915114

SB-5102 D3411

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

PRELIMINARY SITE ASSESSMENT
TASK 1

Clarence Ready Mix Site
Site Number 915114
Town of Clarence, Erie County

September 1991

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233

Thomas C. Jorling, Commissioner

Division of Hazardous Waste Remediation

Michael J. O'Toole, Jr., P.E., Director

Prepared by:

Ecology and Environment Engineering, P.C.

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TABLE OF CONTENTS

Section		Page
1	EXECUTIVE SUMMARY	1-1
	1.1 ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES . . .	1-11
2	PURPOSE	2-1
3	SCOPE OF WORK	3-1
4	SITE ASSESSMENT	4-1
	4.1 SITE HISTORY	4-1
	4.2 SITE TOPOGRAPHY	4-1
	4.3 REGIONAL HYDROLOGY	4-3
	4.4 LOCAL HYDROLOGY	4-5
	4.5 CONTAMINATION ASSESSMENT	4-6
5	ASSESSMENT OF DATA ACCURACY AND RECOMMENDATIONS	5-1
	5.1 HAZARDOUS WASTE DEPOSITION	5-1
	5.2 SIGNIFICANT THREAT DETERMINATION	5-1
	5.3 RECOMMENDATIONS	5-2

Table of Contents (Cont.)

Appendix		Page
A	REFERENCES	A-1
B	SITE INSPECTION REPORT (EPA FORM 2070-13)	B-1
C	INTERVIEW DOCUMENTATION FORMS	C-1

LIST OF TABLES

Table		Page
3-1	Sources Contacted for the NYSDEC PSA, Clarence Ready Mix	3-3

LIST OF ILLUSTRATIONS

Figure		Page
1-1	Location Map, Clarence Ready Mix Site	1-4
1-2	Site Map, Clarence Ready Mix Site	1-5
1-3	Photographic Logs	1-6

1. EXECUTIVE SUMMARY

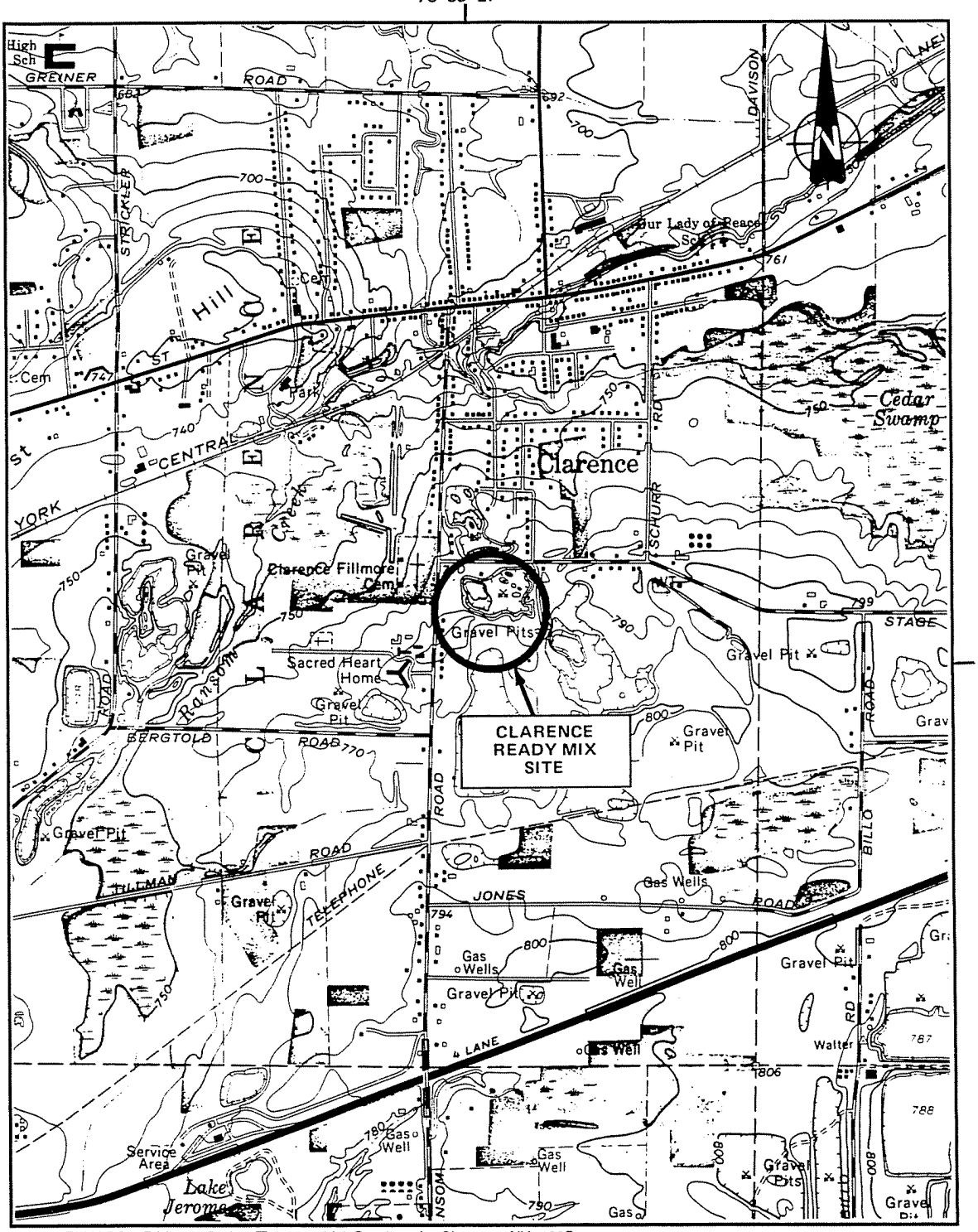
The Clarence Ready Mix Site (Site I.D. No. 915114) is a former gravel mining area located southeast of the intersection of Ransom and Stage roads in the Town of Clarence, Erie County, New York (see Figures 1-1, 1-2, and 1-3). The site is approximately 6 acres in size. The gravel pit on the site was utilized as a landfill between 1970 and 1978. The gravel pit is estimated to be 25 feet deep.

No hazardous waste is documented as being deposited into the landfill. The site owner, Clarence Materials Corporation, stated that the Town of Clarence used the former gravel pit for disposal of unspecified amounts of "spring and fall cleanup material." The site owner also indicated that Erie County and New York State also used the site "for the same purpose" (Ref. 3). However, the Town of Clarence specifically stated that "the Town was the only party that dumped at the site" (Ref. 5) and that the unspecified amounts of "spring and fall cleanup material" consisted of "brush and wood material, estimated to be 95% to 98% of the material dumped." The remainder of the material placed in the landfill was "large appliances such as refrigerators, stoves, washing machines and dryers, and bedsprings," etc. (Ref. 5). Site inspections by the Erie County Department of Environment and Planning (ECDEP) and New York State Department of Environmental Conservation (NYSDEC) also indicated tires and trash on site (Ref. 1). Based on the above

majority of the landfill. Sink holes and fissures in the cover were evident, particularly in the center of the landfill. Brush, trees, and yard waste were visible in the fissures; appliances and tires were visible at the grade of cover over the northwest quadrant and central portions of the site. The surface water in the gravel washing pond adjacent and southeast of the site showed no signs of oily sheen and there was no discoloration around the pond's perimeter. No leachate outbreaks or erosion were noted during the site inspection (Ref. 4).

Background research for the Clarence Ready Mix site does not indicate hazardous waste deposition at the landfill. It is therefore recommended that the site be delisted.

78°35' 27"



42°58' 15"

SOURCE: USGS 7.5 Minute Series (Topographic) Quadrangle: Clarence, NY, 1965.

SCALE 1:24,000

0 ½ 1 Mile

0 .5 1 Kilometer

Figure 1-1
LOCATION MAP, CLARENCE READY MIX SITE

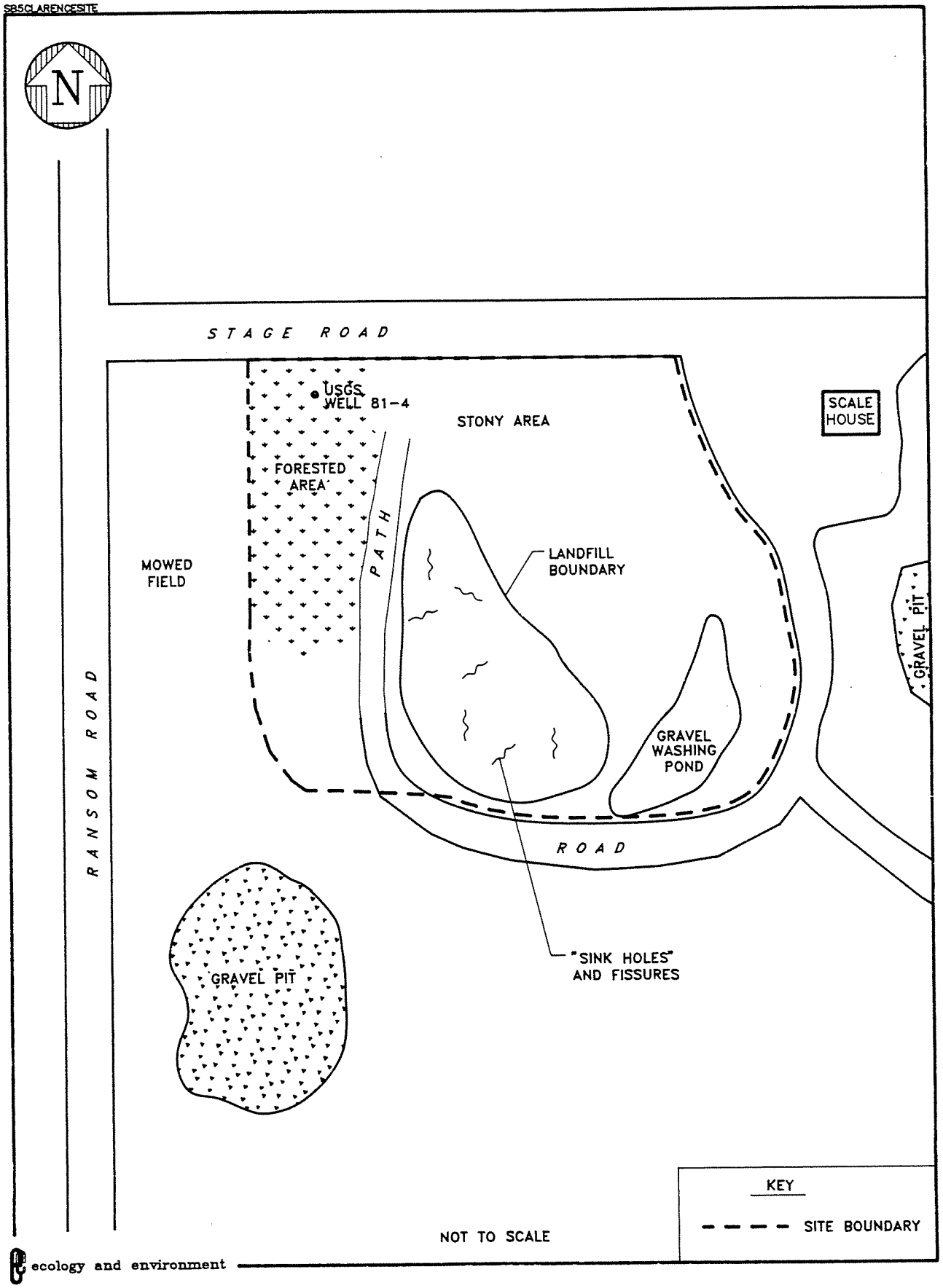


Figure 1-2 SITE MAP, CLARENCE READY MIX SITE

FIGURE 1-3

PHOTOGRAPHIC LOGS

ecology and environment engineering, p.c.

PHOTOGRAPHIC RECORD

Client: NYSDEC	E & E Job No: SB510*
Site: Clarence Ready Mix	
Camera: Make: Kodak 35mm	SN: Disposable
Lens Type: -	SN: -
	Photographer: Linda Fischer Date: 5/3/9*
	Time: 9:25 Frame No.: 3
	Comments*: Direction southwest this is the
	entrance to area where the dumping took place.
	Note the wire gate. The property is fenced.

*Comments to include location

ecology and environment engineering, p.c.
PHOTOGRAPHIC RECORD

Client: NYSDEC	E & E Job No.: SB5 00
Site: Clarence Ready Mix	
Camera: Make Kodak 35mm	SN Disposable
Lens Type	SN -
	Photographer: Linda Fischer Date: 5/3/91
	Time: 9:30 Frame No.: 4
	Comments*: Direction southeast, showing edge of pond.

*Comments to include location

ecology and environment engineering, p.c.
PHOTOGRAPHIC RECORD

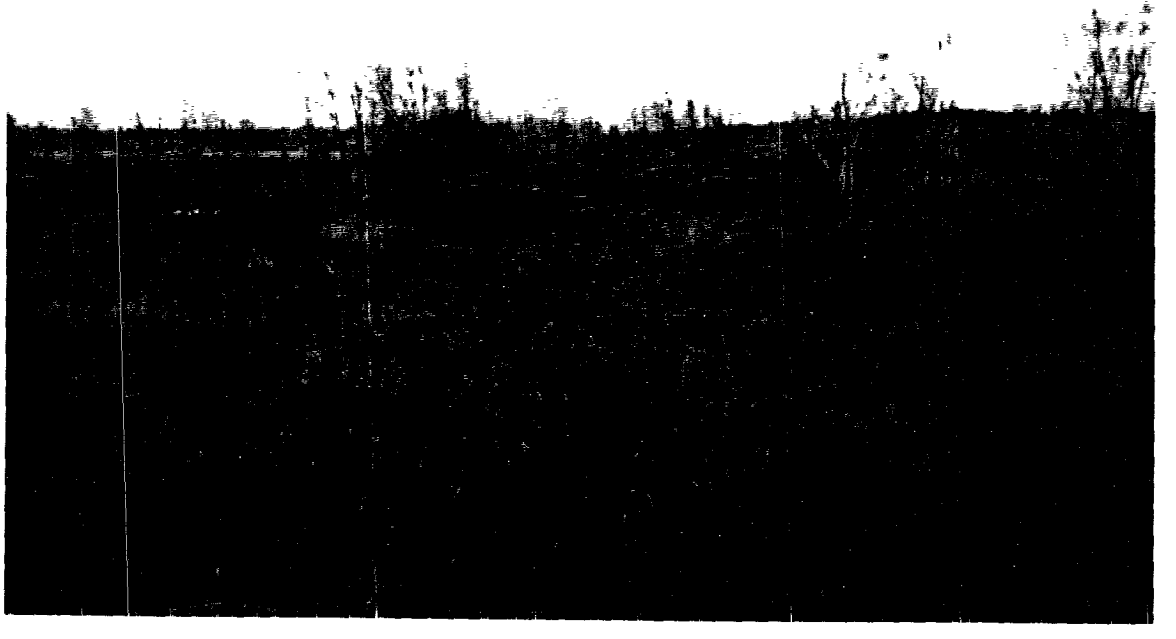
Client: NYSDEC	E & E Job No.: SB5100
Site: Clarence Ready Mix	
Camera: Make: Kodak 35mm	SN: Disposable
Lens Type:	SN: --
	Photographer: Linda Fischer Date: 5/3 9[illegible]
	Time: 9:35 Frame No.: 5
	Comments*: Direction southeast, showing sinking ground.

*Comments to include location

ecology and environment engineering, p.c
PHOTOGRAPHIC RECORD

Client NYSDEC	E & E Job No : SB5100
Site Clarence Ready Mix	
Camera Make Kodak 35mm	SN Disposable
Lens Type	SN --
	Photographer Linda Fischer Date 5/3 9*
	Time 9:40 Frame No * 6
	Comments*: Direction southeast, showing pond on eastern portion of site

*Comments to include location



47-15-25 (11/90)-9d

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

ADDITIONS/CHANGES TO REGISTRY OF INACTIVE HAZARDOUS WASTE DISPOSAL SITES

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

1. Site Name	2. Site Number	3. Town	4. County
Clarence Ready Mix	915114	Clarence	Erie

5. Region	6. Classification	7. Activity
9	Current 2A /Proposed D1	[ ] Add [ ] Reclassify [X] Delist [ ] Modify _____

8a. Describe location of site (attach USGS topographic map showing site location).

b. Quadrangle Clarence c. Site latitude 42° 58' 15" Longitude 78° 35' 27" d. Tax Map Number 72.00-4-1.1

9a. Briefly describe the site (attach site plan showing disposal/sampling locations).

Site is located at the southeast corner of Stage and Ransom roads in the Town of Clarence.
b. Area 6 acres c. EPA ID number NYD008915506 d. PA/SI [X] Yes [ ] No

e. Completed: [X] Phase I [ ] Phase II [X] PSA [X] Sampling

10. Briefly list the type and quantity of the hazardous waste and the dates that it was disposed of at this site.

Waste deposition occurred from 1970 to 1978. Waste consisted of fall and spring brush debris and used appliances.

11a. Summarized sampling data attached

[ ] Air [X] Groundwater [ ] Surface Water [ ] Soil [ ] Waste [ ] EP Tox [ ] TCLP

b. List contravened parameters and values. PCBs, A-BHC (lindane), phenol

12. Site impact data

a. Nearest surface water: Distance on site ft. Direction southeast Classification N/A

b. Nearest groundwater: Depth 0-30 ft. Flow direction west, northwest [ ] Sole source [X] Primary [ ] Principal

c. Nearest water supply: Distance 600 ft. Direction northeast Active [X] Yes [ ] No

d. Nearest building: Distance 100 ft. Direction east Use scale house

e. Crops/livestock on site? [ ] Yes [X] No

f. Exposed hazardous waste? [ ] Yes [X] No

g. Controlled site access? [X] Yes [ ] No

h. Documented fish or wildlife mortality? [ ] Yes [X] No

i. Impact on special status fish or wildlife resource? [ ] Yes [X] No

j. Within a State Economic Development Zone? [ ] Yes [X] No

k. For Class 2A: Code _____ Health model score _____

l. For Class 2: Priority category _____

m. HRS Score NA

n. Significant threat [ ] Yes [X] No [ ] Unknown

13. Site owner's name	14. Address	15. Telephone Number
Clarence Materials Handling Corp.	8615 Wehrle Dr., Williamsville, NY 14221	(716) 759 - 8331

16. Preparer
Natasha Snyder and Brenda Salmon — Environmental Analysts, Ecology and Environment Engineering, P.C.
Name, title, and organization

5/15/91 — Date

Natasha Snyder — Signature

17. Approved

_____
Name, title, and organization

_____ — Date

_____ — Signature

02:3411-09/24/91-D1

2. PURPOSE

Task 1 of the Preliminary Site Assessment (PSA), Data Records Search and Assessment, was conducted by E & E under contract to the NYSDEC Superfund Standby Contract (Contract No. D002625).

Task 1 involves the search for proof of disposal of hazardous waste documentation and proof of a significant threat to human health or the environment. Additional investigation may also be recommended.

The purpose of the PSA is to provide the information for NYSDEC to reclassify the site according to the following classifications:

- **Class 2.** Hazardous waste sites presenting a significant threat to the public health or the environment - action required;
- **Class 3.** Hazardous waste sites not presenting a significant threat to the public health or the environment - action may be deferred; and
- **Delist.** Sites where hazardous waste disposal cannot be documented - no further action required.

The Clarence Ready Mix site is currently classified as 2a (and not the above classifications) because there is insufficient information to document hazardous waste disposal and/or assess the significance of potential risks to public health or the environment.

3. SCOPE OF WORK

Task 1 of the PSA at the Clarence Ready Mix site comprised several interrelated tasks as follows:

File Reviews and Data Search

An extensive data search was conducted utilizing state, county, municipal, and site-specific sources. This information was compiled from existing data as well as new sources, and a preliminary characterization of the site was developed after review.

Sources contacted during the PSA are listed in Table 3-1.

Site Inspection

A site inspection was conducted on May 3, 1991 to assess the site surface characteristics, observe evidence (if any) of hazardous wastes present, photograph the site, and confirm information obtained from the initial data search. A United States Environmental Protection Agency (EPA) Site Inspection Report (EPA Form 2070-13) was completed following the site inspection. At the time of the inspection, the former landfill area appeared to be fairly well capped and vegetated with some subsidence. No leachate was observed seeping from the site. Preliminary air and radiation monitoring was conducted

during the site inspection using an HNu and a minirad. No readings above background were recorded on the monitoring equipment.

Participants of the site inspection included:

Name	Title	Affiliation
Scott Glinski	Environmental Analyst	E & E
Linda Fischer	Environmental Analyst	E & E
Kevin Huber	Dispatch Supervisor	Clarence Materials Corporation

Table 3-1

SOURCES CONTACTED FOR THE NYSDEC PSA
CLARENCE READY MIX SITE
CLARENCE, NEW YORK

New York State Department of Health
Bureau of Environmental Exposure
11 University Place
Room 205
Albany, New York 12203
Contact: Andy Carlson
Telephone: 518/458-6306
Date: April 16-17, 1991
Information Gathered: Viewed site inspection reports for NYSDEC Phase II sites.

New York State Department of Environmental Conservation
Bureau of Hazardous Site Control
50 Wolf Road
Albany, New York 12233
Contact: Valerie Lauzze
Telephone: 518/457-9538
Date: April 17-18, 1991
Information Gathered: File search.

New York State Department of Environmental Conservation, Region 9
584 Delaware Avenue
Buffalo, New York 14202
Contact: Greg Sutton
Telephone: 716/847-4585
Date: April 22, 1991
Information Gathered: File search.

Erie County Department of Environment and Planning
95 Franklin Street
Buffalo, New York 14202
Contact: Jerry Miller
Telephone: 716/858-6370
Date: April 24, 1991
Information Gathered: File search.

Erie County Department of Real Property Taxation
95 Franklin Street
Buffalo, New York 14202
Contact: Clerk
Telephone: 716/858-8333
Date: April 24, 1991
Information Gathered: Tax map.

Table 3-1

SOURCES CONTACTED FOR THE NYSDEC PSA
CLARENCE READY MIX SITE
CLARENCE, NEW YORK

Erie County Water Authority 95 Franklin Street Buffalo, New York 14202 Contact: Ronald Kojcaza Telephone: 716/858-8383 Date: April 24, 1991 Information Gathered: Water supply and well information.
Clarence Ready Mix Division of Clarence Materials Corporation 8615 Wehrle Drive Williamsville, New York 14221 Contact: Kevin Huber Telephone: 716/632-2000 Date: May 3, 1991 Information Gathered: Past history, site walkthrough.
Clarence Water Department 5635 Goodrich Road Clarence, New York 14031 Contact: Clerk Telephone: 716/741-3263 Date: August 21, 1987 Information Gathered: Water supplies.

4. SITE ASSESSMENT

4.1 SITE HISTORY

The Clarence Ready Mix site is a gravel pit formerly owned by Eric Krehbidl (1950) and presently owned by Clarence Materials Handling Corporation (1954) that changed its name from Clarence Sand and Gravel in 1975 (Ref. 1). Prior to 1970, the site was used as a gravel pit. From 1970 to 1978, the pit was used to dispose of brush and wood material from spring and fall brush pickups, as well as tires, trash, and discarded appliances (Ref. 1). A 1978 NYSDEC inspection of the site resulted in the issuance of a Consent Order requiring proper site closure (Ref. 1). The 6-acre site contains approximately 25 feet of landfilled material. The filled gravel pit is now capped, and vegetation has established itself on the site (Ref. 18). Subsidence has occurred on site in the form of sinkholes and fissures, particularly in the center of the landfill (Ref. 4). No leachate outbreaks have been documented. Refuse was noted in and adjacent to the pond located southeast of the site during a 1980 site inspection conducted by NYSDEC. E & E's site inspection indicated no obvious changes since that time (Ref. 4).

4.2 SITE TOPOGRAPHY

The Clarence Ready Mix site is located approximately 500 feet southeast of the corner of Stage and Ransom roads, Town of Clarence, Erie

County, New York. The average elevation of the site is approximately 760 feet above mean sea level (Ref. 2). The landfill itself is now approximately 8 feet higher than the surrounding ground surface on the north and west sides and slopes to the south and east. It is presently covered with an estimated 2 feet of soil and a healthy vegetation cover. The soil appears to be slumping and cracking in some areas (Ref. 4).

The soil type in the area is classified as a Palmyra gravelly loam, found in areas with 0% to 3% slope (Ref. 9). This soil complex is characterized by nearly level, deep, and well-drained outwash deposits that have a relatively high content of sand and limestone. Permeability of this series is high, ranging from 0.6 to greater than 20 inches of water per hour (Ref. 9).

The United States Department of Agricultural Soil Conservation Service (USDA SCS) has designated the Palmyra gravelly loam as prime farmland (Ref. 6). The nearest prime agricultural land that has been in production over the past 5 years is 1,700 feet from the site (Ref. 10).

Southeast of the site is a small pond used for gravel washing. Numerous other small ponds in the vicinity of the site appear to be former gravel pits that have filled with water. The pond on site is not hydraulically connected via surface water with the other nearby ponds (Ref. 4).

The nearest flowing surface water, Ransom Creek, is located approximately 2,500 feet north and west of the site. The site is not hydraulically connected to Ransom Creek via surface water (Ref. 4).

There are four major state-designated wetlands within a 1-mile radius of the site. The 21-acre Roth Wetland, No. CL-5, is located 1,500 feet to the northwest, and is a Class II wetland (Ref. 1).

Cedar Swamp, No. CL-11, comprises 208 acres, designated a Class I wetland, and is a state wilderness area. Cedar Swamp is located 3,500 feet to the northeast of the site (Ref. 1).

An unnamed 31-acre wetland, No. CL-1, is classified Class I and is located 4,000 feet to the southeast of the site (Ref. 1).

Tillman Road Swamp, No. CL-2, is a 100-acre Class I wetland located 4,700 feet to the southwest and is part of the Tillman Road Wildlife Management Area, which is 240 acres in size. NYSDEC has designated this wetland as a critical and sensitive wildlife and plant habitat area. No endangered or rare plant or animal species were noted in this wetland (Ref. 1).

Land use in the vicinity of the Clarence Ready Mix site is primarily commercial (gravel processing and the Clarence Fillmore Cemetery), light residential, and agricultural. The nearest prime agricultural land in use is 1,700 feet away (Ref. 10) and the population within a 1-mile radius is 2,298 people (Ref. 1).

4.3 REGIONAL HYDROLOGY

The Clarence Ready Mix site lies with the Erie-Niagara basin of the Erie-Ontario Lowland physiographic province. The overburden in Erie County consists mainly of glacial till, an unconsolidated poorly sorted mix of clay, silt, and/or sand. It forms a thin mantle over the bedrock and exhibits low permeability. The region between the Onondaga Escarpment to the north and the hilly areas to the south also received lacustrine clay and silt deposits during late Pleistocene from the larger ancestral Great Lakes. These deposits exhibit very low permeabilities. As the ancestral lakes retreated, sandy beach sediments were also deposited in this region. These deposits exhibit relatively high permeabilities (Ref. 11).

The bedrock in the region is exclusively sedimentary. The shale, limestone, and dolomite units dip gently southward approximately 40 feet per mile. Although the bedrock dips southward, the land surface is flat or actually increases in elevation to the south. Therefore, the farther south the location, the younger the underlying bedrock (Ref. 2).

Up to 32 distinct bedrock members have been identified in Erie County. The oldest unit, Silurian in age, underlying the northern part of the county is the Camillus shale. This member, 30 to 100 feet thick, contains significant

reserves of groundwater in cavities formed by the dissolution of gypsum (Ref. 2).

Several limestone members also of Silurian age overlie the Camillus shale. The Bertie limestone, approximately 50 feet thick, overlies the Camillus shale and is in turn overlain by the Akron dolomite, which is about 8 feet thick. Little record of latest Silurian or Early Devonian history is preserved in western New York. However, the middle and late Devonian record is well preserved beginning with the Onondaga limestone unconformably overlying the Akron dolomite. The unit comprises three distinct members that cumulatively are approximately 140 feet thick (Ref. 12).

The Marcellus shale member overlies the limestone units. This dense, black, fissile shale is approximately 30 to 55 feet thick. This shale, unlike the Camillus shale, is impermeable. It confines the limestone and Camillus shale aquifers below (Ref. 2).

The Skaneateles formation overlies the Marcellus shale. This 60- to 90-foot-thick formation is represented by the Stafford limestone and Levanna shale. The black, fissile shale is expected to be impermeable and will therefore confine groundwater found in the lower limestone units (Ref. 12).

Overlying the Skaneateles is the Ludlowville formation represented by the Centerfield limestone, Ledyard shale, Wanakah shale, and Tichenor limestone members. The shale members contain numerous limestone beds. The Ludlowville formation is followed by the Moscow formation represented by the Kashong shale and Windom shale. The Moscow formation is followed by 2,500 feet of upper Devonian rocks in southwestern New York State consisting of the Genesee, Sonyea, West Falls, Java, Canadaway, Chodakoin, and Cattaraugus formations. These consist almost exclusively of shale members. The Canadaway formation is by far the thickest (up to 1,000 feet) and underlies the southern third of Erie County (Ref. 2).

Significant amounts of groundwater occur in the overburden and in the lower bedrock units. The Camillus shale contains numerous cavities formed by the dissolution of gypsum and is thus a very productive aquifer. The

Onondaga, Akron, and Bertie dolomite and limestones contain water in bedding joints widened by dissolution. Vertical fractures in the limestone provide hydraulic connections among the many beddings planes (Ref. 2).

Very little groundwater is found in the formations above the Onondaga limestone unit. These formations, principally shale, are impermeable. Some water transmission occurs in small fractures in the bedrock, but no wells of significant yield are found in these units. Groundwater in these regions is obtained mainly from glacial overburden deposits (Ref. 2).

4.4 LOCAL HYDROLOGY

The uppermost bedrock in the site vicinity is the Onondaga limestone, which contains groundwater in bedding planes, vertical joints, and fractures, some of which have been widened by dissolution. The upper 5 to 15 feet of the limestone contain the most joints. The Akron and Bertie dolomite formations underlie the Onondaga limestone and are relatively impermeable (Ref. 7). This is underlain in turn by Camillus shale.

A study of the Onondaga aquifer in eastern Erie County was performed by USGS and ECDEP due to declining groundwater levels since 1982. The study presents a considerable amount of data concerning wells and groundwater fluctuations in the Clarence area (Ref. 7).

Three wells drilled into the Onondaga limestone are located north of the site. The wells range from 40 to 50 feet deep. Groundwater is reported to be encountered from 24 to 39 feet below the ground surface (Ref. 7).

The surface water in the pond located south of the site is likely to be at the same level as the local groundwater due to an equilibrium between groundwater and surface waters resulting from flow through the highly permeable overburden. This pond is located approximately 35 feet below the grade of the terrain in the area (Ref. 4).

The groundwater flow in the Onondaga limestone ranges from west in the fall to northwest in the spring (Ref. 7).

The site may be hydraulically connected to the Onondaga limestone aquifer due to the high permeability of the overburden and the relatively small distance between the site and groundwater. Groundwater in the Onondaga limestone moves both vertically and horizontally. Although the underlying Akron and Bertie dolomite formations are relatively impermeable, some passage of groundwater from the limestone into the dolomite occurs. Groundwater does not flow into the Camillus shale, but rather follows the interface between the dolomite and the shale (Ref. 7).

Due to complaints from the surrounding community, a preliminary sampling program was undertaken by ECDEP to determine water quality and assess potential risk of the site to public health. Samples were collected on May 15, 1979 from the water supplies of five concerned area residents and analyzed for pH, alkalinity, hardness, sulfate, and nitrate. The initial test results indicated that the water was within the limits of potability (Ref. 13).

In 1981 the USGS installed several monitoring wells in the general vicinity of the Clarence Ready Mix site (Ref. 14). Monitoring well 81-4 is located northwest of the site near the corner of Ransom and Stage roads (see Figure 1-2). USGS studies of 1984 and 1986 indicate that groundwater flows in a northwest direction from the fill area toward the well (Ref. 14).

4.5 CONTAMINATION ASSESSMENT

The USGS groundwater monitoring well 81-4 has been sampled six times (11/19/81, 3/23/82, 8/4/82, 2/15/83, 3/15/83, and 6/13/83) and analyzed for PCBs, cadmium, phenol, COD, TOC, lead, pesticides, and aromatics (Ref. 13). On March 23, 1982, PCBs were detected (0.11 μg/L) slightly above the New York State groundwater standard (0.10 μg/L). Cadmium was detected in four out of five samples but was below the groundwater standard of 0.01 mg/L. Phenol concentrations ranged from 0.002 mg/L to 0.045 mg/L. Levels were above the groundwater standard of 0.001 mg/L in all samples. With the exception of an initially high COD value (116.0 mg/L on November 19, 1981), the range of COD values was low and consistent with

other wells in the site area. TOC results were similarly low and consistent with concentrations found in other area wells (Ref. 13). Chloroform was detected on March 23, 1982, but the results were so low as to be unquantifiable. Since the groundwater standard for chloroform is 100 mg/L, this result indicates that chloroform cannot be considered to pose a threat. A single detection of A-BHC (lindane) (0.07 μg/L) was noted on 3/15/83 (Ref. 14). The groundwater standard for lindane is 0.0 μg/L. In general, there were insufficient confirmed positive analyses for pesticides to require action (Ref. 13).

There are no data that conclusively indicate that contamination exists at the site or that contamination has migrated from the site. The background information indicates the site was used for disposal of spring and fall cleanup wastes, municipal trash, and discarded appliances. No information has been found to date to indicate hazardous wastes were disposed of at the site.

5. ASSESSMENT OF DATA ACCURACY AND RECOMMENDATIONS

5.1 HAZARDOUS WASTE DEPOSITION

Correspondence from the site owner cites the Town of Clarence, County of Erie, and State of New York as the users of the landfill (Ref. 3). Correspondence from the Town of Clarence indicates that they were the sole users of the site. Materials dumped by the Town of Clarence Highway Department were estimated to be 95% to 98% spring and fall brush and wood pickup with the balance consisting of miscellaneous trash. The miscellaneous trash consisted of large metal appliances such as refrigerators, stoves, washing machines, etc. (Ref. 15).

Analytical data from USGS monitoring well 81-4 indicate some hazardous substances in exceedance of groundwater standards (see Section 4.4) (Ref. 13).

However, based upon site-specific file searches, personal communication, and inspection reports, there is no documentation of hazardous waste deposition at the Clarence Ready Mix site.

5.2 SIGNIFICANT THREAT DETERMINATION

Groundwater contamination in the general site vicinity is a concern because a portion of the population within a 3-mile radius of the site relies on wells for potable water. According to information documented in the Phase I

investigation report, an estimated 751 people are served by more than 66 groundwater wells (tapped into the Onondaga aquifer) within a 3-mile radius (Ref. 1).

Several compounds of concern (PCBs, phenol) have been detected in groundwater samples from USGS well 81-4 (Ref. 12) at levels which exceed groundwater standards. However, from the lack of additional upgradient and downgradient wells on site and the results of background research concerning possible hazardous waste deposition in the landfill, there is no conclusive evidence that the source of this groundwater contamination is from material deposited in the gravel pit.

The nearest surface water body is the gravel-washing pond located on site. To date, no surface water monitoring or sampling has been done; however, human contact with potentially contaminated pond water is unlikely because the site is fenced. In addition, the pond is not used for recreational or irrigation purposes.

Air monitoring was conducted during the E & E site inspection on May 3, 1991. No readings above background levels were detected and the threat to human health via air contamination is not deemed significant (Ref. 4).

5.3 RECOMMENDATIONS

Background research for the Clarence Ready Mix site does not indicate hazardous waste deposition at the landfill. It is recommended that the site be delisted. It is also recommended that the existing cap be upgraded in light of the subsidence that has occurred. A low permeability cover, installed over the landfill, would reduce the amount of precipitation percolating through the final cover soil now in place.

APPENDIX A
REFERENCES

REFERENCES

1. Ecology and Environment Engineering, P.C., February 1990, Engineering Investigations at Inactive Hazardous Waste Sites, Phase I Investigation at Clarence Ready Mix site (Site I.D. No. 915114), Town of Clarence, Erie County, State of New York, Ecology and Environment Engineering, P.C., Buffalo, New York

2. LaSala, A.M., 1968, Groundwater Resources of the Erie-Niagara Basin, New York, New York State Department of Conservation, Water Resources Commission, Albany, New York.

3. Schmidt, Paul A., December 18, 1978, personal communication, President, Clarence Materials Corporation, letter to Anthony Voell, Deputy Commissioner of Environmental Control, Buffalo, New York.

4. Ecology and Environment Engineering, P.C., May 3, 1991, Site Inspection Logbook, Clarence Ready Mix Site, Town of Clarence, Erie County, New York.

5. Casilio, William J., August 17, 1989, personal communication, Town Attorney, Town of Clarence, letter to Abdul Barkat, Hazardous Waste Management Department, New York Department of Environmental Conservation.

6. United States Geological Survey, 1965, Clarence, New York Quadrangle, Erie County, New York, 7.5-Minute Series (Topographic), Washington, D.C.

7. Staubitz, W.W. and T.S. Miller, 1987, Geology and Hydrology of the Onondaga Aquifer in Eastern Erie County, New York, with Emphasis on Groundwater Level Declines Since 1982, USGS, Water Resources Investigation Report 86-4317, Ithaca, New York.

8. New York State Department of Environmental Conservation, 1987, State and Federal Regulated Wetland Maps, Critical Habitats, and File Information, Buffalo, New York.

9. Owens, D.W., W.L. Pittman, J.P. Wulforst, and W.E. Hanna, 1986, Soil Survey of Erie County, New York, United States Department of Agriculture Soil Conservation Service, Ithaca, New York.

10. Whitney, J., August 25, 1987, personal communication, United States Department of Agriculture Soil Conservation Service, East Aurora, New York.

11. Buehler, E.J., and I.H. Tesmer, 1963, Geology of Erie County, New York, Buffalo Society of Natural Sciences Bulletin, Buffalo, New York.

12. Buehler, E.J., 1966, Geology of Western New York, Guide Book, Department of Geological Sciences, State University of New York at Buffalo, Buffalo, New York.

13. Erie County Department of Environment and Planning, 1984, Clarence Ready Mix, Ransom and Stage roads, Clarence, New York, Site No. 915114, Buffalo, New York.

14. May, Glenn M., August 31, 1989, personal communication, New York State Department of Environmental Conservation, letter to Abdul Barkat, New York State Department of Environmental Conservation.

REFERENCE 1

ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE I INVESTIGATION

CLARENCE READY MIX, SITE NUMBER: 915114
TOWN OF CLARENCE, ERIE COUNTY

February 1990

Prepared for:

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

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

A-5

Prepared by:

ecology and environment

Ecology and Environment Engineering, P.C.

REFERENCE 2

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

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

by

A. M. La Sala, Jr.

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
in cooperation with
THE NEW YORK STATE CONSERVATION DEPARTMENT
DIVISION OF WATER RESOURCES

STATE OF NEW YORK
CONSERVATION DEPARTMENT
WATER RESOURCES COMMISSION

Basin Planning Report ENB-3
1968

REFERENCE 3

CLARENCE MATERIALS CORP.

SAND GRAVEL CLARENCE READY MIX — EMPIRE BUILDERS SUPPLY

PHONE 632-2000 P.O. BOX AA • CLARENCE, NEW YORK PHONE 285-5757

cy John Banaszak Dept. + advise to D. Tamol

December 18, 1978

Mr. Anthony Voell
Deputy Commissioner of Environmental Control
95 Franklin Street
Buffalo, N. Y. 14202

Dear Mr. Voell,

I am writing this letter in regard to the landfill site located on the corner of Stage and Ransom Roads in Clarence. As you may or may not know the facility was originally started 8 years ago by the Town of Clarence to dispose of their "Spring & Fall Cleanup Material". This was done in order that the Town could save the taxpayers the charges they were paying for a similar service elsewhere. Shortly thereafter, both Erie County and the State of New York started to avail themselves of this site for the same purpose. It was done with my authorization and the arrangement we had was that they were to maintain it within the existing standards that were in force at that time. My responsibility was to provide the dirt cover loaded into the users trucks for covering. At no time did I receive any financial renumeration from the above agencies for use of the site.

As the owner of the property, I realize that it was my responsibility to insure that everything was being done properly. However, because my arrangement was with the various political sub-divisions, I assumed that they were staying abreast of any changes that would take place. I also was advised that the site was being periodically inspected by a representative of the County and that everything was all right.

As you know upon reading the article that appeared in the Courier Express on December 7th concerning the site; I immediately closed it on my own volition. The following Tuesday morning, I met with Mr. Tamol and Mr. Banaszak and discussed the situation with them. They requested that I come up with a plan as the property owner by December 20th to rectify any deficiencies in the operation.

CLARENCE MATERIALS CORP.

EMPIRE BUILDERS SUPPLY

32-2000

P. O. BOX AA • CLARENCE, NEW YORK

PHONE 285-5757

DECEMBER 18, 1978

CONTINUED-

I FIND THAT THIS DEADLINE IS IMPOSSIBLE TO MEET. THE REASON BEING THAT I AM ENTERING INTO NEGOTIATIONS WITH THE TOWN OF CLARENCE, ERIE COUNTY, AND THE STATE OF NEW YORK TO MAINTAIN THE SITE FOR THEIR USE. IF I AM UNABLE TO REACH AN AGREEMENT WITH THEM I SHALL COMPLETELY ELIMINATE IT IN COMPLIANCE WITH CURRENT RULES AND REGULATIONS. TO AVOID THE POSSIBLE DUPLICATION OF EFFORTS I REQUEST AN EXTENSION TO FEBRUARY 20TH TO EXPLORE ALL OF THE ABOVE POSSIBILITIES. IN THE MEANTIME, THE FACILITY WILL REMAIN CLOSED TO EVERYONE.

YOUR FAVORABLE CONSIDERATION TO MY REQUEST WOULD BE GRATEFULLY APPRECIATED.

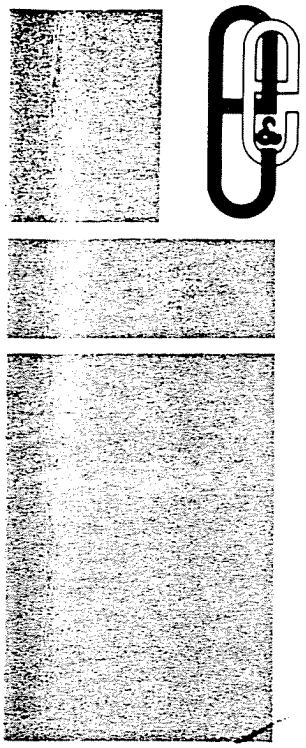
YOURS TRULY,

Paul A. Schmidt

PAS:LS

PAUL A. SCHMIDT
PRESIDENT
CLARENCE MATERIALS CORP.

REFERENCE 4



ecology and environment, inc.
International Specialists in the Environment

Job Number SB5100

CLARENCE READY MIX
Preliminary Site
Assessment - Task #1

Site Inspection - 5/3/91

E & E Job Number SB5100

Telephone Code Number _____

Site Name Clarence Ready Mix
Ransom

City/State Clarence NY

TDD _____

PAN _____

SSID _____

Start/Finish Date - 1/5/3/91

Book 1 of 1

E & E Emergency Response Center: (716) 684-8940
E & E Corporate Center: (716) 684-8060
MEDTOX Hotline: (501) 370-8263
E & E Safety Director (Home): (716) 655-1260

2

5/2/91 CLARENCE REDI-MIX
NYSDEC SITE # 915114

PURPOSE: Site Inspection of the Clarence Ready Mix Class 2a site, Site walkover for NYSDEC PSA Inactive Site.

Weather: Overcast, 50°F

Team Members: Scott Glenske - FTL
Linda Fischer - SSO

Site owner: Paul A. Schmidt President
Clarence Ready-Mix, Inc.

Arrival on Site 9:20 am.

Level D protective clothing includ steel toed boots, hard hat, glass

Log

09:20 TEAM arrived at site entry driveway southeast corner of Stage Rd. and Ransom Road intersection

0925 Met with Clarence Redi-Mix Co. representative Mr. Kevin Huber

Recycle

a truck dispatcher with the company. He has been an employee of Paul Schmidt and former site manager of gravel pit operation adjacent to site of concern.

Minirad background reading .01 mr/hr.

Upon site entry many areas of sink holes and compacting of buried larger trees, yard waste evident.

Many appliance parts, auto and truck tires visible at grade of cover over northwest quadrant and central portion of site.

Monitoring well observed northwest quad. of site see diagram.

Photo #6 of pond area on eastern portion of site taken facing east from gravel road and berm above pond surface. No oily films, discoloration noted on surface water on or around pond limits.

0945 more 'sink holes' subsidence noted in what Huber defines as center of dump area. Huber mentions Town of Clarence spring cleanup to 1978 dumped in this area. Huber never 'kept track' of what Town of Clarence + Erie County brought in. Huber participated in applying 1 foot top soil cover over debris area in 1978. This area now covered with healthy vegetation. Sink holes containing large 8-10" diameter tree trunk pieces and root systems apparent.

1000 Photo #8 taken showing 2ND Washing Area Pond marking southern boundary of site according to Huber. frame 4

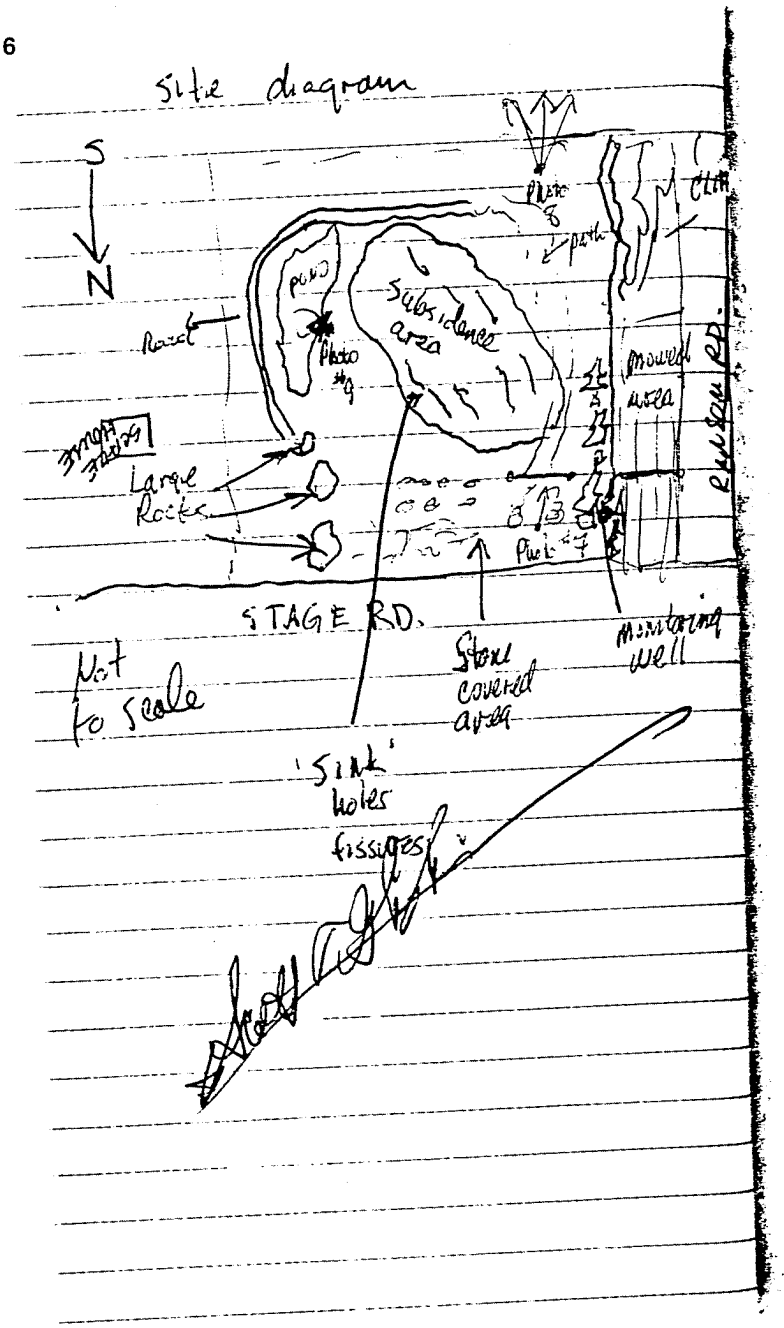
Continued site walkover heading toward scale house area where some additional illegal dumping (~~Household~~ yard wastes, rusting paint can) is noted.

frame 3

1010 Photo 7 facing south toward site entry point showing limited fencing for site access taken.

1015 Team off site, no readings of air monitoring, radiation monitoring equipment noted above background levels.

6



Recycle

REFERENCE 5

TOWN OF CLARENCE

ONE TOWN PLACE - CLARENCE, NEW YORK 14031 - TEL. 741-2802

Main Street Office
Phone number
634-8525

August 17, 1989

WILLIAM J. CASILIO
TOWN ATTORNEY

Mr. Abdul Barkat
Hazardous Waste Management Dept.
N.Y. Dept. Environmental Conservation
600 Delaware Avenue
Buffalo, New York 14202

Re: Clarence Materials Corp. Inc.
Southeast Corner, Stage & Ransom Rd.

Dear Mr. Barkat:

As per our telephone conversation of several weeks ago wherein you requested certain information regarding the above-mentioned possible hazardous waste site, I am writing to advise you of the background of this site.

First of all, I had a meeting with the Town Highway Superintendent to discuss what was dumped at this site. It was understood and agreed that the Town of Clarence was the only party that dumped at the site in question. As for the material dumped, it was all from the spring and fall brush pickups. The material consisted mainly of brush and wood material, estimated to be 95 to 98 percent of material dumped, and the balance consisted of miscellaneous trash. The miscellaneous trash did not have rubber tires in it as they were being picked up by the garbage services. Large metal pieces of furniture such as refrigerators, stoves, washing machines, dryers and such item as bed springs and the like make up a small portion of the remaining percentage.

Again, I would like to emphasize that there were no hazardous or toxic materials dumped at the site.

The procedure for dumping was for the Town trucks to bring their loads to the northwest corner and unload over a steep embankment. A Town truck was kept on the site which was filled with dirt which was in turn dumped and spread over the trash material as fast as it was dumped and leveled off.

You can be assured of the cooperation of the Town officials in clearing up this problem of the site being a possible hazardous waste site.

Yours very truly,

William J. Casilio

WILLIAM J. CASILIO

WJC/jmc

Ed VanKuren 759 - 2887
Olean Office 8 - 3799

9734 Main St
Clarence 14031

REFERENCE 6

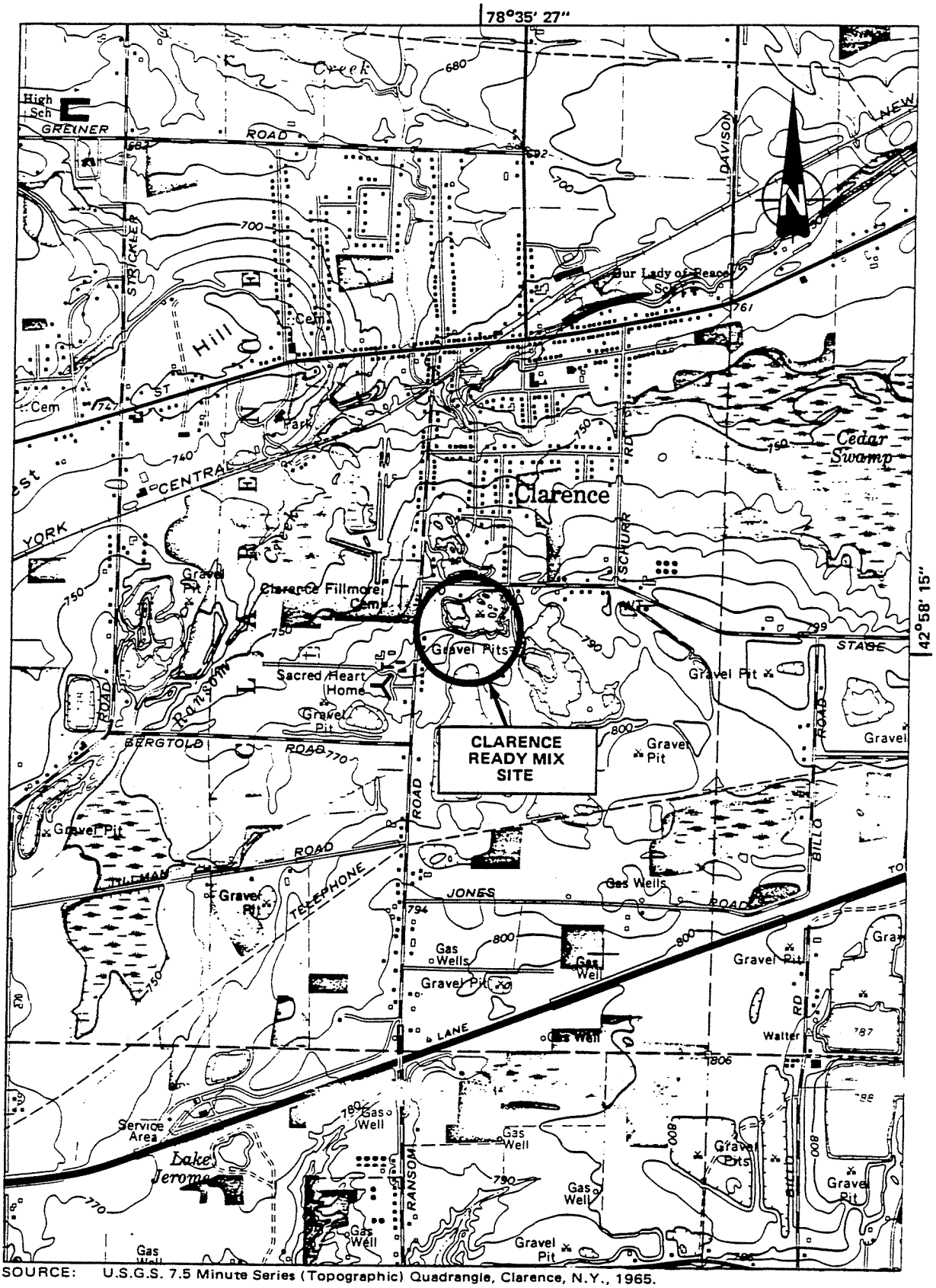


Figure 1–1 LOCATION MAP

recycled paper ecology and environment

REFERENCE 7

GEOLOGY AND HYDROLOGY OF THE ONONDAGA AQUIFER IN EASTERN ERIE COUNTY, NEW YORK, WITH EMPHASIS ON GROUND-WATER-LEVEL DECLINES SINCE 1982

By Ward W. Staubitz and Todd S. Miller

U.S. GEOLOGICAL SURVEY

Water-Resources Investigations Report 86-4317

Prepared in cooperation with

ERIE COUNTY DEPARTMENT OF ENVIRONMENT AND PLANNING

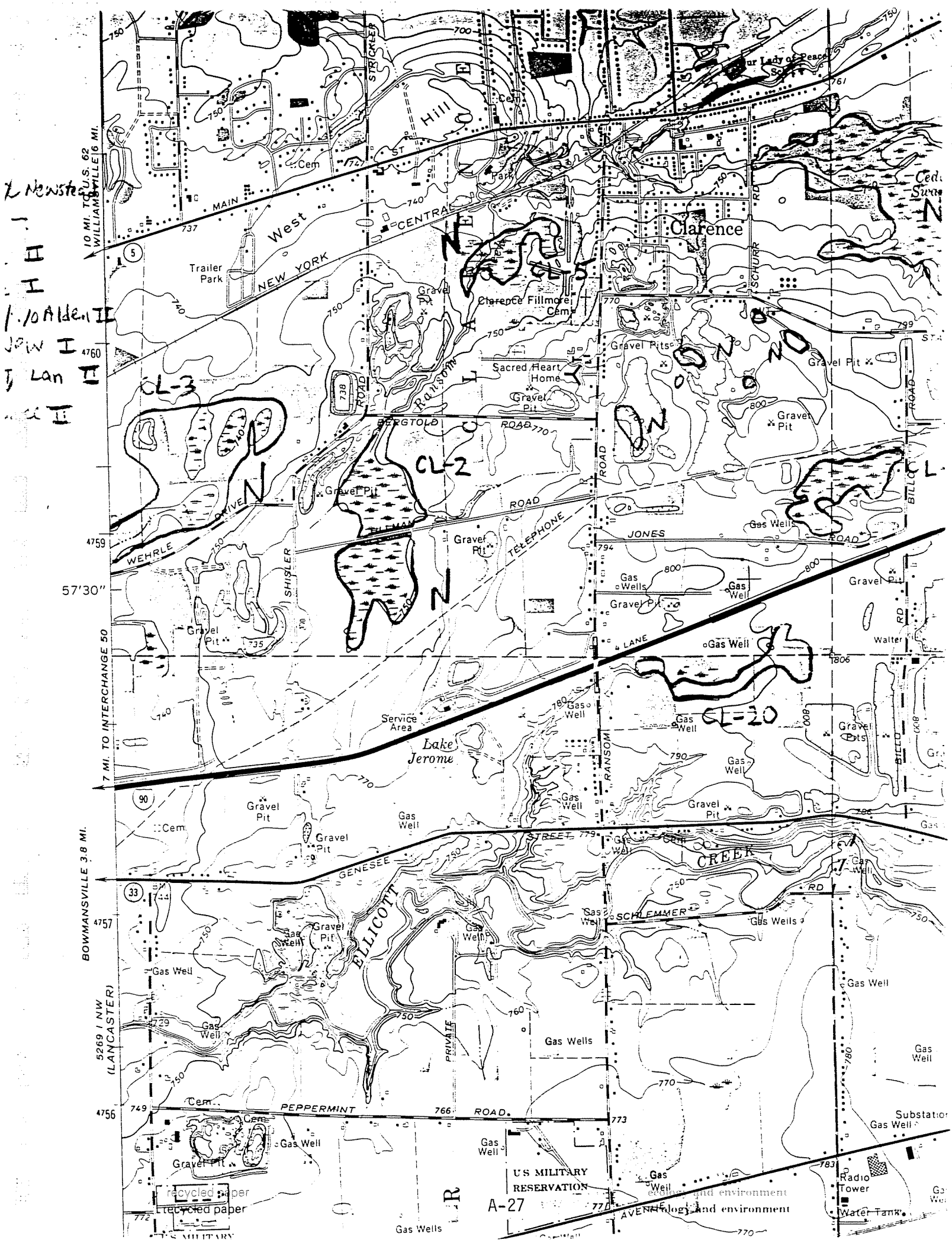
TOWNS OF CLARENCE AND NEWSTEAD

Ithaca, New York

1987

A-25

REFERENCE 8



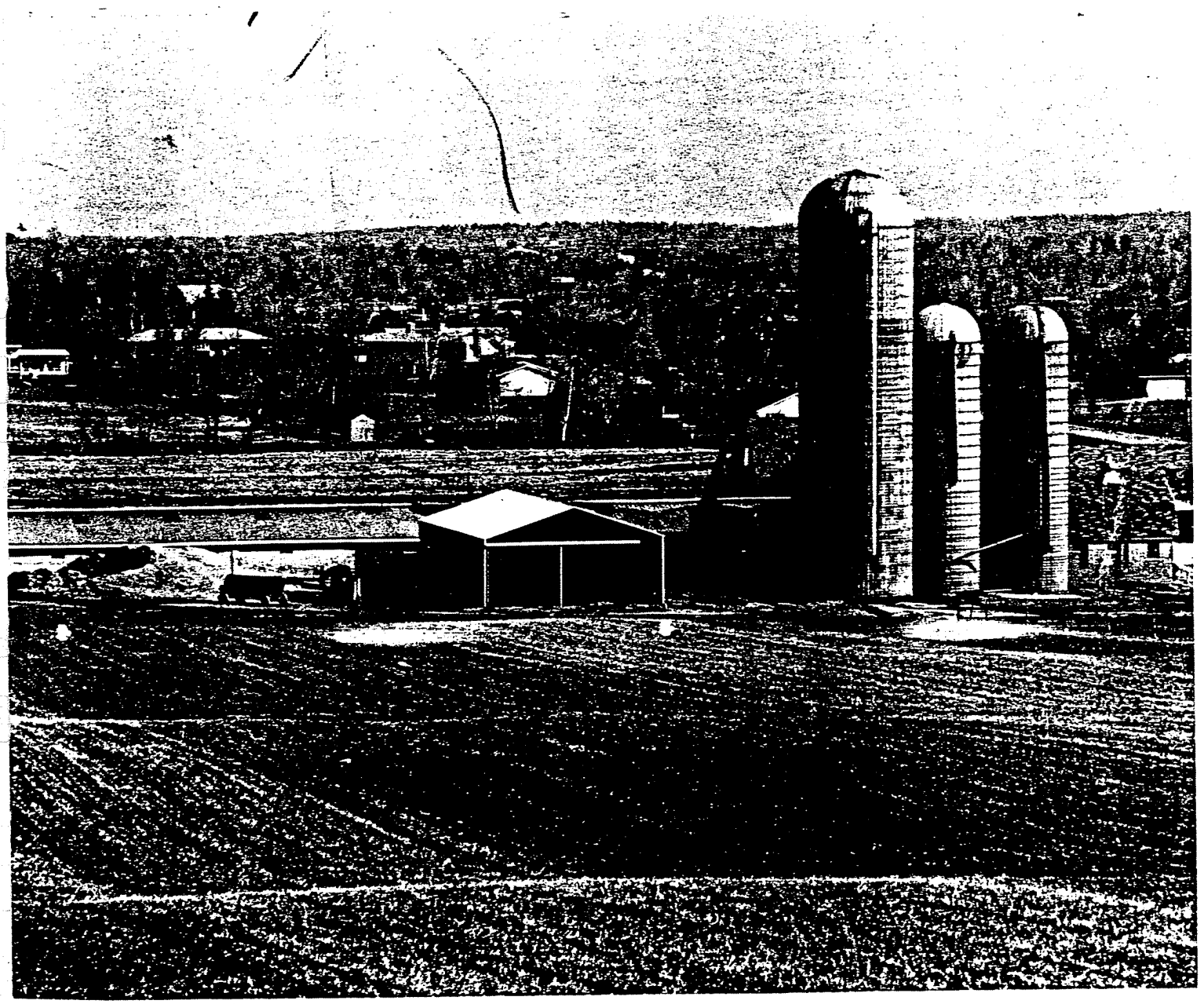
REFERENCE 9

United States Department of Agriculture

Soil Conservation Service

In Cooperation with the Cornell University Agricultural Experiment Station

Soil Survey of Erie County, New York



REFERENCE 10

CONTACT REPORT

AGENCY	:	USDA SOIL CONSERVATION SERVICE
ADDRESS	:	21 S. GROVE RD., EAST AURORA, NY
TELEPHONE	:	(716) 652-8480
PERSON CONTACTED	:	JOHN WHITNEY
TO	:	FRED MCKOSKY
FROM	:	PAM GUNTHER
DATE	:	AUGUST 25, 1987
SUBJECT	:	PRIME AGRICULTURAL LANDS THAT HAVE BEEN IN PRODUCTION SINCE 1982 FOR DEC PHASE 1 INACTIVE HAZARDOUS WASTE SITES OF ERIE CO.
XC	:	M. SIENKIEWICZ, G. FLORENTINO, J. SUNDQUIST, P. FARRELL, FILE ND-2000

John Whitney can provide aerial photos (slides) for all hazardous waste sites in Erie Co. for the following years: 1938, 1958, 1966, 1978, 1981-1987. They cost $1.00 each with a 2 week turnover time. Payment must be received in advance.

To obtain location on prime agricultural lands that have been in production over the past 5 years we looked at enlarged 1978 aerial photos that are updated annually from farmers that maintain crop records with the Agricultural Stabilization Conservation Service (ASCS). To receive federal subsidies the farmers must be in contact with ASCS. Therefore, the ASCS has a good record of who's growing what and where. Truck farmers do not receive federal subsidies and are excluded from ASCS records. Attached is a list of the distances to each prime agricultural farmland from the inactive hazardous waste site and the soil type that classifies the land as prime. Note that ASCS has fewer soil types classified as prime ag. lands than does the New York State classification system. New York State classifies all ASCS prime ag. lands as prime but also includes more soil types. Note this difference for the Gutenkist site. All other sites will have the same ag. land for both state and ASCS. Note this distance was calculated for up to 2 miles away from the site.

Mr. Whitney has also provided me with a bibleography of ground water resources for Erie County which is attached. I have also ordered the attached USGS reports that were recently published.

REFERENCE 11

GEOLOGY

OF

ERIE COUNTY

New York

BY

EDWARD J. BUEHLER

Professor of Geology
State University of New York at Buffalo

AND

IRVING H. TESMER

Professor of Geology
State University College at Buffalo

BUFFALO SOCIETY OF NATURAL SCIENCES
BULLETIN

Vol. 21. No. 3 Buffalo, 1963

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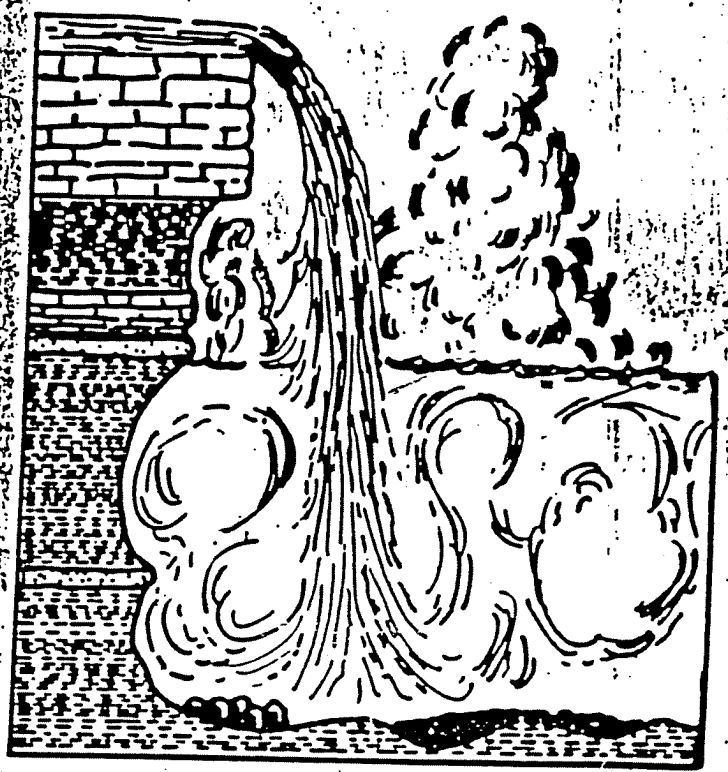
ecology and environment

REFERENCE 12

GEOLOGY OF WESTERN NEW YORK

GUIDE BOOK



NEW YORK STATE GEOLOGICAL ASSN.

38th ANNUAL MEETING

1966

DEPARTMENT OF GEOLOGICAL SCIENCES
STATE UNIVERSITY OF NEW YORK AT BUFFALO
BUFFALO, N. Y.

REFERENCE 13

CLARENCE REDI-MIX

RANSOM AND STAGE ROADS

CLARENCE, NEW YORK

SITE #915114

PREPARED BY:

Erie County Department of
Environment and Planning

December 1984

DISCLAIMER

The information contained in this document is presented to show environmental conditions, comparisons to ambient environmental standards and criteria and compliance status relative to applicable environmental regulations.

Any use of this information to assess the risks to personal or public health, identify potential personal or public liability or to estimate the costs of remedial activity should only be done after consultation with appropriate government agencies or private consultants.

BACKGROUND

The Clarence Redi-Mix site is listed in the 1980 and 1983 New York State Department of Environmental Conservation (DEC) "Inactive Hazardous Waste Disposal Site Reports". The site was reported to receive "trash and miscellaneous debris" illegally dumped at the site and is coded as a 2-A.

From our files (ECDEP) it is believed that the site was originally opened for disposal in 1970 and was used primarily by the Town of Clarence for disposal of Spring and Fall cleanup wastes. Other agencies were also reported to have used the area, Due to numerous complaints by local citizens, the owner of the site, Mr. Paul A. Schmidt, closed the site in December of 1978.

AREA SAMPLING

A preliminary sampling program was undertaken by our department to determine water quality. Sampling was conducted on May 15, 1979 from water supplies of concerned area residents.

	pH	Alkalinity	Hardness	SO^4	NO_3
David Boone	7.2	160	268	55.5	.86
Gervase Spangler	7.0	216	340	58.8	3.44
Eugene Melborne	7.2	220	340	64.7	2.06
Nelson Sweeney	7.7	220	332	58.0	.57
Raymond Casta	7.4	170	268	53.0	.55

These initial test results indicated that the water was within the limits of potability. Additional sampling for the type of contaminants that could migrate from industrial landfilling (i.e. pesticides and metals) were planned. A legal referral to DEC precluded further sampling due to possible inclusion of such in a Commissioner's Order.

LEGAL ACTION

Because of the extensive effort to bring the site into compliance, a legal referral was submitted to DEC on December 13, 1978. As a result of the legal referral, the owner developed an acceptable closure plan.

INSPECTIONS

The site has been inspected numerous times by our Department and DEC. The earliest (December 1978-August 1979) inspections (prior to closure) indicated dumping of tires, trash, roadside cleanup debris, ponding and lack of proper cover. The most recent (December 1984) inspections showed that the site has not been active. Natural vegetation had established itself. The only visual observation indicating past landfilling were several sink holes and gas-venting decomposition pockets.

COMPLIANCE

The site was inspected several times to monitor progress toward completion of a phased closure plan. Except for some time delays, it was determined that the site was properly closed. No special sampling was undertaken by DEC since it was believed that historically the site accepted only non-hazardous material.

GEOLOGY

Fortunately, a USGS groundwater testing well has been drilled very near to the site. The well (#81-4) is located near the corner of Ransom and Stage Roads. Groundwater is reported to flow northwesterly from the fill area and toward the well. Bedrock is Onondaga Limestone and is located at 47 feet below the natural ground surface. (Boring log attached to this report to be used as preliminary information.) Landfilling occurred in borrow pits excavted approximately 25 feet below grade.

GROUNDWATER SAMPLING RESULTS

The USGS well has been sampled numerous times since its construction. Although there are some elevated values, they appear to be typical for the area, as substantiated by nearby USGS monitoring wells.

SAMPLING RESULTS - WELL #81-4

PARAMETER	11/19/81	3/23/82	8/4/82	2/15/83	3/15/83	6/13/83
PCB	N.D.	.11	N.D.	N.D.	-	N.D.
CADMIUM	.002	N.D.	.001	.001	-	.001
PHENOL	.045	.008	.004	.002	-	.003
COD	116.0	18.8	14.4	14.0	-	3.2
TOC	24.1	13.7	26.8	18.8	-	26.6
LEAD	-	N.D.	N.D.	N.D	-	N.D.
PESTICIDES	-	Chloroform Present	N.D.	N.*	A-BHC (.07)	N.D.
AROMATICS	-	N.D.	N.D.	N.D.	N.D.	N.D.

N.D - NOT DETECTED

* Numerous undefined peaks obtained by gas chromatography.

\- NO SAMPLE

All results in milligrams per liter except for PCB's and Pesticides which are in micrograms per liter.

In the event that there may be an additional item or items that we should consider or take into account before finalizing our work plan, sampling the wells, or drafting our Petition, please contact the undersigned. In the absence of any expressed concern or comment from you, we will proceed with the agreed work plan on or after May 14, 1986.

Thank you very much for your past and continuing cooperation.

Very truly yours,

Leslie M. Greenbaum

LMG/clb

PCB - PCB's were detected in only one of the five samples. The single confirmed result only slightly exceeds the standards of 0.1 microgram/liter.

CADMIUM - Cadmium was detected in 4 of 5 samples but below the groundwater standard of 0.01 mg/l.

PHENOL - Values noted are above the groundwater standard of 0.001 mg/l.

AROMATICS AND PESTICIDES - Some detectable amounts of chloroform were observed. No quantitative result was available. The groundwater standard is 100 micrograms/l. A single detection of A-BHC (lindane) was noted. Again this was not confirmed. The groundwater standard for lindane is N.D. (non-detectable). In general, for the pesticides there was not enough succeptible positive test results to indicate a contamination level which would require any action.

COD - The decline in successive values is unexplainable at this time. Except for one initially high value, the range of COD was consistent for other wells in this area.

TOC - These values are consistent with other values found for wells drilled in this area.

AERIAL PHOTOGRAPHY

Review of photos taken in 1972 and 1978 indicated that extensive gravel mining operations occurred in an area bounded approximately by Ransom, Stage, Billo and Jones Roads. The aerial photography is not detailed enough to establish any dumping or landfilling on the property.

LAND USE

The area to the south is generally composed of gravel operations. The areas east and west are primarily sparse residential. Some commercial and residential development is located north of the site. The landfill area comprises approximately two acres.

GROUNDWATER USE

There are a number of residences nearby who depend on wells for their water supply.

CONCLUSIONS AND RECOMMENDATIONS

From visual observations, it is believed the site is now inactive and has been closed properly. Monitoring well samples do not indicate any trend or effect from the landfilling operations. It is believed that only non-hazardous materials were deposited on the site. Periodic sampling of well #81-4 is recommended to monitor the quality of groundwater.

GROUNDWATER EFFECTS

It is believed that the groundwater which flows from the site would travel toward a protected wetland known as "Town Park Wetlands" and to protected Ransom Creek. Well sample results do not indicate groundwater degradation which would cause adverse environmenal effects.

CONCLUSIONS AND RECOMMENDATIONS

From visual observations, it is believed the site is now inactive and has been closed properly. Monitoring well samples do not indicate any trend or effect from the landfilling operations. It is believed that only non-hazardous materials were deposited on the site. Periodic sampling of well #81-4 is recommended to monitor the quality of groundwater.

WELL NUMBER 81-4

BORING LOG

Date: Sept. 5, 1981

Location: 89 ft east of the intersection of Ransom and Stage Road, along south side of Stage Road, 23 ft south of centerline.

Sample	Remarks	Strat.	Geologic Description
	Grab sample		Sand, brn., f.-m., subrd.-rd., loose, dry c.s. - 2% m.s. - 35% f.s. - 55% rough seive analysis v.f.s.- 5% silt - 3%
	No rec.		Driller reported hard drilling at 10 ft
	1.0' rec.		Till reddish-brn., silty sand matrix, pebble clasts embedded in matrix, some c.s. A 3 in. layer of silty-v.f.s. at 12.0-12.25 ft. Dry Driller reported out of till at 14 ft.
	1.5' rec.		Pebbly sand, subrd.-rd., loose, poorly sorted, dry m. peb - 10%, f. peb.-15%, v.c.s. - 25%, c.s. - 30% m.s. - 15%, f.s. - 3%, v.f.s. - 2%, silt-trace
	1.0' rec.		Same as above
	1.0' rec.		Same as above Driller reported end of gravel at 30 ft.
	.5' rec.		Interlayering of silty f. sand with silt and clay, damp. Olive gray sand, [illegible] and clay 31.5'-31.75' - v.f.s. and silt 31.75'-32.1' - f.-m. sand, tr. c.s. 32.1'-32.6' - silt/clay 32.6'-33' - v.f.s. and silt
	1.2' rec.		Same as above 36.8'-37.6' - silt/clay 37.6'-37.75'- f.s. 37.5'-38' - silty clay
	1.0' rec.		Gravelly sand, dominently f. peb. and c.s., subrd.-rd., sat'd. peb - 43% ms - 12% vcs - 15% f.s. - 6%) silt - 1%) rough sieve analysis cs - 20% v.f.s - 3%)
			Till

2" dia pvc casing

4 cont'd

Date Sept. 5, 1981

/on-

mple Remarks	Strat.	Geologic Description
	Δ Δ Δ Δ Δ	Till, gray, silty-f.s. matrix with embedded pebbles and cobbles, dense, cohesive, poorly sorted, poor permeability, sat'd.
	////////	Bedrock at 47 ft. Onondaga Limestone
50		Well installation 2-in. dia. PVC casing 2 ft long, 2-in. dia., 8 slot screen set at 41.5-43.5 ft 2'7" of casing above LSD bentonite seal at 30-32 ft water level = 31.1 ft below LSD on 10/15/81

GROSS SHUMAN BRIZDLE LAUB & GILFILLAN, P.C.
ATTORNEYS AT LAW
26TH FLOOR - MAIN PLACE TOWER
BUFFALO, NEW YORK 14202
(716) 854-4300

LEONARD J. BRIZDLE
GORDON R. GROSS
IRVING M. SHUMAN*
DAVID C. LAUB
PETER S. GILFILLAN
DAVID H. ALEXANDER**
ROBERT J. FELDMAN
LESLIE M. GREENBAUM
RAYMOND L. FINK
JEFFREY A. HUMAN
ROBERT A. DEAN
WILLIAM E. STORRS
JOAN M. WARREN
MICHAEL O. MORSE

* N.Y. & WASH., D.C. BAR
** N.Y. & FLA. BAR

FRANK R. BAYGER
SPECIAL COUNSEL
N.Y. & FLA. BAR

May 8, 1986

5/6 ☏ Greenbaum 3:00
OK ~~go ahead~~
Probably will waive draft in July
L Clare

Lawrence G. Clare, P. E.
Senior Sanitary Engineer
New York State Department of
Environmental Conservation
600 Delaware Avenue
Buffalo, New York 14202-1073

Re: Reclassification of Inactive Hazardous Waste Disposal Site No. 915114 (Clarence Redi-Mix)

Dear Mr. Clare:

Thank you for taking the time to meet regarding my client, Clarence Materials Corporation, the current owner of the referenced site, which has a 2A classification at present. As you know, we have enlisted the assistance of Goldberg, Zoino Associates in connection with what we hope will be a successful Petition to the Commissioner of the Department of Environmental Conservation to downgrade the site classification. After reviewing the historical data previously gathered by the site owner, as well as the report on the site prepared by the Erie County Department of Environment and Planning in December of 1984, we are proceeding with a limited work plan at this time to support the Petition.

We have agreed to sample the five permanent existing wells for the same parameters tested by the Erie County Department of Environmental Planning, as shown in their December, 1984 report. The wells in question include four onsite (three upgradient and one downgradient), as well as the United States Geological Survey well downgradient. Goldberg, Zoino Associates will arrange for the sampling and analysis through a D.E.C approved laboratory.

We are also most appreciative of your offer to review a draft Petition to the Commissioner, with the historical data and new data appended. In this way, when the final Petition is made to the Commissioner, we will be able to indicate your familiarity with the site characteristics and the additional work that was undertaken and completed.

REFERENCE 14

New York State Department of Environmental Conservation
600 Delaware Avenue, Buffalo, New York 14202

Thomas C. Jorling
Commissioner

TO: Abul Barkat
FROM: Glenn M. May
SUBJECT: Clarence Redi-Mix, Site #915114

DATE: August 31, 1989

On Monday, August 28, 1989 I met Ed VanKuren, from R&D Engineering, at the Clarence Redi-Mix site. R&D has been hired by Paul Schmidt, the owner of the site, to lay the ground work for a possible delist. Mr. Schmidt is planning a closure on the quarry but wants to know the current status before doing so.

A major question concerns the boundary of the site. Mr. VanKuren believed the entire quarry was the listed site. The NUS report and the draft Phase I suggests only the northwestern area, where known dumping has taken place, is the site. The proper boundary limits need to be delineated.

A USGS monitoring well near the site has been sampled several times. PCB's at a concentration of 0.11 micrograms per liter were detected during one sampling event. The groundwater standard is 0.1 micrograms per liter. Phenols were also detected in concentrations ranging from 0.002 - 0.045 milligrams per liter. The groundwater standard is 0.001 milligrams per liter. Lead was also found in one sample at a concentration of 0.20 milligrams per liter. Lead was not detected in the four succeeding samples.

Due to these sampling results I informed Mr. VanKuren that another round of sampling would probably be required. R&D would like to arrange a meeting for the week of September 10, 1989 to discuss a sampling plan and any other investigations that could be conducted in an attempt to get the site delisted.

Enclosed is a brief history and the results of previous sampling at the site and surrounding areas.

GM:jd
Enc.

New York State Department of Environmental Conservation
600 Delaware Avenue, Buffalo, New York 14202

Thomas C. Jorling
Commissioner

Clarence Redi-Mix Site #915114
New York State Department of Environmental Conservation

Several studies have been conducted for the the Clarence Redi-Mix Site and surrounding area. These studies include (1) Investigation of Potentially Hazardous Waste Disposal Sites in Erie County, New York: The Lancaster Sanitary Landfill (DEP, 1981), (2) Water Quality Investigation, Lancaster Landfill Area, Towns of Lancaster and Clarence (DEP, ECHD and NYSDEC, 1981), (3) Clarence Redi-Mix, Ransom and Stage Raods, Clarence, New York (DEP, 1984), (4) Hydrogeologic Appraisal of Five Selected Aquifers in Erie County, New York (USGS, 1984), (5) Geology and Hydrology of the Onondaga Aquifer in Eastern Erie County, New York - with Emphasis on Groundwater Declines since 1982 (USGS, 1986), (6) Potential Hazardous Waste Site Preliminary Assessemnt of Clarence Redi-Mix (NUS, 1986), (7) Project Lakewood, Draft Environmental Impact Statement (Bossert and Owens, 1986), and (8) Draft Phase I Investigation of Clarence Redi-Mix (E&E, 1988). These studies furnish general information about the Clarence Redi-Mix site as well as water quality, and groundwater flow direction of the surrounding area.

This site, located near the corner of Ransom and Stage Roads, is now owned by Clarence Materials Handling Corporation. The site comprises approximately six acres and is estimated to be 25 feet deep (Figure 1). It is believed that the site was opened for disposal in 1970 and was used primarily by the Town of Clarence for disposal of leaves and branches from Spring and Fall cleanup. It is also reported that "miscellaneous debris" was illegally disposed of at this site. Due to numerous complaints by local citizens, the site was closed in December of 1978. The dump was covered with topsoil and vegetation now grows profusely.

In 1981 the United States Geological Survey installed several wells in the area. One well (#81-4) is located northwest of the site near the corner of Ransom and Stage Roads (Figure 1). The most studies of 1984 and 1986 indicate that groundwater flows in a northeasterly direction from the fill area towards this well. Bedrock is the Onondaga Limestone and is located at a depth of 47 feet below ground surface. The well monitors the sand and gravel aquifer.

The USGS well has been sampled numerous times since its construction. Results from these sampling events are shown in Table 1.

Table 1. Sampling Results - Well #81-4

Parameter	11/19/81	3/23/83	8/4/82	2/15/83	3/15/83	6/13/83	NYS Ground-Water Standard
PCB	N.D.	.11	N.D.	N.D.	-	N.D.	0.1
Cadmium	.002	N.D.	.001	.001	-	.001	0.01
Phenol	.045	.008	.004	.002	-	.003	0.001
COD	116.0	18.8	14.4	14.0	-	3.2	
TOC	24.1	13.7	26.8	18.8	-	26.6	
Lead	0.20	N.D.	N.D.	N.D.	-	N.D.	0.025
Pesticides	-	Chloroform Present	N.D.	N.*	A-BHC (.07)	N.D.	
Aromatics	-	N.D.	N.D.	N.D.	N.D.	N.D.	

N.D. - None Detected

*Numerous undefined peaks obtained by gas chromatography.

\- No Sample

ll results, as well as groundwater standards, are in milligrams per liter
xcept for PCB's and Pesticides which are in micrograms per liter.

Although there are some elevated values, the DEP (1984) report indicates
hat these values are typical for the area. In a related study of the
ancaster Sanitary Landfill (DEP, ECHD and NYSDEC, 1981) numerous private
groundwater wells were sampled. Many of these wells were also
ontaminated with low levels of PCB's, phenols, lead and cadmium (Figures
2-5). PCB concentrations ranged from 0.05 - 2.0 ppb and were found in 29
wells (Figure 2). No systematic distribution could be identified.
Phenols were detected in only one well on Tillman Road at a [illegible]
of 0.0015 ppm. Phenols were also detected in three [illegible] wells, the
thruway service center well, and two monitoring wells near the Lancaster
Sanitary Landfill (Figure 3). Phenol concentrations ranged from [illegible] -
0.018 ppm. Cadmium, found in small concentrations in 26 wells (Figure 4),
ranged from 0.001 - 0.010 ppm. Lead was also found in 26 wells (Figure 5
in concentrations from [illegible] - [illegible] ppm. Lead was found to be over the

groundwater standard of 0.025 ppm in 17 wells. That study also suggested, based on concentration distribution, that well contamination is probably not caused by the landfill. In addition, the USGS studies indicate that groundwater flow through the landfill is towards the west. This could explain the presence of contamination in the wells on Wehrle Drive, Faber Lane and Gunnville Road but this does not explain the presence of contaminants in wells on Tillman and Ransom Roads. This report also states that possible nearby contaminant sources may be involved such as well casing, pumps, new plumbing, and road oiling practices.

On Monday, August 28, 1989 Mr. Glenn M. May of the NYSDEC made a site Inspection with Mr. Ed VanKuren of R&D Engineering. R&D has been hired by Mr. Paul Schmidt, owner of the site, to lay the ground work for a possible delist. An area of major subsidence (Figure 1) was observed which is consistent with leave disposal. There was no sign of any "miscellaneous debris" protruding from this subsidence area. The stressed vegetation as shown in Figure 1 was not observed.

[redacted]

APPENDIX B
SITE INSPECTION REPORT
(EPA FORM 2070-13)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. SITE NAME AND LOCATION

01 Site Name (legal, common, or descriptive name of site)	02 Street, Route No., or specific location identifier				
Clarence Ready Mix	Southeast corner of Ransom and Stage roads				
03 City	**04 State**	**05 Zip Code**	**06 County**	**07 County Code**	**08 Cong. Dist.**
Town of Clarence	NY	14031	Erie	029	38

09 Coordinates		10 Type of Ownership (check one)
Latitude	Longitude	[X] A. Private [ ] B. Federal _____ [ ] C. State [ ] D. County
42° 58' 15.0"	78° 35' 27.0"	[ ] E. Municipal [ ] F. Other _____ [ ] G. Unknown

III. INSPECTION INFORMATION

01 Date of Inspection	02 Site Status	03 Years of Operation
5 / 03 / 91 Month Day Year	[ ] Active [X] Inactive	Circa 1970 | 1978 [ ] Unknown Beginning Year Ending Year

04 Agency Performing Inspection (check all that apply)
[ ] A. EPA [ ] B. EPA Contractor _____ (name of firm) [ ] C. Municipal [ ] D. Municipal Contractor _____ (name of firm)
[ ] E. State [ ] F. State Contractor Ecology & Environment Engineering, P.C. (name of firm) G. Other _____ (specify)

05 Chief Inspector	06 Title	07 Organization	08 Telephone No.
Scott Glinski	Environmental Analyst	Ecology and Environment Engineering, P.C.	(716) 684-8060
09 Other Inspectors	**10 Title**	**11 Organization**	**12 Telephone No.**
Linda Fisher	Environmental Analyst	Ecology and Environment Engineering, P.C.	(716) 684-8060
			( )
			( )
			( )
13 Site Representatives Interviewed	**14 Title**	**15 Address**	**16 Telephone No.**
Kevin Huber	Dispatch Supervisor	Clarence Materials Corporation 8615 Wehrle Dr. Williamsville, New York 14221	(716) 632-2000
			( )

17 Access Gained by (check one)	18 Time of Inspection	19 Weather Conditions
[X] Permission [ ] Warrant	9:20 am	Overcast ~50°F

IV. INFORMATION AVAILABLE FROM

01 Contact	02 Of (Agency/Organization)	03 Telephone No.
Walter E. Demick	NYSDEC	(518) 457-0538

04 Person Responsible for Site Inspection Form	05 Agency	06 Organization	07 Telephone No.	08 Date
Scott Glinski		Ecology and Environment Engineering, P.C.	(716) 684-8060	5 / 03 / 91 Month Day Year

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 Physical States (check all that apply)

[X] A. Solid
[ ] B. Powder, Fines
[ ] C. Sludge
[ ] D. Other _____
[ ] E. Slurry
[ ] F. Liquid
[ ] G. Gas

02 Waste Quantity at Site (measure of waste quantities must be independent)

Tons _____
Cubic Yards 3,667 (est.)
No. of Drums _____

03 Waste Characteristics (check all that apply)

[ ] A. Toxic
[ ] B. Corrosive
[ ] C. Radioactive
[ ] D. Persistent
[ ] E. Soluble
[ ] F. Infectious
[ ] G. Flammable
[ ] H. Ignitable
[ ] I. Highly volatile
[ ] J. Explosive
[ ] K. Reactive
[ ] L. Incompatible
[X] M. Not applicable
[ ] Unknown

III. WASTE TYPE

Category	Substance Name	01 Gross Amount	02 Unit of Measure	03 Comments
SLU	Sludge			
OLW	Oily waste			
SOL	Solvents			
PSD	Pesticides			
OOC	Other organic chemicals			
IOC	Inorganic chemicals			
ACD	Acids			
BAS	Bases			
MES	Heavy metals			

IV. HAZARDOUS SUBSTANCES (see Appendix for most frequently cited CAS Numbers)

01 Category	02 Substance Name	03 CAS Number	04 Storage/Disposal Method	05 Concentration	06 Measure of Concentration
OCC					
OCC					

V. FEEDSTOCKS (see Appendix for CAS Numbers)

Category	01 Feedstock Name	02 CAS Number	Category	01 Feedstock Name	02 CAS Number
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

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

Ecology and Environment Engineering P.C., site inspections 1987 and 1991

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 [X] A. Groundwater Contamination — 02 [X] Observed (date 3/82) — [ ] Potential — [ ] Alleged
03 Population Potentially Affected 751 — 04 Narrative Description:

PCBs, chloroform, phenol, alpha-BHC detected near site; low levels, unknown source.

01 [X] B. Surface Water Contamination — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Population Potentially Affected 0 — 04 Narrative Description:

Minimal potential exists for hazardous materials to enter the south pond due to high permeability of soil.

01 [ ] C. Contamination of Air — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
03 Population Potentially Affected _____ — 04 Narrative Description:

Low potential; no on-site ambient air readings above background were detected by an HNU air monitoring instrument during the site inspection.

01 [X] D. Fire/Explosive Conditions — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
03 Population Potentially Affected Unknown — 04 Narrative Description:

The potential exists for methane production from the decomposition of organic materials.

01 [X] E. Direct Contact — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Population Potentially Affected Unknown — 04 Narrative Description:

Minimal potential exists for direct contact.

01 [X] F. Contamination of Soil — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Area Potentially Affected 6 acres — 04 Narrative Description:

Minimal potential exists for soil contamination on site.

01 [X] G. Drinking Water Contamination — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Population Potentially Affected 751 — 04 Narrative Description:

Minimal potential exists for possible contaminants from the site to enter the Onondaga aquifer.

01 [ ] H. Worker Exposure/Injury — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Workers Potentially Affected _____ — 04 Narrative Description:

01 [X] I. Population Exposure/Injury — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Population Potentially Affected 751 — 04 Narrative Description:

Minimal potential exposure resulting from contamination of the drinking water.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. HAZARDOUS CONDITIONS AND INCIDENTS (Cont.)

01 [X] J. Damage to Flora — 02 [X] Observed (date 8-21-87) — [ ] Potential — [ ] Alleged
04 Narrative Description:

Two locations at the site had burnt brown vegetation.

01 [ ] K. Damage to Fauna — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None observed.

01 [X] L. Contamination of Food Chain — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
04 Narrative Description:

The potential exists because the site inspection revealed evidence that animals were inhabiting the site.

01 [X] M. Unstable Containment of Wastes (spills/ runoff/standing liquids, leaking drums) — 02 [ ] Observed (date _____) — [X] Potential — [ ] Alleged
03 Population Potentially Affected: _____
04 Narrative Description:

Pit containing waste is not adequately covered. Fissures were noted during the site inspection.

01 [ ] N. Damage to Off-site Property — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None observed.

01 [ ] O. Contamination of Sewers, Storm Drains, WWTPs — 02 [ ] Observed (date _____) — [ ] Potential — [ ] Alleged
04 Narrative Description:

None documented.

01 [X] P. Illegal/Unauthorized Dumping — 02 [X] Observed (date 12-6-78) — [ ] Potential — [ ] Alleged
04 Narrative Description:

Observed by NYSDEC on a site inspection performed on 12-6-78.

05 Description of Any Other Known, Potential, or Alleged Hazards

III. TOTAL POPULATION POTENTIALLY AFFECTED 751

IV. COMMENTS

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

NYSDEC file information, E & E site inspections 1987 and 1991, ECDEP file information

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. PERMIT INFORMATION

01 Type of Permit Issued (check all that apply)	02 Permit Number	03 Date Issued	04 Expiration Date	05 Comments
[ ] A. NPDES				
[ ] B. UIC				
[ ] C. AIR				
[ ] D. RCRA				
[ ] E. RCRA Interim Status				
[ ] F. SPCC Plan				
[ ] G. State (specify)				
[ ] H. Local (specify)				
[ ] I. Other (specify)				
[X] J. None				

III. SITE DESCRIPTION

01 Storage Disposal (check all that apply)	02 Amount	03 Unit of Measure
[ ] A. Surface Impoundment		
[ ] B. Piles		
[ ] C. Drum, Aboveground		
[ ] D. Tank, Aboveground		
[ ] E. Tank, Belowground		
[X] F. Landfill	3,667	cu. yds.
[ ] G. Landfarm		
[ ] H. Open Dump		
[ ] I. Other _____ (specify)		

04 Treatment (check all that apply)

- [ ] A. Incineration
- [ ] B. Underground Injection
- [ ] C. Chemical/Physical
- [ ] D. Biological
- [ ] E. Waste Oil Processing
- [ ] F. Solvent Recovery
- [ ] G. Other Recycling Recovery
- [ ] H. Other _____ (specify)

05 Other

[X] Buildings On Site

1

06 Area of Site

6 Acres

07 Comments

Gravel pit filled with debris, tires, trash, and appliances.

IV. CONTAINMENT

01 Containment of Wastes (check one)

[ ] A. Adequate, Secure [ ] B. Moderate [X] C. Inadequate, Poor [ ] D. Insecure, Unsound, Dangerous

02 Description of Drums, Diking, Liners, Barriers, etc.

Cover cracked and slumping, woodchuck holes observed. No liner.

V. ACCESSIBILITY

01 Waste Easily Accessible [ ] Yes [X] No

02 Comments

Fill is covered but there are cracks.

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

E & E site inspections 1987 and 1991.

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. DRINKING WATER SUPPLY

01 Type of Drinking Supply (check as applicable)

	Surface	Well
Community	A. [X]	B. [X]
Non-community	C. [ ]	D. [X]

02 Status

Endangered	Affected	Monitored
A. [ ]	B. [ ]	C. [ ]
D. [ ]	E. [ ]	F. [ ]

03 Distance to Site

A. >2 (mi)

B. 0.1 (mi)

III. GROUNDWATER

01 Groundwater Use in Vicinity (check one)

[X] A. Only Source for Drinking [ ] B. Drinking (other sources available) Commercial, Industrial, Irrigation (no other water sources available) [ ] C. Commercial, Industrial, Irrigation (limited other sources available) [ ] D. Not Used, Unusable

02 Population Served by Groundwater 751

03 Distance to Nearest Drinking Water Well 0.1 (mi)

04 Depth to Groundwater	05 Direction of Groundwater Flow	06 Depth to Aquifer of Concern	07 Potential Yield of Aquifer	08 Sole Source Aquifer
0-30 (ft)	WNW	30 (ft)	Unknown (gpd)	[ ] Yes [X] No [ ] Unknown

09 Description of Wells (including usage, depth, and location relative to population and buildings)

Drinking wells in area 0.1 mile north of site, depth 40-50 feet in Onondaga limestone aquifer. USGS monitoring well at northwest corner of site.

10 Recharge Area	11 Discharge Area
[X] Yes | Comments: Aquifer recharged by precipitation [ ] No |	[ ] Yes | Comments: Discharge is to Lake Erie [X] No |

IV. SURFACE WATER

01 Surface Water (check one)

[ ] A. Reservoir, Recreation, Drinking Water Source [ ] B. Irrigation, Economically Important Resources [X] C. Commercial, Industrial [ ] D. Not Currently Used

02 Affected/Potentially Affected Bodies of Water

Name:	Affected	Distance to Site
Pond at south end of site	[ ]	10 feet (mi)
	[ ]	(mi)
	[ ]	(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	02 Distance to Nearest Population
	A. 2,298 No. of Persons	B. 5,553 No. of Persons	C. 8,530 No. of Persons	0.1 (mi)

03 Number of Buildings Within Two (2) Miles of Site

1,877

04 Distance to Nearest Off-Site Building

100 yards (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)

Sparse residential

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

VI. ENVIRONMENTAL INFORMATION

01 Permeability of Unsaturated Zone (check one)

[ ] A. Impermeable (less than 10^{-6} cm/sec) [ ] B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) [ ] C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) [X] D. Very Permeable (greater than 10^{-2} cm/sec)

02 Permeability of Bedrock (check one)

[ ] A. Impermeable (less than 10^{-6} cm/sec) [ ] B. Relatively Impermeable (10^{-4} - 10^{-6} cm/sec) [X] C. Relatively Permeable (10^{-2} - 10^{-4} cm/sec) [ ] D. Very Permeable (greater than 10^{-2} cm/sec)

03 Depth to Bedrock	04 Depth of Contaminated Soil Zone	05 Soil pH
47 (ft)	Est. 25 (ft)	Unknown

06 Net Precipitation	07 One Year 24-Hour Rainfall	08 Slope Site Slope	Direction of Site Slope	Terrain Average Slope
9 (in)	2.1 (in)	6 %	South	3-5 %

09 Flood Potential

Site is in 500 Year Floodplain

10 [ ] Site is on Barrier Island, Coastal High Hazard Area, Riverine Floodway

11 Distance to Wetlands (5 acre minimum)

ESTUARINE OTHER

A. _____ (mi) B. 0.3 (mi)

12 Distance to Critical Habitat (of endangered species)

>2 (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	AGRICULTURAL LANDS AG LAND
A. 0 (mi)	B. 0.1 (mi)	C. 0.3 (mi)	D. 0.3 (mi)

14 Description of Site in Relation to Surrounding Topography

Site is 2,000 feet south of the Village of Clarence. Immediately north of, and adjacent to the site is Stage Road and a sparse residential area. East and south of the site are the gravel mining operations. West of the site is a mowed field, Ransom Road, and a large cemetery.

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

Ecology and Environment Engineering, P.C. site inspections 1987 and 1991
USGS Topographical Map, Clarence Quadrangle
NYSDEC files
Staubitz, USGS, 1987
ECDEP files
Wetland maps

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION	I. IDENTIFICATION	
	01 State NY	02 Site Number 915114

II. SAMPLES TAKEN None

Sample Type	01 Number of Samples Taken	02 Samples Sent To	03 Estimated Date Results Available
Groundwater			
Surface Water			
Waste			
Air			
Runoff			
Spill			
Soil			
Vegetation			
Other			

III. FIELD MEASUREMENTS TAKEN

01 Type	02 Comments
HNu	No readings above background.
Minirad	No readings above background.

IV. PHOTOGRAPHS AND MAPS

01 Type [X] Ground [ ] Aerial	02 In Custody of Ecology and Environment Engineering P.C. (name of organization or individual)

03 Maps	04 Location of Maps
[X] Yes [ ] No	Ecology and Environment Engineering, P.C.

V. OTHER FIELD DATA COLLECTED (provide narrative description of sampling activities)

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

E & E site inspections, 1987 and 1991

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 7 - OWNER INFORMATION

I. IDENTIFICATION

01 State	02 Site Number
NY	915114

II. CURRENT OWNER(S)			PARENT COMPANY (if applicable)		
01 Name Paul A. Schmidt Clarence Materials Handling Corporation	02 D&B Number		08 Name	09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) 1007 Pineledge Drive		04 SIC Code	10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code
05 City Clarence	06 State NY	07 Zip Code 14031	12 City	13 State	14 Zip Code
01 Name	02 D&B Number		08 Name	09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code
05 City	06 State	07 Zip Code	12 City	03 State	14 Zip Code
01 Name	02 D&B Number		08 Name	09 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.)		04 SIC Code	10 Street Address (P.O. Box, RFD #, etc.)		11 SIC Code
05 City	06 State	07 Zip Code	12 City	13 State	14 Zip Code

III. PREVIOUS OWNER(S) (list most recent first)			IV. REALTY OWNER(S) (if applicable, list most recent first)		
01 Name Eric A. Krehbidl	02 D&B Number		01 Name	02 D&B Number	
03 Street Address (P.O. Box, RFD #, etc.) Unknown		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
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 (cite specific references, e.g., state files, sample analysis, reports)

Al Weber, Town of Clarence Real Property Appraiser, 1987

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION	I. IDENTIFICATION	
	01 State NY	02 Site Number 915114

II. CURRENT OPERATOR (provide if different from owner)			OPERATOR'S PARENT COMPANY (if applicable)		
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				
III. PREVIOUS OPERATOR(S) (list most recent first; provide if different from owner)			PREVIOUS OPERATORS' PARENT COMPANIES (if applicable)		
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				
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)

Al Weber, Town of Clarence Real Property Appraiser, 1987

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

PART 9 - GENERATOR/TRANSPORTER INFORMATION

I. IDENTIFICATION	
01 State: NY	02 Site Number: 915114

II. ON-SITE GENERATOR

01 Name	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	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	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 (cite specific references, e.g., state files, sample analysis, reports)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION	
	01 State NY	02 Site Number 915114

II. PAST RESPONSE ACTIVITIES

01 [ ] A. Water Supply Closed 04 Description:	02 Date _____	03 Agency _____
01 [ ] B. Temporary Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 [ ] C. Permanent Water Supply Provided 04 Description:	02 Date _____	03 Agency _____
01 [ ] D. Spilled Material Removed 04 Description:	02 Date _____	03 Agency _____
01 [ ] E. Contaminated Soil Removed 04 Description:	02 Date _____	03 Agency _____
01 [ ] F. Waste Repackaged 04 Description:	02 Date _____	03 Agency _____
01 [ ] G. Waste Disposed Elsewhere 04 Description:	02 Date _____	03 Agency _____
01 [ ] H. On-Site Burial 04 Description:	02 Date _____	03 Agency _____
01 [ ] I. In Situ Chemical Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] J. In Situ Biological Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] K. In Situ Physical Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] L. Encapsulation 04 Description:	02 Date _____	03 Agency _____
01 [ ] M. Emergency Waste Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] N. Cutoff Walls 04 Description:	02 Date _____	03 Agency _____
01 [ ] O. Emergency Diking/Surface Water Diversion 04 Description:	02 Date _____	03 Agency _____
01 [ ] P. Cutoff Trenches/Sump 04 Description:	02 Date _____	03 Agency _____

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES	I. IDENTIFICATION	
	01 State NY	02 Site Number 915114

II. PAST RESPONSE ACTIVITIES (Cont.)

01 [ ] Q. Subsurface Cutoff Wall 04 Description:	02 Date _____	03 Agency _____
01 [ ] R. Barrier Walls Constructed 04 Description:	02 Date _____	03 Agency _____
01 [X] S. Capping/Covering 04 Description: Site was capped with approximately 2 feet of soil following its closure in 1978.	02 Date 1978	03 Agency Clarence Materials Corp.
01 [ ] T. Bulk Tankage Repaired 04 Description:	02 Date _____	03 Agency _____
01 [ ] U. Grout Curtain Constructed 04 Description:	02 Date _____	03 Agency _____
01 [ ] V. Bottom Sealed 04 Description:	02 Date _____	03 Agency _____
01 [ ] W. Gas Control 04 Description:	02 Date _____	03 Agency _____
01 [ ] X. Fire Control 04 Description:	02 Date _____	03 Agency _____
01 [ ] Y. Leachate Treatment 04 Description:	02 Date _____	03 Agency _____
01 [ ] Z. Area Evacuated 04 Description:	02 Date _____	03 Agency _____
01 [ ] 1. Access to Site Restricted 04 Description:	02 Date _____	03 Agency _____
01 [ ] 2. Population Relocated 04 Description:	02 Date _____	03 Agency _____
01 [ ] 3. Other Remedial Activities 04 Description:	02 Date _____	03 Agency _____

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

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION	I. IDENTIFICATION	
	01 State NY	02 Site Number 915114

II. ENFORCEMENT INFORMATION

01 Past Regulatory/Enforcement Action [X] Yes [ ] No

02 Description of Federal, State, Local Regulatory/Enforcement Action

NYSDEC legal referral
Alleged violation of 6NYCRR360
December 8, 1978

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

APPENDIX C
INTERVIEW DOCUMENTATION FORMS

An unsigned Document of Interview indicates that the person interviewed did not return the form as requested by the interviewer.

INTERVIEW ACKNOWLEDGMENT FORM

SITE NAME:	Clarence Ready Mix
PERSON CONTACTED:	Kevin Huber
AFFILIATION:	Dispatch Supervisor, Clarence Materials and Handling Corporation
ADDRESS:	Wehrle Drive, Williamsville, New York
TYPE OF CONTACT:	Interviewed During Site Inspection on May 3, 1991
I.D. NUMBER:	915114
DATE:	May 3, 1991
PHONE NUMBER:	716/632-2000
CONTACT PERSON(S):	Scott Glinski Linda Fischer

INTERVIEW SUMMARY:

Mr. Huber has been an employee of the Clarence Materials and Handling Corporation for 12 years.

Mr. Huber was aware that the site received only organic debris, i.e., tree stumps and leaves. Clarence Highway Department collects such material during the spring and fall collection. This material was dumped in the gravel pit from 1970 to 1978.

The site stopped receiving organic debris in 1978.

The site is checked regularly for any type of disposal.

ACKNOWLEDGMENT

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to Ecology and Environment Engineering, P.C. interviewer(s) (as revised below, if necessary).
Revisions: (please write in any corrections needed to the above transcript)

Signature Kenneth R Hurley Date 8-12-92