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November 28, 1983

New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12232

Attention: Mr. Norman H. Nosenchuck, P.E.
Director - Division of Solid Waste

RE: PHASE I - PRELIMINARY INVESTIGATION OF THE GOLDEN ROAD DISPOSAL SITE

Dear Mr. Nosenchuck:

Attached, please find our Phase I - Preliminary Investigation of the above referenced site. These activities have been carried out under the New York State "Superfund" legislation.

Pertinent information regarding this site is summarized below.

Briefly, this phase of the study found that the Golden Road Disposal Site (site I.D. 8-28-021) is an 8-acre, inactive landfill located in a once-rural area of the Town of Chili, Monroe County, New York. The site is divided by Conrail railroad tracks into two separate areas, both of which lie immediately adjacent to designated wetlands and are characterized by poor drainage and a high water table.

The site was active from 1955 through 1976, receiving a wide variety of waste types which included U.S. Army artillery shells, household refuse, metal slag, flyash and junked vehicles. Much of the actual filling of the site was accomplished using foundry sand hauled from a local casting company. Approximately 300 rusted, leaking barrels are piled in several places, some of which are lying in the ponded water of the wetland. Chemical spillage is obvious on the soil surface.

Preliminary investigative work at the site has included the sampling and analysis of the barrels, surface waters, soil and pond sediments on-site, as well as the monitoring of local water wells. The results of this preliminary program have indicated that the organic chemicals deposited at the site have contaminated the soil on-site, adjacent surface waters and the groundwater beneath the site. The site has a potential to impact both public health and the surrounding environment. Although most of the population in the vicinity of the site is served by the Monroe County Water Authority, there are some residences that rely upon the groundwater as a primary or backup water source.

In compiling the hazard ranking score, the Golden Road Disposal Site was found to have a score for S_m equal to 14.5. However, because some route rating factors, due to data inadequacies, involve a certain degree of subjectivity a range for the S_m score was developed and found to be 10.0 to 15.0.

Remedial action suggested as appropriate to this site to be carried out in Phase II - Field Investigations is summarized in Section 7.0 of the attached report. The total cost of the proposed work is \$32,980.00.

Should you have any questions or require additional information, please feel free to contact me directly.

Sincerely,

RECRA RESEARCH, INC.

A handwritten signature in cursive script that reads "Richard L. Crouch". The signature is written in dark ink and is positioned below the company name.

Richard L. Crouch
Project Manager

GOLDEN ROAD DISPOSAL SITE

NEW YORK STATE SUPERFUND
PHASE I SUMMARY REPORT

FINAL

November 28, 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

GOLDEN ROAD DISPOSAL SITE

NEW YORK STATE SUPERFUND

PHASE I SUMMARY REPORT

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1.0 EXECUTIVE SUMMARY

The Golden Road Disposal Site is an 8-acre, inactive landfill located in a once-rural area of the Town of Chili, Monroe County, New York which is rapidly being developed for residential purposes. The site is divided by Conrail railroad tracks into two separate areas. Both of these disposal areas lie immediately adjacent to registered wetlands, and are characterized by poor drainage and a high water table. The relief of each disposal area is generally flat, the result of extensive landfilling which has elevated the site surface to approximately 10 feet above the surrounding terrain.

The site was active from 1955 through 1976, receiving a wide variety of waste types which included U.S. Army artillery shells, household refuse, metal slag, flyash and junked vehicles. Much of the actual filling of the site was accomplished using foundry sand hauled from a local casting company. Structural steel and large fuel storage tanks are scattered throughout the southern disposal area, which was also used for drum disposal. Approximately 300 rusted, leaking barrels are piled in several places, some of which are lying in the ponded water of the wetland. Chemical spillage is obvious on the soil surface.

This site has generated a great deal of interest in the agencies responsible for the environmental affairs of Monroe County. Preliminary investigative work has included the sampling and analysis of the barrels, surface waters, soil and pond sediments on-site, as well as the

monitoring of local water wells. The results of this preliminary program have indicated that the organic chemicals deposited at the site have contaminated the soil on-site, adjacent surface waters and the groundwater beneath the site.

The site has a potential to impact both public health and the surrounding environment. Although most of the population in the vicinity of the site is served by the Monroe County Water Authority, there are some residences that rely upon the groundwater as a primary or backup water source. In addition, three registered wetlands are down-gradient from the site, each with evident wildlife populations.

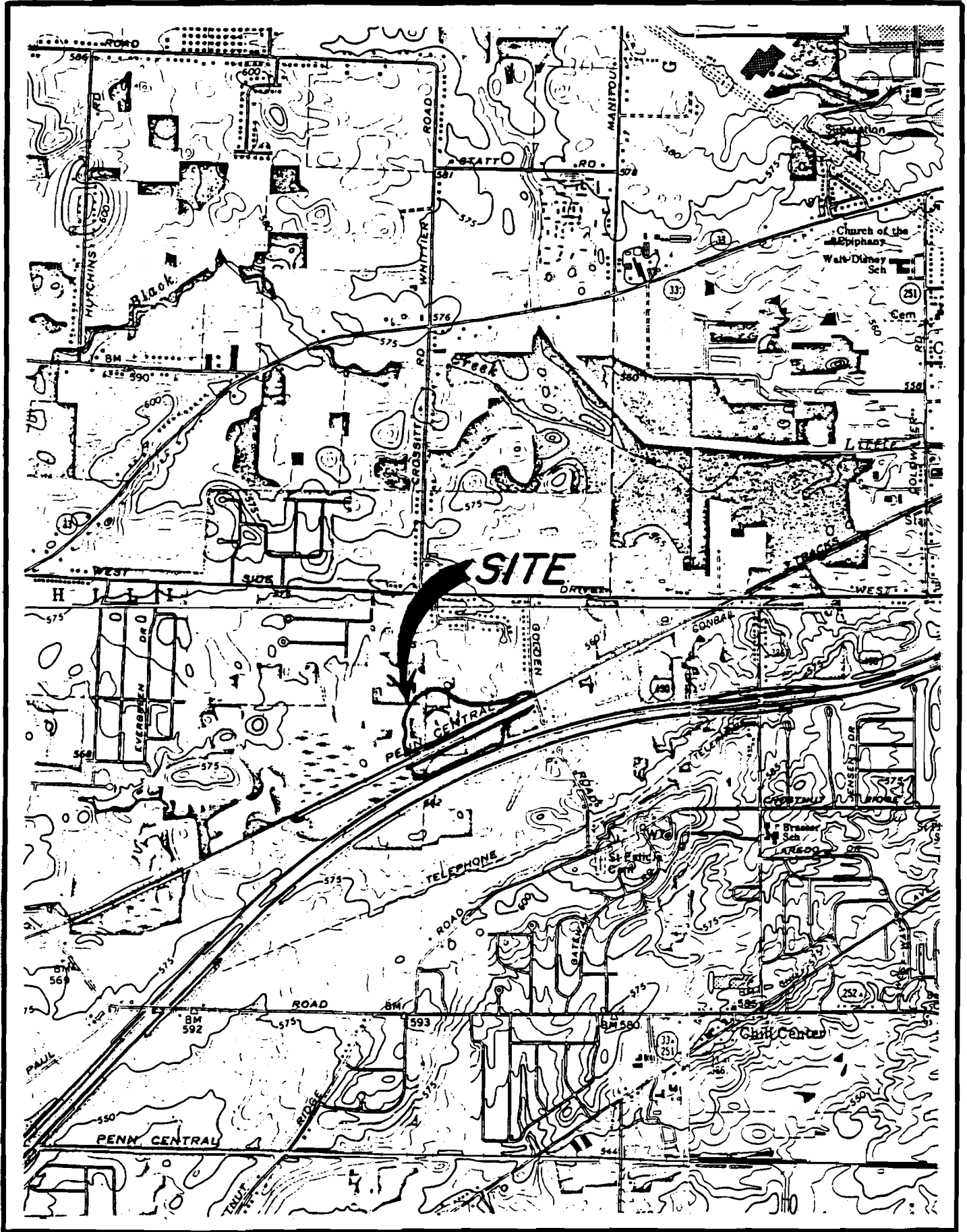
2.0 SITE DESCRIPTION

The Golden Road Disposal Site is located in the Town of Chili, Monroe County, New York (Figure 1). The site was operated from 1955 through 1976, during which it received solid wastes from a variety of sources in the Rochester area. The filling of the site was largely accomplished using foundry sand, but a great deal of structural steel, fuel tanks and barrels presently lie about the site (Figure 2). No records were kept concerning the volume of wastes entering the site. It is obvious upon inspection that a portion of the wetland area was filled during the operation of the site. Analytical testing has indicated that contamination of the associated water resources has occurred.

The owner of the site, Mr. Howard Fitzsimons, Jr., has been involved with the site throughout its use as a disposal site. He denies any responsibility for the barrels containing chemical wastes, but has acknowledged that some of the drums on site were placed there by a contractor building Route 490.

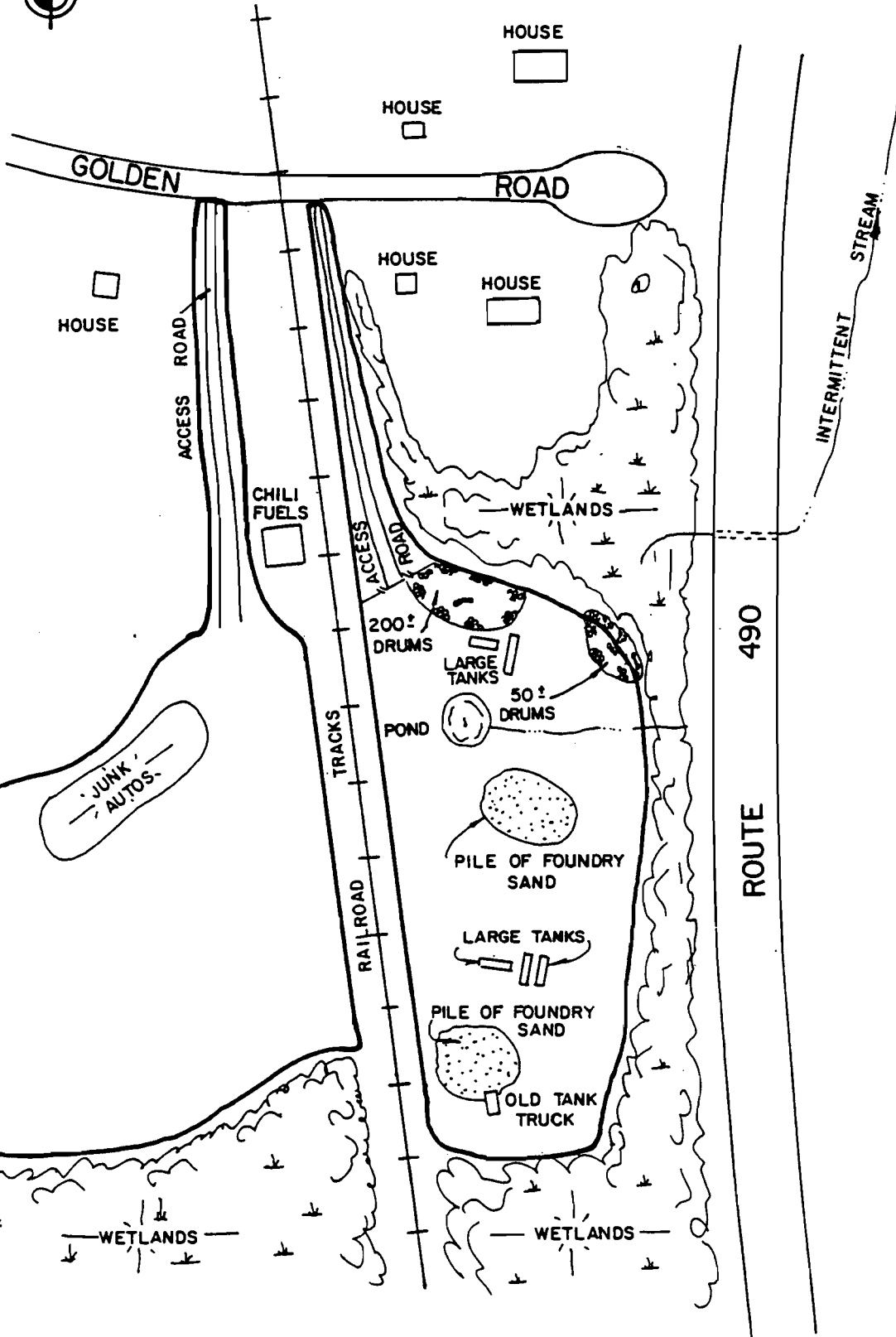
GOLDEN RD

DWG. NO. A-1469



VICINITY MAP
GOLDEN ROAD DISPOSAL SITE

FIGURE NO.1



DWG. NO. A-1470

SITE MAP
GOLDEN ROAD DISPOSAL SITE

FIGURE NO. 2

3.0 PRELIMINARY HAZARD RANKING SYSTEM SCORE

Facility Name: Golden Road Disposal Site

Location: Town of Chili, Monroe County, New York

EPA Region: 2

Person(s) in Charge of the Facility: Howard Fitzsimons, Jr.

227 Golden Pond

Chili, New York 14624

Name of Reviewer: Recra Research Date: 6/3/83

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.)

Inactive landfill site. Two disposal areas separated by railroad
tracks. Dumping of a variety of wastes, including barrels of
chemicals. Landfilling of wetland using foundry sand.

Scores: $S_M = 14.5$ ($S_{gw} = 24.5$ $S_{sw} = 5.0$ $S_a = 0$)

$S_{FE} = N/A$

$S_{DC} = 16.7$

Range for $S_M = 10^\circ - 15^\circ$

HRS COVER SHEET

GROUND WATER ROUTE WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 OBSERVED RELEASE	0 (45)	1	45	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 21.						
2 ROUTE CHARACTERISTICS					3.2	
Depth to Aquifer of Concern	0 1 2 (3)	2	6	6		
Net Precipitation	0 1 (2) 3	1	2	3		
Permeability of the Unsaturated Zone	0 1 (2) 3	1	2	3		
Physical State	0 1 2 (3)	1	3	3		
Total Route Characteristics Score			13	15		
3 CONTAINMENT	0 1 2 (3)	1	3	3	3.3	
4 WASTE CHARACTERISTICS					3.4	
Toxicity/Persistence	0 3 6 (9) 12 15 18	1	9	18		
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8		
Total Waste Characteristics Score			12	26		
5 TARGETS					3.5	
Ground Water Use	0 1 (2) 3	3	6	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 (20) 24 30 32 35 40	1	20	40		
Total Targets Score			26	49		
6	If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5		57,330		14040	
7	Divide line 6 by 57,330 and multiply by 100		$s_{gw} = 24.5$			

GROUNDWATER ROUTE WORK SHEET

SURFACE WATER ROUTE WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 OBSERVED RELEASE	0 (45)	1	45	45	4.1	
If observed release is given a value of 45, proceed to line 4 . If observed release is given a value of 0, proceed to line 21 .						
2 ROUTE CHARACTERISTICS					4.2	
Facility Slope and Intervening Terrain	0 1 2 (3)	1	3	3		
1-yr. 24-hr. Rainfall	0 (1) 2 3	1	1	3		
Distance to Nearest Surface Water	0 1 2 (3)	2	6	6		
Physical State	0 1 2 (3)	1	3	3		
Total Route Characteristics Score			13	15		
3 CONTAINMENT	0 1 2 (3)	1	3	3	4.3	
4 WASTE CHARACTERISTICS					4.4	
Toxicity/Persistence	0 3 6 (9) 12 15 18	1	9	18		
Hazardous Waste Quantity	0 1 2 (3) 4 5 6 7 8	1	3	8		
Total Waste Characteristics Score			12	26		
5 TARGETS					4.5	
Surface Water Use	(0) 1 2 3	3	0	9		
Distance to a Sensitive Environment	0 1 2 (3)	2	6	6		
Population Served/Distance to Water Intake Downstream	(0) 4 6 8 10 12 16 18 20 24 30 32 35 40	1	0	40		
Total Targets Score			6	55		
6 If line 1 is 45, multiply 1 x 4 x 5 If line 1 is 0, multiply 2 x 3 x 4 x 5				64,350	3,240	
7 Divide line 6 by 64,350 and multiply by 100			$S_{SW} = 5.0$			

SURFACE WATER ROUTE WORK SHEET

AIR ROUTE WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. Section	
1 OBSERVED RELEASE	(C) 45	:	0	45	5.2	
Date and Location:						
Sampling Protocol:						
If line 1 is 0, then $S_1 = 0$. Enter on line 5 . If line 1 is 45, then proceed to line 2 .						
2 WASTE CHARACTERISTICS					5.2	
Reactivity and Incompatibility	0 1 2 3	1		3		
Toxicity	0 1 2 3	3		9		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 TARGETS					5.3	
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30		
Distance to Sensitive Environment	0 1 2 3	2		6		
Land Use	0 1 2 3	1		3		
Total Targets Score				39		
4 Multiply 1 x 2 x 3				35,100		
5 Divide line 4 by 35,100 and multiply by 100				$S_1 = 0$		

AIR ROUTE WORK SHEET

	s	s ²
Groundwater Route Score (S _{gw})	24.5	600.3
Surface Water Route Score (S _{sw})	5.0	25.0
Air Route Score (S _a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		625.3
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		25.0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73$ (S _M)		14.5

WORK SHEET FOR COMPUTING S_M

FIRE AND EXPLOSION WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Containment:	1 3	1		3	7.1	
2 Waste Characteristics					7.2	
Direct Evidence	0 3	1		3		
Ignitability	0 1 2 3	1		3		
Reactivity	0 1 2 3	1		3		
Incompatibility	0 1 2 3	1		3		
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8		
Total Waste Characteristics Score				20		
3 Targets					7.3	
Distance to Nearest Population	0 1 2 3 4 5	1		5		
Distance to Nearest Building	0 1 2 3	1		3		
Distance to Sensitive Environment	0 1 2 3	1		3		
Land Use	0 1 2 3	1		3		
Population Within 2-Mile Radius	0 1 2 3 4 5	1		5		
Buildings Within 2-Mile Radius	0 1 2 3 4 5	1		5		
Total Target Score				24		
4 Multiply 1 x 2 x 3				1,440		
5 Divide line 5 by 1,440 and multiply by 100			SFE = N/A			

FIRE AND EXPLOSION WORK SHEET

DIRECT CONTACT WORK SHEET						
Rating Factor	Assigned Value (Circle One)	Multi- plier	Score	Max. Score	Ref. (Section)	
1 Observed Incident	0 45	1	0	45	8.1	
If line 1 is 45, proceed to line 4 If line 1 is 0, proceed to line 2						
2 Accessibility	0 1 2 3	1	3	3	8.2	
3 Containment	0 15	1	15	15	8.3	
4 Waste Characteristics Toxicity	0 1 2 3	5	10	15	8.4	
5 Targets					8.5	
Population within a 1-mile radius	0 1 2 3 4 5	4	8	20		
Distance to a critical habitat	0 1 2 3	4	0	12		
Total Targets Score			8	32		
6 If line 1 is 45, multiply 1 x 4 x 5						
If line 1 is 0, multiply 2 x 3 x 4 x 5			3600	21,600		
7 Divide line 6 by 21,600 and multiply by 100			SDC = 16.7			

DIRECT CONTACT WORK SHEET

3.1 Documentation Records for Hazard Ranking System

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: Golden Road Disposal Site

LOCATION: Town of Chili, Monroe County, New York

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

Copper (Ref. 1)
Zinc
Fluoride

Rationale for attributing the contaminants to the facility:

Disposal site located upgradient from contaminated wells

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

No significant aquifers and few active wells in area. Most groundwater flow is through weathered zone at bedrock surface. Deep wells often in hydraulic contact with overburden.

Aquifer of concern defined as overburden aquifer. (Ref. 2)

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

Depth to saturated zone estimated to be less than 20 feet.

No on-site data to confirm this; however, ponded water on site and adjacent to site. Site exists in wetland area.

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

Estimated to be < 10 feet

Net Precipitation

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

32.67 inches per year (Ref. 3)

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

26.0 inches per year (Ref. 4)

Net precipitation (subtract the above figures):

6.67 inches per year

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Surface soils are shallow muck

(poorly drained, gently sloping, often ponded for long periods)
(Ref. 5)

Permeability associated with soil type:

Well decomposed muck soils; rapid permeability
 10^{-3} to 10^{-5} cm/sec

Physical State

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

Liquids, sludges (Ref. 6)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Containers: drums leaking, no liner (Ref. 7)

Method with highest score:

See above

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

toluene (Ref. 6)
xylene

Compound with highest score:

Both of above: Combined Toxicity/Persistence score = 9.
multiply by 1.0 weighting factor:
 $9 \times 1.0 = 9$

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):

300+ barrels on site (Ref. 8)

Basis of estimating and/or computing waste quantity:

(Ref. 8)

5 TARGETS

Ground Water Use

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

Drinking water with alternate sources available (Ref. 9)

Distance to Nearest Well

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

227 Golden Road

Distance to above well or building:

400 feet

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:

Average 14.1 wells per square mile in Town of Chili (Ref. 10)
 $(9.4 \text{ sq. miles}) \times (14.1 \text{ wells/sq. mile}) \times (3.8 \text{ people/well}) = 504 \text{ people}$

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):

$300 \text{ acres} \times 1.5 = 450 \text{ people (Ref. 11)}$

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

$504 + 450 = 954 \text{ people}$

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

Cadmium (Ref. 12)

Benzene

Toluene

Rationale for attributing the contaminants to the facility:

Pond on site sampled

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Approximately 0% (estimated using USGS quad map)

Name/description of nearest downslope surface water:

Un-named pond with intermittent stream draining it.
Drains to wetland

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

Approximately 0% (estimated from USGS quad map)

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

Yes

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

2.0 inches (Ref. 13)

Distance to Nearest Downslope Surface Water

0 feet (pond is on site)

Physical State of Waste

Liquid, sludges (Ref. 6)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Containers: Drums leaking, no liner (Ref. 7)

Method with highest score:

See above

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

toluene (Ref. 6)
xylene

Compound with highest score:

Both of above: Combined Toxicity/Persistence score = 9
Multiply by 1.0 weighting factor:
 $9 \times 1.0 = 9$

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):

300+ barrels on site (Ref. 8)

Basis of estimating and/or computing waste quantity:

(Ref. 8)

* * *

5 TARGETS

Surface Water Use

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

No known water intakes in area (Ref. 14)

Is there tidal influence?

No

Distance to a Sensitive Environment

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

N/A

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

Site adjacent to designated Class II wetland (Ref. 15)

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

N/A

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 water intakes in area (Ref. 13)

0 people served

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

0 Acres (Ref. 11)

Total population served:

0 people

Name/description of nearest of above water bodies:

UN-named ponds and intermittent streams

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

Estimated to be 2-3 miles

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

No data

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:

N/A

Hazardous Waste Quantity

Total quantity of hazardous waste:

N/A

Basis of estimating and/or computing waste quantity:

N/A

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

N/A

Distance to a Sensitive Environment

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

N/A

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

N/A

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

N/A

Land Use

Distance to commercial/industrial area, if 1 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:

N/A

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

N/A

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

N/A

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

N/A

		POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 1 - SITE INFORMATION AND ASSESSMENT		I. IDENTIFICATION 01 STATE NY 02 SITE NUMBER 8-28-021	
II. SITE NAME AND LOCATION					
01 SITE NAME (Legal, common, or descriptive name of site) Golden Road Disposal Site			02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER Golden Road		
03 CITY Town of Chili		04 STATE NY	05 ZIP CODE 14624	06 COUNTY Monroe	07 COUNTY CODE
08 COORDINATES: LATITUDE 43 07 08.0		LONGITUDE 077 45 45.0			
10 DIRECTIONS TO SITE (Starting from nearest public road) Route 490 to Chili Center exit. Coldwater Road to West Side Drive to Golden Road. Access roads immediately adjacent to railroad tracks on west side of Golden Road.					
III. RESPONSIBLE PARTIES					
01 OWNER (if known) Howard Fitzsimons, Jr			02 STREET (Business, mailing, residential) 227 Golden Road		
03 CITY Chili (Town)		04 STATE NY	05 ZIP CODE 14624	06 TELEPHONE NUMBER (716) 594-2335	
07 OPERATOR (if known and different from owner) 			08 STREET (Business, mailing, residential) 		
09 CITY 		10 STATE 	11 ZIP CODE 	12 TELEPHONE NUMBER ()	
13 TYPE OF OWNERSHIP (Check one) <input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL: _____ (Agency name) <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER: _____ (Locality) <input type="checkbox"/> G. UNKNOWN					
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) <input type="checkbox"/> A. RCRA 3001 DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> B. UNCONTROLLED WASTE SITE (RCRA 106) DATE RECEIVED: _____ MONTH DAY YEAR <input type="checkbox"/> C. NONE					
IV. CHARACTERIZATION OF POTENTIAL HAZARD					
01 ON SITE INSPECTION <input checked="" type="checkbox"/> YES DATE 5, 3, 83 MONTH DAY YEAR <input type="checkbox"/> NO		02 BY (Check all that apply) <input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. STATE <input checked="" type="checkbox"/> D. OTHER CONTRACTOR <input type="checkbox"/> E. LOCAL HEALTH OFFICIAL <input type="checkbox"/> F. OTHER: _____ (Locality) CONTRACTOR NAME(S): Recra Research, INC			
02 SITE STATUS (Check one) <input type="checkbox"/> A. ACTIVE <input checked="" type="checkbox"/> B. INACTIVE <input type="checkbox"/> C. UNKNOWN		03 YEARS OF OPERATION BEGINNING YEAR 1955 ENDING YEAR 1976 <input type="checkbox"/> UNKNOWN			
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED toluene xylene					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION No liner, high water table, chemical spillage On-site soil, surface water and off-site groundwater contamination detected Drinking water wells used and surface waters drain to designated Class II wet land					
V. PRIORITY ASSESSMENT					
01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Constituents and Incidents) <input checked="" type="checkbox"/> A. HIGH (Immediate response required) <input type="checkbox"/> B. MEDIUM (Prompt response required) <input type="checkbox"/> C. LOW (Inspect on time available basis) <input type="checkbox"/> D. NONE (No further action needed, complete current disposition form)					
VI. INFORMATION AVAILABLE FROM					
01 CONTACT Rick Crouch		02 OF (Agency/Organization) Recra Research		03 TELEPHONE NUMBER (716) 838-6200	
04 PERSON RESPONSIBLE FOR ASSESSMENT C. Mark Hanna		05 AGENCY —	06 ORGANIZATION URS Co, Inc	07 TELEPHONE NUMBER (716) 883-5525	08 DATE 6, 3, 83 MONTH DAY YEAR



LI M, NOT APPLICABLE

NO. OF DPLMS 300+

-27-



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 8-28-021

HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 954

02 ☒ OBSERVED (DATE: 4/13/82)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Landfill unlined. Evidence of chemicals on soil surface.

Groundwater contamination detected.

Estimated number of well water users within 3 mile radius of site

01 ☒ B. SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: 0

02 ☒ OBSERVED (DATE: 5/12/82)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

No known uses of surface water. Drainage from site reaches
3 registered wetlands

01 ☐ C. CONTAMINATION OF AIR
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

UNKNOWN

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

UNKNOWN

01 ☒ E. DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED: 2100

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☒ POTENTIAL

☐ ALLEGED

NO HISTORICAL RECORD. HOWEVER, PAST REPORTS
INDICATE THAT WASTE MATERIALS ARE EASILY ACC-
ESSIBLE & NO ACCESS CONTROL EXISTS.

01 ☒ F. CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED: 8

02 ☒ OBSERVED (DATE: 5/12/82)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

Drums leaking, chemical spillage on soil obvious

01 ☐ G. DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

UNKNOWN

01 ☐ H. WORKER EXPOSURE/INJURY
03 WORKERS POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

11

01 ☐ I. POPULATION EXPOSURE/INJURY
03 POPULATION POTENTIALLY AFFECTED: _____

02 ☐ OBSERVED (DATE: _____)
04 NARRATIVE DESCRIPTION

☐ POTENTIAL

☐ ALLEGED

11



POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NY 8-028-021

HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ J. DAMAGE TO FLORA
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL ☐ ALLEGED

DAMAGE TO FLORA HAS NOT BEEN SPECIFICALLY
STATED. HOWEVER, THE POTENTIAL EXIST. BASED ON IN-
FORMATION STATING THAT WASTE WAS DUMPED ONTO THE
GROUND SURFACE.

☒ K. DAMAGE TO FAUNA
04 NARRATIVE DESCRIPTION (include names of species)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL ☐ ALLEGED

MAY BE AFFECTED BY PAST DUMPING ADJACENT TO WETLANDS.
WETLAND ANIMAL & PLANT POPULATION

01 ☐ L. CONTAMINATION OF FOOD CHAIN
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL ☐ ALLEGED

UNKNOWN

1 ☒ M. UNSTABLE CONTAINMENT OF WASTES
(leakage, rupture, or other containment failure)

02 ☐ OBSERVED (DATE: _____)

☒ POTENTIAL ☐ ALLEGED

03 POPULATION POTENTIALLY AFFECTED: _____

04 NARRATIVE DESCRIPTION

RECORDS INDICATE NO CONTAINMENT MEASURES
TAKEN.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL ☐ ALLEGED

UNKNOWN

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL ☐ ALLEGED

UNKNOWN

01 ☐ P. ILLEGAL UNAUTHORIZED DUMPING
04 NARRATIVE DESCRIPTION

02 ☐ OBSERVED (DATE: _____)

☐ POTENTIAL ☐ ALLEGED

N/A

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

12. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION

NYS DEC Region 8, Census Data
SITE INSPECTION ED YURKSTAS MONROE CTY HEALTH DEPT

3.3 EPA Site Inspection Report (Form 2070-13)

EPA		POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 1 - SITE LOCATION AND INSPECTION INFORMATION			I. IDENTIFICATION	
01 SITE NAME, IL eqn. description, or descriptive name of site		02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER			01 STATE	02 SITE NUMBER
Golden Road Disposal Site		Golden Road			NY	020-021
03 CITY		04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 US LOTS DIST.
Town of Chili		NY	14624	Monroe		
09 COORDINATES		10 TYPE OF OWNERSHIP (Check one)				
LATITUDE 43 07 08.0		<input checked="" type="checkbox"/> A. PRIVATE <input type="checkbox"/> B. FEDERAL <input type="checkbox"/> C. STATE <input type="checkbox"/> D. COUNTY <input type="checkbox"/> E. MUNICIPAL <input type="checkbox"/> F. OTHER				
LONGITUDE 077 45 45.0						
III. INSPECTION INFORMATION						
01 DATE OF INSPECTION		02 SITE STATUS		03 YEARS OF OPERATION		
5, 3, 83 MONTH DAY YEAR		<input type="checkbox"/> ACTIVE <input checked="" type="checkbox"/> INACTIVE		1955 1976 BEGINNING YEAR ENDING YEAR		
04 AGENCY PERFORMING INSPECTION (Check all that apply)						
<input type="checkbox"/> A. EPA <input type="checkbox"/> B. EPA CONTRACTOR <input type="checkbox"/> C. MUNICIPAL <input type="checkbox"/> D. MUNICIPAL CONTRACTOR <input type="checkbox"/> E. STATE <input checked="" type="checkbox"/> F. STATE CONTRACTOR <u>Recra Research</u> <input type="checkbox"/> G. OTHER _____						
05 CHIEF INSPECTOR		06 TITLE		07 ORGANIZATION		08 TELEPHONE NO.
Daniel W. Rothman		Principal Engineer		URS Co Inc		(716) 883-5525
09 OTHER INSPECTORS		10 TITLE		11 ORGANIZATION		12 TRF, FORM NO.
C. Mark Hanna		Project Engineer		URS Co Inc		(716) 883-5525
						()
						()
						()
						()
13 SITE REPRESENTATIVES INTERVIEWED		14 TITLE		15 ADDRESS		16 TELEPHONE NO.
NONE						()
						()
						()
						()
						()
						()
						()
17 ACCESS GAINED BY (Check one)		18 TIME OF INSPECTION		19 WEATHER CONDITIONS		
<input checked="" type="checkbox"/> PERMISSION <input type="checkbox"/> WARRANT		8:30 AM		55° F, overcast, calm		
IV. INFORMATION AVAILABLE FROM						
01 CONTACT		02 OF (Agency/Organization)			03 TELEPHONE NO.	
Rick Crouch		Recra Research			(716) 838-6200	
04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM		05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE	
Daniel W. Rothman		-	URS Co Inc	716-883-5525	6, 3, 83 MONTH DAY YEAR	



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 0-26-021

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☒ A. GROUNDWATER CONTAMINATION 02 ☒ OBSERVED (DATE: 4/13/82) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 954 04 NARRATIVE DESCRIPTION
Landfill unlined. Evidence of chemicals on soil surface.
Groundwater contamination detected.
Estimated number of well water users within 3 mile radius of site

01 ☒ B. SURFACE WATER CONTAMINATION 02 ☒ OBSERVED (DATE: 5/12/82) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION
No known use of surface water. Drainage from site enters
3 registered wetlands

01 ☐ C. CONTAMINATION OF AIR 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 11 04 NARRATIVE DESCRIPTION

01 ☒ E. DIRECT CONTACT 02 ☐ OBSERVED (DATE:) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 7/00 04 NARRATIVE DESCRIPTION
SITE IS EASILY ACCESSIBLE. NO ACCESS
CONTROL MEASURES

01 ☒ F. CONTAMINATION OF SOIL 02 ☐ OBSERVED (DATE: 5/12/82) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 8 04 NARRATIVE DESCRIPTION
Drums leaking, chemical spillage on soil obvious

01 ☐ G. DRINKING WATER CONTAMINATION 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: UNKNOWN 04 NARRATIVE DESCRIPTION

01 ☐ H. WORKER EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 11 04 NARRATIVE DESCRIPTION

01 ☐ I. POPULATION EXPOSURE/INJURY 02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 11 04 NARRATIVE DESCRIPTION



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

I. IDENTIFICATION
01 STATE 02 SITE NUMBER
NY 8-28-021

HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

01 ☒ J. DAMAGE TO FLORA 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

FLORA IN WETLANDS MAY BE AFFECTED AS A
RESULT OF PAST DUMPING ACTIVITIES.

01 ☒ K. DAMAGE TO FAUNA 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include Animal of Concern if)

II

01 ☐ L. CONTAMINATION OF FOOD CHAIN 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☒ M. UNSTABLE CONTAINMENT OF WASTES 02 ☒ OBSERVED (DATE: 5-3-82) ☒ POTENTIAL ☐ ALLEGED
(Spills/Leaks/Standing liquids, Leaking drums)

03 POPULATION POTENTIALLY AFFECTED: ~20

04 NARRATIVE DESCRIPTION:

NO CONTAINMENT OF WASTE PRACTICES
DRUMS LEAKING, CHEMICAL SPILLAGE ON SOIL

01 ☐ N. DAMAGE TO OFFSITE PROPERTY 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

UNKNOWN

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION:

II

01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

II

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

NONE KNOWN

III. TOTAL POPULATION POTENTIALLY AFFECTED: _____

IV. COMMENTS

V. SOURCES OF INFORMATION (Cite specific references, e.g., State files, Sample analysis, Reports)

NYSDEC Region 8, Census Data



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 8-28-021

II. PERMIT INFORMATION

01 TYPE OF PERMIT ISSUED (Check all that apply)	02 PERMIT NUMBER	03 DATE ISSUED	04 EXPIRATION DATE	05 COMMENTS
<input type="checkbox"/> A. NPDES				
<input type="checkbox"/> B. UIC				
<input type="checkbox"/> C. AIR				
<input type="checkbox"/> D. RCRA				
<input type="checkbox"/> E. RCRA INTERIM STATUS				
<input type="checkbox"/> F. SPCC PLAN				
<input type="checkbox"/> G. STATE (Specify)				
<input type="checkbox"/> H. LOCAL (Specify)				
<input type="checkbox"/> I. OTHER (Specify)				
<input checked="" type="checkbox"/> J. NONE				

III. SITE DESCRIPTION

01 STORAGE/DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE	04 TREATMENT (Check all that apply)	05 OTHER
<input type="checkbox"/> A. SURFACE IMPOUNDMENT			<input type="checkbox"/> A. INCINERATION	<input type="checkbox"/> A. BUILDINGS ON SITE
<input type="checkbox"/> B. PILES			<input type="checkbox"/> B. UNDERGROUND INJECTION	
<input checked="" type="checkbox"/> C. DRUMS, ABOVE GROUND	≈ 300	DRUMS	<input type="checkbox"/> C. CHEMICAL/PHYSICAL	
<input type="checkbox"/> D. TANK, ABOVE GROUND			<input type="checkbox"/> D. BIOLOGICAL	
<input type="checkbox"/> E. TANK, BELOW GROUND			<input type="checkbox"/> E. WASTE OIL PROCESSING	
<input checked="" type="checkbox"/> F. LANDFILL	≈ 15	TONS	<input type="checkbox"/> F. SOLVENT RECOVERY	06 AREA OF SITE
<input type="checkbox"/> G. LANDFARM			<input type="checkbox"/> G. OTHER RECYCLING/RECOVERY	8 (Acres)
<input type="checkbox"/> H. OPEN DUMP			<input type="checkbox"/> H. OTHER (Specify)	
<input type="checkbox"/> I. OTHER (Specify)				

07 COMMENTS

IV. CONTAINMENT

01 CONTAINMENT OF WASTES (Check one)

☐ A. ADEQUATE, SECURE ☐ B. MODERATE ☐ C. INADEQUATE, POOR ☒ D. INSECURE, UNSOUND, DANGEROUS

02 DESCRIPTION OF DRUMS, DIKING, LINERS, BARRIERS, ETC.

No liners, drums rusted and leaking, landfilled into wetland

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE: ☒ YES ☐ NO

02 COMMENTS

VI. SOURCES OF INFORMATION (Check all that apply)

NYSDEC Region 8



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 18-28-021

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY
(Check as applicable)

SURFACE WELL
COMMUNITY A ☒ B ☐
NON-COMMUNITY C ☐ D ☒

02 STATUS

ENDANGERED AFFECTED MONITORED
A ☐ B ☐ C ☐
D ☐ E ☐ F ☐

03 DISTANCE TO SITE

A _____ (mi)
B _____ (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☐ A. ONLY SOURCE FOR DRINKING ☒ B. DRINKING
(Other sources available)
☐ C. COMMERCIAL, INDUSTRIAL, IRRIGATION
(Limited other sources available) ☐ D. NOT USED, UNUSABLE

02 POPULATION SERVED BY GROUND WATER 954

03 DISTANCE TO NEAREST DRINKING WATER WELL 0.01 (mi)

04 DEPTH TO GROUNDWATER
10 (ft)

05 DIRECTION OF GROUNDWATER FLOW
North

06 DEPTH TO AQUIFER OF CONCERN
10 (ft)

07 POTENTIAL YIELD OF AQUIFER
(gpd)

08 SOLE SOURCE AQUIFER
☐ YES ☒ NO

09 DESCRIPTION OF WELLS (including depths, depths, and location relative to population and buildings)

Both dug and drilled wells, used for residential purposes

10 RECHARGE AREA

☐ YES COMMENTS
☒ NO

11 DISCHARGE AREA

☒ YES COMMENTS
☐ NO

IV. SURFACE WATER

01 SURFACE WATER USE (Check one)

☐ A. RESERVOIR, RECREATION, DRINKING WATER SOURCE
☐ B. IRRIGATION, ECONOMICALLY IMPORTANT RESOURCES
☐ C. COMMERCIAL, INDUSTRIAL
☒ D. NOT CURRENTLY USED

02 AFFECTED/POTENTIALLY AFFECTED BODIES OF WATER

NAME:

AFFECTED

DISTANCE TO SITE

Un-named ponds and intermittent streams ☒ 0 (mi)
☐
☐

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN

ONE (1) MILE OF SITE TWO (2) MILES OF SITE THREE (3) MILES OF SITE
A. 500 B. 2,500 C. 10,000
NO. OF PERSONS NO. OF PERSONS NO. OF PERSONS

02 DISTANCE TO NEAREST POPULATION

0.01 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE

750-1000

04 DISTANCE TO NEAREST OFF-SITE BUILDING

0.01 (mi)

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

Rapidly developing area



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

NV 0-28-021

VI. ENVIRONMENTAL INFORMATION

01 PERMEABILITY OF UNSATURATED ZONE (Check one)

☐ A. $10^{-6} - 10^{-8}$ cm/sec ☐ B. $10^{-4} - 10^{-6}$ cm/sec ☒ C. $10^{-4} - 10^{-3}$ cm/sec ☐ D. GREATER THAN 10^{-3} cm/sec

02 PERMEABILITY OF BEDROCK (Check one)

☐ A. IMPERMEABLE
(Less than 10^{-6} cm/sec)
☒ B. RELATIVELY IMPERMEABLE
($10^{-6} - 10^{-5}$ cm/sec)
☐ C. RELATIVELY PERMEABLE
($10^{-5} - 10^{-3}$ cm/sec)
☐ D. VERY PERMEABLE
(Greater than 10^{-3} cm/sec)

03 DEPTH TO BEDROCK

10

(ft)

04 DEPTH OF CONTAMINATED SOIL ZONE

—

(ft)

05 SOIL pH

—

06 NET PRECIPITATION

6.7

(in)

07 ONE YEAR 24 HOUR RAINFALL

2.0

(in)

08 SLOPE

SITE SLOPE

0-1%

DIRECTION OF SITE SLOPE

—

TERRAIN AVERAGE SLOPE

0-3%

09 FLOOD POTENTIAL

10

SITE IS IN _____ YEAR FLOODPLAIN

☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY

11 DISTANCE TO WETLANDS (if any)

ESTUARINE

OTHER

A. _____ (mi)

B. 0 (mi)

12 DISTANCE TO CRITICAL HABITAT (if endangered species)

NONE (mi)

ENDANGERED SPECIES: _____

13 LAND USE IN VICINITY

DISTANCE TO:

COMMERCIAL/INDUSTRIAL

RESIDENTIAL AREAS, NATIONAL/STATE PARKS,
FORESTS, OR WILDLIFE RESERVES

AGRICULTURAL LANDS
PRIME AG LAND AG LAND

A. _____ (mi)

B. 0.01 (mi)

C. _____ (mi)

D. _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

Filled area approximately 10 feet higher than wetland
THE RELIEF OF THE SITE IS QUITE FLAT, WITH
MAJOR TOPOGRAPHICAL VARIATIONS RESULTING
FROM FILLING OF AREAS.

VII. SOURCES OF INFORMATION (See source references, e.g., state files, satellite images, reports)

NYSDOC Region 8, U.S. Weather Service



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

II. SAMPLES TAKEN

SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO	03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER	2	Monroe County Dept. of Health	Now
SURFACE WATER	3	NYSDEC	Now
WASTE	13	Monroe County Dept. of Health	Now
AIR			
RUNOFF			
SPILL			
SOIL	2	NYSDEC	Now
VEGETATION			
OTHER Sediments	2	NYSDEC	Now

III. FIELD MEASUREMENTS TAKEN

01 TYPE	02 COMMENTS
	NONE TAKEN AT SITE
	INSPECTION

IV. PHOTOGRAPHS AND MAPS

01 TYPE <input type="checkbox"/> GROUND <input checked="" type="checkbox"/> AERIAL	02 IN CUSTODY OF <u>MONROE COUNTY ENVIRONMENTAL MANAGEMENT COUNCIL</u> <small>(Name of organization or individual)</small>
03 MAPS <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	04 LOCATION OF MAPS _____

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

VI. SOURCES OF INFORMATION (Cite specific references, e.g., 2000 PWS, 2000 ANALYSIS, RECORDS)

NYSDEC Region 8, Monroe County Environmental Management Council,



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 7 - OWNER INFORMATION

IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

I. CURRENT OWNER(S)				PARENT COMPANY (if applicable)			
01 NAME		02 D+B NUMBER		03 NAME		04 D+B NUMBER	
Howard Fitzsimons Jr							
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
227 Golden Road							
06 CITY		08 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
Chili		NY 14624					
01 NAME		02 D+B NUMBER		03 NAME		04 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D+B NUMBER		03 NAME		04 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
01 NAME		02 D+B NUMBER		03 NAME		04 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		10 STREET ADDRESS (P.O. Box, RFD #, etc.)		11 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		12 CITY		13 STATE 14 ZIP CODE	
II. PREVIOUS OWNER(S) (List immediately preceding owner)				IV. REALTY OWNER(S) (If applicable, list most recent first)			
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		05 CITY		08 STATE 07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		05 CITY		08 STATE 07 ZIP CODE	
01 NAME		02 D+B NUMBER		01 NAME		02 D+B NUMBER	
05 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	
06 CITY		08 STATE 07 ZIP CODE		05 CITY		08 STATE 07 ZIP CODE	

V. SOURCES OF INFORMATION (List sources referenced, e.g., EPA files, owner analysis, records)

NYS DEC Region 8



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

II. CURRENT OPERATOR (Provide if different from owner)				OPERATOR'S PARENT COMPANY (if applicable)			
01 NAME NONE		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER					
III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)				PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)			
01 NAME HOWARD FITZSIMMONS		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.) 227 GOLDEN RD		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY CHILI		06 STATE NY	07 ZIP CODE 14624	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
01 NAME		02 D+B NUMBER		10 NAME		11 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE		12 STREET ADDRESS (P.O. Box, RFD #, etc.)		13 SIC CODE	
05 CITY		06 STATE	07 ZIP CODE	14 CITY		15 STATE	16 ZIP CODE
08 YEARS OF OPERATION		09 NAME OF OWNER DURING THIS PERIOD					
IV. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)							
NYSDEC Region 8							



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

II. ON-SITE GENERATOR

01 NAME None	02 D+B NUMBER	
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	
05 CITY	06 STATE 07 ZIP CODE	

III. OFF-SITE GENERATOR(S)

01 NAME See below	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

IV. TRANSPORTER(S)

01 NAME See below	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE
01 NAME	02 D+B NUMBER	01 NAME	02 D+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
05 CITY	06 STATE 07 ZIP CODE	05 CITY	06 STATE 07 ZIP CODE

V. SOURCES OF INFORMATION (City specific references, e.g., 2000 AHS, 2000 AHS, 2000 AHS, 2000 AHS)

Note: This site was used by a variety of haulers and generators. Foundry Sand originated from Abex Corporation in Rochester and fly ash from Univ. of Rochester.

NYSOEC Region 8



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

I. IDENTIFICATION

01 STATE NY 02 SITE NUMBER 8-28-021

II. PAST RESPONSE ACTIVITIES

01 ☒ A. WATER SUPPLY CLOSED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

NO ACTION OF THIS NATURE TAKEN

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ D. SPILLED MATERIAL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ E. CONTAMINATED SOIL REMOVED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ F. WASTE REPACKAGED
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ G. WASTE DISPOSED ELSEWHERE
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ H. ON SITE BURIAL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ I. IN SITU CHEMICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ J. IN SITU BIOLOGICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ K. IN SITU PHYSICAL TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ L. ENCAPSULATION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ M. EMERGENCY WASTE TREATMENT
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ N. CUTOFF WALLS
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ O. EMERGENCY DIKING/SURFACE WATER DIVERSION
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ P. CUTOFF TRENCHES/SUMP
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11

01 ☐ Q. SUBSURFACE CUTOFF WALL
04 DESCRIPTION

02 DATE _____

03 AGENCY _____

11



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

II. PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R. BARRIER WALLS CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

NO ACTION OF THIS NATURE TAKEN

01 ☐ S. CAPPING/COVERING
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ T. BULK TANKAGE REPAIRED
04 DESCRIPTION

02 DATE

03 AGENCY

N/A

11

01 ☐ U. GROUT CURTAIN CONSTRUCTED
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ V. BOTTOM SEALED
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ W. GAS CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ X. FIRE CONTROL
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ Y. LEACHATE TREATMENT
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ Z. AREA EVACUATED
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ 1. ACCESS TO SITE RESTRICTED
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ 2. POPULATION RELOCATED
04 DESCRIPTION

02 DATE

03 AGENCY

11

01 ☐ 3. OTHER REMEDIAL ACTIVITIES
04 DESCRIPTION

02 DATE

03 AGENCY

11

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



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

I. IDENTIFICATION

01 STATE 02 SITE NUMBER
NY 8-28-021

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☒ YES ☐ NO

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

NYSDEC Region 8 directed owner to stop dumping into wetland area

NYSDEC REGION 8 INFORMED OWNER OF VIOLATIONS OF 6 NYCRR PT 360 DURING 1981

HAULER OF FLYASH & FOUNDRY SAND CITED BY NYSDEC FOR LACK OF PART 364 PERMIT

III. SOURCES OF INFORMATION (Cite specific references, e.g., state files, agency analyses, reports)

NYSDEC Region 8

4.0 SITE HISTORY

According to Mr. Howard J. Fitzsimons, Jr., owner of the Golden Road disposal site, the approval to begin dumping wastes at this site was obtained in 1955 from former Chili Town Supervisor George Lusk (Ref. 16). Aerial photos taken during 1951 support his contention, since no dumping or filling activities were evident before that time (Ref. 17).

During the years 1958 through 1961, the construction of Route 490 was underway adjacent to the disposal site. Turner Construction Company, which worked on this highway for the New York State Department of Transportation, placed many barrels on this site which were subsequently used by the owner to store tar removed from large fuel tanks also located on the site (Ref. 16). During this early period of activity, Captain Ronald Yox of the United States Army Reserve in Rochester also delivered refuse to the site. Included in these loads were barrels of dried paints, artillery shells and scrap metal (Ref. 16). It is assumed that the materials listed above were disposed of in the northern area of the site, since aerial photos taken during May of 1961 show no activity occurring south of the Conrail tracks (formerly the Penn Central Railroad), while dumping was obvious to the north.

By 1970, aerial photos provided evidence of surface disturbance in the north area, but no actual dumping or filling activities. Various junked vehicles were located about the area. To the south of the railroad tracks, active dumping had begun. This area was inspected by

Mr. Ed Yurkstas of the Monroe County Health Department. He reported observing the open dumping of household refuse, metal slag, flyash and barrels. The site owner has denied any responsibility for these barrels, some of which reportedly appeared from an unknown origin in 1974.

During 1974, Mr. Fitzsimons obtained a contract from the Abex Corporation, a local casting facility, to allow the dumping of foundry sand containing metal slag (Ref. 16). This contract was sold to Mr. William Statt, the owner of a construction company, who began to transport the foundry sand. Mr. Statt also transported flyash from the University of Rochester for disposal at the Golden Road site (Ref. 18).

According to Mr. Fitzsimons, 1974 was the last year that refuse wastes were dumped at the site; however, the aerial photos taken during 1975 indicate that dumping may have been occurring in both the north and south areas at that time. In fact, in the south area materials were being dumped directly into ponded water. Mr. Fitzsimons was directed by the NYSDEC to stop dumping into the wetlands adjacent to the site (Ref 19). As a result, he filed a lawsuit against the state in an attempt obtain permission to continue the wetland dumping; however, by 1976 the filling practices in this area were stopped (Ref. 16).

This site was brought to the attention of the Monroe County Landfill Review Committee by Lt. Burton Verhay of the Monroe County Sheriff's Department. Lt. Verhay had found the site during an investigation in the area (Ref. 18). On May 21, 1981 Frank Shattuck, the NYSDEC

Regional Solid Waste Engineer, sent Mr. Fitzsimons a letter informing him of several violations of the 6NYCRR Part 360 regulations at this site, including operating the site without a permit. He was ordered to cease landfilling operations (Ref. 20). Subsequently, Mr. Statt was cited for hauling the flyash and foundry sand without a Part 364 permit, and was advised to stop the dumping (Ref. 18). Finally, the Monroe County Health Department and the NYSDEC began taking samples of the surface waters, waterway sediments, contents of barrels and close-proximity well water early in 1982 (Ref. 6, 11).

5.0 SITE DATA

5.1 Site Area Surface Features

5.1.1 Topography and Drainage - As previously mentioned, this disposal site is comprised of two areas separated from each other by Conrail railroad tracks which run in an east-west direction. Both of these disposal areas lie directly adjacent to large wetlands areas. The relief of the site is quite flat (natural slopes are near 0%), with the major topographical variations resulting from the filling of the areas.

During wet seasons, the south disposal area is bordered to the south and west by ponded water, while the north area also has ponded water to the west. Surface drainage from the north area appears to be into the wetland to the west. An intermittent stream flows from the pond adjacent to the south area eastward along Route 490 for a short distance, eventually reaching a pair of ponds along the railroad tracks (Figure 1). The on-site pond also drains to this stream. The ponds along the tracks, which were former borrow pits used during the

construction of the highway, are part of another wetlands area.

It should be noted that the levels of several metals, including cadmium and lead, are significantly higher than the National Drinking Water Standards. Although the surface waters draining from the site are not known to be used for drinking water purposes, they do flow into the protected wetlands, and may be capable of affecting the natural environment there.

5.1.2 Environmental Setting - The Golden Road Disposal

Site is located directly adjacent to designated Class II wetland areas (CI-2-II and CI-3-II). In addition, the water which drains from the site eventually reaches the registered wetland CI-27-II adjacent to the railroad tracks. There are no critical habitats of endangered species located in the vicinity of the disposal area (Ref. 21), nor does the site lie within any 100-year flood boundaries, as designated by the Federal Emergency Management Agency (Ref. 22).

5.2 Site Hydrogeology

5.2.1 Geology - Bedrock underlying the Golden Road Site is the Camillus Shale of the Salina Group and is Silurian in age. This unit consists mainly of gray shale; however, considerable amounts of gray limestone and dolostone are found interbedded in the unit. Gypsum and anhydrite are present within the shale beds and many occurrences are found to be up to five (5) feet thick. Overall thickness of the Camillus Shale formation is approximately 400 feet. Regional dip of the bedrock is to the south at approximately 0.5°. The site is unconformably overlain by unconsolidated Pleistocene deposits.

5.2.2 Soils - The primary surficial soil found within the boundaries of the disposal site is shallow muck. Muck soils are characteristically very poorly drained, organic soils which developed in depressions. These soils are generally level, have a high seasonal water table and are often ponded for long periods of time. Permeability can be quite rapid in well-decomposed muck. No soil borings have been performed on-site, so a representative soil profile cannot be presented.

5.2.3 Groundwater - The general flow of groundwater in Monroe County is thought to be in a northward direction towards Lake Ontario. However, groundwater flow direction may vary depending on site geologic and hydrogeologic conditions.

Groundwater in the site vicinity may be transmitted through the unconsolidated overburden material and bedrock. As mentioned earlier, the bedrock underlying the site is the Camillus Shale. This formation is a water bearing unit with large reservoirs resulting from the dissolution of gypsum. However, water obtained from this formation is reported to have naturally occurring hydrogen sulfide.

Most of the productive wells in the county draw from the weathered zone which occurs at the interface of bedrock and the overlying glacial deposits.

5.3 Previous Sampling and Analyses

5.3.1 Groundwater Quality Data - A preliminary sampling and analysis program for the site was conducted during 1982 by the Monroe County Health Department and the NYSDEC. Samples were taken from barrels, soil, surface waters and local groundwater wells. Well water samples were analyzed for conventional parameters, as well as for metals and some other compounds. The tables on pages 52 through 54 provide the information available on these tests.

5.3.2 Surface Water/Stream Sediment Data - As mentioned in the previous section of this report, a preliminary site sampling and analysis program was initiated, which included the sampling of adjacent and on-site surface waters and sediments. The data obtained for these samples is presented on pages 55 and 56.

5.3.3 Air Quality Data - There has been no sampling of the atmosphere related to the release of chemical contaminants from this site as of May 3, 1983.

5.3.4 Other Analytical Data - As previously mentioned in

this section on past analytical results, surface water (ponds) sediments and site soils have been sampled as part of a preliminary site investigation program. The analytical results are presented in the tables on pages 55 and 56. In addition, samples of the barrels stored on site were obtained and analyzed by the Monroe County Health Department. These results are indicated in the tables on pages 57 through 59.

MEMORANDUM

DATE May 5, 1982

Richard S. Burton *RSB*

Dr. Steadman

Private Well Water Samples - 4/26/82

#45977B

Total Solids - 6.3 mg per 100 ml

Major Elements: Na, Mg, Ca

Minor Elements: Si, Al

Trace Elements: Cu, B, Fe

Not Detected: Pb, Cd, Cr, Ni, etc.

Cu is about 10 ppb

#45978B

Total Solids - 44 mg per 100 ml

Major Elements: Na, Mg

Minor Elements: Si, Ca

Trace Elements: Cu, B, Fe, Al

Not Detected: Pb, Cd, Cr, Ni, etc.

Cu is about 30 ppb

LTS:emh

<u>Parameter</u>	<u>Units</u>	<u>240 Golden Road</u>	<u>Part 5 Standard</u>
Sampling Date	-	4-13-82	-
Turbidity	Ntu	7.0	5.0
Odor	Odor Units	None	3
	-	7.0	-
Alkalinity	mg/l as CaCO ₃	414	-
Total Hardness	mg/l as CaCO ₃	504	-
Chloride	mg/l	180	250
Sulfate	mg/l	70	250
Total Dissolved Solids	mg/l	748	-
Specific Conductance	umhos/cm	982	-
Calcium	mg/l	153	-
Magnesium	mg/l	41	-
Sodium	mg/l	8.4	270
Potassium	mg/l	2.4	-
Total Cyanide	ug/l	<10	-
Fluoride	ug/l	200	2200
Phenol	ug/l	<1	-
Free Ammonia	ug/l as N	50	-
Total Kjeldahl Nitrogen	ug/l as N	1000	-
Nitrate	ug/l	300	10000
Total Phosphate	ug/l as P	42	-
Arsenic	ug/l	*	50
Mercury	ug/l	*	1000
Cadmium	ug/l	<1	10
Chromium	ug/l	19	50
Copper	ug/l	19	1000
Iron	ug/l	470	300
Lead	ug/l	<5	50
Manganese	ug/l	37	300
Selenium	ug/l	*	10
Silver	ug/l	<5	50
Zinc	ug/l	82	5000
Mercury	ug/l	0.3	2
	Anions	14.837	-
	Cations	14.722	-
	% Error	-0.4	-

*Results not yet available

Sample collection and analysis by Monroe County Health Department

<u>Parameter</u>	<u>Units</u>	<u>227 Golden Road</u>	<u>Part 5 Standard</u>
Sampling Date	-	4-13-82	-
Turbidity	Ntu	0.15	5.0
Odor	Odor Units	None	3
pH	-	7.5	-
Alkalinity	mg/l as CaCO ₃	377	-
Total Hardness	mg/l as CaCO ₃	483	-
Chloride	mg/l	70	250
Sulfate	mg/l	81	250
Total Dissolved Solids	mg/l	600	-
Specific Conductance	umhos/cm	984	-
Calcium	mg/l	135	-
Magnesium	mg/l	42	-
Sodium	mg/l	40	-
Potassium	mg/l	3.7	270
Total Cyanide	ug/l	410	-
Fluoride	ug/l	160	2200
Phenol	ug/l	41	-
Free Ammonia	ug/l as N	20	-
Total Kjeldahl Nitrogen	ug/l as N	400	-
Nitrate	ug/l	4600	10000
Total Phosphate	ug/l as P	17	-
Arsenic	ug/l	*	50
Mercury	ug/l	*	1000
Cadmium	ug/l	41	10
Chromium	ug/l	8	50
Copper	ug/l	51	1000
Iron	ug/l	230	300
Lead	ug/l	45	50
Manganese	ug/l	46	300
Selenium	ug/l	*	10
Silver	ug/l	45	50
Zinc	ug/l	87	5000
Mercury	ug/l	0.2	2
	Anions	11.532	-
	Cations	11.494	-
	% Error	-0.2	-

*Results not yet available

Sample collection and analysis by Monroe County Health Department

Golden Rd. Drum Disposal Site

Sample Type: _____

Sampled: 5/12/82

Registry No. _____

Sampling Site		1 Pond ~ 100 ft. inside gate	2 Sediment to pond	3 Soil around drum area inside gate	4 Silt to pond east of RR tracks	5 Sediment to pond	6 Pond near large storm tunnel
Lab. Number		82-132-01	82-132-02	82-132-03	82-132-04	82-132-05	82-132-06
Parameter	Units						
Cd	mg/l	0.10			0.12		0.12
Cr	mg/l	0.01			0.01		0.01
Pb	mg/l	0.11			0.09		0.10
Ni	mg/l	0.05			0.01		0.01
Zn	mg/l	0.01			0.17		0.01
Fe	mg/l	2.48			0.51		1.33
DMC	mg/l	85			70		20
OC	mg/l	115			135		70
SC	mg/l	NA			NA		NA
H.C.			LIGHT POSITIVE	POSITIVE HEAVY		TRACE	

Sample Type: _____

Registry No. _____

Sampling Site	Soil Face of Refractory Sand dump	Tap outside of Fillings Residence				
Lab. Number	82-132-07	82-132-08				
Parameter	Units					
Cd	mg/l		0.13			.01
Cr	mg/l		<0.01			.05
Pb	mg/l		0.12			.05
Ni	mg/l		0.01			
Zn	mg/l		0.21			.5
Fe	mg/l		0.03			.3
Benzene	µg/l		<10			
Toluene	µg/l		<10			
Xylene	µg/l	NONE	NA			
o-cresol		NONE	-			

MEMORANDUM

DATE May 19, 1982

Richard S. Burton - Associate Chemist *RSB*Ann Marie LaBella - Sanitary Chemist *AmL*

Samples Collected from Golden Road Site

Laboratory #45995

Bluish black caked substance. Substance is soluble in water and methyl alcohol. In solution fluoresces pink under long wave ultra-violet light.

Fluorescence Spectrophotometer scan gives exciter wavelength of 320 mu and analyzer wavelength of 365 mu.

The substance appears to be an organic dye.

Laboratory #45996

Bluish black debris. The substance appears to be soil and debris with a bluish color. The bluish substance is water soluble, however it was not concentrated enough to be detected by Fluorescence Spectrophotometry.

Laboratory #45997

Bluish black caked substance, large pieces. Soluble in water and methyl alcohol. In solution fluoresces pink under long wave ultra-violet light. Fluorescence Spectrophotometer scan gives exciter wavelength of 320 mu and analyzer wavelength of 365 mu.

The substance appears to be an organic dye.

Laboratory #45999

Bluish black debris. The debris appears to be a white substance with the bluish color adhering to it. A water solution fluoresces pink under ultra-violet light. Fluorescence Spectrophotometer scan gives exciter wavelength of 320 mu and analyzer wavelength of 365 mu.

The substance appears to be an organic dye.

Laboratory #45998

Fibrous material impregnated with bluish black substance. When examined microscopically the substance appears to be blotter paper saturated with the bluish black substance. A portion of the sample was tested by placing it in water to extract the dye, however the dye did not leach out.

Laboratory #45994

Whitish Powder. Microscopically it appears as fine waxy needles adhering to a powder substance. Physically separating the two forms and performing an Infrared Spectroscopic scan of both reveals they are the same compound in two different crystalline forms. The substance appears to be an aromatic amine.

Laboratory #46000

Bluish black liquid. Miscible with water and methanol. Substance fluoresces pink under long wave ultra-violet light. Fluorescence Spectrophotometer scan gives exciter wavelength of 320 mu and analyzer wavelength of 365 mu.

The substance appears to be an organic dye.

Laboratory #46004

Black liquid oily and viscous in appearance. Substance appears to be old motor oil mixed with water.

The following samples were analyzed by Gas Chromatography utilizing a 50 meter glass capillary column packed with OV 101, temperature programmed from 60° to 230°C at a rate of 4°/minute.

Laboratory #46001

Dark brown liquid. Sample prepared for Gas Chromatographic analysis by diluting with chloroform. Chromatogram indicative of that of toluene.

To determine whether the liquid was combustible a cotton swab was dipped into the sample and ignited. The sample burned immediately, therefore, the substance was combustible.

Laboratory #46001a

Same dark brown liquid when extracted with freon formed a plastic-like precipitate. The freon was decanted and diluted with chloroform. Analysis of the sample revealed a chromatogram indicative of toluene.

Laboratory #46002

Light brown liquid. A cotton swab was dipped with the sample and ignited, to determine whether the liquid was combustible. The sample burned immediately, therefore the substance was combustible. Sample placed in a porcelain crucible with a watch glass over it. Sample was gently warmed to 80-85°F at this temperature vapors ignited. Sample was injected into the Gas Chromatograph; analysis reveals a chromatogram indicative of a mid-range petroleum distillate containing both toluene and xylenes.

Laboratory #46003

Light brown liquid. A cotton swab was dipped into the sample and ignited, to determine whether the liquid was combustible. The sample burned immediately, therefore the substance was combustible. Sample was injected into Gas Chromatograph undiluted; analysis reveals a chromatogram indicative of a mid-range petroleum distillate containing both toluene and xylenes.

Laboratory #46005

Clear liquid. A cotton swab was dipped into the sample and ignited. The sample being predominately water did not burn. The sample was extracted with freon and concentrated to a volume of approximately .5 mls and injected into the Gas Chromatograph. Analyses of the concentrate reveals a chromatogram indicative of toluene and xylenes.

AML:emh

6.0 ADEQUACY OF AVAILABLE DATA

In compiling the hazard ranking score, the Golden Road Disposal Site was found to have a score for S_m equal to 14.5. However, because some route rating factors, due to data inadequancies, involve a certain degree of subjectivity a range for the S_m score was developed and found to be 10.0 to 15.0.

The existing data base for the Golden Road Disposal Site is inadequate in the following respects:

- o The population served by and the uses of surface water and groundwater have been estimated. The possibility for use for irrigation has been noted, but not confirmed.
- o No soil borings have been performed on-site, and as such, an accurate characterization of the soil profile is not possible. Also, the soil permeability range used has been estimated from information which is not considered highly reliable.
- o No groundwater samples were obtained from wells on-site, although those showing contamination were located within 400 feet.

Beyond the HRS score itself, additional information is needed to assess the type and cost of alternative remedial actions at the site. The types of information include:

- o Is the site located within an area of groundwater discharge or groundwater recharge?
- o Has the original ground surface below the foundry sand been excavated? If so, to what depth?
- o What are the nature and hydraulic characteristic of the bedrock?

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 Air Monitoring
- o Geophysical Exploration
- 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 Air Monitoring - Prior to implementation of the

various field investigative techniques, an initial site screening will be conducted using a Century Organic Vapor Analyzer (OVA) and/or an HNU photoionizer. Based upon described site characteristics, Recra team personnel engaged in this activity will enter the site, equipped with level 3 respiratory protection. A grid pattern will be established at the site and readings will be taken and recorded at each grid point. This survey will determine the initial level of protection necessary for worker's safety. In addition, upwind and downwind air monitoring stations will be established in relation to the prevailing wind condition. If the results are indicative of air quality problems, additional testing will be initiated as specified directions and distances away from the site.

During actual field investigative work, ambient and worker air monitoring will be conducted periodically using appropriate instrumentation, such as the photoionizer and/or OVA. When deemed necessary from actual readings, the level of respiratory protection will be adjusted to meet existing conditions. All disposable equipment necessary for worker safety will be placed daily into covered on-site drums

provided by Recra, and removed from the site and disposed of either upon reaching full capacity or upon completion of all field work.

7.2.2 Geophysical Exploration - Prior to the subsurface investigation, one surface geophysical method will be used to determine the possibility and extent of contaminant plume migration offsite. A VLF-EM terrain conductivity survey will be performed, using an EM-31 terrain conductivity meter, continuously along the southern and eastern boundaries of the southern disposal area at the offset distances of approximately 100 and 300 feet beyond the edge of the fill where it meets the wetland area. In addition, a terrain conductivity survey will be performed to both the west and north of the northern disposal area at similar offset distances. The purpose of this survey will be to detect the possible migration of a contaminant plume from the site.

7.2.3 Subsurface Investigation - The information obtained from the geophysical exploration will be used to assist in locating the test borings and monitoring wells. Presently, it is proposed that five (5) test borings be installed: one (1) each on the west and

north side of the northern disposal landfill area; one (1) each on the south and east sides of the southern disposal area; and one (1) south of Route 490 which should not be influenced by contaminant migration in either surface water or groundwater. All 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.

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 glass 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 upgradient boring will be completed first; then the remaining holes will be drilled. Between each test boring the augers will be cleaned 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 spend water/acetone liquid accumulated during this process will be disposed of in an on-site drum. Upon completion of each test boring to bedrock, the test boring will be backfilled with cement bentonite grout to approximately five (5) to six (6) feet below the first encountered water level, in order to avoid the possible vertical migration of contaminated groundwater from the first encountered water-bearing zone down to bedrock. Prior to leaving the site, the drill rig will be decontaminated using high pressure water.

- 7.2.4 Monitoring Well Installation - Pending review of the information obtained from the soil samples, geophysical results and approximate water levels in the test borings, it is proposed that eight (8) monitoring wells be installed at five (5) locations around the site. All wells will terminate 5 feet

below the encountered water table or at the top of bedrock, whichever comes first, except for the deeper wells in the well clusters, which will extend 10 feet into rock. The wells will be screened from immediately below the encountered water table to their termination, except for the deeper bedrock wells, which will be screened from the top of bedrock to their termination. Wells will be located as follows: one (1) well to the west of the northern disposal area; one (1) well to the south of the southern disposal area; one (1) well cluster to the south (upgradient) of Route 490; one (1) well cluster to the north (downgradient) of the landfill; and one (1) well cluster to the east of the southern disposal area. Where appropriate, wells will be installed within the original boring holes.

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 top of well casings 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.

7.2.5 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 polyethylene 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 analysis. This will be accomplished using small volume galvanized steel bailers that have been separately designated for each well. Upon collection of the sample, field pH, temperature and conductivity measurements will be recorded. The samples will be placed in appropriate pre-cleaned bottles/septa vials, labeled, 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.

It is presently proposed that four (4) surface water samples be obtained: one (1) along the intermittent stream flowing toward Route 490; one (1) from the on-site pond; one (1) near the center of the southern wetland area; and from the wetland west of

the northern disposal area. 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.

Analyses of all groundwater and surface water samples will be performed for the parameters listed in Table 1. The procedure to be utilized for analyses of all samples during this investigation are in basic accordance with one or more of the following reference 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,
- 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 by Recra Research, Inc. to NYSDEC,
entitled, "Operation Manual - Field and Analytical
Services."

TABLE 1: ANALYTICAL PARAMETERS

<u>Parameters</u>	<u>Surface Water</u>	<u>Groundwater</u>
Number of Sample - This Site	4	8
pH	.	.
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 conductivity detector.

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.

7.2.6 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>	<u>Cost</u>
Air Monitoring	\$ 590
Geophysical Exploration	\$ 8,240
Subsurface Investigation	\$ 4,780
Monitoring Well Installation	\$ 7,180
Sampling and Analysis	\$ 5,570
Report	<u>\$ 6,170</u>
Total	\$32,980

APPENDIX A

DATA SOURCES AND REFERENCES

1. Monroe County Health Department Memorandum from Dr. Steadman to Richard Burton dated May 5, 1982.
2. Notes of interview with Dr. Richard Young of S.U.C. at Geneseo with Mark Hanna of URS Co. dated April 21, 1983.
3. Notes of interview with U.S. Weather Service by Mark Hanna dated April 20, 1983.
4. Climatic Atlas of the United States. U.S. Dept. of Commerce, National Climatic Center, Ashville, N.C. 1979.
5. Monroe County, New York Soil Survey. U.S. Dept. of Agriculture, Soil Conservation Service, 1973.
6. Monroe County Health Department memorandum from Ann Marie LaBella to Richard Burton dated May 19, 1982.
7. NYSDEC Hazardous Waste Disposal Site Inspection Report dated August 7, 1980.
8. NYSDEC Hazardous Waste Disposal Site Inspection Report dated February 17, 1981.

9. Monroe County Health Department Memorandum from Richard Sutherland for the record dated March 30, 1982.
10. Notes of interview with Diane Salopek of the Center for Governmental Research by Mark Hanna of URS Company dated May 17, 1983.
11. Notes of interview with Jay Baker of the Soil Conservation Service by Mark Hanna of URS Co. dated April 28, 1983.
12. NYSDEC Memorandum from John Rankin to Paul Schmeid dated August 26, 1982.
13. Rainfall Frequency Atlas of the United States. Technical Paper No. 40, U.S. Dept. of Commerce, Washington D.C. 1963.
14. Map of Wetlands in Town of Chili as developed by the Monroe County Environmental Management Council/NYSDEC for the Monroe County Map Atlas.
16. Notes from interview with Howard Fitzsimons, Jr. by Jerry Thew of NYSDEC dated June 11, 1981.

17. Aerial photographs of the site obtained from the Monroe County Environmental Management Council are as follows:

October 16, 1951	ARK-2H-15, ARK-2H-16;
May 3, 1961	AQB-107, AQB-108;
April 15, 1970	1983-15-937, 1983-15-938;
April 22, 1975	2-077, 2-078.

18. Golden Road - Chili 6 Summary Report prepared by the Monroe County Environmental Management Council for the Monroe County Landfill Review Committee dated June 22, 1981.

19. Notes of conference between Carol Herrington and ECO Bill Wideman, both of NYSDEC, dated February 6, 1981.

20. Letter from Frank Shattuck of NYSDEC to Howard Fitzsimons dated May 20, 1981.

21. Notes from interview with Tom Sechrist of the U.S. Fish and Wildlife Service by Mark Hanna of URS Co. dated May 17, 1983.

22. Flood Insurance Study, Town of Chili, Monroe County, New York.
Federal Emergency Management Agency. February 1, 1979.

23. Map of Subsurface Bedrock Contours in Monroe County, New York as developed by Dr. Richard Young for the Monroe County Environmental Management Council dated February 1980.
24. Boring logs obtained from the Monroe County Department of Engineering dated September 11, 1972.

APPENDIX B

HAZARDOUS WASTE DISPOSAL SITE REPORT

REVISED

Code: B

Site Code: 8-28-021

Name of Site: Golden Road Disposal Site

Region: 8

County: Monroe

Town/City: Chili (T)

Street Address:

Status of Site:

- o Inactive landfill. Poorly sited, improperly operated and inadequately closed. Industries known to have used the facility. Direct evidence of specific hazardous substances disposed of at the site. 300 + barrels on-site. Site drains to a wetland, which outlets to an intermittent stream flowing northward to another designated wetland. Approximately 10 feet of soil over bedrock.
- o Rural/developing residential area. Flat topography.
- o No dwellings within 500 feet.
- o Nearest water supply: Private wells at 60, 227 and 240 Golden Road
Monroe County public water available
- o Seasonal high water table near ground surface

o Soil type: shallow muck

Type of Site: Landfill

Estimated Size: 8 acres

Hazardous Waste Disposed? Confirmed

Type and Quantity of Hazardous Wastes: Toluene and Xylene. 300 + drums
on site.

Present Owner: Howard Fitzsimons, Jr./227 Golden Road/Chili, New York

Time Period Site Was Used: 1955 to 1976

594-2335

Site Status: Inactive

Types of Samples: Soil, surface water, groundwater, pond sediment,
barrel contents

Remedial Action: None

Status of Legal Action: None

Permits Issued: None

Assessment of Environmental Problems: Contamination of groundwater,
surface water and soil confirmed. Site surrounded by designated wetland
with established wildlife population.

Assessment of Health Problems: None known, but residential wells are in
use in the area.

Persons Completing this Form: C. Mark Hanna (URS Company) on behalf of
Recra Research, Inc.

Date: June 3, 1983