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FRIENDSHIP SUPPLY COMPANY, INC.

(JONES CHEMICALS, INC.)

NEW YORK STATE SUPERFUND
PHASE I SUMMARY REPORT

902009

September 6, 1983

Prepared by:

Recra Research, Inc. 4248 Ridge Lea Road Amherst, New York 14226

For:

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

# FRIENDSHIP SUPPLY COMPANY, INC. (JONES CHEMICALS, INC.)

# NEW YORK STATE SUPERFUND PHASE I SUMMARY REPORT

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#### 1.0 EXECUTIVE SUMMARY

The Friendship Supply Company is located near a residential area of the Hamlet of Friendship, Allegany County, New York. The firm has been packaging swimming pool chemical since 1963, with processes remaining nearly unchanged over the years. Although no process wastes are generated at the site, improper disposal practices were used for the plant's equipment rinse waters until 1981, when a wastewater neutralization system went on line.

The waste disposal area for the plant was an adjacent driveway, where rinse waters were discharged daily. These wastewaters then flowed overland to a ditch which led to Van Campen Creek on the floor of the valley below. The chemicals rinsed from the packaging equipment were of unknown quantities, and all are highly toxic but not persistent in the environment.

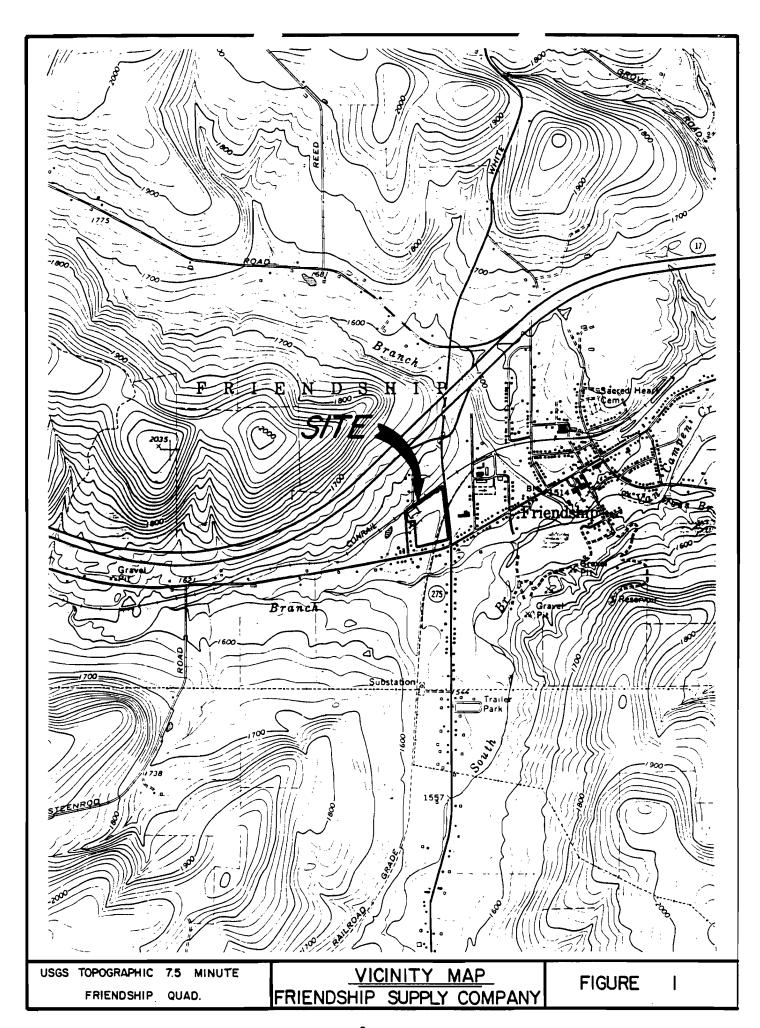
Samples taken from Van Campen Creek following a fishkill indicate that contaminants from the site reach this waterway. Van Campen Creek and the local aquifer system are both used as drinking water sources for Town of Friendship residents. In addition, Van Campen Creek discharges to the Genesee River approximately five miles to the east, which is also used as a drinking water source along its flow path.

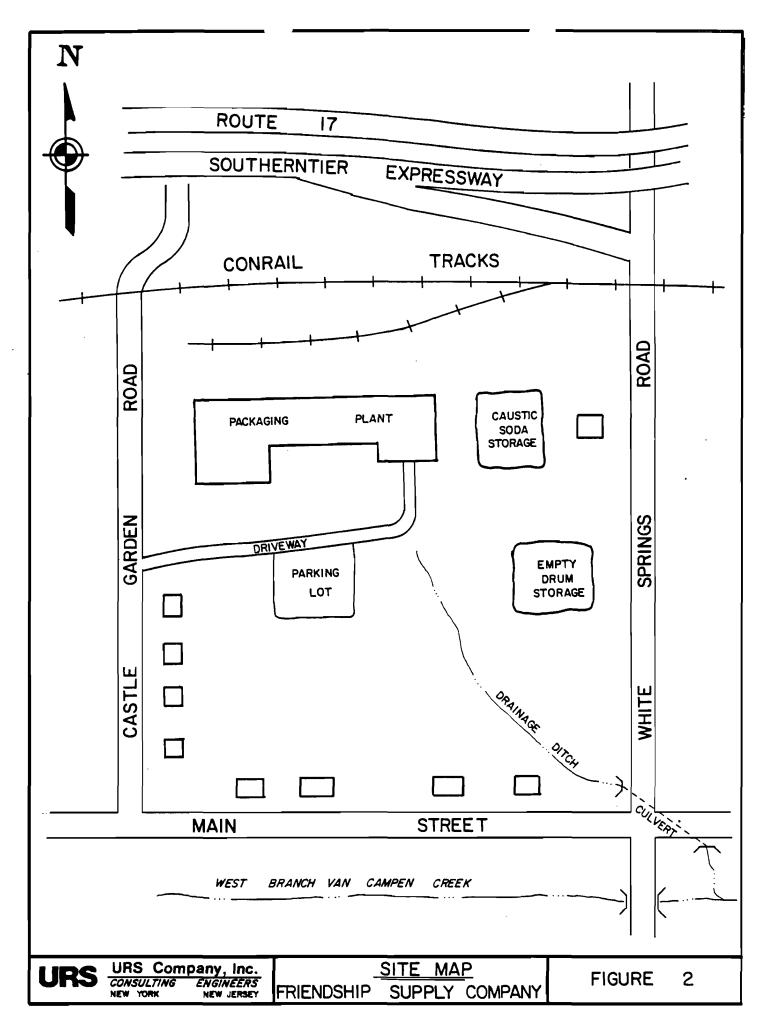
#### 2.0 SITE DESCRIPTION

The Friendship Supply Company, located on Castle Garden Road, Friendship, Allegany County, New York (Figure 1), is a packaging plant for swimming pool chemicals. Although no process wastes are generated at the facility, rinse waters were discharged daily onto the ground around the plant until 1981, when a treatment system for plant discharges was brought on-line.

The site is located on a steep, grassy slope above Van Campen Creek on the valley floor New York's Southern Tier Expressway (Route 17) passes just upslope from the site adjacent to Conrail railroad tracks: The waste disposal area is adjacent to the plant itself, but the wastewaters subsequently flow to a ditch downslope from the facility (Figure 2). This ditch carries both groundwater seepage diverted from above the plant and the plant's surface runoff to Van Campen Creek, and eventually reaches the Genesee River.

Analytical testing of the water resources surrounding the site has been limited to stream samples taken following a fishkill in Van Campen Creek. Groundwater downgradient from the site is used for the Hamlet of Friendship Municipal Water Supply, and Van Campen Creek is also used by Township residents as a drinking water source.





#### 4.0 SITE HISTORY

Friendship Supply Company, Inc. began packaging swimming pool chemicals during 1963, using similar processes to those used at present (Ref. 6). Wastewaters generated during processing at the facility were comprised only of equipment rinse waters, and no other hazardous residuals remain. Past disposal practices included the discharge of all wastewaters by hand to the facility's driveway, and no containment methods were used to control the small volumes handled.

In April of 1981, a fishkill occurred in Van Campen Creek downstream from the site which was related to the wastewater discharges by surface water sampling (Ref. 14). On June 4, 1981, a NYSDEC representative met with Mr. Jerry Sawyer of Friendship Supply to discuss the plant's wastewater disposal practices (Ref. 18). Subsequently, a consent order was issued by the NYSDEC which required that all discharges to New York State waters be eliminated by September 15, 1981, and that connection with the Friendship Town sanitary sewer system had to be made (Ref. 19). An inspection of the facility was made by the USEPA on July 22, 1981 and no violations were recorded (Ref. 20). The wastewater neutralization system finally went on-line in March 1981, and the sewer connection was completed.

#### 3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Facility Name: Friendship Supply Co., Inc. (Jones Chemical) Castle Garden Rd., Friendship, Allegany County, N.Y. Location: 2 EPA Region: Person(s) in Charge of the Facility: Jerry Sawyer, Manager Friendship Supply Co., Inc. Friendship, N.Y. 14739 Name of Reviewer: Recra Research, Inc. Date: 9/6/83 General Description of the Facility: (For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.) An active swimming pool chemical packaging plant. No process wastes generated. Equipment wash waters discharged to plant driveway from 1963 to 1981. Wastes eventually reach VanCampen Creek which is used as drinking water source. Local well field for public water system located approximately 1 mile downgradient. Plant now discharges to sewer system. Scores:  $S_M = 13.0$   $(S_{\sigma W} = 20.2 S_{SW} = 10.0 S_a = 0$  $S_{FE} = 3.6$  $S_{DC} = 37.5$ Range for Sm: 11.9 to 13.0

Γ		GRO	DUND WATE	R ROUTE WOR	K SHEET			
	Rating Factor		Assigned (Circle		Multi- plier	Score	Max. Score	Ref. (Section)
	OBSERVED RELEA	SI_	0	45	1	0	45	3.1
	If observed re If observed re	lease :	ls given ls given	a score of a score of	45, procee 0, procee	ed to 1:	line [2	
2	ROUTE CHARACTE	RISTICS						3.2
	Depth to Aquif	er of	0 1 2	3	2	6	6	
	Net Precipitat	f the	0 1 2 0 1 2	)3 ]3	1	243	3 3	
	Unsaturated Zo Physical State	one	0 1 2	3	_ 1		3	
				racteristic	Score	13	15	
3	CONTAINMENT		0 1 2	3	1	3	3	3.3
4	WASTE CHARACTE	RISTICS	3	<del>.</del>	_			3.4
	Toxicity/Persi Hazardous Wast Quantity		0 3 6 0 1 <u>2</u>	912 15 18 3 4 5 6 7	8 1	92	18 8	
		Total	Waste Ch	aracteristi	.cs Score	11	26	
3	TARGETS							3.5
	Ground Water U. Distance to Ne est Well/Popu. Served	ar-	12 16	3 8 10 1 18 20 32- 35 40	3	9	9 40	·
		Total	Targets	Score		27	49	
6			ultiply [2]	1 × 4 × 3 × 4	x 5		57,330	11,583
7	Divide line 6	by 57,3	330 and m	ultiply by	100	S <sub>2"</sub> =	20.	<del></del>

GROUNDWATER ROUTE WORK SHEET

	SURFACE WATER ROUTE WO	RK SHEET			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section
1 OBSERVED RELEASE	ر <b>(3</b> )	1	45	45	4.1
	e is given a value of 45, is given a value of 0.				
2 ROUTE CHARACTERISTI	.cc			•	4.2
Facility Slope and		1		3	
Intervening Terrai 1-yr. 24-hr. Rainfa	.11 0 1 ( <u>2</u> ) 3	1	÷	3	
Distance to Nearest Surface Water	0 1 2 3	2	4	6	
Physical State	0 1 2(3)	1		3	
Tota	1 Route Characteristics	Score	10	15	
CONTAINMENT	0 1 2 3	1	3	3	4.3
4 WASTE CHARACTERISTI	cs				4.4
Toxicity/Persistenc Hazardous Waste Quantity	e 0369121518 012345678	1 1 1	92	15 8	
Tota	l Waste Characteristics S	Score	11	26	
TARGETS					4.5
Surface Water Use Distance to a Sensi Environment	•	3 2	90:	9	
Population Served/ Distance to Water Intake Downstream	0 4 6 8 10 12 16 18 20 24 30 32 35 40	1	4	40	
Tota	l Targets Score		13	55	
6 If line 1 is 45, m	multiply 1 x 4 x ultiply 2 x 3 x 4	5 x 5	64	4,350	6,435
Divide line 1 by 64	,350 and multiply by 100	Ss	10	.0	

		AIR ROUT	TE WORK S	HEET	_		
	Hating Factor	Assigned (Circle		; Multi-   plier		Max. Score	Ref. (Section
13	OBSERVED RELEASE	©	45	•	0	45	5.1
	Date and Location:	:				_	
	Sampling Protocol:				,		_
	If line 1 is 0. If line 1 is 45	then $S_a = 0$ . then proces	Enter	on line 5	]. 		
	WASTE CHARACTERIST	ICS					5.2
	Reactivity and Incompatibility	0123	3	1		3	
	Toxicity Hazardous Waste	0 1 2 3 0 1 2 3	3 3 4 5 6 7	3 8 1		9 8	
	Quantity						
	Tota	i Waste Chara	cteristi	s Score		20	
13	TARGETS				<u> </u>	_	5.3
	Population Within 4-Mile Radius	0 9 12 21 24 2		1		30	
	Distance to Sensit			2		6	
	Land Use	0 1 2 3		1		3	
ļ							
	Tot	al Targets Sc	ore			39	
<u> </u>	Mulciply 1 x 2	× 3				35,100	
3	Divide line 4 by 3	5,100 and mul	tiply by	100	s <sub>a</sub> - C		

	S	s <sup>2</sup>
Groundwater Route Score (Sgw)	20.2	408.0
Surface Water Route Score (S <sub>SW</sub> )	10.0	100.0
Air Route Score (S <sub>a</sub> )	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		508.0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		22.5
$\sqrt{s_{gw}^2 + s_{sw}^2 + s_a^2} / 1.73 $ (S <sub>M</sub> )		13.0

WORK SHEET FOR COMPUTING  $\mathbf{S}_{\mathbf{M}}$ 

	Assigned Value (Circle One)	Multi- plier		Score	Ref. (Section
Containmen:	<u> </u>	1	1	3	7.1
Waste Characteristics					7.2
Direct Evidence	3	1	0	3	
Ignitability	0 1(2)3	1	20	3	
Reactivity	①1 2 3	1		3	
Incompatibility	<b>0</b> 1 2 3	1	0	3	
Hazardous Waste Quanti	ty 012345678	1	2	8	
Total W	aste Characteristics Sco	ore	4	20	
Targets					7.3
Distance to Nearest Population	0 1 2 3 4 5	1	3	5	
Distance to Nearest Building	0(1) 2 3	1	(	3	•
Distance to Sensitive Environment	①1 2·3	1	0	3	
Land Use	0 1 2(3)	1	3	3	
Population Within 2-Mile Radius	0 1 2 3 4 5		3	5	
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1	3	5	
	rget Score		13	24	
Miltiply 1 x 2 x	multiply by 100			1,440	<u></u>

FIRE AND EXPLOSION WORK SHEET

	DIRECT CONTACT WORK	SHEET			
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)
Observed Incident	<u> </u>	1	0.	45	8.1
	o, proceed to line 4 proceed to line 2	_			
Accessibility	0 1 23	1	3)	3	8.2
Containment	0 🚯	1	5	15	8.3
Waste Characterist Toxicity	0 1 2 3	5_	15	15	8.4
Targets Population within 1-mile radius Distance to a critical habita	①1 2 3	4 4	12 0	20 12	8.5
	Total Targets Score		12	32	
	5, multiply $\begin{vmatrix} 1 & x & 4 & x & 5 \end{vmatrix}$ , multiply $\begin{vmatrix} 2 & x & 3 \end{vmatrix} \times \begin{vmatrix} 4 & x & 4 \end{vmatrix} \times \begin{vmatrix} 4 & x & 4 \end{vmatrix}$	5		21,600	8,100
Divide line 6	by 21,600 and multiply by 100	)	s <sub>DC</sub> -	37.5	

DIRECT CONTACT WORK SHEET

#### 3.1 <u>Documentation Records for Hazard Ranking System</u>

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

FACILITY NAME: Friendship Supply Co., Inc., (Jones Chemical)

LOCATION: Castle Garden Road, Friendship, Allegany County, New York

#### GROUND WATER ROUTE

#### 1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No contaminants detected in samples (Ref. 1)

Rationale for attributing the contaminants to the facility:

#### 2 ROUTE CHARACTERISTICS

#### Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

Bedrock consists of the Chadokoin Formation (stratified sandstone and shale members, formerly called the Cheming Group). Most of the available, high quality groundwater is located in thick unconsolidated valley deposit (overburden aguifer) Depth(s) from the ground surface to the highest seasonal level of the (Refs 2-4) saturated zone [water table(s)] of the aquifer of concern:

9ft (Ref. 5)

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

Wastes dumped on ground surface (Ref. 6)

#### Net Precipitation

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

35.49 inches peryear (Ref. 7)

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

27.0 inches per year (Ref. 8)

Net precipitation (subtract the above figures):

849 inches

#### Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Volusia soils — Deep soils found on uplands, somewhat poorly drained, formed in glacial till, very compact mottled fragipan. Chenango gravelly loam — well drained soil, located where glacial outwash gravel deposited, very channery. (Ref. 9).

10-3-10-5 cm/sec

#### Physical State

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

Liquid (Ref. 6)

#### 3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

No containment, waster dumped on ground (Ref. 6)

Method with highest score:

See above

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated:

HCI (Ref.6) NaOH NH3 Clz NaOCI

Compound with highest score:

HCI, NaOH, NaOCI: Combined Toxicity | Persistence Score equals 9

#### 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):

2,260 gallons = 41 drums

Basis of estimating and/or computing waste quantity:

Assume: 50 gallons wash water dumped daily
1% concentration of chemicals (10,000 ppm)
250 working days per year
18 years operation

(50gal/day)(250 days/41)(18yrs)(1%conc) = 2,250 gallons

#### 5 TARGETS

#### Ground Water Use

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

1

Drinking Water (Ref. 10) Industrial (Ref. 11)

#### Distance to Nearest Well

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

Public well on E. Main Street Friendling N.Y.

Distance to above well or building:

Approximately I mile.

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

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

145 | residents served by well water (Ref. 12) 160 workers at local dairy (Ref. 11)

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):

Occres (Ref. 13)

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

1611 Served

#### SURFACE WATER ROUTE

#### 1 OBSERVED RELEASE

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

Chlorine (Ref. 14)

Rationale for attributing the contaminants to the facility:

Detected at mouth of plants drainage ditain

#### 2 ROUTE CHARACTERISTICS

#### Facility Slope and Intervening Terrain

Average slope of facility in percent:

4% (estimated from USGS quadrangle map)

Name/description of nearest downslope surface water:

Van Campen Creek (West Branch)

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

4% (estimated from USGS gradianche max)

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

No

Is the facility completely surrounded by areas of higher elevation?  $N\circ$ 

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

2.3 inches (Ref. 15)

#### Distance to Nearest Downslope Surface Water

Approximately 1600 Feet

#### Physical State of Waste

Liquid (Ref. 6)

3 CONTAINMENT

#### Containment

Method(s) of waste or leachate containment evaluated:

No containment, wastes duringed on ground (Ref. 6)

Method with highest score:

See above

#### 4 WASTE CHARACTERISTICS

#### Toxicity and Persistence

Compound(s) evaluated

HCI (Ref. 6) NaOH Clz

NH3

Compound with highest score:

HCI, NaOH, NaOCI: Combined Toxicity / Persistence Score, equals 9

#### 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):

Basis of estimating and/or computing waste quantity:

See section 4, groundwater route

5 TARGETS

#### Surface Water Use

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

Drinking water (Ref. 10)

#### Is there tidal influence?

NO

#### Distance to a Sensitive Environment

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

M/A

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

None in area (Ref. 16)

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

None in area (Ref. 17)

#### 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:

No known residential intakes
45 household supplies are provided by other than
public water supplies or wells in the Town of
Friendship (Ref. 12)

Town border is 4.5 miles downstream and 3.3 miles

Van Campen Creek 12 main sortare mater in Tran

Assume 50% of other sources from to comprese 23 (23 homes) (2.77 residents/home) = 64 served

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

Oacres (Ref. 13)

Total population served:

64 served

Name/description of nearest of above water bodies:

Van Campen Creek

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

Within 3 miles, use lowest non-zero value

#### AIR ROUTE

a	BSE	RVED	REL	EASE

Contaminants detected:

N/A

Date and location of detection of contaminants

N/A

Methods used to detect the contaminants:

N/A

Rationale for attributing the contaminants to the site:

N/A

\* \* \*

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

N/A

Most incompatible pair of compounds:

N/A

#### Toxicity

Most toxic compound:

MA

#### Hazardous Waste Quantity

Total quantity of hazardous waste:

N/A

Basis of estimating and/or computing waste quantity:

NA

3 TARGETS

#### Population Within 4-Mile Radius

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

0 to 4 mi

0 to 1 mi

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

#### Distance to a Sensitive Environment

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

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

MA

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

-

NA

#### Land Use

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

N/A

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

N/A

Distance to residential area, if 2 miles or less:

MA

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

MA

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

MA

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

MA

SEDV

# POTENTIAL HAZARDOUS WASTE SITE

	L IDENT	TFICATION
		02 SITE NUMBER
1	MY	902009

	ELIMINARY ASSESSMENT EINFORMATION AND ASSESSMENT	NY 902009
IL SITE NAME AND LOCATION		
O1 SITE NAME (Lago, Comman, or description, Command of the)	02 STHEET, ROUTE NO., OR SPECIFIC LO	
FRIENDSHIP SUPPLY CO	CASTLE GARDEN	J ROAD
OSCITY CONTRACTOR OF THE CONTR	04 STATE OS ZIP CODE OS COUNTY	07 COUNTY 30 CONG
FRIEWOSHIP	NY 14739 ALL	I COOK I DET
OS COOPONATES LATTITUDE LONGITUD	£	
421215.0 078.08 5	03.0	
10 DIRECTIONS TO SUFE /Change transport making mark		- 1: 1 M. C. 1
Route 17 to Friendship &	ixit, White Springs Road	South to Main Street,
Main Street west to Castl	le garden Road.	
DL RESPONSIBLE PARTIES		
O1 OWNER of Annual	Q2 STREET (Business, Muley, residential)	
FRIENDSHIP SUPPLY CO	LASTLE GARDEN	ROAD .
O3 CITY	04 STATE 05 ZIF CODE OS TELS	PHONE NUMBER
PRIENDSHIP	NY 14739 17/41	793-8815
OF OPERATOR IF Import and extended from extends	OS STREET (Business, manny, residential)	
SAME		
OS CITY	10 STATE 11 ZP COOS 12 TELE	PHONE NUMBER
•	1 - 1 (c)	
13 TYPE OF OWNERSHIP (Cheen entry	<u></u>	
PRIVATE   B. FEDERAL:	C. STATE DD.CC	OUNTY DE MUNICIPAL
☐ F. OTHER:(Secoly)	C. UNKNOWN	
14 OWNER/OPERATOR NOTEFICATION ON FILE-CHARLES STATEMENTS.  (1 A. RCRA 3001 DATE RECEIVED:	UNCONTROLLED WASTE SITE (CINGLA 1694) DATE R	ECEIVED: / C. NONE
01 ON SITE INSPECTION. SY (Cheer of the	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del></del>
NVER DATE & 126,83 DAEPA	S. EPA CONTRACTOR C. STATE	ZO. OTHER CONTRACTOR
INO MONTH DAY YEAR DELOCAL	HEALTH OFFICIAL DEF. OTHER:	(Seedly)
	M NAMEST: Recita Research	Inc.
	EARS OF OPERATION 1963   1981	
SA ACTIVE BLINACTIVE C. UNIGNOWN	SEGMY DICK YEAR ELONG YEAR	
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALL		
Hydrochloric Acid, Caustic &	ioda, Ammonia, Chlorine,	Sodium Hypochlorife
	, , , , , , , , , , , , , , , , , , , ,	(, -
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR PO	PULATION	d lat Marca
Wash waters dumped on grow	nd and flow to drainage	. alten, van caupen cree
had fishkill related to disc	home . Water supply from 1	local wells
	Ser and asked their	
V. PRIORITY ASSESSMENT	·	
01 PRIORITY FOR INSPECTION (Chest data, if high or medium is attented, complete,	Part 2 - Waste Information and Part 5 - Consequence of Hasterboar Constant	and purplement
A HIGH D. B. MEDIUM	C. LOW D. NONE Disposed on all the production beauty Disposed on all the production provides	d, complete current disposition ferm)
VL INFORMATION AVAILABLE FROM		
01 CONTACT 02 C	Of (Agenty-Organisman)	03 TELEPHONE NUMBER
Richard L. Crouch	Recra Research Inc	17161838-6200
		EPHONE NUMBER GS DATE
C. Mark Hanna		1 883-5525 08,29,83

S	EF	<b>'</b>
60	<u></u>	

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

L IDENT	<b>IFICATION</b>
UI SIAIL	962009

A SCID CE SUMMY  A SCID CE SUMMY  CONTROL THES TSALICUS  CONTROL THES  CONTROL  CONT		TY AT SITE		OS WASTE CHARACTERISTICS (CHARASTER SERVI)  DEL TOTOG: LI E. SOLUBLE I HIGHLY VOLATI DEL CORROBIVE I R. INVECTIOUS L. ESPLOSIVE LI G. RADIOACTIVE Q. FLAMMABLE L. I. REACTIVE LI D. PERSISTENT I. H. IGHITABLE L. INCOMPATIBLE LI M. NOT APPLICAS				
		NO. OF SHUME			<u> </u>			
A WASTET					T			
A POWER	SUBSTANCE N		01 0	ICSS AMOUNT	OZ UNIT OF MEASURE	03 CCMMENTS		
ચય	SUJOG€	<del></del>	├─		<del></del>	<del> </del>		
CEW	ORY WASTE		<b>├</b>		<u> </u>	<del>                                     </del>		
SOL	SOLVENTS.		<del> </del>					
PSD:	PEST:CIDES		<u> </u>			<u> </u>		
OCC	OTHER ORGANIC CH	EMICALS:				<u></u>		
106	INORGANIC CHEMIC	<u>us</u>	$\Gamma J$	•			,	
ACB.	ACIOS		1	2250	gallons			
BAS	BASES.							
MES:	HEAVY METALS.							
. HAZARDO	OUS SUBSTANCES (See As	annin terment transcord	) adapt C	A& Municipal				
CATEGORY	02 SUBSTANCE NA	week.	030	AS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	OS MEASURE OF
	Hudrochlo	ou Acid			Dunged	an around		
	Coustic So				-	- Arear		
	Chlorine				11	<del></del>		<del>                                     </del>
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	CKS See Assert to the CAS Member							<del></del>
CATEGORY	01 FEEDSTOCK	PLANAE.	020	AS NUMBER	CATEGORY	01 FEEDST	OCK NAME	CZ CASTAUMBER
FDS					FOS			
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SCURCES	OF INFORMATION (CAST	500% of transpt, 4. L.	14140 L'VI	L SATER STANKS.			<del></del>	<del></del>
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## POTENTIAL HAZARDOUS WASTE SITE

PART 3-D	• •	RY ASSESSMENT RDOUS CONDITIONS AND INCIDEN	TS. M. 1 90	12009
IL HAZARDOUS CONDITIONS AND INC				
01 XA. GROUNOWATER CONTAMINATE 03 POPULATION POTENTIALLY AFFECTS	ON 1611 02 ED: 1611 04	OBSERVED (DATE) NARRATIVE DESCRIPTION	POTENTIAL	U ALLEGED
Wastes dump	ed on grown	d - soil is growelly	loam	•
01 D.S. SURFACE WATER CONTAMINAT 03 POPULATION POTENTIALLY AFFECTS	D	CI OBSERVED (DATE: 4/10/63 ) NARRATIVE DESCRIPTION:	CI POTENTAL	ALLEGED
Van Caupen Cree	k tested after	er fishkilly containe	d elevated c	hlorides.
01 [] C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTS		C OBSERVED (DATE) NARRATIVE DESCRIPTION	CI POTENTIAL	E ALLEGED.
01 (1 D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTS		CI OBSERVED (DATE:) NARRATIVE DESCRIPTION	☐ POTENTAL	C ALLEGED
	•	•		
01 D.E. DRECT CONTACT 03 POPULATION POTENTIALLY AFFECTS	iD: 04	C OBSERVED (DATE:) NARRATIVE DESCRIPTION		□ ALLEGED
Wastes dumped	on ground a	nd flow to surface o	brainage dute	<i>د</i> لا
01 Tale Contamination of Soil 03 Area Potentially Affected:	<u>/</u>	NAPPLATIVE DESCRIPTION		☐ ALLEGED
Wastes dumped	on ground and	) flow to on cite drawn.	nege ditch	
01 XG. DRINKING WATER CONTAMINATION POTENTIALLY AFFECTE		OBSERVED (DATE:) NARRATIVE DESCRIPTION	POTEMAL	C ALLEGED
Town's main downgo		is well field appr	eximately 1	mile ·
01 STA. WORKER EXPOSURE/INJURY 03: WORKERS POTENTIALLY AFFECTED	02	C) OBSERVED (DATE:) NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Wastes dumps	id in drevew	on adjacent to bu	ilding	
01 D.I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTE		OBSERVED (DATE:) VARRATIVE DESCRIPTION	☐ POTENTIAL	CI ALLEGED
•				

## SFPA

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

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PART 3- DESCRIPTION OF H	AZARDOUS CONDITIONS AND INCIDENTS	\$ [	70 200 7
HAZARDOUS CONDITIONS AND INCIDENTS			
J'DCL DAMAGE TO FLORA- GA NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	POTENTIAL	C ALLEGED
Wastes dumped on grownel an	d flow to drainage di	ifeh ous	s, te
11 O.K. DAMAGE TO FAUNA MARATIVE DESCRIPTION (MARAGE ASSESSED ASSESSED)	02 (1 OBSERVED (DATE: 4/10/63)	D POTENTIAL	I ALLEGED
Fishkill in Van Campen	truk following discharge		
31 CT L. CONTAMINATION OF FOOD CHAIN 04 HARRATIVE DESCRIPTION	02 COSSERVED (DATE:)	© POTENTIAL	☐ ALLEGED
	· 		
OT IM. UNSTABLE CONTAINMENT OF WASTES	02 C OBSERVED (DATE:)	I POTENTIAL	ALLEGED
OS POPULATION POTENTIALLY AFFECTED	04 NARRATIVE DESCRIPTION		٠
01 CI N: DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	I POTENTIAL	C ALLEGED
			•
91 C. O. CONTAMINATION OF SELVERS, STORM DRAINS, WWTP C4. MARRATIVE DESCRIPTION	6 02 COBGERVED (DATE:	D POTENTIAL	☐ ALLEGED
	•		
	·	•	
01 _ P. ILLEGAL GLACTACTICED DUMPTING. 04 NARRATIVE DESCRIPTION	02 TOBSERVED (DATE:)	C POTENTIAL	. O ALLEGED
	•		• .
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALL	EGED HAZAROS		
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+			
IL TOTAL POPULATION POTENTIALLY AFFECTED:		<del></del>	
IV. COMMENTS			
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V. SOURCES OF REFORMATION COMMENCE OF THE PROPERTY OF THE PROP	* 7.27 * 174.04 (4) (4) (4) (4) (4)		
Friendship Supply (c			
MYSDEC Region 9			

	NIIAL NALARUUUS WASIESIIE				LIDENTIFICATION			
2.FPA		SITE INSPECT			01 8	O1 STATE O2 SITE NUMBER		, –
	PARTT-SITE	LOCATION AND	INSPE	CTION INFORMA	ATION L/Y	777 1 700007		
IL SITE NAME AND LOCATION					<del></del>			
Q1 SITE NAME (Lagar, comment, or occurrence)	Name of side		02 STREE	T, ROUTE NO., OR SPE	CIFIC LOCATION IDENTIF	TER		
FRIENDSHIPSU	PPLY CO IN	IC CASTLE GARDEN ROAD				)		
FRIENDSHIP	. •		O4 STATE	14739	OB COUNTY ALLEGA	n / 4	CODE	08.
O9 COORDINATES		O TYPE OF OWNERSH	19 Y	91	710000	, ,	<u> </u>	
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05 CHIEF INSPECTOR	(Ne	OS TITLE			(Specify)	I n=	TELEPHONE I	<b>.</b>
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JERRY SAWY	ER	MANAGE	SOC	CASTI	e Garden RQ FR	SHIP (	714) 973-	- 8815
LARRY BLUE	 E	ENGINE		•	EMICALS INC	- 140	141768-	6281
	MIA	1 14 Grane	~	JONES CH	EMICALS 11	NC ,	7/4)538	- 2811
JAMES VAI	<u> </u>	CHEMIS	51	CALEDONI	* NY 1445	5 17	7,000	۵//
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IV. INFORMATION AVAILABLE F	ROM							
01 CONTACT		02 OF (Agency/Organic	-				LEPHONE NO	
RICHARD L. C		1 1	_	SEARCH			6)838-	6200
04 PERSON RESPONSIBLE FOR SITE INS	_	05 AGENCY	1	ANZATION -	07 TELEPHONE NO.	25	8 ,30,	8-3
C-MARK HANK	17	1	NK	2 0 INC	716-883-55	~   ~	MONTH DAY Y	reus

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

LIDENTIFICATION

01 STATE 02 SITE NUMBER

NY 90 2009

IL WASTE STATES, QUANTITIES, AND CHARACTERISTICS -: FRYSICAL STATES, ICROSS of IRRESPONDED			TY AT SITE				
IIL WASTET	YPE				<u> </u>		
CUTEGORY	SUBSTANCEN	AME	Q1 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
an	SLU0G#						
OLW	OILY WASTE			<u> </u>	<u> </u>		
SOL	SOLVENTS						
- PSD	PESTICIOES						
occ	OTHER ORGANIC C	HEMICALS.					
IQC	INORGANIC CHEMIC	E.W.	1 2250	Gallons	Containe	I muash	vaters
4CD	ACIO3		1				
BAS	BASES						
MES	HEAVY METALS						
IV. HAZARD	CUS SUBSTANCES		بر درون له محمود			•	
CT CATEGORY	02 SUBSTANCEN		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	CONCENTRATION
	Hudrochloric Acid			Dumped on	arrived		
•	Sodium Hydroxide			11			
	Chlorine		<del>                                     </del>	11			
	Ammonia			li.			
	Sodium Hupo	ch lace to					
	20011011		<del>                                     </del>			<u> </u>	
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V. FEEDSTO	CXS (See Aspender for CAS Pages						<u> </u>
CATEGORY	01 FEEDSTOO	X NAME	02 CAS NUMBER	CATEGORY	01 FEEOST	OCK NAME	02 CAS NUMBER
FOS				FOS			
FDS	·			FOS			
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VL SOURCE	S OF INFORMATION .C.	Access of the second section of the	, state free, saffers anarous.	/eparts			
	IENDSHIP. SUPI						

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

L IDENTIFICATION OI STATE OZ SITE NUMBER

DARTE DECOMPTION OF H	AZARDOUS CONDITIONS AND INCIDENT	WY I	02009
PARI 3-DESCRIPTION OF IT	REARDOGS CONDITIONS AND INCIDENT	<del></del>	******
IL HAZARDOUS CONDITIONS AND INCIDENTS			
01 A GROUNGWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 TI COSCHYED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	□ ALLEGED
Wastes dumped on grow	nd - soil is gravelly l	oam	
•			
01 St. SURFACE WATER CONTAMINATION 104 104	02 C OBSERVED (DATE: 4 10 51)	☐ POTENTIAL	CT ALLEGED
· Van Campen Creek teste	d after fishkill. Con	ntained hi	sh chloridas
01 C CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 IJ OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	C POTENTIAL	□ ALEGED
•			
· — ·			-
01 [] D. FIRE/EXPLOSIVE CONDITIONS	02 C OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED:
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		•
•	<u></u>		
01 XE. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED:	02 C OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	2 POTENTIAL	ii ALLEGED
Wastes dumped on ground	) and flow to surface dra	inage ditch	
		•	
	•		
01 XF. CONTAMINATION OF SOIL 9	OF NAME OF DESCRIPTION	POTENTIAL	
wastes dumped on ground	d and flow to drainage	dutch on	51te:
wastes womped on Jison			
	· · · · · · · · · · · · · · · · · · ·		
01 S/G, DRINKING WATER CONTAMINATION	02 □ OBSERVED (DATE:)	X POTENTIAL	C'ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	XI-O.B.IIAC	- ALEGES
Town water source (main)	is well approximately	Imile do	ungradient
100% march apprece (main)	1. 22011 24/11/2011 21/2		9
	•		
01 XH. WORKER EXPOSURE/INJURY	02 C OBSERVED (DATE:)	POTENTIAL	☐ ALLEGED
03/WORKERS POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		,
wastes dumped in driv	eway adjacent to be	ilding.	~
soccion are indirect the one	7	7	•
		•	
01 I. POPULATION EXPOSURE/INJURY	02 - OBSERVED (DATE:)	E POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		_
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# SEPA

EPA FORM 2070-13 (7-81)

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3-DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

L IDENTIFICATION
OF STATE OF SHIE MANGER
NU 902009

IV. COMMENTS	IL HAZARDOUS CONDITIONS AND INCIDENTS COMMA	and)		
OF TOTAL DAMAGE TO FALINA  ON FURTHER DESCRIPTION  FISH KILL (IN VAN CAMPAN Creek following discharge.  OF CL CONTAMENATION OF FOOD CHAIN  OF CL CONTAMENATION OF SEWERS, STORM ORANS, WINTH-  OF CL CONTAMENATION ORANGE.  OF CL CONTAMENATION OF SEWERS, STORM ORANS, WINTH-  OF	DAMARATIVE DESCRIPTION	•		
TISK KILL IN VAN CAMPEN CYCEK FOLLOWING DISCHARGE.  OF CL CONTAMENATION OF FOOD CHARGE OF THE OF THE CONTAMENATION OF FOOD CHARGE OF THE OF TH	Wastes dumped on gro	rond and flow to drainage	ditch on	site
TISK KILL IN VAN CAMPEN CYCEK FOLLOWING DISCHARGE.  OF CL CONTAMENATION OF FOOD CHARGE OF THE OF THE CONTAMENATION OF FOOD CHARGE OF THE OF TH				
OF C L CONTAMENTON OF FOOD CHARM  O2 C OSSERVED (OATE: ) POTENTIAL ALLEGED  O1 C N. UNISTABLE CONTAMENT OF WASTES  O2 C OSSERVED (OATE: ) POTENTIAL  O3 POPULATION POTENTIALLY AFFECTED: O4 NARRATIVE DESCRIPTION  O1 C O. CONTAMENTON OF SEWERS, STORM DRAINS, WATTP- O2 C OSSERVED (OATE: ) POTENTIAL  O1 C O. CONTAMENTON OF SEWERS, STORM DRAINS, WATTP- O2 C OSSERVED (OATE: ) POTENTIAL  O1 C O. CONTAMENTON OF SEWERS, STORM DRAINS, WATTP- O2 C OSSERVED (OATE: ) POTENTIAL  O1 C O. CONTAMENTON OF SEWERS, STORM DRAINS, WATTP- O2 C OSSERVED (OATE: ) POTENTIAL  O3 POTENTIAL  O3 POTENTIAL  O3 POTENTIAL  O4 NARRATIVE DESCRIPTION  O5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS  III. TOTAL POPULATION POTENTIALLY AFFECTED: [ 7 7 5 ]  III. COMMENTS	OT SOC DAMAGE TO FAUNA: 04 NARRATIVE DESCRIPTION (MELICAMENI) of SOC 913	02.00085ERVED (DATE: 4/10/63)	@ POTENTIAL	□ ALLEGED
OF C L CONTAMENTON OF FOOD CHARM  O2 C OSSERVED (DATE:  O1 C N. UNISTABLE CONTAMENT OF WASTES  O2 C OSSERVED (DATE:  O4 MARRATIVE DESCRIPTION  O5 ON ANAMAGE TO OFFSITE PROPERTY  O2 C OSSERVED (DATE:  O4 MARRATIVE DESCRIPTION  O1 C O. CONTAMENTATION OF SEWERS, STORIN DRAINS, WATTP- O4 MARRATIVE DESCRIPTION  O1 C O. CONTAMENTATION OF SEWERS, STORIN DRAINS, WATTP- O4 MARRATIVE DESCRIPTION  O5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS  III. TOTAL POPULATION POTENTIALLY AFFECTED:  III. TOTAL POPULATION POTENTIALLY AFFECTED:  IV. COMMENTS	Ti-11 11 Va. O	a Coast Class diale		
O1	FISHKIII IN VAN Camp	en Creek tollowing alsend	nge.	<u> </u>
O1 C N. UNSTABLE CONTAINMENT OF WASTES O2 CINSERVED (DATE:		02 (I OBSERVED (DATE:)	☐ POTENTAL	☐ ALLEGED
OT C A LINESTABLE CONTAINMENT OF WASTES  OZ CIDESERVED (DATE: ) CIDENTIAL CLAUSED  OR POPULATION POTENTIALLY AFFECTED: OA NARRATIVE DESCRIPTION  OT C OL CONTAINMATION OF SEWERS, STORM DRAINS, WINTED  OT C P. ILLEGAL/UNAUTHORIZED DUMPING.  OT C P. ILLEGAL/UNAUTHORIZED DUMPING.  OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL OR ALLEGED HAZARDS  IE. TOTAL POPULATION POTENTIALLY AFFECTED: [ 7 5]  IV. COMMIENTS	04 NARRATIVE DESCRIPTION			
OT C A LINESTABLE CONTAINMENT OF WASTES  OZ COSSERVED (DATE: ) POTENTIAL ALEGED  OT POPULATION POTENTIALLY AFFECTED: OA NARRATIVE DESCRIPTION:  OT C OL CONTAINMATION OF SEWERS, STORM DRAINS, WINTED  OT C P. ILLEGAL/UNAUTHORIZED DUMPING.  OT C P. ILLEGAL/UNAUTHORIZED DUMPING.  OT DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  IE. TOTAL POPULATION POTENTIALLY AFFECTED: [ 7.5]				
O3 POPULATION POTENTIALLY AFFECTED:  O4 NARRATIVE DESCRIPTION:  O3 C) C) N. DAMAGE TO OFFSITE PROPERTY  O4 NARRATIVE DESCRIPTION  O5 C) C) N. DAMAGE TO OFFSITE PROPERTY  O4 NARRATIVE DESCRIPTION  O5 C) C) N. DAMAGE TO OFFSITE PROPERTY  O6 NARRATIVE DESCRIPTION  O7 C)				
OS POPULATION POTENTIALLY AFFECTED:  O4 MARRATIVE DESCRIPTION:  O5 C O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP- 02 CRESERVED (DATE:  O4 NARRATIVE DESCRIPTION:  O5 C P. ILLEGAL/UNAUTHORIZED DUMPING.  O5 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  IE. TOTAL POPULATION POTENTIALLY AFFECTED:  II. COMMENTS		02 (] OBSERVED (DATE:)	- POTENTIAL	I ALLEGED
ON C. O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP+ 02 (1) OBSERVED (DATE:		04 NARRATIVE DESCRIPTION:	•	,
ON C. O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTP+ 02 (1) OBSERVED (DATE:		· · · · · · · · · · · · · · · · · · ·		
ON C. O. CONTAMINATION OF SEWERS, STORM DRAINS, WATER 02 (I OBSERVED (DATE:			4M 1	·
CIT CITIO, CONTAMINATION OF SEWERS, STORM DRAINS, WWITPS 02 CIOSSERVED (DATE:	4., — :: -: -: -: -: -: -: -: -: -: -: -:	02 ( OSSERVED (DATE:)	[] POTENTIAL	C ALLEGED
CIT CITIO, CONTAMINATION OF SEWERS, STORM DRAINS, WWITPS 02 CIOSSERVED (DATE:	e de la companya del companya de la companya del companya de la co			••
01   P. ILLEGALJUNAUTHORIZED DUMPING.   02   OBSERVED (DATE:)   POTENTIAL   ALLEGED   04 NARRATIVE DESCRIPTION   OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  16. TOTAL POPULATION POTENTIALLY AFFECTED:			•	
01   P. ILLEGALJUNAUTHORIZED DUMPING.   02   OBSERVED (DATE:)   POTENTIAL   ALLEGED   04 NARRATIVE DESCRIPTION   OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  16. TOTAL POPULATION POTENTIALLY AFFECTED:	and the second s	<u> </u>		
01   P. ILLEGAL/UNAUTHORIZED DUMPING.   02   OBSERVED (DATE:		WWTPs 02 COSERVED (DATE:)	I POTENTIAL	C ALLEGED
01   P. ILLEGAL/UNAUTHORIZED DUMPING.   02   OBSERVED (DATE:	04 NARRATIVE DESCRIPTION		•	
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OA NARRATIVE DESCRIPTION  OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  IE. TOTAL POPULATION POTENTIALLY AFFECTED:				, " •
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS  IR. FOTAL POPULATION POTENTIALLY AFFECTED:		02 C OBSERVED (OATE:)	☐ POTENTIAL	C ALLEGED:
IR. TOTAL POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION	•	•	
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IR. TOTAL POPULATION POTENTIALLY AFFECTED:	and the second second			•
IR. TOTAL POPULATION POTENTIALLY AFFECTED:	OS DESCRIPTION OF ANY OTHER VANCAGE POTENTIAL OF	A ALL EGEN HATAONS		
IV. COMMENTS				
IV. COMMENTS				
IV. COMMENTS		•	•	
IV. COMMENTS			<u> </u>	
	IIL TOTAL POPULATION POTENTIALLY AFFECTED:	1675		
V. SOURCES OF INFORMATION (Cre seasone references, a. g., state face, service assistant, reports)	IV. COMMENTS			
V. SOURCES OF INFORMATION (Crossocrite references, e. g., 50000 floor, service analysis, reports)			•	
V. SOURCES OF INFORMATION (Crossocrite references, e. g., state final, secrete destruit, reports)		. :		
V. SOURCES OF INFORMATION (City severne information in g., 52210 flow, seating analysis, reports)				
	V. SOURCES OF INFORMATION (CRO SECOND INFORMATION (CRO	state rises, surgets analyses, resource		
COTELINGUE CIDOLU COMPANIU	COTCAMEND SIDDIN TO	MA DAMEY		
FRIENDSHIP SUPPLY COMPANY	,	/11LT ( 1 V T		
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### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION

I r meu i	FICATION.
OT STATE	02 SITE NUMBER 90 2 0 0 9

PART 4- PERMIT AND DESCRIPTIVE INFORMATION IL PERMIT INFORMATION 03 DATE ISSUED - 04 EXPIRATION DATE 05 COMMENTS OI TYPE OF PERMIT ISSUED TA NPOES C B. UIC C. AIR CD. RCRA E RCRAINTERIM STATUS TIP. SPCCPLAN G STATE Specify Dermit to discharge to ATHE LOCAL SOME Friendship Sewer System IL OTHER Speedy IJ NONE III: SITE DESCRIPTION 04 TREATMENT (Chose of their entry) 02 AMOUNT OS UNIT OF MEASURE OT STORAGE/DISPOSAL (Chief of their story) II A. SLIRIFACE IMPOUNDMENT A INCENERATION XA. BUILDINGS ON SITE C.B. PLES I B. UNDERGROUND INJECTION C. DRUMS, ABOVE GROUND C CHEMICAL/PHYSICAL -ET-B: TANK, ABOVE GROUND T D. BIOLOGICAL OS AREA OF SITE ☐ E. TANK, BELOW GROUND ☐ E. WASTE OIL PROCESSING. C F. LANOFILL T. F. SOLVENT RECOVERY [] G. LANDFARM I G. OTHER RECYCLING/RECOVERY H. OPEN DUMP H. OTHER. 07 COMMENTS. IV. CONTAINMENT OT CONTAINMENT OF WASTES/Check comp C. MADEQUATE, POOR D. INSECURE, UNSOUND, DANGEROUS -EI A. ADEQUATE, SECURE I I MODERATE wastes dumped on ground in driveway V. ACCESSIBILITY VL SQURCES OF INFORMATION (Cre section refere FRIENDSHIP SUPPLY CO

SEPA		EINSPECTION	OUS WASTE ON REPORT , AND ENVIRO		OF STATE CLASTERN	YBER
IL DRINKING WATER SUPPLY	•				•	
77 TYPE OF COMMUNICAL SUPPLY (Check on communical)		GE STARUS-	•		03 DISTANCE TO S	me:
SURFACE.	B.X	ENDANGERED:	AFFECTED. B. J.	MONITORED	1.5	_im)
NON-COMMUNITY C. X	0.0	0.)=(	· E.C	<u> </u>	8 3º	_{/mit
D1 GROUNOWATER USE IN VICINITY (Cheere L. A. ONLY SOURCE FOR ORINKING	E. DRIVING.  COMMENCING.  COMMENCING.  COMMENCING.  COMMENCING.		C C. COMMER	CLAL, INDUSTRIAL SHRIGAT IF HOUSE BRANKFOR	non- " o notuseo.	UMUSEABLE
02 POPULATION SERVED BY GROUND WAT	en (all		23 DISTANCE TO NE	AREST DRINKING WATER V	MELL 1.5	(mi)
CA DEPTH TO GROUNDWATER	ов огластион от стоиной <u>South</u>		e depth to adult of concern ) verburden	OF ALLEGA	.D. DIE SOUE SOUR	
G RECHARGE AREA  TO YES COMMENTS	<u> </u>		1 DISCHARGE ARE	MENTS:		
IV. SURFACE WATER			<del></del>	· · · · · · · · · · · · · · · · · · ·		
CI SUIFACE WATER USE (Great area)	C B. IRRIGATION, SC	ONOMICALLY		RCIAL INCUSTRIAL	To Notchiere	
A PESERVOIR, RECREATION DRINKING WATER SOURCE  02 APPECTED/POTENTIALLY APPECTED 60	IMPORTANT RES		C C. COLIME			NTLY USED
- CHRIGHT WATER SOURCE	DIES OF WATER		C COAME	AFFECTED 2	DISTANCE TO	OSITE
02 AFFECTED/POTENTIALLY AFFECTED 60	Cheek		C C. COMME		DISTANCE TO	OSITE

Site adjacent to Hanlet of Friendship.

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	IFICATION:
O1 STATE	02 SITE NUMBER
N/	902009

PART 5-WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VL ENVIRONMENTAL INFORMATION OT PERMEABILITY OF UNSATURATED ZONE (CM 🖸 B. RELATIVELY IMPERIMEABLE 💢 C. RELATIVELY PERMEABLE 💢 D. VERY PERMEABLE up to 15 11 DISTANCETO WETLANDS (5 ser-mountain) 12 DISTANCE TO CRITICAL MARITAT NO an OTHER RESIDENTIAL AREAS: NATIONAL/STATE PARKS, FORESTS, OR WILDLIFE RESERVES Site is located on lower portion of steep slope. Van Campen creek on valley floor below

SEPA	•	OTENTIAL HAZARDOUS WASTE SITE		
	SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION		OI STATE 02 SITE NUMBER NY 902009	
IL SAMPLES TAKEN			<del></del>	
SAMPLETYPE	OI NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESILTS AVAILAB
GROUNOWATER	<b>a</b>	ARO CORD		Now
SURFACE WATER				
WASTE	~			
AIP				
RUNOFF				
SPILL				
SOL				
VEGETATION-				
OTHER		-		
IL FIELD MEASUREMENTS T	AKEN			
chloring	SCHOLES	Indicated higher levels	than un	stream at
	29.00	The state of the s	P	. ///
(FREG \$ TOTAL)	mo-	h of drainage ditch		<u> </u>
				<del></del>
			···	· ————————————————————————————————————
V. PHOTOGRAPHS AND MAI	<u> </u>		<del></del>	
01 TYPE GROUND XAERIA	<del></del>	22 IN CUSTOM OF SOIL (OUSSELVATION)	SELUICE.	BELMOST
	NOF MAPS	(Name of organization of individual		
ONO				
7. OTHER FIELD DATA COLL	EG I EU (Provido namelho desa	***************************************		
None	. •			
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		· ·		
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				e e e e e e e e e e e e e e e e e e e
L SOURCES OF INFORMATI	ON (Che specific references, a.g.	L. State (fine, sample amolysis, reporter		
Town of Fra	edship			•

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•		<u> </u>

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

LIDEN	TIFICATION
Q1 STAT	E Q2 SITE NUMBER
W	902009

<b>SEPA</b>			VER INFORMATION	W.	902009
CURRENT OWNER(S)			PARENT COMPANY (# augmenter)		
FRIENDSHIP SUPP	V An	02 D+6 NUMBER	QS NAME		09 D+8 MUMBER_
	- <u>) [</u>		JONES CHEMIC	MSTAC	
STREET AGGREGATE OF BULL PROFESSOR		04 SIC CODE	10 STREET ADDRESS (P.O. See, APO P. WEL)	_	11 SIC COOE
CASTLE GARDEN ROA	<u>~</u>		100 SUNNY SOL		
\$in-	OB STATE	07 ZIP CODE.	12017		14 2P CODE
FRIENDSHIP	1.184	14739	CALEDONIA	174	14423
		02 0+6 NUMBER	OS-NAME		09 0+8 NUMBER
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un	00 STATE	07 ZIP COOE	12017	13 STAFE	14 ZIP COOE
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	•	025-ENUMBER	CSALLE		02 0 + 6 HADIMER
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<u> </u>	06 STATE	07 ZP COOE	12017	13 STATE	14 ZP CODE
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SIMES! ADUNESSIFIC SEL MOP. 481		04SIC CO0E	19 STREET ADDRESS (P.O. Box. AFG P. ore.)		11 SIC CODE
City	IAA STATE	07 ZIP COOE	1207	IT 3 STATE!	14 ZIP CODE
		07.25-002			
PREYIOUS OWNER(S)		<u></u>	IV. REALTY OWNER(S) (# 20042200): 100 ft		
*AAMe	<del>-</del>	C2 D+E NUMBER	O1 NAME		02 D+8 NUMBER
				ļ	·
STREET ADDRESS P G BM. AFG # ett.)		04 SIC COO€	G3 STREET ADDRESS (P.O. Box, AFO P. sec.)		04 SIC CODE
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en -	OGSTATE	07 23° CODE	05 CITY	OG STATE	O7 ZP CODE
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Charlet ACORESS PO Sto MO A con.		04 SIC CODE	03 STREET ACORESS (P.O. Box, AFO P. etc.)	<u>.</u>	04 SIC CODE.
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	OG STATE	G7 ZIP CODE	05 CITY	OS STATE	07 ZIP CODE
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		02 D+6 NUMBER	O1 NAME		05 n∔a unwesu:
TO ET ADDNESS, PO BOL AFOR SEL	• • •	04 SIC CODE	03 STREET ADDRESS (P GL Box, RFO P. con.):	.=0	04 SEC CODE
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and the state of t	GOSTATE	O7 ZIP CODE	OS CITY	POSIAIE	V. C. VANCE
3000 by 00 196000000000000000000000000000000000	<u> </u>	<u></u>		<u></u>	
SCURLES OF INFORMATION (Con see		e.g., scale files, sample analysis	s. reported		
FRIEWOSHIP S	UPPLY	<u></u>	may make a second of the secon		
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# SEPA

# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PARTS-OPERATOR INFORMATION

I. IDENTIFICATION

O1 STATE OZ SIJE MUNIER

O0 2 00 9

IL CURRENT OPERATOR	d'afferent from eurori		OPERATOR'S PARENT COMPAN	
1 NAME		02 D+6 NUMBER	10 NAME	110+8 NUMBER
FRIGHOSHUP SUN	PPLY CO		JONES CHEMICA	als inc
STINEE! ALUNESS (P.O. Ma. 1940), on	ų	043000E	12 STREET ADDRESS IF IL AME AFOR ME.	13 300 00000
CASTLE GARDEN	ROA		! YUO SUMNY SOL	BLUD
5 CITY		07 ZP CODE:	TACITY	IS STATE 16 ZIP CODE
FRIENDSHIP	1 14	14739	CALEDONIA	E3441 144
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18 -				
L PREVIOUS OPERATOR(S)	i musi reggai frat; promir y	nig il <del>dillorati</del> from custori	PREVIOUS OPERATORS' PAREN	IT COMPANIES (17 AMARIAN)
I NAME		CZ D+6 NUMBER	10 NAME	11 D+8 NUMBER
MONE		· .	. [	•
S STREET ADDRESS (P.O. Box, APD P. ou		04 SIC COOE	12 STREET ACCRESS IP C. Bin. NFD F. ont.)	13 SIC CODE
	•	•		
CITY	OG STATE	07 2P CODE.	14GTY	15 STATE 16 ZIP CODE
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	OF OWNER DURING TH			
YEARS OF OPERATION 09 NAME	OF OWNER DURING IN	Brewoo		
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MAME.		OP 0+8 NUMBER	1G NAME	11 0+8 NUMBER
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sany	06 STATE	07 ZIP COOE -	14GTY	15 STATE 16 ZIP CODE
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SYEARS OF OPERATION OS NAME	OF OWNER OURING TH	IS PERIOD	}	•
YEARS OF OPERATION OR NAME OF SOURCES OF INFORMATION				<u> </u>

FRIEWDSHIP SUPPLY CO

POTE		POTENTIAL HAZ	NTIAL HAZARDOUS WASTE SITE		L IDENTIFICATION:	
SEPA		SITE INSPE	TRANSPORTER INFORMATION  O1 STATE 02 SITE NUMBER  YY 902.00			
IL ON-SITE GENERATOR			<del></del>			
DE COLOCULA COOL		02 D+8 NUMBER				
FRICH DSHIP SUPPLY		04 SIC CODE	-			
CASTLE GARDEN RO	AA	-		· '		
FRIENDSHIP	OS STATE	14739			• • • • • • • • • • • • • • • • • • •	
IR. OFF-SITE GENERATORISE						
NNE		02 D+8 NUMBER	O1 NAME	· · · · · · · · · · · · · · · · · · ·	02 0+6 NUMBER	
G3 STREET ADDRESS (A.C. Son, APCA, oth.)		04 SIC CODE	Q3 STREET ADDRESS (P.Q. Box, APD #; et	10.)	04 SIC CODE	
06 CITY	00 STATE	07 2P CODE.	os CITY	QS STATE	07 ZIP COOS	
O1 NAME	•	02 D+6 NUMBER	01 NAME		02 D+6 NUMBER	
OS STREET ADDRESS (P.O. dom, APD A, col.)		04 SIC COOE	03 STREET ADDRESS (P.O. des. APO F. A	· · · · · · · · · · · · · · · · · · ·	04 SIC CODE	
05 CITY	OS STATE	07 ZF CCC6	<b>ಜರ್</b>	OS STATE	07 ZP COOE	
IV. TRANSPORTERIS						
OT NAME NONE	**	U2 U+6 MANAGER	O1 NAME		02 D+6 NUMBER	
OS STREET ADDRESS (P.O. Son, APD A. etc.)		04 SIC CODE	OS STREET ACCRESS (P.O. Ban, APD A, on	ey .	04 SIC CODE	
05 CITY	OS STATE	07 ZIP CODE	os city	06 STATE	07 ZIP CODE	
O1 NAME		02 D+8 NUMBER	O1 NAME.	<del></del>	02 D+B NUMBER	
03 STREET ADDRESS (F.O. Box, APD A; vist.)		04 SIG CODE	03 STREET ADDRESS (P.O. Bea, APO P. of	(L.)	04 SIC CODE	
os ary	OS STATE	O7 ZIP CODE	озату	06 STATE	07 ZIP CODE	
V. SOURCES OF INFORMATION (Cite April	alte references.	A.g., 21500 hipp, sorrain averyou	, reports)			
FRIEWDSHIP SUPP	ky c	٥				

# **SEPA**

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

L IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 902009

	PART 10-PAST RESPONSE ACTIVITIES		M4 702009
H. PAST RESPONSE ACTIVITIES			
01 A. WATER SUPPLY CLOSED	02 DATE	03 AGENCY	
04 DESCRIPTION:	•		
		•	
01   B. TEMPORARY WATER SUPPLY PROVID 04 DESCRIPTION	DED 02 DATE	03 AGENCY	
04 DESCRIPTION	en e		•
01 C. PERMANENT WATER SUPPLY PROVID	DED. 02 DATE	03 AGENCY	<u>-</u>
04 DESCRIPTION	OZ DATE	OJ MOZNO!	
	and the second of the second s		
01 C D. SPILLED MATERIAL REMOVED	02 DATE	03 AGENCY	
04 DESCRIPTION	sant experience of the same of		
01: CE CONTAMINATED SOIL REMOVED.	02 DATE	03 AGENCY	
- 04 DESCRIPTION			
		4.	
01 C. F. WASTE REPACKAGED 04 DESCRIPTION:	02 DATE	03 AGENCY	
O4 DESCRIPTION	The second section of the second section is a second section of the second section of the second section is a second section of the second section sec	-	•
O4 CLO WASTE DISCOSED SI SSIMUSTOS		03 AGENCY	
01 © G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION	02 DATE	US AGENCY	
01 CH. ON SITE BURIAL	02 DATE	03 AGENCY	
04 DESCRIPTION			•
· ·	en e		
01 [] I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
			•
OT [] J. IN SITU BIOLOGICAL TREATMENT	02 DATE	03 AGENCY	
04 DESCRIPTION			
01 C K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
u- Descrit-Trois			
01 [] L ENCAPSULATION	02 DATE	03 AGENCY	
04 DESCRIPTION:			
<u> </u>			
01 M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
O- DESCRIPTION			
01 I N. CUTOFF WALLS	02 DATE	03 AGENCY	
04 DESCRIPTION		US AGENCI	
	·		
01 0. EMERGENCY DIKING/SURFACE WATE	R DIVERSION 02 DATE	03 AGENCY	
04 DESCRIPTION	•		
01 [] P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION	02 DATE	03 AGENCY	
			•
Of ELO SUpplied of Supplied with	00 04 P	00 100101	
01 ☐ Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION	02 DATE	U3 AGENCY	
•	•		

OZ DATE	01 STATE 02 SITE NUMBER NV 90 2 00 9  03 AGENCY  03 AGENCY  03 AGENCY  03 AGENCY  03 AGENCY
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02 DATE	03 AGENCY
	02 DATE

IIIL SOURCES OF INFORMATION (City specific references, 4.9., state flow, sample analysis, reports

NYSDEC REGION 9.



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

L IDENTIFICATION

MAL AUSTON

IL ENFORCEMENT INFORMATION

OT PAST REGULATORY/ENFORCEMENT ACTION / NCES: CI NO

02 DESCRIPTION OF FEDERAL STATE: LOCAL REGULATURY ENFORCEMENT ACTION

CONSENT ORDER BY MYSDEC AGAINST FRIENDSHIP SUPPLY
TO STOP DISCHARGING. RINGE WATERS TO DRIVEWBY
AND INSTALL NEUTRALIZATION SYSTETH AND SETUER
CONNECTION

IR SOURCES OF INFORMATION (Consents reference & g., state has accompany and

MYSDEC REGION 9

EPA FORM 2070-13 (7-81)

### 5.0 SITE DATA

## 5.1 Site Area Surface Features

- 5.1.1 Topography and Drainage The topography of this site is similar to much of Allegany County. Friendship Supply is located on the lower portion of a steep slope (15%), approximately 50 feet in elevation above the West Branch of Van Campen Creek on the valley floor. The site is located within the Genesee River basin, and all streams in the immediate area eventually discharge to the river. Van Campen Creek is a perennial stream which is comprised of three branches that meet within the Hamlet of Friendship. The West Branch receives the surface runoff from the site, which up to 1981 contained the plant's wastewater discharges.
- 5.1.2 Environmental Setting This site is not in the vicinity of either a designated wetland (Ref. 16) or the critical habitat of any endangered species (Ref. 17), nor does it lie within the 100 year flood boundary of Van Campen Creek, as designated by the Federal Emergency Management Agency (Ref. 21).

### 5.2 Hydrogeology

- Geology The Friendship Supply site is located in an area in which the bedrock is characteristic of the Upper Devonian Series (Ref. 2). Specifically, the surficial deposits are part of the Chadokoin Formation, which is comprised of stratified shales and sandstones with interbedded siltstones. Most of the area is part of a dissected plateau which is in a mature stage of development. The bedrock there dips gently to the south. Thick, unconsolidated deposits of glacial till, sand and gravel are found in the deep valleys of the region (Ref. 4).
- 5.2.2 Soils The overburden soils of the site consist primarily of Chenango gravelly loam, with Volusia soils being located around the packaging facility (Ref. 9). Both soil types are derived from glacial deposits formed along lower slopes, and are characterized as being very channery and very acidic, with a low organic matter content. Volusia soils typically have seepage above a very compact fragipan. Based upon soil borings completed immediately adjacent to the site, a typical soil profile would be: silt with traces of gravel to 4 feet, silt with traces of sand, gravel and clay to 15 feet, gravel

and rock fragments with some silt to approximately 33 feet, the depth of the shale bedrock surface.

5.2.3 Groundwater - The deep, unconsolidated galcial deposits at the base of the valley slope serve as the main source of groundwater in the area of the site (Ref. 4). Groundwater flow beneath the site is suspected to be downslope, with the eventual discharge point being Van Campen Creek. The Volusia soils on site are characterized by having seepage above a dense fragipan, which could serve as a pathway for contaminant migration. The plant manager mentioned that a ditch was dug behind the facility and a culvert installed under the parking lot to divert this seepage around the facility (Ref 6). This situation would indicate that the potential for bedrock contamination beneath the packaging plant is reduced; however, downslope from this facility, the well-drained Chenango soils would not be likely to inhibit downward migration from the surface water borne contaminants. This area of potential groundwater contamination lies immediately upgradient from the creek, which serves as the local discharge point for the overburden aquifer.

potential for the contaminated groundwater to impact the local population therefore exists.

## 5.3 Previous Sampling and Analysis

- 5.3.1 Groundwater Quality Data Several samples have been taken from the wells used for the Friendship public water supply. No contamination from the Friendship Supply site is indicated in the results. The analytical reports are presented on the colored pages following this section.
- Surface Water Quality Data Samples of Van Campen
  Creek water were analyzed on site for both free
  chlorine and total chlorine following the fishkill
  during 1981. The results, which are presented on
  the colored pages following this section, indicate
  an elevated level of chlorine in the stream near the
  drainage ditch from Friendship Supply Company.
- 5.3.3 <u>Air Quality Data</u> There has been no sampling of the atmosphere related to the release of chemical contaminants from the site.
- 5.3.4 Other Analytical Data No other analytical results are available for this site.

# (ARO CORPORATION

BUFFALO DIVISION 3695 BROADV Y, BUFFALO, N.Y. 14227



# ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

CHAMBER TOWN OF FRIENDSHIP	
ARO, Laboratory Number 20, 363W-4435	Customer P.O. #
Date : Collected ? Received 2/2	5/82 Reported 3/9/82
Sampling Point/Description Water Supply	
Alkalinity 1.22 158. mgCaCO3/L	(A1) Aluminum
Anionic Detergents (MBAS)	(As) Arsenic
Biochemical Oxygen	(Ba) Barium
Demand (BOD5) 3.4 mg/L	(Cd) Cadmium
Chemical Oxygen	(Cr) Chromium
Demand (COD) 21. mg/L	(Cu) Copper
Chlorides	(Fe) Iron
Conductivity 484. µmhos/cm	(Pb) Lead
Cyanides	(Mg) Magnesium
Fluorides 0.23 ppm Hardness 262. mgCaCO <sub>3</sub> /L	(Mn) Manganese
Hardness Relation 262. mgCaCO./L	(Hg) Mercury
Nitrogen & Ammonia	(K.) Potassium
Nitroken Lotal Kjeldahl 1,48 ppm	A (Se) Sclenium
Nitrogen Whitrates A. S. M. M. W. S. O. O. opin 1998 A. W. W.	(Ag) Silver
Nitrogen Nitrites	(Na) Sodium
Oll & Grease	(Zn) Zinc
Phenals (1997)	Benzene <1. ppb
pH 7.55	Toluene <1. ppb
Phosphates (asp) 0.04 ppm	Xylene <1. ppb
Sulfales Solida	
Total Dissolved Solids 137, mg/L Total Suspended Solids	Trihalomethanes (THM's)
Turbidity (1)	111 (altomothanes (111w s)
Fecal Coliform 0. FC/100 ml.	Chloroform
2 to 2 to 200 to 120 to	Bromodichloromethane
Lindane <0.05 ppb	Dibromochloromethane
Methoxychlor < 0.02 ppb	Bromoform
Toxaphene < 0.50 ppb	
2,4-D < 0.10 ppb	Total THM'S
2;4.5-TP (Silvex) <0.10 ppb	Washington and the control of the co

Form G=05/81

Bernard J. Grueza, Director Environmental Laboratory

# THE ARO COF ORATION

BUFFALO DIVISION 3695 BROADWAY, BUFFALO, N.Y. 14227



June 81

# ENVIRONMENTAL LABORATORY ANALYTICAL RESULTS

Customer Town of Friendship					·	
ARO Laboratory Number 20,147 W-307	S		Customer	P.O. #		
Date: Collected ? Rece	ived	5/29/8	81	Reported_	7/13/	81
Sampling Point/Description						
Attn: Mr. C. Wentworth			·			
Alkalinity 130 mg CaCO	/1.	(Al)	Aluminu	m		
Anionic Detergents (MBAS)	5-11-	(As)	Arsenic		0.006	ppm
Biochemical Oxygen		(Ba)	Barium -	<del> </del>	0.169	ppm
Demand (BOD <sub>5</sub> )		(Cd)	Cadmiun	n	< 0.001	ppm
Chemical Oxygen	<del></del>	(Cr)	Chromiu	m	< 0.001	ppm
Demand (COD)	4	(Cu)	Copper	<del></del>	0.301	ppm
Chiorides 21.5 ppm		(Fe)	Iron		< 0.001	ppm
Conductivity	, `	(Pb)	Lead		< 0.001	ppm
Cyanides		(Mg)	Magnesi			
Fluorides 0.113 pp	m	(Mn)	Mangane	se .	< 0.001	mqq
Hardness (153.mgCaCo	/L )	(Hg)	Mercury		< 0.0002	
Nitrogen, Ammonia		(K)	Potassiu	m		
Nitrogen, Total Kjeldahl	· · ·	(Se) .	Selenium	1	0.006	ppm
Nitrogen. Nitrates 0.10 ppm		(Ag)	Silver		∠0.001	ppm
Nitrogen. Nitrites	N.	(Na)	Sodium		30.6	ppm
Oil & Grease		(Zn)	Zinc		< 0.001	ppm
Phenols	<del></del>	Odor			· Mon	
rif (7.95)		-				
Phosphates (asp) 24:4 ppm		Color				IIni
Suifates219.mg/L		Corro	osivity	(LSI = -0.	33)-Corr	osivė
Total Dissolved Solids						,
Total Suspended Solids	<u> </u>	Triha	alomethan	es (THM's	<u>:)</u>	
Turbidity						
			coform			
Endrin ∠0.05 ppb	· ·		nodichlore			
indane $\angle 0.01$ pph			omochlor(	omethane_		
Methoxychlor < 0,02 ppb	<b></b>	Brom	oform			
Toxaphene \(\to 0.50 \) ppb	<u> </u>				_	
1, 4-D 1, 40.10 ppb		Total	THM'S_			
$(1.4.5-TP (Silvex)) \leq 0.10 ppb$						
			$\mathcal{I}$	11/		

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Bernard J. Gricza, Director Environmental Laboratory



# New York State Department of Environmental Conservation

#### MEHORANDUM

TO:

Messrs. Speed and Palumbo

FROM: Sunjecti Mr. King

Friendship Supply Division-Jones Chemical Inc.

Friendship (T), Allegany County, Fish Kill Investigations of 4/10x13/81

DATE: April 17, 1981

On April 10, 1981 Conservation Officer James Webb and the writer investigated a recorted fish kill in Van Campen Creek, Friendship (T), Allegany County. This investigation was in response to notification of the kill given to Officer Webb from a resident of Friendship via former Conservation Officer Buseniet. Prior to the writer's arrival on site, Mr. Gary Neuderfer of the Avon Pollution Investigation Unit had responded to the kill and departed. Preliminary investigation(s) were performed by Officer Webb on the morning of April 10, 1981.

At the time of the writer's investigation, approximately 500-1000 dead fish were present in the section of Van Campen Creek which flows through Friendship (H). The kill had apparently ended as no distressed fish were observed. The majority of dead fish were shiners and minnows up to approximately 3" in length. A limited number of dead suckers (up to 5"-6" in length) were also observed in the creek. Stream flows were carrying and distributing the dead fish downstream and were evident as far as the Rt. 19 bridge at Belvedere. Officer Webb estimated that the kill had occurred April 8th or 9th.

The fish kill appeared to have started at the confluence of Van Campen Creek and a drainage ditch which serves the Friendship Supply Division of Jones Chemical Inc. Water samples collected by Officer Webb on April 10 were tested in-field by Mr. Neuderfer with the following results obtained:

<u>S</u> a	mple Tocation (see attached sketch)	Free Chlorine	Total Chlorine
1.	Van Campen Creek; k mile downstream of drainage ditch mouth	0.0 mg/l	traœ
2.	Van Campen Creek; at mouth of drainage ditch	0.4 mg/l	0.7 mg/l (toxic to fish)
3.	Van Campen Creek; 50-100 vards upstream of mouth of drainage ditch	1.1 mg/l	0.0 mg/l

(A more detailed report of Mr. Meuderfer's findings and conclusions is forthcoming.)

## 6.0 ADEQUACY OF AVAILABLE DATA

For the purpose of developing a Hazard Ranking System Score, the existing data base for the Friendship Supply site is inadequate in the following respects:

- o There has been no recent analytical testing for substances of concern in the groundwater or soil at the site.
- O No onsite borings to the bedrock surface have been made.

  Other geologic data, such as soil permeability, have been estimated from information which is not considered highly reliable.
- The quantities of hazardous substances disposed of at the site are unknown. Therefore, a range of Sm values has been developed, and is presented on the Section 3.0 cover page. The single Sm value given represents what is felt to be the best estimate of the situation at the site.
- o Some data concerning the population served and the uses of surface water and groundwater have been estimated.

### 7.0 PROPOSED PHASE II WORK PLAN

# 7.1 Objectives

The objectives of the Phase II Field Investigation are to fill the data gaps identified in Section 6.0 of this report, in order to permit a complete site characterization/ranking (HRS score) and engineering evaluation of remedial alternatives. The field investigation includes the following items:

- o Subsurface Investigation
- o Monitoring Well Installation
- o Sampling and Analysis
- o Engineering Evaluation Report/HRS Score

Throughout the investigative effort, field activities will be performed in strict accordance with established safety protocol, as set forth by the New York State Department of Environmental Conservation.

### 7.2 Scope of Work

7.2.1 Subsurface Investigation - Presently, it is proposed that two (2) test borings be installed: One (1) north of the packaging plant (upgradient) and one (1) on the south of the site (downgradient). Both borings will penetrate 10 feet into bedrock.

All test borings will be performed under the direct supervision of a qualified geologist or hydrogeologist. The test borings will be drilled with a truck, trailer, and/or all-terrain-mounted auger rig using hollow stem augers. During construction of the test borings, split spoon samples will be continuously obtained. Also, if a confining layer is encountered, Shelby tube samples will be obtained to determine its undisturbed permeability.

1

The acquired samples will be visually identified in the field following the procedure set forth in ASTM-D-2488, noted appropriately on boring logs with the sample number and recorded standard penetration test results (ASTM-D-1586), and placed in pre-cleaned, teflon-lined, screw-cap jars for return to Recra Research Inc.'s laboratory in Tonawanda, New York

In order to avoid possible cross-contamination during construction of the test borings, the augers will be cleaned between test borings with water obtained from a known non-contaminated source. Also, between each split spoon sample, the split spoon will be cleaned with water, acetone and

distilled water. All spent water/acetone liquid accumulated during this process will be disposed of in an on-site drum. Prior to leaving the site, the drill rig will be decontaminated using high pressure water.

7.2.2 Monitoring Well Installation - It is proposed that three (3) monitoring wells be installed at the two locations at which bore holes were drilled. Two wells will terminate 5 feet below the encountered water table or at the top of bedrock, whichever comes first, while the deeper well in the well cluster the south side of the site will extend 10 feet into rock. Both shallow wells will be screened from immediately below the encountered water table to their termination, except for the deeper bedrock well, which will be screened from the top of bedrock to its termination. Wells will be located as follows: one (1) well each to the north of the packaging plant (upgradient), and one (1) well cluster south of the drainage ditch near Main Street (downgradient).

The monitoring wells will be constructed of two-inch

I.D. cast iron riser pipe with a galvanized,

wire-wound-wrapped steel screen. The annulars

between the casing/screen and boring well will be properly sand-packed and sealed (cement/bentonite and cement) to the ground surface and the well provided with a locking cap.

Upon completion of well construction, all monitoring wells will be properly developed, and all test borings and/or tops of well casing will be surveyed to determine their location and elevation above sea level. At that time, variable head tests will be performed on all wells around the site to estimate the on-site permeability of the screened interval. All field activity will be under the direct supervision of a qualified geologist and/or hydrogeologist.

7.2.3 Sampling and Analysis - The purpose of this task is to identify the magnitude and extent of groundwater and/or surface water contamination originating from the site, and to ascertain whether or not "hazardous substances" can be detected leaving the site.

Groundwater samples will be obtained from each of the monitoring wells. Following equilibrium of water levels within the installed wells, water elevations will be measured to determine the water

table surface. Representative groundwater samples will then be collected after the wells have been fully evacuated or a volume three times the well contents has been removed. Evacuation of water from the wells and the acquisition of the samples will be accomplished with an Isco Model 1580 peristaltic pump, using separate low-density polyethlene tubing for each well and changing the silicon rubber tubing within the Isco between wells. An exception to this procedure will be employed when obtaining the required volume of sample for volatile organic This will be accomplished using small volume galvanized steel bailers that have been designated for well. separately each Upon collection of the sample, field pH, temperature and conductivity measurements will be recorded. The samples will be placed in appropriate pre-cleaned labeled. bottles/septa vials, chilled and immediately returned to Recra's Tonawanda, New York laboratory for preservation and analyses of the parameters listed in Table 1. If the samples cannot be returned to Recra's laboratory in a timely fashion due to the distance between the site and Recra's laboratory, field preservation will be performed prior to chilling.

TABLE 1 ANALYTICAL PARAMETERS

Parameters	Surface Water	Groundwater
Number of Sample - This Site	2 .	3
pH	_	3
Specific Conductance		•
Chloride		•
Sulfate	•	•
Cyanide (Total)	•	•
Total Organic Carbon	•	•
Cadmium	*	0
Chromium (Total)	*	0
Chromium (Hexavalent)	*	0
Copper	*	0
Iron	*	0
Lead	*	. 0
Mercury	*	0
Nickel .	*	0
Silver	*	0
Zinc	*	0 .
Polychlorinated Biphenyls (PCB)	•	•
Volatite Organic Scan (VOS)	•	•
Halogenated Organic Scan (HOS) Dry Weight	•	•

#### 0 = Soluble Metals

\* = Total Metals

VOS is a screening procedure to identify the presence or absence of volatile chlorinated organic compounds Analyses are performed via purge and trap concentration, gas, liquid chromatography and an electrolytic conductivitydetector.

HOS is a screening procedure to identify the presence or absence of halogenated organics. Analyses are performed via solvent extraction concentration gas liquid chromatography and an electron capture detector.

It is presently proposed that two (2) surface water samples be obtained: one (1) upstream of the drainage ditch discharge point in Van Campen Creek, and one (2) downstream of that point. The samples will be obtained using a pond sampler with separate sampling bottles designated for each sampling location. The same procedure as previously described for groundwater will be followed after acquisition of the surface water samples.

Five (5) surface soil samples will be taken throughout the site in potentially contaminated areas. Samples will be obtained using either the drilling apparatus or hand augers. Separate sample bottles will be assigned to each sampling location.

The procedure to be utilized for analyses of all samples during this investigation are in basic accordance with one or more of the following texts:

- Methods for Chemical Analysis of Water and
Wastes, United States Environmental Protection
Agency,

- NIOSH Manual of Analytical Methods, 2nd Edition, United States Department of Health, Education and Welfare,

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- Standard Methods for the Examination of Water and Wastewater, 14th Edition, APHA, AWWA, WPCF.

All analytical work will be in conformance with the overall Quality Assurance Program previously submitted to Recra Research, Inc. to NYSDEC, entitled, Operation Manual - Field and Analytical Services".

- 7.2.4 Engineering Evaluation Report/HRS Score The purpose of this task is to compile all existing and newly-developed information concerning the site, and utilize this information to:
  - o Prepare a Hazard Ranking System (HRS) score for the site
  - o Preliminarily identify and evaluate feasible remedial alternatives at the site and prepare budget-level cost estimates for these alternatives

Close coordination with NYSDEC concerning this report is recognized as being essential, since it must be utilized by NYSDEC to prepare (in a short time frame) a State "Remedial Plan". Consequently, it is important that the format and contents of the report be clearly established early in the project. A Quality Control Committee will work closely with NYSDEC throughout the project to insure that this final report, and any other interim project outputs, are responsive to the Agency's needs.

# 7.3 Estimated Costs

The following are estimated costs to perform the Phase II Field Investigation outlined in the preceding section:

<u>Task</u>	Cost
Subsurface Investigation	\$ 3,210
Monitoring Well Installation	3,950
Sampling and Analysis	5,060
Report	5,170
TOTAL	\$17,390

### APPENDIX A

1

## DATA SOURCES AND REFERENCES

- 1. ARO Corporation, Analytical Results, July 13, 1981 and March 9, 1982.
- 2. H. L. Fairchild, "Geologic Story of the Genesee Valley and Western New York", Published by author, 1928.
- 3. I.H. Tesmer, "Geology of Cattaraugus County, New York", Buffalo Society of Natural Sciences, Bulletin No. 27, 1975.
- 4. M. H. Frimpter, "Groundwater Resources, Allegheny River Basin and Part of the Lake Erie Basin, New York", U.S.G.S., Basin Planning Report ARB-2, 1974.
- 5. NYSDOT, Boring logs for NYS Route 17 Expressway at Friendship, 1967.
- 6. J. Sawyer, Friendship Supply Co., Inc., Personal interview, August 26, 1983.
- 7. D. Wuerch, U.S. Weather Service, Telephone interview, August 23, 1983.

8. U.S. Dept. Commerce, National Climatic Center, "Climatic Atlas of the United States", 1979.

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- 9. U.S. Dept. Agriculture, Soil Conservation Service, "Soil Survey, Allegany County, New York", 1942.
- 10. S. Thomas, Allegany County Health Dept., Personal interview, August 26, 1983.
- 11. B. Hadsell, Friendship Dairy, Telephone interview, August 29, 1983.
- 12. B. Stockman, Friendship Town Clerk, Census data and personal interview, August 26, 1983.
- 13. F. Sinclair, Allegany County Soil and Water Conservation District,
  Telephone interview, August 25, 1983.
- 14. D. King, NYSDEC, Memorandum to R. Speed and J. Palumbo, NYSDEC, April 17, 1981.
- 15. U.S. Dept. Commerce, "Rainfall Frequency Atlas of the United States", Technical Paper No. 40, 1963.
- 16. NYSDEC, Map of wetlands in USGS Friendship and Belmont Quadrangles.
- 17. J. Snyder, NYSDEC, Telephone interview, July 27, 1983.

- 18. C. Janik, NYSDEC, Memorandum to file, June 4, 1981.
- 19. J. J. Spagnoli, NYSDEC, Order of Consent, File Number 81-48, July 27, 1981.
- 20. J. Bacon, USEPA, Notice of inspection, July 22, 1981.
- 21. Federal Emergency Management Agency, Preliminary "Flood Insurance Study, Town of Friendship, Allegany County, New York", 1983.

#### APPENDIX B

# HAZARDOUS WASTE DISPOSAL SITE REPORT

### REVISED

Code: A

Site Code: 902009

Name of Site: Friendship Supply Co., Inc. (Jones Chemicals, Inc.)

Region: 9

County: Allegany

<u>Town/City:</u> Friendship (T)

Street Address: Castle Garden Road

Status of Site: Active swimming pool chemical packaging plant. Past disposal practices were to discharge equipment wash waters to driveway adjacent to plant. Wastewaters then flowed to drainage ditch and eventually to Van Campen Creek. One discharge caused fishkill in 1981.

- o Site borders Hamlet of Friendship, residences within 500 feet.

  Site located on lower portion of steep slope near Conrail tracks
  and Southern Tier Expressway (Route 17).
- o Hamlet uses mainly local well field for water supply. Some private wells and surface water intakes downstream.
- o Soil type: Volusia soils and Chenango gravelly loam. Shale bedrock at approximately 35 foot depth.

Site Size: 9.25 acres

<u>Hazardous Waste Disposal?</u> Confirmed

Type and Quantity of Hazardous Wastes: Quantity unknown. Estimated to be approximately 2200 gallons over 18 years. Chemicals discharged in wastewaters include HCl,  $Cl_2$ , NaOH,  $NH_3$ , NaOCl

Present Owner: Friendship Supply Co., Inc.

Time Period Site Used: 1963 to 1981

<u>Site Status:</u> Active

Type of Samples: Field monitoring of chlorine levels

Remedial Action: None

Status of Legal Action: Conformed to Requirements of Consent Order by NYSDEC

Permits Issued: None

Assessment of Environmental Problems: Situation at present isquestionable since all chemicals released are not persistent. Discharge was ceased in 1981 when connection to sewer was made.

Assessment of Health Problems: None known.

<u>Persons Completing This Form:</u> C. Mark Hanna, (URS Co., Inc.) on behalf of Recra Research, Inc.

Date: September 6, 1983