1 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	12 GITY	13 STATE	14 ZIP CODE
IIL PREVIOUS OWNER(S)			IV. REALTY OWNER(S) (" ADDREA	pla; lat most record frat	
Same		02 D+8 NUMBER	01 NAME		02 D+B NUMBER
03 STREET ADDRESS (P.O. Ban, APD	·	04 SIC CODE	03 STREET ADDRESS (P.O. Box. AFD .	, erc.)	04 SIC CODE
05 CITY	OBSTATE	07 ZIP CODE	05 CITY	O6 STATE	07 ZIP CODE
01 NAME .		02 D+B NUMBER	01 NAME	 , I	02 D+8 NUMBER
D3 STREET ADORESS (P.O. Box, AFD 4, ORL)	•	04 SIC CODE	03 STREET ADDRESS (P Q. Bas. AFD P	/, effc.)	04 SIC CODE
05 CITY	06 STATE	07 ZIP CODE	OS CITY	OS STAT	OT ZIP CODE
OI NAME		02 D+8 NUMBER	01 NAME	· · · · · · · · · · · · · · · · · · ·	C2 D+ 8 NUMBER
D3 STREET ADDRESS (P.O. And, AFD 4, and)		04 SIC CODE	03 STREET ADORESS (P.O. Bas, AFO	· · · · · · · · · · · · · · · · · · ·	04 SIC CODE
05617	06 STATI		05 CITY	OB STAT	E OT ZIP CODE
V. SOURCES OF INFORMATION (Cr. a	prefit relevance	. e.g., state fres, semaie and	//sa, /spa/15/		
Es and DAM Sin	e Ins	pection 12	-10-85		
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		PO		RDOUS WASTE SI	E		SITE NUMBER
SEPA		•		CTION REPORT	• • •		400063655
				<u> </u>			
IL CURRENT OPERATO	R (Provide & attended her			OPERATOR'S PARE	NT COMPANY (
I NAME	<i>C</i>		D + B NUMBER	10 NAME	·		11 D+B NUMBER
Ashland Petroke	um (ompai	14					
DI STREET ADDHESS IP O MO		•	04 SIC CODE	12 STREET ADDRESS IP C	. Bos, AFD#, mc.j		13 SIC CODE
4545 River	Road						
CS CITY	1		07 ZIP CODE	1 4 CITY	•	15 STATE	16 ZIP CODE
T. Tonaulo		NY	14150				
Pridr & Jan Ho	CO NAME OF OWNER	· · ·	-				
1952 - Dife	Same						
III. PREVIOUS OPERATI	OR(S) ILas most record I		d atterent from a wner)	PREVIOUS OPERAT	ORS' PARENT C	OMPANIES #	ADDICADION .
01 NAME			02 D+8 NUMBER	10 NAME			11 D+B NUMBER
					. '		
03 STREET ADDRESS (P.O. Bo	L AFD P. HE.		04 SIC CODE	12 STREET ADDRESS (P.	0. Bot. AFD 4. erc.)	•	13 SIC CODE
05 CITY		OB STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
			-				
08 YEARS OF OPERATION	09 NAME OF OWNER	DURING THIS	PERIOD				<u> </u>
01 NAME	l		02 D+B NUMBER	10 NAME			111 D+8 NUMBER
03 STREET ADDRESS (P.O. Bo	L, RFD F, HCJ		04 SIC CODE	12 STREET ADDRESS (P.	0. Bos. RFD #, HEJ		
		•					
05 CITY		OB STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
			•	·			
08 YEARS OF OPERATION	09 NAME OF OWNER		S PERIOD				1
					•		
01 NAME	<u> </u>		02 D+B NUMBER	10 NAME	. <u> </u>		11 0+8 NUMBE
		:					
03 STREET ADDRESS (P.O. BO		<u> </u>	04 SIC CODE	12 STREET ADDRESS (P	0 801 860 4 977 1		
				TZ STREET ADDRESS IF			
05 CITY		-			· · · · · · · · · · · · · · · · · · ·	1	EL 16 ZIP CODE
		UBSIALE				13 3141	CODE
	1	<u> </u>	<u> </u>				· · · · ·
DB YEARS OF OPERATION	09 NAME OF OWNER	R DURING TH	is period				•
· · ·						•	
IV. SOURCES OF INFO	RMATION (Cas aper	ate references,	e.g., state free, sample and	HIL (*00112)			
EsandD	am site	Visit	12-10-85				
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EPA FORM 2070-13 (7-81)

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	P	OTENTIAL HAZ	ARDOUS WASTE SITE	I. IDENTIF	ICATION
SEPA			ECTION REPORT	OI STATE OZ	SITE NUMBER
	PARTS	-GENERATOR/T	RANSPORTER INFORMATION	NYIN	10006365
IL ON-SITE GENERATOR					
DI NAME		02 D+B NUMBER		•	• •
· •		OF DAR NOWREN			• ·
Ashhad Tetroleum Competers Street ADDA BESS (D. B. AND P. MAS	2ny			· ·	
	•	G4 SIC CODE	•		
4545 River Road	· .	11		-	
CTTY 200	OB STATE	OT ZIP CODE			
T. Tonawanda	NY	14/150			
II. OFF-SITE GENERATOR(S)				· · · · ·	
01 NAME		GZ D+ B NUMBER	101 NAME		102 0+5 NUM
Sume		,			52 5 5 5 KLM
SIREET ADDRESS (P.O. Bos, AFD . Mail				· · · · · · · · · · · · · · · · · · ·	
			03 STREET ADDRESS (P.O. Bos. AFD #, +R.)		24 5-0 0
				•	
	US STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZP CODE
		· · · · · · · · · · · · · · · · · · ·			ļ
DI NAME		02 D+8 NUMBER	01 NAME		02 2 + 5 NUM
·			. .		1
3 STREET ADDRESS (P.O. Box, AFD		04 SIC CODE	03 STREET ADDRESS (P.Q. Bos, AFD #, etc.)		04 SIC C
			· · ·		
DS CITY	D6 STATE	07 ZIP CODE	05 CITY		107 ZIP CODE
· · · ·					
IV. TRANSPORTER(S)					<u> </u>
		•			
		02 D+B NUMBER	01 NAME		02 D+ 8 NUM
)1 NAME					02 D+ 8 NUM
		02 D+B NUMBER	01 NAME 03 STREET ADDRESS (P.O. BOL AFD F. MC.)		
01 NAME		04 SIC CODE			
)1 NAME				06 STATE	04 SIC C
01 NAME		04 SIC CODE	03 STREET ADDRESS (P.O. BOL AFD #, ME)	06 STATE	04 SIC C
01 NAME	C6 STATE	04 SIC CODE	03 STREET ADDRESS (P.O. BOL AFD #, ME)	06 STATE	04 SIC C
DI NAME	C6 STATE	04 SIC CODE	03 STREET ADDRESS (P.O. BOL. AFO F. ME.) 05 CITY	06 STATE	04 SIC C
DI NAME	C6 STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER	03 STREET ADDRESS (P.O. BOL. AFO F. ME.) 05 CITY 01 NAME	06 STATE	04 SIC C 07 ZIP CODE 02 D+ B NUM
DI NAME	C6 STATE	04 SIC CODE	03 STREET ADDRESS (P.O. BOL. AFO F. ME.) 05 CITY	OS STATE	04 SIC C 07 ZIP CODE 02 D+ B NUM
DI NAME	O6 STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE	03 STREET ADDRESS (P.O. BOL, AFD #, MC.) 05 CITY 01 NAME 03 STREET ADDRESS (P.O. BOL, AFD #, MC.)		02 D+ B NUM 04 SIC C 07 ZIP CODE 02 D+ B NUM 04 SIC C
DI NAME	O6 STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER	03 STREET ADDRESS (P.O. BOL. AFO F. ME.) 05 CITY 01 NAME		04 SIC C 07 ZIP CODE 02 D+ B NUM
DI NAME	06 STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (P. O. BOL, AFD F, MC.) 05 CITY 01 NAME 03 STREET ADDRESS (P. O. BOL, AFD F, MC.) 05 CITY		04 SIC (07 ZIP CODE 02 D+ B NUM 04 SIC (
DI NAME	06 STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (P. O. BOL, AFD F, MC.) 05 CITY 01 NAME 03 STREET ADDRESS (P. O. BOL, AFD F, MC.) 05 CITY		04 SIC 0 07 ZIP CODE 02 D+ B NUM 04 SIC 0
UT NAME 	OB STATE	04 SIC CODE 07 ZIP CODE 02 D+8 NUMBER 04 SIC CODE 07 ZIP CODE	03 STREET ADDRESS (#.0. Box. AFD #, MC.) 05 CITY 01 NAME 03 STREET ADDRESS (#.0. Box. AFD #, MC.) 05 CITY		04 SIC (07 ZIP CODE 02 D+ B NUA 04 SIC (07 ZIP CODE
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C

		. 1	L IDENTIFICATION
	POTENTIAL HAZARDOUS WASTE SITE		01 STATE 02 SITE NUMBER
SEPA	SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	· · · · · · · · · · · · · · · · · · ·	NY DUCK 36531
	PART 10-PAST RESPONDE ACTINE		
PAST RESPONSE ACTIVITIES	02 DATE	03 AGENCY	
01 D A. WATER SUPPLY CLOSED 04 DESCRIPTION	• • • • • • • • • • • • • • • • • • •		
Not Applicable	e		
		03 AGENCY	
01 D 8. TEMPORARY WATER SUPPLY PRO			
01 C. PERMANENT WATER SUPPLY PRO	02 DATE	03 AGENCY	
04 DESCRIPTION	· · · · ·		· ·
01 D D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	· · · · ·	•	
· .			
01 D E. CONTAMINATED SOIL REMOVED	02 DATE	U3 AGENCY	
04 DESCRIPTION	•		
	02 DATE	03 AGENCY	·
			•
	02 DATE	03 AGENC	1
01 D G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION			
••••••			
01 D H. ON SITE BURIAL	02 DATE	03 AGENC	r
04 DESCRIPTION			
01 CL IN SITU CHEMICAL TREATMENT	02 DATE	03 AGENC	Υ
04 DESCRIPTION			
•	• •		
01 D J. IN SITU BIOLOGICAL TREATMEN	T 02 DATE	O3 AGENC	Υ
04 DESCRIPTION		•	
	02 DATE	03 AGEN	Y
01 C K IN SITU PHYSICAL TREATMENT			
01 C L ENCAPSULATION	02 DATE	03 AGEN	יד
04 DESCRIPTION			
1	· · · · · · · · · · · · · · · · · · ·		
01 D M. EMERGENCY WASTE TREATME	O2 DATE	_ 03 AGEN	CY
04 DESCRIPTION		,	· ·
			CY
01 CI N. CUTOFF WALLS	02 DATE		·
04 DESCRIPTION			
	E WATER DIVERSION 02 DATE	03 AGEN	ICY
01 D. O. EMERGENCY DIKING/SURFACE	E WATER DIVERSION UZ DATE		- x
			• •
	02 DATE	03 AGE	+CY
01 D. P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	V2 0/1/2		
			•
	02 DATE	03 AGE	NCY
01 C O SUBSURFACE CUTOFF WALL			
			<u>.</u>

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

LIDENTIFICATION DI STATE DE SITE NUMBER MI DOOG 365 3133

I PAST RESPONSE ACTIVITIES (Comment		••••
01 C R. BARRIER WALLS CONSTRUCTED	02 DATE	03 AGENCY
01 [] S. CAPPING/COVERING 04 DESCRIPTION		03 AGENCY
01 () T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 () V. BOTTOM SEALED 04 DESCRUPTION	02 DATE	03 AGENCY
01 D W. GAS CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY
01 D Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY
01 C Z AREA EVACUATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY
01 D 3. OTHER REMEDIAL ACTIVITIES	02 DATE 1955	
· TEL ladene disposed	of in an unknown	from dike and noff-cite landfill
- •		•
	•	·
IL SOURCES OF INFORMATION (Case specific references, s.g	., slare fries, sample analysis, reports)	
ES and DRM Site	Visit, 12-10-86	
		· · · ·
EPAFORM 2070-13 (7-81)		

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION I. IDENTIFICATION 01 STATE 02 SITE NUMBER NY DOC(3:53/32

. .

II, ENFORCEMENT INFORMATION

S:EPA

DI PAST REGULATORY/ENFORCEMENT ACTION D YES

02 DESCRIPTION OF FEDERAL STATE, LOCAL REGULATORY/ENFORCEMENT ACTION Not for specific site

£

IIL SOURCES OF INFORMATION (Cre specific references, e.g., state (see, sample analysis, reports)

Documentation from Albany NYSDEC - Div. of Regulationy Albairs, A80, 1985

EPA FORM 2070-13 (7-81)

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SECTION VI

ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

ASSESSMENT OF DATA ADEQUACY

A summary assessment of the adequacy of existing data for completion of the HRS score is presented in Table VI-1. Insufficient information is presently available to complete an HRS score for this site.

PHASE II WORK PLAN

Objectives

The objectives of the Phase II activities are:

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

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· VI-1

TABLE VI-1

ASSESSMENT OF DATA ADEQUACY

HRS	Data	Requirement	
<u>ш</u>	Ducu		•

Comments on Data

Observed Release

Groundwater

Inadequate to score an observed release

Adequate for HRS score

Surface Water

Inadequate to score an observed release

Air

Route Characteristics

Groundwater Adequate for HRS score
Surface Water Adequate for HRS score

AirAdequate for HRS scoreContainmentAdequate for HRS score

Waste CharacteristicsAdequate for HRS scoreTargetsAdequate for HRS scoreObserved IncidentAdequate for HRS score

Accessibility Adequate for HRS score

VI-2

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

- Groundwater A groundwater monitoring system is not recommended. The migration of lead through the clay overburden into the groundwater is highly unlikely. The occassional dewatering of the diked area would have removed any hydraulic gradient as well as decreased the concentration of lead on the surface.
- Subsurface Soils A total of 8 subsurface soil samples should be collected at 2 foot intervals at four locations and analyzed for hazard substance list (HSL) metals. Likewise, background subsurface soil samples consisting of 2 samples will be collected at 2 foot intervals at one location. The background location should be away from suspected disposal site. In addition, sieve and hydrometer analyses will be performed on representative samples.
- Air An air monitoring survey with an HNu meter is recommended to test the air quality during the on-site work.

TASK DESCRIPTION

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

COST ESTIMATE

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

HEALTH AND SAFETY PLAN

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

QUALITY ASSURANCE PLAN

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

VI-4

TABLE VI-2

PHASE II WORK PLAN - TASK DESCRIPTION

····		
	Task	Description of Task
II-A	Update Work Plan	Review the information in the Phase I report, conduct a site visit, and revise the Phase II work plan.
II-B	Conduct Geophysical Studies	No further studies required.
II-C	Conduct Boring/Install Monitoring Wells	No further studies required.
II-D	Construct Test Pits/Auger Holes	Four (4) auger holes recommended for soil sampling within the diked area of Tank 24. One (1) auger hole for soil sampling of background soils.
II-E	Perform Sampling & Analysis	
	Soil samples from auger	Eight (8) soil samples collected at 2 foot intervals at four locations within the diked area. Perform one grain size analysis and permeability test per subsurface lithology change. Two (2) soil samples collected at 2 foot intervals at one location. This location should be away from suspected disposal site and should be used as a background.
	Soil samples from surface soils	No further studies necessary.
	Soil samples from auger holes/test pits	Analyze each sample for HSL metals.
	Sediment samples from surface water	No further studies necessary.
	Groundwater samples	No further studies necessary.
	Surface water samples	No further studies necessary.
		· ·

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VI-5

TABLE VI-2, Continued

PHASE II WORK PLAN - TASK DESCRIPTION

Task

Air samples

Waste samples

II-F Calculate Final HRS

II-G Conduct Site Assessment

Description of Task

Using the HNu, determine the presence of organics.

No further sampling necessary.

Based on the field data collected in Tasks II-B - II-E, complete the HRS form.

Prepare final report containing Phase I report, additional field data, final HRS and HRS documentation records, and site assessments. The site assessment will consist of a conceptual evaluation of alternatives and a preliminary cost estimate of the most probable alternative.

II-H Project Management

Project coordination, administration and reporting.

VI-6

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVALION Phase II investigation Cost estimate

SITE ID #: 915008H			•	Ţ	ABLE VI-:	3	•				•	
SITE NAME: ASHLAND PETROLEUM Consultant: Engineering Scien	ICE	`, .	ESTIMATEI) HOURS (DF DIRECT	TTECHNIC	AL LABOR	(DTL)			TOTAL	
INSK DESCRIPTION	LI,	L2	L3	L4	L5	L6	Lī	Lð	LŸ	LIÚ	HOURS	
II-H UPDATE NORKPLAN	4	8	. 4	8	4	4ú	24	24	. 16	36	168	2323.20
II-B CONDUCT GEOPHYSICAL STUDIES		•						,			Û	0.00
II-C CONDUCT BORING/INSTALL MONITORING WELLS		•				•		e •	, 1		0	. V. VÚ
11-D CONSTRUCT TEST PITS/ AUGER HOLES	2	4	-		•	18		. 19			42	6 55.4 0
II-E SHMFLING AND ANALYSIS											0	Ú.ÚÚ
Soil samples from borings		:							••		Ú	0 .0 0
Soil samples from surtace soils						•		•	,		0.	0.00
Soli samples trom auger holes/test pits		. 2				9	۰ .	9			20	294.30
Sediment samples trom surtace water							•				0	0.00
Groundwater samples	•							÷			0	0.00
Surtace water samples											í. ()	0.00
Air samples		•					•				0.	0.00
Waste samples			2				•			•	• •	0.00
11-+ CHLCULATE FINAL HRS SCORE	8	10	· 4	2	Ŭ	54	40	18	8	8	166	2642.80
11-6 CONDUCT SITE ASSESSMENT	2	24	2		6	ľ2	24	6	24	6 Ú	160	2136.40
11-H PROJECT MANAGEMENT	2	12	2	10	12						38	814.20
TOTAL HOURS	18	65	12	2ù	3ú	133	88	75	48	104		
HOURLY RATE \$	33.40	25.20	22.00	19.70	17.00	15.10	13.30	12,00	9.60	8.60		
DIRECT LABOR COSTS \$	601.20	1663.20	264.00	394.00	510.00	2008.30	1170.40	900.00	460.B0	894.40		
4/7/86									101A) 61	27203 1		8866.30

TOTAL DTL COSTS	8866.30	
INDIRECT LABOR COSTS	10462.23	
TOTAL LABOR COSTS	19328.53	
PROFIT (152)	2899.28	
TOTAL PRICE	22227.81	

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

SITE ID 8: 915000A SITE NAME: ASHLAND PETROLEUM CONSULTANT: ENGINEERING SCIENCE

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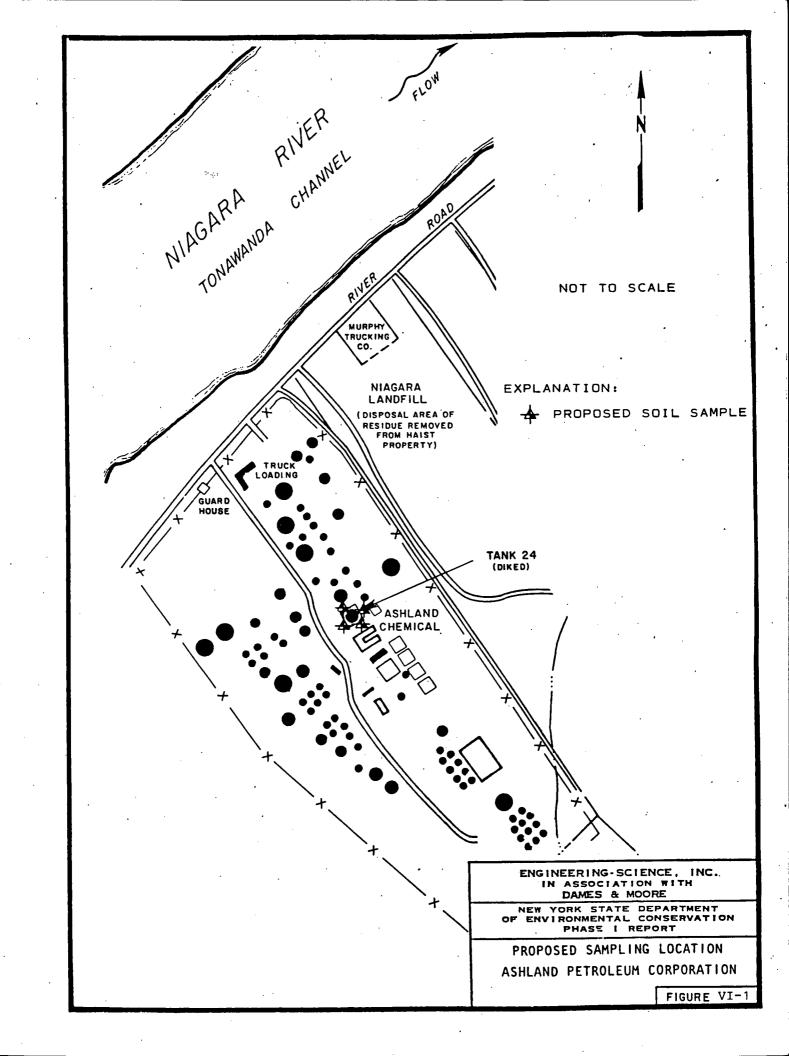
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TABLE VI-4

TASK DESCRIPTION	DIRECT HOURS	LABOR COST (\$)	SUBCONTR. COSTS \$	SUPP.& EQUIP. \$	NISC. S	IRAVEL & PER: DIEN \$	TOTALS S
II-H UPDHTE WORKPLAN	168	2323.20		237	210	260	3030.20
II-B CONDUCT GEOPHYSICAL STUDIES	Ú	Ú.ÚÚ			•		0.0ú
11-C CONDUCT BORING/INSTALL MONITORING WELLS	0	0.00	· ·				ù.00
11-D CONSTRUCT TEST PITS/ AUGER HOLES	42	659.50		420	80	300	1459.50
II-E SAMPLING AND ANALYSIS	Û	Ú.00	2400	60	30	137	2627.00
Soil samples from borings	Û	0.00				<u>\</u> •	0.00
Soil samples from surface soils	0	Ú.ÚÚ					0.00
Soll samples from test pits/ auger holes	20	290.00					29ú.úú
Sediment samples from surface water	0	0.00		,			0. ÚÚ
broundwater samples	0	v. vv					0.ŪŬ
Surface water samples	0	Ú.ÚV					0.00
HIT Samples	0	0.00					0.00
Waste samples	0	0.00					0.00
II-F CALCULATE FINAL HRS SCORE	166	2643.00		5ů	80		277 3. 00
11-6 CONDUCT SITE ASSESSMENT	160	21 36.4 0		750	1000	165	4051.40
II-H PROJECT MANAGEMENT	38	814.20		400	40		1254.20
SUBTOTAL Indirect Labor (118% DTL)	594	8866.30 10462.23		1917.00	1440.00	862.00	
PROFIT (1) PROFIT (1)		15 2899.28	5 120.00	. 5 95 . 85	5 72.00	Ú .	
IOTAL COSTS (\$)		22227.81	2520.00	2012.85	1512.00	862.00	29134.66

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APPENDIX A

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REFERENCES

SOURCES CONTACTED DOCUMENTATION

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SOURCES CONTACTED SUMMARY SHEET ASHLAND PETROLEUM

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Person Contacted/ Location	Telephone	Date	Information Collected
Glenn Hardcastle USEPA Headquarters, Superfund Office 401 M Street, SW Washington, DC 20469	202–382–5617	12/19/85	Reviewed list of sites to determine if additional information was available.
John Anderson USEPA-Region II EPA Information Office 345 3rd St. Suite 530 Niagara Falls, NY 1439		01-06-86	General information from site files.
Charley Hudson NYSDEC - Div. of Envir. Enforcement Empire State Plaza Corning Tower Albany, NY 12237	518-474-2121	12-30-85	Draft Reports
Kevin Walters NYSDEC-Div. of Envir. Enforcement 50 Wolf Road Albany, NY 12233	518-457-4346	12-30-85	Reviewed list of sites to determine legal actions taken.
Walt Demick NYSDEC-Div. of Solid & Haz. Waste 50 Wolf Road Albany, NY 12233	518-457-0639		General information from site files.
Bob Hannaford NYSDEC-Div. of Water SPDES Files 50 Wolf Road Albany, NY 12233	518-457-6716		Reviewed SPDES files for permit numbers and conditions.
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SOURCES CONTACTED SUMMARY SHEET (Continued) ASHLAND PETROLEUM

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

SOURCES CONTACTED SUMMARY SHEET (Continued) ASHLAND PETROLEUM

Person Contacted/ Location	Telephone	Date	Information Collected
Mike Wilkenson Jim Sneider NYSDEC-Region 9 Div. of Fisheries and Wildlife 600 Delaware Ave. Buffalo, NY 14202	716-847-4600	11-14-85	Endangered species information.
Marion Pfohl Spencer Schofield Erie and Niagara County Regional Planning Board 3103 Sheraton Dr. Amherst, NY 14226	716-837-2035	12–20–85	Census data, general site information.
Tony Voell Don Campbell Erie County - Div. of Environmental Control 95 Franklin Street Buffalo, NY	716-846-6271 716-846-6271	11-14-85 11-21-85	Collected information from Erie Co. site files.
Ron Koczaja Erie County - Health Department 95 Franklin Street Buffalo, NY	716-846-7677	11-25-85	General information.
J. Donald Scalise J. J. Hill Jack Patton Ashland Petroleum 4545 River Road Tonawanda, NY	716-632-7646 606-329-4389 716-632-7646	12–10–85	Site visit: ownership history and disposal methods.

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GENERAL REFERENCES*

- 18. Ashland Petroleum SPDES Permit, 1/18/85
- 19. Buechi, Peter J., NYSDEC-Region 9, letter (Dec. 1985) and Erie County Memorandum (June 1981).
- 20. DuPont, Disposal of Sludge from leaded gasoline storage tanks.
- 21. Geologic Map of New York, 1970.
- 22. LaSala, Groundwater Resources of the Erie-Niagara Basin, New York, 1968.
- 23. NYS Department of Environmental Conservation, Ambient Water Quality Standards and Guidance Values, July 24, 1985.

*Does not include "HRS References" which are provided directly after the HRS Documentation Records in Section V.

New York State Department of Environmental Conservation Division of Ecgulatory Affairs - Region 9 600 Delaware Avenue Buffalo, NY 14202-1073 (716)847-4551

REF. 18

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Henry G. Williams Commissioner

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ELLE BUREAU OF Y

January 18, 1985

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. James H. Davis, Vice President A<u>shland Petroleum Company</u> P.O. Box 391 Ashland, Kentucky 41101

Dear Mr. Davis:

Modification to Permit SPDES Permit No. NY0001678 Buffalo Refinery Town of Tonawanda, Erie County File No. 90-84-1238

As part of this Department's review of dischargers to the Niagara River and after consideration of Mr. Gerald O. Henderson's January 18, 1984 and August 10, 1982 letters, the above State Pollutant Discharge Elimination System (SPDES) Permit is modified in accordance with 6NYCRR621.12 and 621.13. The enclosed revised permit includes the following principal changes.

1) Per your firm's request and with the confirmation by the Regional Water Unit of the discontinuation of discharges, outfalls 001, 002, and 003 are deleted.

2) Consistent with Department requirements for major second round SPDES Permits your permit incorporates the provision for a Best Management Practices (BMP) Plan. The extent that your SPCC plan can be used to meet BMP plan requirements can be discussed with Mr. Angelo Sarkees of the Regional Water Unit (716/847-4590).

3) Since benzene and xylene were stored/sold and toluene continues to be handled at the facility, an Action Level monitoring/reporting requirement for BTX is added. We concur with Mr. Henderson that based on the results of one year of monitoring your firm may wish to seek deletion of this requirement.

4) Daily limit of lead is added at a level agreeable to your firm.

Also note that the application requirement associated with the use of corrosion/ scale inhibitors or biocidal type compounds is applicable whether referenced in the permit or not. It is routinely included in the permit as a reminder to permittees of their responsibility. Mr. James H. Davis, Vice Frestourt January 18, 1985 Page - 2 -

If you have any questions concerning this mudification, please do not hesitate to contact me. Although I understand that these changes were acceptable to your firm, please be advised that you do have the right to submit written objections and to request a hearing within 10 calendar days. Thank you.

Respectfully Lomai Paul D. Eismann

Alternate Regional Permit Administrator

PDE/ds Enc.

cc: Mr. R. Hannaford Mr. R. Speed/Mr. J. Snider/Mr. A. Sarkees Mr. R. Baker Erie Co. Department of Environment & Planning

Erie & Niagara County Regional Planning Board Mr. G. Henderson (Director-Ashland Technical Dept.)

91-20-23 (7/84)			Facility ID # <u>NYOOT</u> Part 1. Page <u>2</u> Mcdified 1984-	of7
Final EFFLUENT LIMIT.	ATIONS AND MONITORING REQUIR	EMENTS	(13)	
During the Period BeginningE	DM		- · · · · · · · · · · · · · · · · · · ·	
and lasting untilE	DP + 5 years (July 1, 1986)		-	
the discharges from the permitted f permittee as specified below:	facility shall be limited and monitored	by the		·
•			Minim Monitoring Re	
Outfall Number & Effluent Parameter	Discharge Limitations Daily Avg. Daily Max.	Units	Measurement Frequency	Samp Type
004 Storm water runoff / along North property]	line			
Flow	Monitoring Only	GPD	Monthly	Estimat
pil & Grease	15	mg/1	Monthly	Grab*
pH (range)	6.0-9.0	SU	Monthly	Grab
Lead	0.4	mg/l	Quarterly	Grab
collected and separately minute intervals with the of discharge. If more	currence shall consist of one y analyzed per event. The sa he primary sample collected of than one grab sample is colle hmetic average of the separat	mples wil luring the ected and ce analysi	1 be obtained a first 15 minut analyzed, the r s.	t 15 es eported
		1 unctount	ers is not allo	
Note: Direct discharge of this permit.	of either process or sanitary	y wastewat		wed by
this permit. The permit application a compounds used by the p	of either process or sanitary must list all corrosion/scale ermittee. If use of new boil on must be made prior to use.	e inhibito	ors or biocidal	tjpe
this permit. The permit application a compounds used by the p	must list all corrosion/scale ermittee. If use of new boi	e inhibito	ors or biocidal	tjpe
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REF 19

New York State Department of Environmental Conservation 600 Delaware Avenue, Buffalo, N.Y. 14202-1073



Henry G. Williams Commissioner



December 11, 1935

Ms. Cathy J. Fosma Engineering Science Two Flint Hill 10521 Rosehaven Street Fairfax, Virginia 22030-2899

Dear Ms. Bosma:

Ashland Petroleum Site #915008a

Enclosed find the inspection memo from the Erie County Department of Environment and Planning we spoke about during our conversation on December 10, 1985.

Yours truly,

1/7

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

PJB:jps

Enc.

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	COUNTY O	FERIE	
	DEPARTMENT OF ENVIRO	ONMENT & PLANNING	
15)	DIVISION OF ENVIRON	MENIAL CONTROL	
	(MEMORA	NIDIIM	
ROM	Don Campbell, P.E.	DATE June 1, 1981	
COFA		DATE UNIT	
то	Lawrence G. Clare, P.F.		
	Ň.		
JBJEC	[Ashland Oil Corn - Inspection of S	ites	
· · · · · · · · · · · · · · · · · · ·			

Inspection Date: May 29, 1981

Site Code 915001- Disposal of spent lime, clay, wood, concrete, metal, phosphoric acid catalyst and equilibrium catalyst. Has 360 permit. Expires 7-8-82.

Site investigation conclusions: The deposition of the above materials in proximity to the wetland and tributary of 2-mile creek has been reviewed by D.E.C. and a permit was issued. The tributary exhibited a whitish color and appears to be contaminated. The origin of this stream is run-off from the Ashland property refinery and did not appear to be contaminated. The pipe continues under Niagara Landfill property and terminated at Lefler Road. The water at this point was noted to exhibit the milky white color.

The active area was muddy and wet spots were evident, but no leachate was observed. Erosion and run-off was evident in the southerly portion near the tributary. The equilibrium catalyst deposition area was only partially covered (Area D2).

A suggested sampling point (marked \mathbf{m}) on the field sketch should be considered. Upstream sampling at the point of origin on the Ashland (Refinery) property might prove helpful in correlating the data. The water did smell of sulfur, but beyond that no specific sampling prrameters could be suggested since the pipe passes under the Landfill.

Site 915008-a- Former weathering area for tetraethyl lead sludge (last used in 1953) and marked in field sketch as "c".

This small area 30×10 ft. inside of the diked FCC charge tank. No signs of leachate or any need to sample appears warranted.

Site 915008 b- Concrete storage pit for Heavy Oil. No 360 permit required per D.E.C. (R. Mitrey) May 17, 1981.

This pit 280 x 220 ft is concrete lined sides and bottom. No leachate was observed. No plans for sampling appear warranted. This material is reclaimed after periodic skimming and water removal. 1.2.2 Weathering - This method is safe, effective and economical. Laboratory tests show that organic lead compounds in sludge, when exposed to the elements, will decompose to inorganic lead comf pounds. Laboratory and field tests indicate that when the procedures as outlined in the prescribed when the procedures as outlined in the prescribed or water contamination problem. The reason for this is indicated to be:

(1) The total quantity of organic lead in a sludge weathering bed is small. Concentration: rarely exceed the normal range of 0.1 to 0.4 pounds of organic lead per ton of sludge.

Page 2

- (2) The amount of organic lead exposed to the atmosphere at the surface of the weathering bed is very small. Lead-in-air tests taken directly above or immediately downwind of the weathering bed indicate that lead-in-air concentrations are low. This indicates the atmosphere in the area is safe from an occupational health hazard as soon as the sludge is spread.
 - (3) Organic lead compounds are dissolved and held in the gasoline hydrocarbon fraction of the sludge and therefore do not migrate into the soil or ground water.

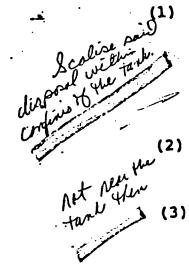
3 WEATHERING PROCEDURE

1.3.1 Location of disposal area:

The site selected for sludge disposal should be in an area where it can be fenced off from the public. It should be located away from buildings and be far enough from the tank being cleaned so that the possibility of gasoline vapors affecting the tank cleaning operations is eliminated.

The disposal area should be located so that personnel working in, on, or around the tank will not get into the spread out sludge.

It can be a bare ground, grass or concrete surface.



ALLEPANE PRODUCE FOR DISCORD OF CHES FROM LEADED GASOLINE STORAGE TANKS

مينية ويتعتر وريا مرينية المرينية Sludge from tanks which have contained leaded gasoline is dangerous to handle even after it has been removed from the tank. The sludge hould be disposed of by burial at a location where it will not be incovered later. If disposal cannot be accomplished in this manner due to space limitations or other factors, alternate methods may be ···· employed.

One such method is to expose the sludge to atmospheric conditions, In a safe manner, so as to reduce the organic lead content in the sludge o a safe level. The following procedure represents one which has been followed successfully at a number of locations.

PROCEDURE FOR "WEATHERING" SLUDGE

Location of disposal area:

a. The site selected for sludge disposal should be in a remote part of the property and within property limits where it can be fenced off from the public. It should be located away from buildings. If the sludge is spread near the tank being cleaned, it should be outside the surrounding firewall, so that the possibility of gasoline vapors affecting the tank Cleaning operations will be eliminated.

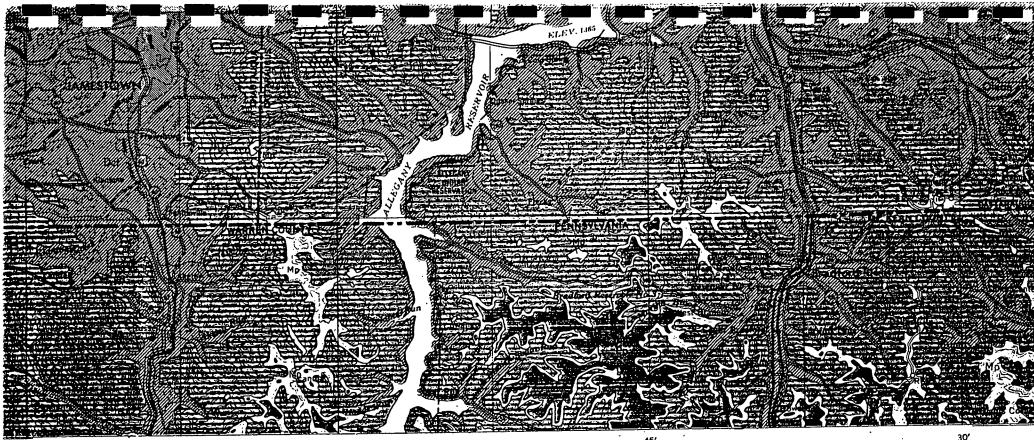
The disposal area should be located so that personnel working in, on, or around the tank will not get into the spread-out sludge.

c. It can be a bare ground, grass or concrete surface.

- d. It must be fairly smooth and well drained so that water will the impound not stand on it. not stand on it.
- The total area, whether in one or several patches, must be sufficiently large to permit spreading the sludge in a layer not over 3" thick. The total area required will, of course, be determined by the amount of sludge in the tank.
- walls It should be so located that air can circulate freely over the surface of the sludge. Exposure to the sun is desirable but not. mandatory_____
- Remove sludge from the tank in the usual manner following the safety recommendations approved by API.
- The sludge can be moved from the tank to the spreading area in available plant equipment. Wheelbarrows, buckets or other small containers may be used for moving it a short distance. Dump trucks, lugger buckets, etc., may be used for longer distances. The containers used should be metal. After use, they should be vashed thoroughly with water.

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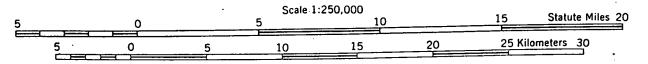
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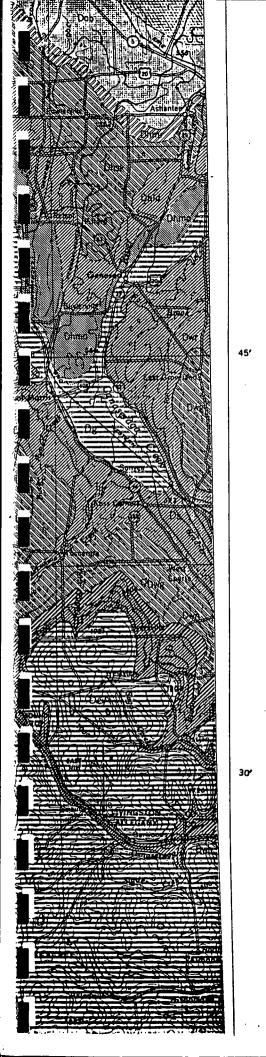
GEOLOGIC MAP OF NEW YORK

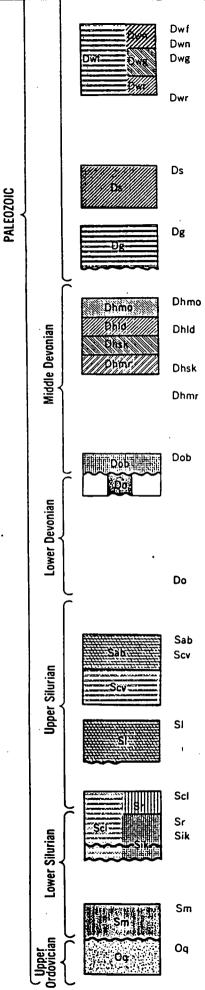
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Niagara Sheet



CONTOUR INTERVAL 100 FEET





400-950 ft. (120-290 m.) Angola and Rhinestreet Shales.

- Nunda Formation—sandstone, shale.
- West Hill and Gardeau Formations—shale, siltstone; Roricks Glen Shale; upper Beers Hill Shale; Grimes Siltstone.
- lower Beers Hill Shale; Dunn Hill, Millport, and Moreland Shales.

SONYEA GROUP 50-200 ft. (15-60 m.)

Cashaqua and Middlesex Shales.

GENESEE GROUP 10-150 ft. (3-45 m.)

West River Shale; Genundewa Limestone; Penn Yan and Geneseo Shales; North Evans Limestone.

HAMILTON GROUP 200-500 ft. (60-150 m.)

- Moscow Formation—Windom and Kashong Shales, Menteth Limestone Members.
- Ludlowville Formation—Deep Run Shale, Tichenor Limestone, Wanakah and Ledyard Shales, Centerfield Limestone Members.

Skaneateles Formation—Levanna Shale, Stafford Limestone Members.

Marcellus Formation—Oatka Creek Shale Member.

ONONDAGA AND BOIS BLANC LIMESTONES 150 ft. (45 m.)

In New York: Onondaga Limestone—Seneca, Morehouse (cherty), and Clarence Limestone Members, Edgecliff cherty Limestone Member, local coral bioherms; Bois Blanc Limestone—sandy, thin, discontinuous.

In Ontario: Dundee Limestone; Lucas Formationdolostone, limestone (Anderdon); Amherstburg Formation-limestone, dolostone, sandstone (Sylvania); Bois Blanc Formation-dolostone, limestone, sandstone (Springvale).

Oriskany Sandstone.

AKRON DOLOSTONE AND SALINA GROUP 400-700 ft. (120-210 m.)

Akron Dolostone; Bertie Formation—dolostone, shale. Camillus, Syracuse, and Vernon Formations—shale, dolostone, salt, and gypsum.

LOCKPORT GROUP

150-200 ft. (45-60 m.)

Guelph, Oak Orchard, Eramosa, and Goat Island Dolostones; Gasport Limestone—local bioherms.

CLINTON GROUP

100-150 ft. (30-45 m.)

Decew Dolostone; Rochester Shale; Irondequoit and Merriton Limestones.

Decew Dolostone; Rochester Shale.

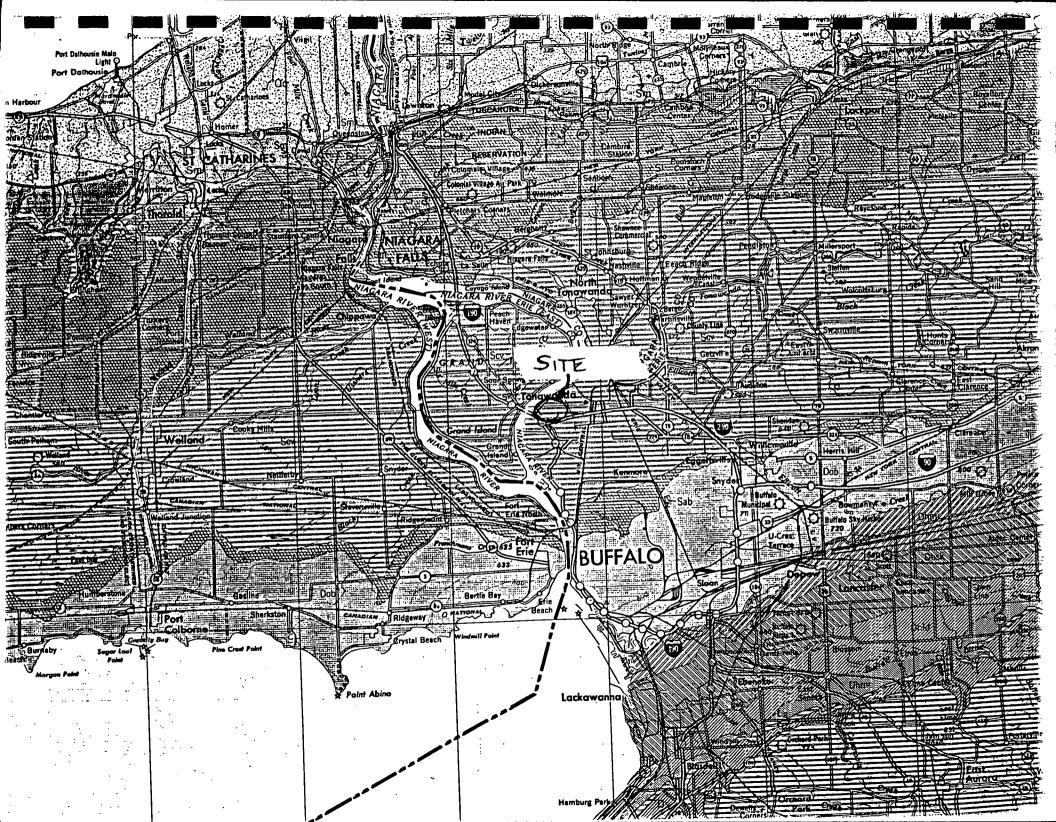
Irondequoit Limestone; Rockway Dolostone; Hickory Corners Limestone; Neahga Shale; Kodak Sandstone.

MEDINA GROUP AND QUEENSTON FORMATION 800 ft. (250 m.)

Thorold Sandstone; Grimsby Formation—sandstone, shale; Power Glen and Cabot Head Shales; Whirlpool Sandstone.

Queenston Shale.

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REF. 22

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



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

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

in cooperation with

THE NEW YORK STATE CONSERVATION DEPARTMENT DIVISION OF WATER RESOURCES

STATE OF NEW YORK CONSERVATION DEPARTMENT WATER RESOURCES COMMISSION

Basin Planning Report ENB-3 1968

GEOLOGY AND TOPOGRAPHY

22

The Erie-Niagara basin is underlain by layers of sedimentary bedrock which are largely covered with unconsolidated deposits. Descriptions of the various bedrock units are given in figure 2. The bedrock consists mainly of shale, limestone, and dolomite; the Camillus Shale contains a large amount of interbedded gypsum. All the bedrock units were built up by fine-grained sediments deposited in ancient seas during the Silurian and Devonian Periods and, therefore, are bedded or layered. The dip of the rocks (inclination of the bedding planes) is gently southward at from 20 to 60 feet per mile, but the average dip is between 30 and 40 feet per mile. The dip is so gentle that it is hardly perceptible in outcrops.

The unconsolidated deposits are mostly glacial deposits formed during Pleistocene time about 10,000-15,000 years ago when an ice sheet covered the area. The glacial deposits consist of: (1) till, which is a nonsorted mixture of clay, silt, sand, and stones deposited directly from the ice sheet; (2) lake deposits, which are bedded clay, silt, and sand that settled out in lakes fed by the melting ice; and (3) sand and gravel deposits, which were laid down in glacial streams. The glacial sand and gravel deposits are of both the ice-contact and outwash types, as will be explained later in the report. The glacial deposits generally are less than 50 feet thick in the northern part of the basin. They are considerably thicker in some valleys in the southern part and reach a maximum known thickness of 600 feet near Chaffee. Other unconsolidated deposits are alluvium formed by streams in Recent times and swamp deposits formed by accumulation of decayed plant matter in poorly drained areas.

Relief of the present land surface is due to preglacial erosion of the bedrock and subsequent topographic modification by glaciation. In contrast to the southward dip of the rocks, the land surface rises to the south largely because preglacial erosion was more vigorous in the northern part of the basin. The shale in the southern part of the basin is somewhat more resistant to erosion than the rocks in the northern part of the basin but not significantly so. Figure 3 shows the relationship of the topography and rock structure and delineates the two topographic provinces of the basin: the Erie-Ontario Lowlands and the Appalachian Uplands. The rocks crop out in belts which trend generally east-west. The bedrock geologic map, plate 2, shows that the outcrop belts bend around to the southwest near Lake Erie. They assume this direction mainly because relatively intense erosion in the Erie-Ontario Lowland near Lake Erie has exposed the rock at lower elevations than farther east. The Lockport Dolomite and the Onondaga Limestone, because they are relatively resistant Tonawanda, to erosion, form low ridges in the northern part of the basin. Murder, and Ellicott Creeks descend the escarpment of the Onondaga at falls and cataracts.

In the hilly southern half of the basin (the Appalachian Uplands), preglacial valleys, deepened by glacial erosion, are cut into the shale. The valleys are partly filled with glacial deposits so that some of the present streams flow 200 to 600 feet above the bedrock floors of the valleys as shown in figure 3. Table 6.--Records of selected wells in the Erie-Niegare basin (Continued)

		······································	Year						Altitude				Estimoted		
Well number	County	Owne r	com- ple- ted	Type of well	Depth of woll (feet)	Diameter (Inches)	Depth to bedrock (feet)	Water-bearing material	above sea level (feet)	Below Jand surface (feet)	Date	Hethod of lift	pumpaga or flow (gallons per day)	Use	Rome rits
58-815-1	Genesee	F. Peck		Ort	31	6	••	Shale	920	8,1	6-26-63	Sw	50	D	Anal; Iron; temp 49.0; yield 12 gpm (r).
58-822-1	do.	E. Lewis	1964	Drl	41.6	6	41.6	Sand	870	9.1	8-19-64	Sw	400	Ag	Anal; H ₂ S; yield 11 gpm (r).
:58-827-t	do.	E, Powenski	1952	Drl	36.5	6	a 34	Limestone	835	31.3	8-19-64	Jet	250	Ð	H ₂ S; yield 7 gpm (r).
58-833-1	Erle	B. Fleids	1960	Drl	62.6	6	a13	do.	775	p22.7	8-18-64	Sub	300	D	Anal.
58-837-1	do. .	R, Bowman	1956	Drl	76.2	6	●22	do.	740	19.4	8-18-64	Jet	300	D	Do.
58-843-1	do.	V. Voss		Orl	62	8		Camillus Shale	615	Flow	**		5,000		Anal; H2S; temp 50.8, 8-14-64; flows about 5 gpm ⁻ at L5.
58-853-1	do.	Linde Div., Union Carbide Corp.	1944	Orl	r375	8	87	Camility '' '* and Los: W.J. to	600 - (.p115	44وا	Tur	-	U	H ₂ S; drilled to 130-ft depth in 1943 and deepened 1944; "black" water entering from Lockport Dolom after deepening made well unusable; yield 3,000 gpm (r); pumping test, 1,090 gpm, dd 53 ft.
-2	do.	do.	<u>ليو</u> ا	Drł	r375	8	86	do.	600	r,p82	1944	Tur		U	H ₂ S; drilled to 157-ft depth in 1943 and deepened 1944; water obtained at 90 ft from a gypsiferous zone in Cemillus Shale and "black" water at 312 from the Lockport Dolomite which was first penetrated at 288 ft; yield from upper water- beering zone 90 gpm, dd 22 ft; lower zone was no tested.
	do.	Duniop Tire & Rubber Co.	1943	Drl	r137	12	69	Comillus Shale	590	۶ 36,	10-27-52	Tur		1	H ₂ S; pumping rate 1,000 gpm (r); pumping test 500 swi 36 ft, dd i7 ft; this well and well 258-855- yield a combined total of 600,000 gpd,
-2	do.	do.	1943	Orl	r139.7		71	do.	590	ø54 . 3	7-16-64	Tur		1	H2S; pumping rate about 1,000 gpm (r); pumping tas 1,000 gpm, swi 36 ft, dd 26 ft; this wall and we 258-855-1 yiaid a combined total of 600,000 gpd.
-3	do.	do.	1952	Orl	r120			do.	592	p39	10-27-52	Tur		Т	H2S; pumping test 1,500 gpm, swl 39 ft, dd 38 ft.
59-809-1	Genesee	0-AT-KA Milk Products Cooperative, Inc.	1963	Or1	r60	20, 16		Sand and gravel	890	r15	4-27-62	Tur '	1,000,000	I	Anal; screen, 13 1/8-inch diamater, 10 ft of 60-si 10 ft of 125-siot, from 40-60 ft; pumping rate about 1,200 gpm (r); pumping test 600 gpm, swi i dd 1.5 ft (r).
-2	do.	City of Betevia	1963	Drl	r69	16		do.	890	14.0	5- 8-63	Tur		PS	Anal; H2S; screen, 16-inch telescope, 125-slot, 52.9-69 ft; pumping rate 1,000 gpm.
-3	do.	do.	1962	Drl	54.1	8		do.	890	11.7	5- 6-63			T	Depth 61 ft (r); screan, 6-inch diameter, 100-slot from Si-6i ft; pumping test 235 gpm, swi 18.3 ft dd 0.5 ft (r); OW.
-4	do.	O-AT-KA Milk Products Cooperative, Inc.	1963	Drl	52.2	8		do.	890	p13.0	5- 7-63			T	
-5	do.	City of Betavia	1962	Drl	60.2	8		do,	890	13.7	5- 8-63		400,000	T	Depth 70 ft (r); screen, 6-inch diemeter, 100-sloi from 60-70 ft; pumping test (r), 235-259 gpm, swi 18.5 ft, dd 0.5 ft efter 24 hours discherge.
-6	do.	do.	1963	Drl	r75	16		do.	895	r14.2	5-27-63	Tur		PS	Screen, 16-inch diameter; test pumped at 1,000 gpm
-7	do.	do.	1963	Orl	r60	. 8		do.	890	r13.7	2-15-62		400,000	х, т	H ₂ S (r); pumping test 200 gpm, swi 13.7 ft, dd 4.4 after 24 hours discharge.
159-817-1	do.	D. Beels	1960	Drl	r33			do.	865	r3	1960	Sw	100	D	Anal; H2S; yield 4 gpm (r).
59-818-1	do.	Bittermen Bros., Inc.		Drl	18.3	12, 6		do.	•••	6.6	9-17-63	Ser		C, D	
59-820-1	do.	A. Winters	1960	Drl	22.6	6		Limestone	880	7.4	9-17-63	Sw	500	C, D	
													200		

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New York State Dapartment of Environmental Conservation 2 ED Wolf Bord, Albany, New York 12233-0001

REF. 23

Henry G. Williams Commissioner

July 24, 1985

ILEF DRANDUM

TO: Bureau Directors, Regional Water Engineers, Section Chiefs

SUBJECT: Division of Nater Technical and Operational Guidance Series (85-W-38)

Ambient Water Quality Standards and Guidance Values (Originator: John Zambrano)

Purpose

The purpose of this document is to provide a compilation of water quality standards and guidance values for toxic and non-conventional pollutants to be used in the Department's regulatory programs, including the SPDES permit program.

II. Discussion

This substantial revision of TOGS 85-W-38 is the result of the promulgation of amendments to 6 NYCRR Part 701-702, effective on August 2, 1985, governing the development and use of surface water quality standards and guidance values. This revision uses a new format in the tabulation and does not include the methodologies for the development of standards and guidance values. The user is referred to the regulations for a description of the methodologies.

III. Guidance

The Quality Evaluation Section will use the attached list in developing SPDES permit water quality-based effluent limits. The Criteria and Standards Section will maintain and revise the list on a regular basis. Λ

Barolo. n Daniel H.

Director Division of Water

Attachments cc: Dr. Banks Mr. Pagano Hr. Mt. Pleasant Regional Engineers for Environmental Quality Hs. Chrimes

APPENDIX B

PROPOSED UPDATED NYS REGISTRY SHEET

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

CLASSIFICATION CODE: 2a	REGION: 9	SITE	CODE: 915008a
NAME OF SITE : Ashland Petroleu STREET ADDRESS: 4545 River Road			· ·
TOWN/CITY: Tonawanda	COUNTY: Erie	، غد د	ZIP: 14217
SITE TYPE: Open Dump-X Structu ESTIMATED SIZE: 1 < Acres	re- Lagoon-	Landfill-	Treatment Pond

SITE OWNER/OFERATOR INFORMATION: CURRENT OWNER NAME....: Ashland Fetroleum Corp. CURRENT OWNER ADDRESS.: 2630 Elmwood Ave., Kenmore, NY 14217 OWNER(S) DURING USE....: Ashland Petroleum Corp. OPERATOR DURING USE: Same OFERATOR ADDRESS..... Same as above FERIOD ASSOCIATED WITH HAZARDOUS WASTE: From To 1953

SITE DESCRIPTION:

This site was used as a weathering area for tetraethyl lead sludge that resulted from the cleaning of FCC Tank 24. The site was reportedly used only once in 1953. After the lead sludge had weathered, it was reportedly excavated from the site and disposed off site.

HAZARDOUS WASTE DISPOSED:		Suspected -	
	`	QUANIIIY_(upits)_	
Tetraethyl lead sludge	· ·	420-630 gallons	·—

ANALYTICAL DATA AVAILABLE:

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

CONTRAVENTION OF STANDARDS:

Groundwater- Drinking Water- Surface Water- Air-

LEGAL ACTION:

TYPE...: None State- Federal-STATUS: In Progress- Completed-

REMEDIAL ACTION:

Froposed- Under Design- In Frogress- Completed-X NATURE OF ACTION: Lead sludge was reportedly excavated.

GEOTECHNICAL INFORMATION: SOIL TYPE: Clays K=10⁻⁷cm/sec GROUNIWATER HEPTH: >80 ft.

ASSESSMENT OF ENVIRONMENTAL FROBLEMS:

Extent of environmental problems is unknown, although significant problems appear unlikely.

ASSESSMENT OF HEALTH PROBLEMS:

Insufficient information

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEFARTMENT OF ENVIRONMENTAL CONSERVATION

NAME.: Peter Buechi TITLE: Assoc. Sanitary Engr.

NAME.: Roberto A. Olazagasti TITLE: Solid Waste Management Spec.

DATE .: 01/24/85

NEW YORK STATE DEFARTMENT OF HEALTH

NAME.: R. Tramontano TITLE: Bur. Tox. Subst. Assess.

NAME .: TITLE:

DATE .: 01/24/85

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