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ENGINEERING INVESTIGATIONS AT INACTIVE HAZARDOUS WASTE SITES

PHASE 1 INVESTIGATION
Amenia - Route 22 South
Site No. 314006
Town of Amenia, Dutchess County
Final - August 1986

Prepared for:

New York State Department of Environmental Conservation

50 Wolf Road, Albany, New York 12233
Henry G. Williams, Commissioner

Division of Solid and Hazardous Waste
Norman H. Nosenchuck, P.E., Director

Prepared by:

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

EA REPORT DEC51A

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

AMENIA - ROUTE 22, SOUTH SITE
TOWN OF AMENIA, DUTCHESS COUNTY
NEW YORK ID NO. 314006

Prepared for

Division of Solid and Hazardous Waste
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233-0001

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Middletown, New York 10940

A Division of EA Engineering, Science, and Technology, Inc.

August 1986

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1. EXECUTIVE SUMMARY

The Amenia - Route 22, South site (New York ID No. 314006, EPA ID No. NYD980641559) is an inactive landfill approximately 10 acres in size, located on the west side of State Route 22 (about 2 miles south of Amenia) in the Town of Amenia, Dutchess County, New York. The site is privately owned and was leased by the Town of Amenia for a number of years for disposal of municipal wastes from the Town of Amenia and from Sharon, Connecticut. It is not known when operation of the landfill began. A New York State Department of Environmental Conservation (NYSDEC) report indicates the landfill closed in 1975.

The site was developed in a former gravel pit. The landfill is partially surrounded by a marsh on the west and north perimeters (Figure 1-1). It was reported that some time after January 1969, a number of 55-gal drums were stored at the landfill (Figure 1-1). It is not known what the drums contained, if anything. Some of the drums were subsequently removed, and it is suspected that some of the drums were buried on site.

The NYSDEC suspects that industrial wastes were received at the site. There is no documentation of industrial wastes being disposed of at the Amenia site.

The preliminary HRS scores for this site are as follows: Migration Score (S_M) = 0; Direct Contact Score (S_{DC}) = 0. There is insufficient data available to prepare a final HRS. Soil, surface water, and ground-water data are

lacking. If ground-water and surface water contamination are confirmed, the maximum S_M would be 34.86. The low Migration Score obtained is due to the lack of available information on waste characteristics and quantity.

It is recommended that a Phase II program be initiated at the Amenia site. A more thorough records search needs to be conducted to obtain a more complete history of the waste disposal practices and site operations. Interviews with former operators and land owners should be conducted. The proposed Phase II study would include installation of four test borings/observation wells beyond the known dump areas, and collection and analysis of ground-water, surface water, and stream sediment samples. The estimated total cost to complete a Phase II program at this site is $80,160.

Site Coordinates:

Latitude: 41° 49' 38.9"
Longitude: 73° 33' 47.1"

AMENIA - ROUTE 22 , SOUTH SITE

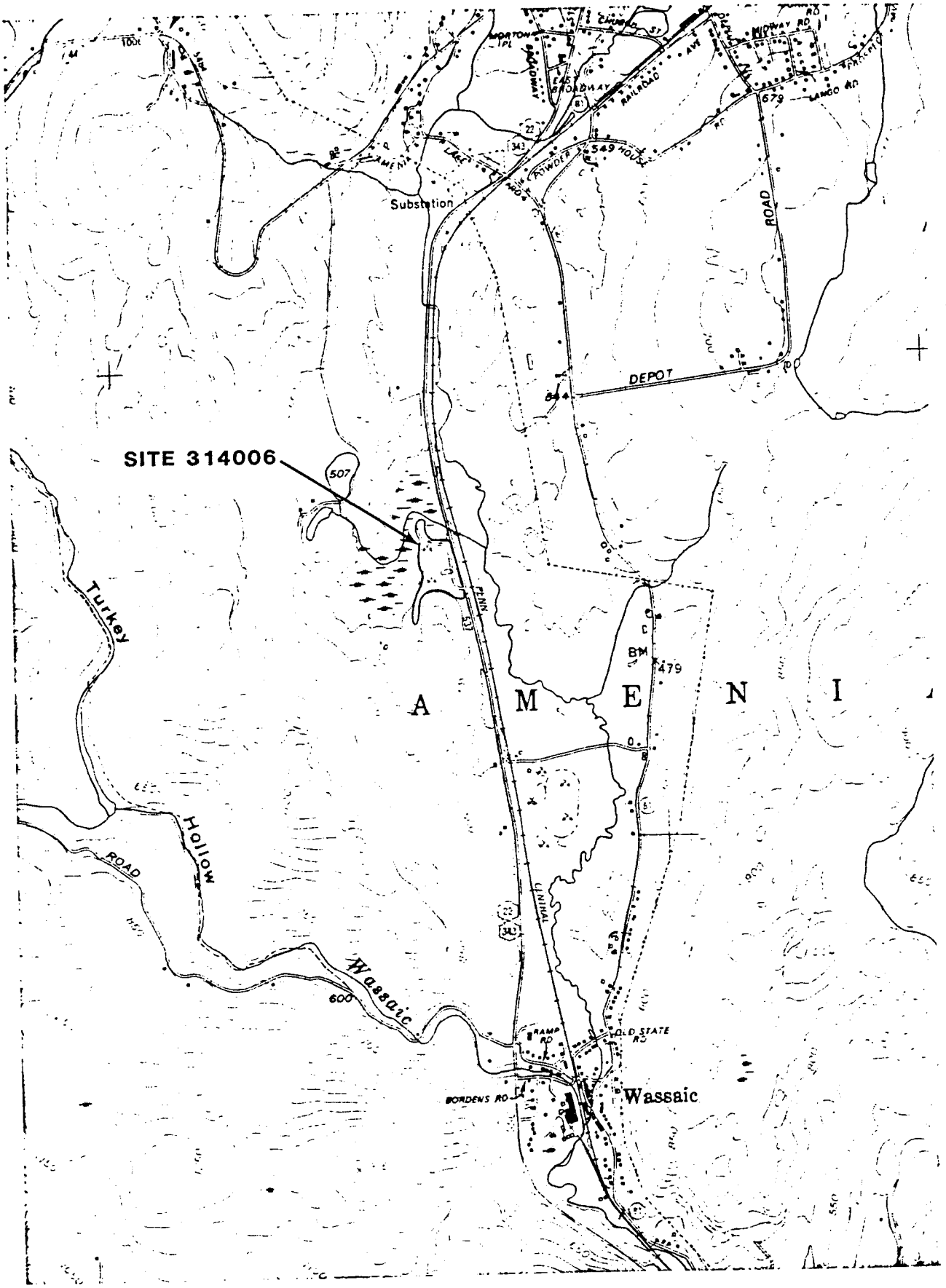


Figure 1-1. Locator map (Base map: NYSDOT. 1973. 7.5-Minute Series Topographic. Scale 1:24,000).

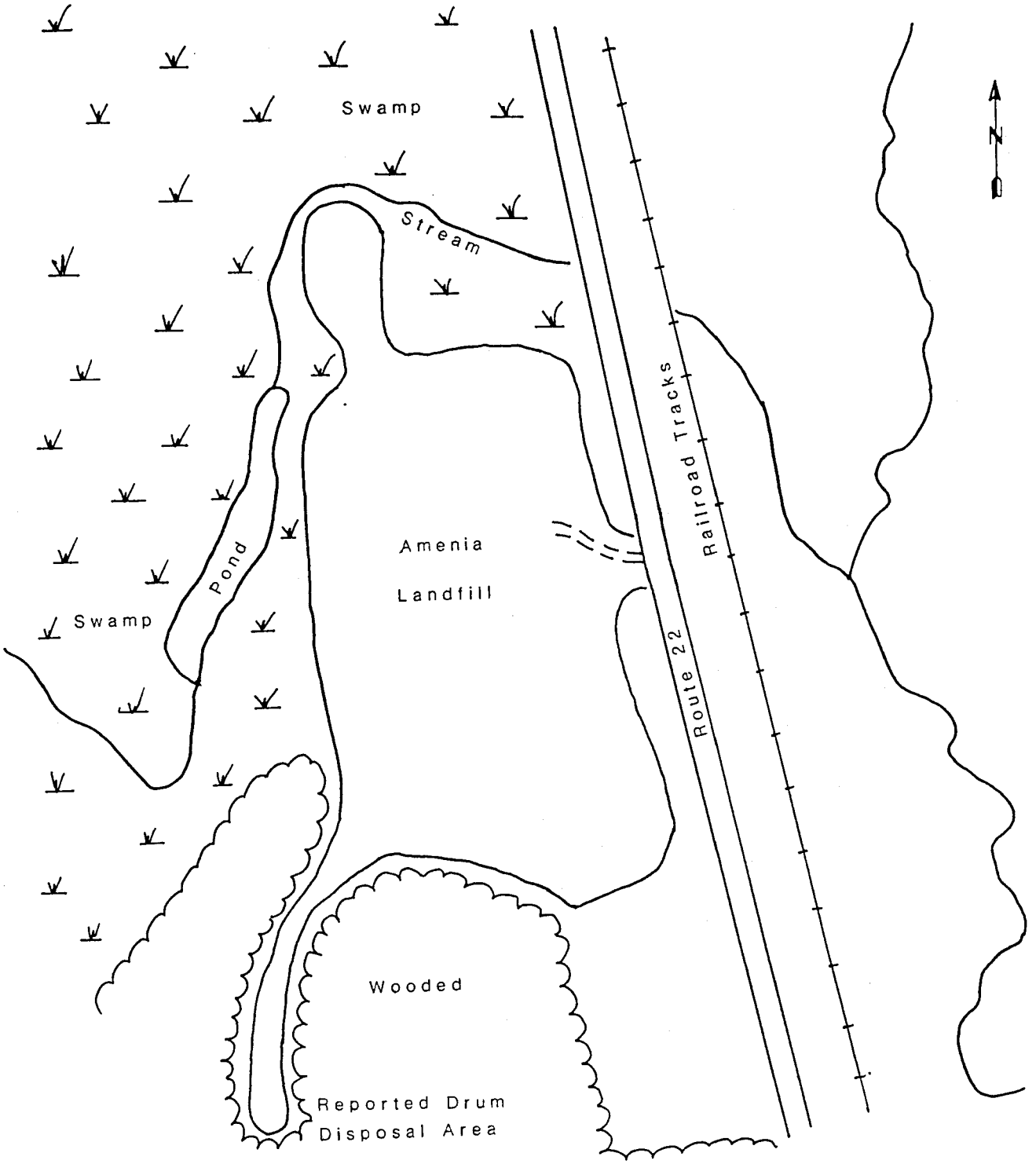


Figure 1-2. Site sketch. Amenia-Route 22, South site, 16 January 1985 (Not to scale).

2. PURPOSE

The Amenia - Route 22, South site was listed on the New York State Registry of Inactive Hazardous Wastes Sites because it is an inactive municipal dump where industrial wastes may have been disposed of. There is insufficient information available to determine if hazardous wastes were disposed of at the site.

The goal of the Phase I investigation of this site was to: (1) obtain available records on the site history from state, federal, county, and local agencies; (2) obtain information on site topography, geology, local surface water and ground-water use, previous contamination assessments, and local demographics; (3) interview site owners, operators, and other groups or individuals knowledgeable of site operations; (4) conduct a site inspection to observe current conditions; and (5) prepare a Phase I report. The Phase I report includes a preliminary Hazard Ranking Score (HRS), an assessment of the available information, and a recommended work plan for Phase II studies if warranted. Phase II studies are suggested if sampling and analyses will better support the HRS and possibly result in a higher score.

3. SCOPE OF WORK

The Phase I investigation of the Amenia - Route 22, South site involved a site inspection by EA Science and Technology, as well as record searches and interviews. The following agencies or individuals were contacted:

Contact	Information Received
Mr. Harry Bly, Chairman Amenia Zoning Board of Appeals Benson Road Wassaic, New York 12592 (914) 373-9024	Interview
Mr. William Sullivan, P.E. Senior Sanitary Engineer New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453	In-place toxics file
Mr. Ed Cassidy, P.E. New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453	No file/information
Mr. Jack Hill Director of Environmental Health Dutchess County Health Department County Office Building 22 Market Place Poughkeepsie, New York 12601 (914) 431-2044	Site file
Mr. Charlie Shaw Dutchess County Environmental Management Council Route 44 Millbrook, New York 12545 (914) 677-3488	Site file

Contact	Information Received
Mr. Louis A. Evans, Atty. New York State Department of Environmental Conservation 202 Mamaroneck Avenue White Plains, New York 10601-5381	No file/information
Mr. Marsden Chen, P.E. New York State Department of Environmental Conservation Bureau of Site Control 50 Wolf Road Albany, New York 12233-0001 (518) 457-0639	Site file
Mr. Kevin Walter, P.E. New York State Department of Environmental Conservation Division of Hazardous Waste Enforcement 50 Wolf Road Albany, New York 12233-0001 (518) 457-5637	No file/information
Mr. John Iannotti, P.E. New York State Department of Environmental Conservation Bureau of Remedial Action 50 Wolf Road Albany, New York 12233-0001 (518) 457-5637	No file/information
Mr. Earl Barcomb, P.E. New York State Department of Environmental Conservation Landfill Operations Vatrano Road Albany, New York 12205 (518) 457-2051	No file/information
Mr. Peter Skinner, P.E. New York State Attorney General's Office Room 221 Justice Building Albany, New York 12224 (518) 474-2432	No file/information

Contact	Information Received
Mr. Ron Tramontano/Mr. Charlie Hudson Bureau of Toxic Substance Assessment New York State Department of Health Empire State Plaza Corning Tower Building Albany, New York 12237 (518) 473-8427	No file/information
Mr. James Covey, P.E. New York State Department of Health Empire State Plaza Corning Tower Building Albany, New York 12237 (518) 473-4637	Community Water Supply Atlas
Mr. Alvin Reilley New York State Department of Health Regional Director of PH Engineering 145 Huguenot Street Fifth Floor New Rochelle, New York 10801 (914) 632-4133	No file/information
Mr. Perry Katz U.S. Environmental Protection Agency Region II Room 757 26 Federal Plaza New York, New York 10278 (212) 264-4595	No file/information
Ms. Diana Messina U.S. Environmental Protection Agency Region II Surveillance and Monitoring Branch Woodbridge Avenue Edison, New Jersey 08837 (201) 321-6776	No file/information
Mr. Wayne Elliot Regional Fisheries Manager New York State Department of Environmental Conservation 21 South Putt Corners Road New Paltz, New York 12561 (914) 255-5453	Surface water use for recreation

Contact

Mr. Robert F. Dibble
District Conservationist
Dutchess Soil and Water
Conservation District
Farm and Home Center
Route 44, P.O. Box 37
Millbrook, New York 12545
(914) 677-3194

Information Received

Irrigation

4. SITE ASSESSMENT - AMENIA

4.1 SITE HISTORY

The Town of Amenia - Route 22, South site is an inactive municipal dump, approximately 10 acres in size, located on the west side of Route 22 in the Town of Amenia, Dutchess County, New York. The southern portion of the site area has recently been purchased by Mr. John Segalla of Leedsville Road, Amenia, New York 12501 (Appendix A1.1-1). The northern portion is currently owned by Mr. Karl Saliter of Box 128, Jackson Hill Road, Sharon, Connecticut 06069. Available information on the history of the site relative to the period of operation, site owners during operation of the dump, and location of the fill areas is incomplete. Mr. Harry Bly, Chairman, Amenia Zoning Board of Appeals, was interviewed during the site inspection conducted by EA on 16 January 1985, and provided information on his knowledge of the site (Appendix A1.1-2).

It is not known when operation of the site as a dump began. However, the dump operated for many years receiving municipal wastes from the Towns of Amenia, New York and Sharon, Connecticut. The site was privately owned by the "Murphy brothers" for a period of time during operation of the disposal area. A local resident, Mr. Surico, operated the site for a number of years. At an unknown point in time, he purchased the northern section of the site area from the Murphys (Appendix A1.1-1). Mr. Surico was forced to close the site in January 1969 by the Town of Amenia (Appendix A1.1-3). At closure, an unknown number of

55-gal drums were stored on the Surico property (Appendix A1.1-2). It is not known what was stored in the drums, if anything. Some of the drums were removed at a later time.

Following closure in January 1969, the Town of Amenia opened an emergency disposal area on property owned by Walt and Eleanor Culver that is located to the north of the site in question (Appendix A1.1-4). (This smaller disposal area, known as the Amenia - Route 22, North site, is not part of this Phase I investigation.) This emergency disposal area was operated for about a year and then closed (Appendix A1.1-2). Following this, the southern section of the site area, by then owned by Metal Improvement Company, Inc., was leased and operated by the Town of Amenia and the Town of Sharon, Connecticut until closed (Appendixes A1.1-2 and A1.1-5). Mr. Bly was uncertain exactly when the dump was permanently closed and covered over, but he indicated it was about the same time that the Harlem Valley Landfill (located southwest of the site) was started. A NYSDEC hazardous waste disposal site report indicates that the landfill was closed in 1975 (Appendix A1.1-5). At final closure, the main fill area received soil cover of unknown depth applied by a local contractor hired by the Town of Amenia (Appendix A1.1-1).

It is suspected that some drums may be buried at the site. According to NYSDEC hazardous waste disposal site reports (Appendix A1.1-4), evidence of drums south of the southwest corner of the site were observed as recently as December 1979. Notes in the Dutchess County Environmental Management Committee files regarding a site inspection conducted in December 1980 indicated that barrels were visible protruding from the ground (Appendix A1.1-7). There were no drums observed onsite during the site inspection conducted 16 January 1985.

The site is suspected by NYSDEC of having received industrial wastes from the general area, however, no generators have been identified. The DCDOH believes the site to have received normal refuse only. There is no documentation of hazardous or toxic waste disposal at the site.

4.2 SITE TOPOGRAPHY

The former Amenia landfill, located west of State Route 22 and approximately 2 mi south of the Village of Amenia, covers a total area of about 10 acres. The landfill is situated adjacent to a wetland through which a permanent stream (unnamed tributary of Wassaic Creek) runs (Figures 1-1 and 1-2). It is suspected that wastes may have been disposed of in a portion of the marsh north of the landfill. The surface of the landfill is vegetated with grass and slopes toward the west and north (average slope = approximately 21 percent). The west edge of the landfill drops off sharply to the wetland (slope = approximately 46 percent).

A smaller fill area (about one acre in size), known as Amenia - Route 22, North site, is located on the north edge of the marsh. This site is overgrown with brush and is relatively flat. Trash is visible on the ground surface. Both fill areas have separate access roads, and access to the sites is not restricted.

Two lakes are located approximately 1,000 ft west of the site. Both lakes are upgradient (20 ft higher in elevation) of the site. Both lakes discharge to the permanent stream that runs through the marsh adjacent to the landfill.

The nearest residence is located about 1,350 ft to the west, and the nearest commercial building is about 2 mi northeast of the site. There are no national/state parks or forests located within 2 mi of the landfill.

4.3 SITE HYDROGEOLOGY

The site is directly underlain by glacial outwash sand and gravel deposits. These sediments are confined to the valley floor and are of limited areal extent. Approximately 1 mi north of the site, these sediments are at least 70 ft in thickness and comprised of 28 ft of water bearing gravel overlain by 42 ft of clay with a gravel lens (Appendix A1.3-1: Simmons et al. 1961, Well Du 99). However, there is no site-specific data to confirm the presence of this thick clay at the site. The unconsolidated deposits which blanket the adjacent hillsides are comprised of glacial till.

The glacial sediments are underlain by marble bedrock of the Cambro-Ordovician Age Stockbridge Formation. There are several thrust faults within 1-2 mi of the site which are related to the Taconic Orogeny. The bedrock is present at or within 3 ft of ground surface at several locations throughout the valley, including the hills north and south of the site as shown on Appendix A1.3-1 (Gerber 1982).

Both the glacial sediments and marble bedrock (designated by Gerber as Aquifer No. 74 on Appendix A1.3-1) have been developed by wells for domestic (rural area) and public (Village of Amenia) water supplies and are both considered as the aquifer of concern. The glacial sediment portion of the aquifer of concern includes the sand and gravel deposits which are bounded by the adjacent glacial

till covered mountains as shown on Appendix A1.3-1 (Gerber 1982). Based upon the available literature, hydraulic connection between these two general aquifers cannot be confirmed. However, because bedrock is reportedly within 3 ft of ground surface in the immediate vicinity of the site, the bedrock aquifer, as well as the glacial sediment aquifer, may be affected by conditions at the site.

The data in this section is based upon:

1. Gerber, R.G. 1982. Final Report, Water Resources Study for Dutchess County: Amenia Quad with Surficial and Bedrock Aquifer Delineations. (Appendix A1.3-2.)

2. Simmons, E.T. et al. 1961. Ground-Water Resources of Dutchess County, New York: Well Logs. (Appendix A1.3-1.)

3. New York State Department of Health. 1982. New York State Atlas of Community Water System Sources.

4.4 SITE CONTAMINATION ASSESSMENT

Waste Types and Quantities

Though it is suspected that industrial wastes were received at the site, there is no documentation of it. It is reported that a number of 55-gal drums were stored at the site, however, it is not known what they contained, if anything.

Assuming that industrial wastes were disposed of at the site, there is a potential for soil, surface water, and ground-water contamination.

Ground Water

No data available.

Surface Water

No data available.

Soil

No data available.

Air

Total volatile organic vapors were measured during EA's site inspection (16 January 1985) using an HNU photoionizer. No levels above background were detected.

AMENIA - ROUTE 22, SOUTH SITE
TOWN OF AMENIA, DUTCHESS COUNTY

The Amenia - Route 22, South site, located on the west side of State Route 22 in the Town of Amenia, Dutchess County, New York, covers a total area of approximately 10 acres. The landfill, privately owned, was leased and operated by the Town of Amenia for several decades. The site received municipal wastes from the Town of Amenia, as well as Sharon, Connecticut. The NYSDEC suspects that industrial wastes were received at the site, however, there is no documentation of this. In 1969, a number of 55-gal drums were stored at the site. It is not known if the drums were empty or if they contained hazardous substances. Drums were observed on the landfill surface as recently as 1979.

There are no data available to evaluate site contamination. The site is partially surrounded by a marsh and there is a potential for soil, surface water, and ground-water contamination. The site is underlain by glacial outwash sand and gravel deposits. Both the glacial sediment and bedrock aquifers are considered to be aquifers of concern. The total population estimated to be utilizing these aquifers of concern is 1,718.

Site Coordinates:

Latitude: 41° 49' 38.9"
Longitude: 73° 33' 47.1"

AMENIA - ROUTE 22 , SOUTH SITE

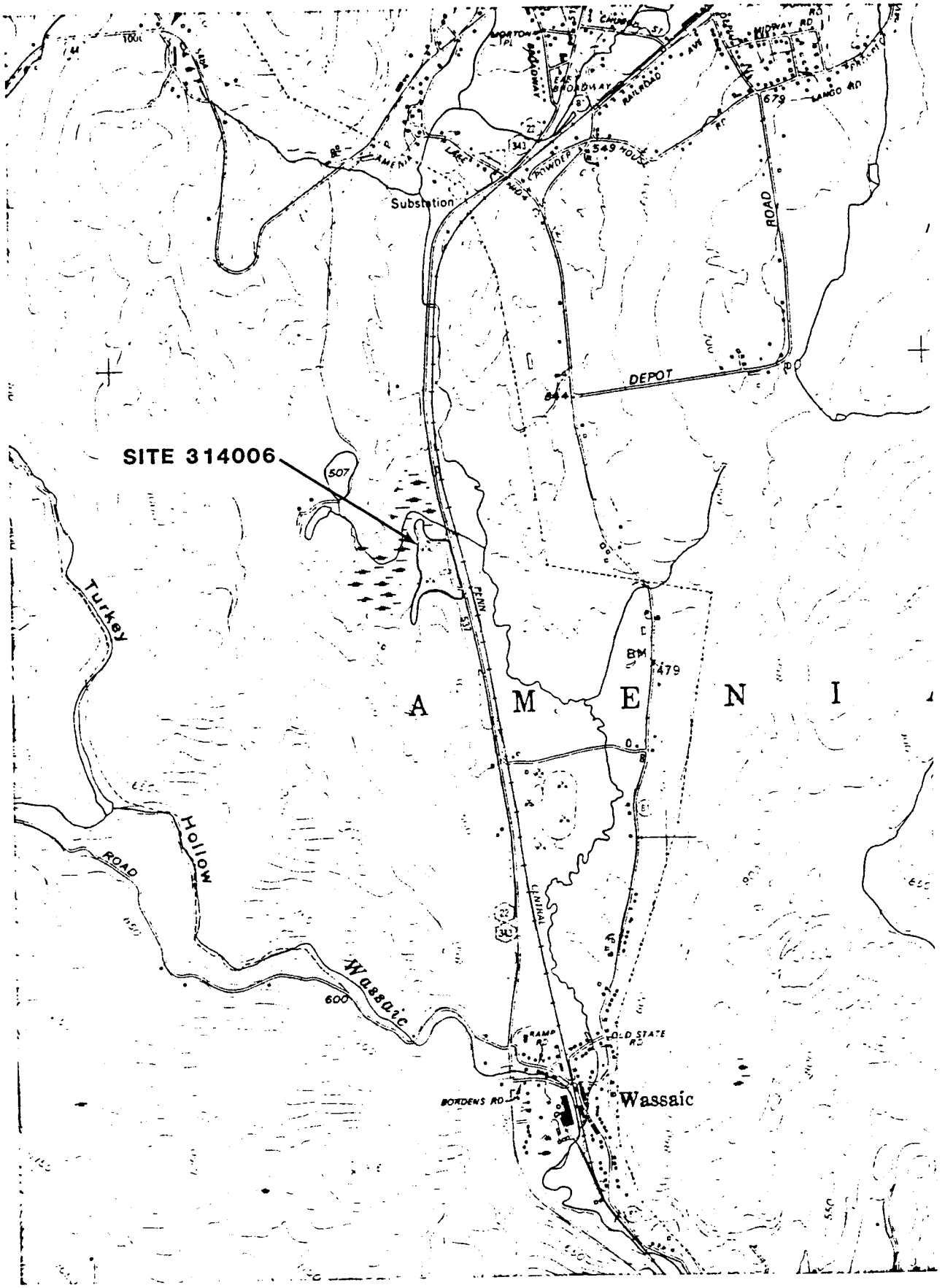


Figure 1-1. Locator map (Base map: NYSDOT. 1973. 7.5-Minute Series Topographic. Scale 1:24,000).

5.3 HRS WKSHTS

Facility name: Amenia - Route 22, South Site

Location: Town of Amenia, Dutchess County, New York

EPA Region: II

Person(s) in charge of the facility: Town of Amenia

Name of Reviewer: EA Science and Technology Date: 30 June 1985

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.)

The Amenia site is an inactive landfill located 1.6 miles south of the Village of Amenia on the west side of State Route 22. The landfill was operated for an unknown period of time up until 1975, receiving municipal wastes from Amenia, New York, and Sharon, Connecticut. It is suspected that industrial wastes were received at the site. A number of 55-gallon drums were stored at the site around 1969. It is not known if the drums were empty or if they contained hazardous wastes. The site is adjacent to a freshwater wetland. There is a potential for soil, surface water, and groundwater contamination.

Scores: S_M = 0 (S_{gw} = 0 S_{sw} = 0 S_a = 0)

S_{FE} = N/A

S_{DC} = 0

Maximum S_M = 34.86

FIGURE 1
HRS COVER SHEET

Ground Water Route Work Sheet						Max. Possible
Rating Factor	Assigned Value (Circle One)	Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	(0) 45	1	0	45	3.1	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.						
2 Route Characteristics					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	3	3		
Physical State	(0) 1 2 3	1	0	3		
Total Route Characteristics Score			11	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	0	18		18
Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8	1	0	8		1
Total Waste Characteristics Score			0	26		19
5 Targets					3.5	
Ground Water Use	0 1 2 (3)	3	9	9		
Distance to Nearest Well/Population Served	0 4 6 8 10 12 16 18 20 24 (30) 32 35 40	1	30	40		
Total Targets Score			39	49		39
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			0	57,330		33,345
7 Divide line 6 by 57,330 and multiply by 100		S_{gw} =	0			58.16

FIGURE 2
GROUND WATER ROUTE WORK SHEET

Surface Water Route Work Sheet							Max. Possible
Rating Factor	Assigned Value (Circle One)		Multi-plier	Score	Max. Score	Ref. (Section)	
1 Observed Release	(0)	45	1	0	45	4.1	45
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 2.							
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	2	3		
Distance to Nearest Surface Water	0 1 2 (3)		2	6	6		
Physical State	(0) 1 2 3		1	0	3		
Total Route Characteristics Score				11	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	0	18		18
Hazardous Waste Quantity	(0) 1 2 3 4 5 6 7 8		1	0	8		1
Total Waste Characteristics Score				0	26		19
5 Targets						4.5	
Surface Water Use	0 1 (2) 3		3	6	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				12	55		12
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				0	64,350		10,260
7 Divide line 6 by 64,350 and multiply by 100			S_{SW} =	0			15.94

FIGURE 7
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	(0) 45	1	0	45	5.1
Date and Location:					
Sampling Protocol:					
If line [1] is 0, the S_a = 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_a = 0			

FIGURE 9
AIR ROUTE WORK SHEET

	S	S^2
Groundwater Route Score (S_{gw})	0	0
Surface Water Route Score (S_{sw})	0	0
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		0
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} \,/\, 1.73 = S_M =$		0

FIGURE 10
WORKSHEET FOR COMPUTING S_M

$$\text{Max. Migration Score} = \frac{\sqrt{(58.16)^2 + (15.94)^2}}{1.73}$$

$$= 34.86$$

Fire and Explosion Work Sheet						
Rating Factor	Assigned Value (Circle One)	Multiplier	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 Targets Score				24		
4 Multiply 1 x 2 x 3				1,440		
5 Divide line 4 by 1,440 and multiply by 100		S_{FE} = N/A				

FIGURE 11
FIRE AND EXPLOSION WORK SHEET

Direct Contact Work Sheet					
Rating Factor	Assigned Value (Circle One)	Multiplier	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	0	15	8.3
4 Waste Characteristics Toxicity	(0) 1 2 3	5	0	15	8.4
5 Targets					8.5
Population Within a 1-Mile Radius	0 (1) 2 3 4 5	4	4	20	
Distance to a Critical Habitat	(0) 1 2 3	4	0	12	
Total Targets Score			4	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			0	21,600	
7 Divide line 6 by 21,600 and multiply by 100	S_{DC} = 0				

FIGURE 12
DIRECT CONTACT WORK SHEET

BILLING CODE 6560-50-C

Sec. 5.4 HRS Doc
Records

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: Amenia Landfill - Route 22, South Site

LOCATION: Town of Amenia, Dutchess County, New York

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

No available data. Assigned value = 0.

Rationale for attributing the contaminants to the facility:

Not applicable.

***

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifer(s) of concern:

Aquifer of concern is the sand-gravel deposit along stream valley between the Hamlets of Amenia and Wassaic, and the underlying carbonate bedrock bordered by a fault to the south, schist and phyllite bedrock to the east and west, and the 3-mi. radius to the north.

Reference: Gerber, R.G. 1982. Final Report, Water Resources Study for Dutchess County: Amenia Quad with Surficial and Bedrock Aquifer Delineations. (Appendix A1.3-2.)

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

Depth to the water table in sand and gravel deposit may be approximately 10-20 ft on the assumption that the adjacent wetland is a ground-water discharge area. (EA Site Inspection, 16 January 1985.)

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

No data available. Assumed to be at least 6 ft. Depth to aquifer of concern: D_{gw} (20) - D_{fill} (6) = 14 ft in the overburden aquifer.

Assigned value = 3.

Net Precipitation

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

Mean annual = 40 inches.

Reference: Dethier, B.E. 1966. Mean annual precipitation, in inches, in Precipitation in New York State. Cornell Univ. Agr. Expt. Sta. Bull. 1009. Ithaca, New York.

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

Mean annual = 28 inches.

Reference: U.S. EPA. 1984. Uncontrolled Hazardous Waste Site Ranking System. A Users Manual (HW-10). Originally published in the 16 July, 1982 Federal Register.

Net precipitation (subtract the above figures):

12 inches. Assigned value = 2.

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Palmyria gravelly loam. Site is underlain by glacial outwash and gravel deposits.

References: Gerber, R.G. 1982. Final Report, Water Resources Study for Dutchess County: Amenia Quad with Surficial and Bedrock Aquifer Delineations. (Appendix A1.3-2.)
U.S. Dept. of Agriculture. 1955. Soil Survey Dutchess County New York. Soil Conservation Service. (Appendix 1.5-1.)

Permeability associated with soil type:

Very permeable; permeability expected to be $>10^{-3}$ cm/sec.

Assigned value = 3.

Physical State

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

No data available. Assigned value = 0.

***

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

No liner provided; no leachate collection system; landfill surface does not preclude ponding; no run-on control.

Reference: EA Site Inspection, 16 January 1985.

Method with highest score:

No liner. Assigned value = 3.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

No data available.

Compound with highest score:

Not applicable. Assigned value = 0.

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):

No data available. Assigned value = 0.

Basis of estimating and/or computing waste quantity:

Not applicable.

***

5 TARGETS

Ground Water Use

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

Aquifer of concern has been developed for community and private well supplies.

Reference: New York State Department of Health. 1982. New York State Atlas of Community Water System Sources. (Appendix A1.5-2.)

Assigned value = 3.

Distance to Nearest Well

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

Nearest well is a private well located west of the site, within the extent of the sand and gravel deposit.

Distance to above well or building:

Distance = 1,500 ft. Assigned value = 4.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quadrangle, New York.

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:

Aquifer of concern is the sand/gravel sediments and carbonate bedrock bordered by a fault to the south, by schist and phyllite bedrock to the east and west, and the 3-mile radius to the north.

Amenia Water District No. 1:	1,000	people
Private wells: (189 x 3.8)	718	people
Total	1,718	people

The Amenia Water District well field is developed in the Pleistocene gravel aquifer. There is no way to determine how many of the private wells are developed in bedrock. Therefore, all private wells have been added to the total.

References: New York State Department of Health. 1982. New York State Atlas of Community Water System Sources. (Appendix A1.5-2.)
NYSDOT. 1973. 7.5-Minute Series Topographic: Amenia Quad.

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):

Information requested 7 March 1986 was unavailable as of 8 October 1986.

Reference: Dibble, R. 1986. District Conservationist, Dutchess SWCD. Personal Communication.

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

Population = 1,718. Assigned value = 3. Combined value = 30.

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

No data available. Assigned value = 0.

Rationale for attributing the contaminants to the facility:

Not applicable.

***

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

Average slope = 21 percent.

Reference: EA Site Inspection, 16 January 1985.

Name/description of nearest downslope surface water:

Unnamed tributary of Wassaic Creek runs through the site. It is a permanent stream.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.

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

Slope = approximately 49 percent.

Reference: EA Site Inspection, 16 January 1985.

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

Yes. A portion of the landfill is situated in a low swampy area through which a permanent surface stream runs.

Assigned value = 3.

References: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.
EA Site Inspection, 16 January 1985.

Is the facility completely surrounded by areas of higher elevation?

No.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.

1-Year, 24-Hour Rainfall in Inches

2.5 inches. Assigned value = 2.

Reference: U.S. EPA. 1984. Uncontrolled Hazardous Waste Site Ranking System. A Users Manual (HW-10). Originally published in the 16 July, 1982 Federal Register.

Distance to Nearest Downslope Surface Water

Distance = 0 feet. Part of site is located in surface water. (EA Site Inspection, 16 January 1985).

Assigned value = 3.

Physical State of Waste

No data available. Assigned value = 0.

***

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Landfill slope does not preclude runoff, no diversion system provided, landfill does have a soil cover of unknown depth and quality.

Method with highest score:

No diversion system provided. Assigned value = 3.

Reference: EA Site Inspection, 16 January 1985.

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

No data available.

Compound with highest score:

Not applicable. Assigned value = 0.

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):

No data available. Assigned value = 0.

Basis of estimating and/or computing waste quantity:

Not applicable.

***

5 TARGETS

Surface Water Use

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

Recreational uses. (Appendix A1.5-3.) Assigned value = 2.

Is there tidal influence?

No.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.

Distance to a Sensitive Environment

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

Not applicable.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.

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

Distance = 0 feet. Assigned value = 3.

Reference: USGS. 1958. 7.5-Minute Series Topographic: Amenia Quad.

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

Not applicable.

Reference: Significant Habitat Unit. 1985. Significant Habitat Overlays. Division of Fish and Wildlife, New York State Department of Environmental Conservation, Delmar, New York.

Population Served by Surface Water

Location(s) of water supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static waterbodies) downstream of the hazardous substance and population served by each intake:

No surface water intakes located on surface waters within 3 miles downstream of the site. Population = 0. (Appendix A1.5-2.)

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

Information requested 7 March 1986 was unavailable as of 8 October 1986.

Reference: Dibble, R. 1986. District Conservationist, Dutchess SWCD. Personal Communication.

Total population served:

Population = 0.

Name/description of nearest of above waterbodies:

Not applicable.

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

Not applicable. Assigned value = 0.

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

No data available. Assigned value = 0.

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

***

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

***

3 TARGETS

Population Within 4-Mile Radius

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

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

Distance to a Sensitive Environment

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

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

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

Land Use

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

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

Distance to residential area, if 2 miles or less:

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

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

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

DIRECT CONTACT

1 OBSERVED INCIDENT

Date, location, and pertinent details of incident:

None reported. (Chapter 3.) Assigned value = 3.

***

2 ACCESSIBILITY

Describe type of barrier(s):

Access is not restricted. (EA Site Inspection, 16 January 1985.)

Assigned value = 3.

***

3 CONTAINMENT

Type of containment, if applicable:

Depth of soil cover is unknown, however no evidence of wastes were observed on ground surface. (EA Site Inspection, 16 January 1985.)

***

4 WASTE CHARACTERISTICS

Toxicity

Compounds evaluated:

Containment score = 0; therefore waste characteristics are not evaluated.

Compound with highest score:

***

5 TARGETS

Population Within 1-Mile Radius

87. Residences (23 x 3.8 persons) counted from aerial photograph.

Reference: Keystone Aerial Survey. 1980. Dutchess County Aerial Photography. Photograph No. DUT-4-141. Philadelphia, Pennsylvania.

Assigned value = 1.

Distance to Critical Habitat (of Endangered Species)

None. Assigned value = 0.

Reference: Significant Habitat Unit. 1985. Significant Habitat Overlays. Division of Fish and Wildlife, New York State Department of Environmental Conservation, Delmar, New York.

Sec. 55

EPA 2070-12

Environmental Protection
Agency

Office of Emergency and
Remedial Response
Washington, DC 20460

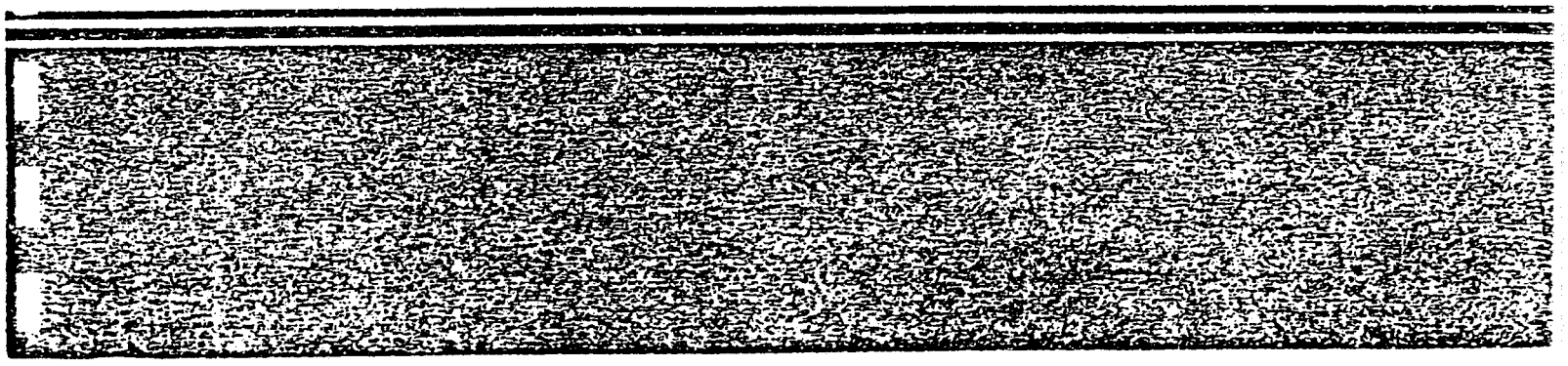
EPA Form 2070-12
July 1981

EPA

Potential Hazardous Waste Site

Preliminary Assessment

Amenia - Route 22, South Site



EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Amenia - Route 22, South Site	Route 22 South

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Amenia	NY	12501	Dutchess		

09 COORDINATES LATITUDE	LONGITUDE
41° 49' 38.9"	73° 33' 47.1"

10 DIRECTIONS TO SITE (Starting from nearest public road)

Landfill is located on State Route 22, approximately 1.6 miles south of the Hamlet of Amenia. Site is situated on west side of Route 22.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
Curtis Wright Corporation	

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
	NJ		( )

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)
Town of Amenia	Mechanic Street

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Amenia	NY	12501	( )

13 TYPE OF OWNERSHIP (Check one)

☒ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL

☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)

☐ A. RCRA 3001 DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: ___/___/___ (MONTH DAY YEAR) ☒ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION

☒ YES ☐ NO DATE 1/16/85 (MONTH DAY YEAR)

BY (Check all that apply)

☐ A. EPA ☐ B. EPA CONTRACTOR ☐ C. STATE ☒ D. OTHER CONTRACTOR

☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER _____ (Specify)

CONTRACTOR NAME(S): EA Science & Technology

02 SITE STATUS (Check one)	03 YEARS OF OPERATION
☐ A. ACTIVE ☒ B. INACTIVE ☐ C. UNKNOWN	BEGINNING YEAR _____ ENDING YEAR _____ ☒ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED

Site received municipal wastes from Town of Amenia for an unknown period of time. An unknown number of 55-gal drums containing unidentified substances were deposited at the site. It is suspected that industrial wastes were received at the site.

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION

There is a potential for soil, surface-water and ground-water contamination. No data/information available to evaluate routes of potential contamination.

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 Conditions and Incidents)

☐ A. HIGH (Inspection required promptly) ☒ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Raymond Kapp	EA Science & Technology	(914) 692-6706

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Linda K. McConnell		EA	(301) 771-4950	6/30/85 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) — Unknown

- _ A SOLID
- _ B POWDER, FINES
- C SLUDGE
- E SLURRY
- F LIQUID
- G GAS
- _ D OTHER _____ (Specify)

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

- TONS Unknown
- CUBIC YARDS _____
- NO OF DRUMS _____

03 WASTE CHARACTERISTICS (Check all that apply) — Unknown

- _ 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
- _ M NOT APPLICABLE

III. WASTE TYPE — No data available

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) — No data available

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers) — Not Applicable

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)

New York State Department of Environmental Conservation files.
Dutchess County Department of Health files.

Sec. 5.6

EPA 2070-13

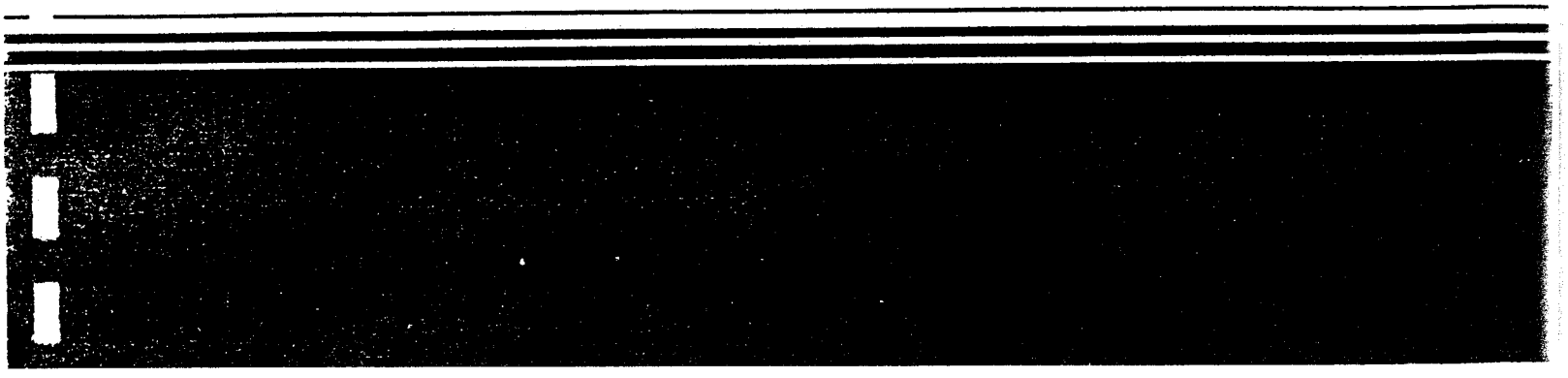
Environmental Protection Agency
Remedial Response
Washington, DC 20460
July, 1981

EPA

Potential Hazardous Waste Site

Site Inspection Report

Amenia - Route 22, South Site



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 1 - SITE LOCATION AND INSPECTION INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
Amenia - Route 22, South Site	Route 22				
03 CITY	**04 STATE**	**05 ZIP CODE**	**06 COUNTY**	**07 COUNTY CODE**	**08 CONG DIST**
Town of Amenia	NY	12501	Dutchess		

09 COORDINATES	10 TYPE OF OWNERSHIP (Check one)
LATITUDE 41 49 38.9" LONGITUDE 73 33 47.1"	☒ A PRIVATE ☐ B FEDERAL _____ ☐ C STATE ☐ D COUNTY ☐ E MUNICIPAL ☐ F OTHER _____ ☐ G UNKNOWN

III. INSPECTION INFORMATION

01 DATE OF INSPECTION	02 SITE STATUS	03 YEARS OF OPERATION
1 / 16 / 85 (MONTH DAY YEAR)	☐ ACTIVE ☒ INACTIVE	_____ (BEGINNING YEAR) _____ (ENDING YEAR) X UNKNOWN

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 EA Science & Tech (Name of firm) ☐ G OTHER _____ (Specify)

05 CHIEF INSPECTOR	06 TITLE	07 ORGANIZATION	08 TELEPHONE NO
Linda K. McConnell	Environmental Engineer	EA	(301) 771-4950
09 OTHER INSPECTORS	**10 TITLE**	**11 ORGANIZATION**	**12 TELEPHONE NO**
Gloria McCleary	Environmental Engineer	EA	(301) 771-4950
Michael Takacs	Public Health Technician	Dutchess Co. Dept. Health	(914)431-2044
			( )
			( )
			( )

13 SITE REPRESENTATIVES INTERVIEWED	14 TITLE	15 ADDRESS	16 TELEPHONE NO
Harry Bly	Chrmn. Zoning Board	Town Hall, Amenia, NY	(914) 373-9024
			( )
			( )
			( )
			( )
			( )

17 ACCESS GAINED BY (Check one)	18 TIME OF INSPECTION	19 WEATHER CONDITIONS
☒ PERMISSION ☐ WARRANT	1320 hours	Cold, 15 F, clear, ~20mph wind, 1 in. snow cover

IV. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NO
Raymond Kapp	EA Science & Technology	(914) 692-6706

04 PERSON RESPONSIBLE FOR SITE INSPECTION FORM	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NO.	08 DATE
Linda K. McConnell		EA	(301) 771-4950	6 / 30 / 85 (MONTH DAY YEAR)

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply) Unknown

- ☐ A SOLID
- ☐ B POWDER, FINES
- ☐ C SLUDGE
- ☐ D OTHER (Specify)
- ☐ E SLURRY
- ☐ F. LIQUID
- ☐ G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent) Unknown

TONS
CUBIC YARDS
NO OF DRUMS

03 WASTE CHARACTERISTICS (Check all that apply) Unknown

- ☐ 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
- ☐ M NOT APPLICABLE

III. WASTE TYPE No data available

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE			
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers) No data available

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION

V. FEEDSTOCKS (See Appendix for CAS Numbers) Not Applicable

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)

New York State Department of Environmental Conservation files.
Dutchess County Department of Health files.
U.S.G.S. Topographic Map, Amenia Quadrangle, Dutchess Co., New York.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D 980641559

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A GROUNDWATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 1718
02 ☐ OBSERVED (DATE _____) XX POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Aquifer-of-concern is the sand-gravel sediments, and carbonate bedrock aquifer bordered by a fault to the south, schist and phyllite bedrock to the east and west, and the 3-mi. radius to the north. Refer to Section 4.3.

01 ☐ B SURFACE WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 0
02 ☐ OBSERVED (DATE _____) XX POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
An unnamed tributary (permanent stream) of Wassaic Creek runs through the marsh which is adjacent to the landfill. There is a potential for surface water contamination. Refer to Section 4.

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

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

01 ☐ E DIRECT CONTACT
03 POPULATION POTENTIALLY AFFECTED _____
02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
There is no evidence of drums present on the surface of the landfill or evidence of leachate or seeps during site inspection conducted 1/16/85. Access to the site is not restricted - accessible to the public.

01 ☐ F CONTAMINATION OF SOIL
03 AREA POTENTIALLY AFFECTED 8-10 (Acres)
02 ☐ OBSERVED (DATE _____) XX POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
There is a potential for contamination of soil at the site. There was no containment of wastes provided at the site.

01 ☐ G DRINKING WATER CONTAMINATION
03 POPULATION POTENTIALLY AFFECTED 1718
02 ☐ OBSERVED (DATE _____) XX POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Community and private wells have been developed in the sediment and bedrock aquifer-of-concern. Refer to Sections 4.2 and 4.3.

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

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

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D 980641559

II. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)

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

Unknown

01 ☐ K DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION (Include names of species)

Unknown

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

Unknown

01 ☒ M UNSTABLE CONTAINMENT OF WASTES (Spills, Runoff, Standing liquids, Leaking drums) — 02 ☐ OBSERVED (DATE _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED _____ — 04 NARRATIVE DESCRIPTION

Unknown

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

Unknown

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

Unknown

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

III. TOTAL POPULATION POTENTIALLY AFFECTED: 1718

IV. COMMENTS

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

Dutchess County Department of Health Files.
Site inspection conducted by EA Science & Technology, 16 January 1985.
Interview with Harry Bly, 16 January 1985 (See Appendix A1.1-1).

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980641559

II. PERMIT INFORMATION No information available.

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)				
☐ J NONE				

III. SITE DESCRIPTION

01 STORAGE DISPOSAL (Check all that apply)	02 AMOUNT	03 UNIT OF MEASURE
☐ A SURFACE IMPOUNDMENT		
☐ B PILES		
☐ C DRUMS ABOVE GROUND		
☐ D TANK, ABOVE GROUND		
☐ E TANK, BELOW GROUND		
☒ F LANDFILL	Unknown	
☐ G LANDFARM		
☐ H OPEN DUMP		
☐ I OTHER (Specify)		

04 TREATMENT (Check all that apply)
- ☐ A INCENERATION
- ☐ B UNDERGROUND INJECTION
- ☐ C CHEMICAL/PHYSICAL
- ☐ D BIOLOGICAL
- ☐ E WASTE OIL PROCESSING
- ☐ F SOLVENT RECOVERY
- ☐ G OTHER RECYCLING RECOVERY
- ☐ H OTHER (Specify)

05 OTHER
- ☐ A BUILDINGS ON SITE

06 AREA OF SITE
8-10 (Acres)

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, diking or diversion structures provided. It was alleged that a number of 55-gal drums were stored at the site in 1969. It is not known what, if anything, was contained in the drums. Some of the drums were removed later and it is suspected that some were buried on site.

V. ACCESSIBILITY

01 WASTE EASILY ACCESSIBLE ☐ YES ☒ NO

02 COMMENTS

Waste has received a soil cover of unknown depth. No evidence of wastes on ground surface.

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

Interview with Harry Bly, 16 January 1985 (See Appendix A1.1-1).
Site inspection conducted by EA Science & Technology, 16 January 1985.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

II. DRINKING WATER SUPPLY

01 TYPE OF DRINKING SUPPLY (Check as applicable)	SURFACE	WELL	02 STATUS	ENDANGERED	AFFECTED	MONITORED	03 DISTANCE TO SITE
COMMUNITY	A ☐	B ☒		A ☐	B ☐	C ☐	A. Unknown (mi)
NON-COMMUNITY	C ☐	D ☒		D ☐	E ☐	F ☐	B. 0.26 (mi)

III. GROUNDWATER

01 GROUNDWATER USE IN VICINITY (Check one)

☒ 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, UNUSEABLE

02 POPULATION SERVED BY GROUND WATER	03 DISTANCE TO NEAREST DRINKING WATER WELL
1718	0.26 (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
10 to 20 (ft)	Unknown	Unknown (ft)	Unknown (gpd)	☐ YES ☒ NO

09 DESCRIPTION OF WELLS (Including useage, depth, and location relative to population and buildings)

Amenia Water District #1 (community well) well serves approximately 1000 people. Private wells located within 3-mi. radius of the site serve about 718 people.

10 RECHARGE AREA		11 DISCHARGE AREA	
☐ YES ☐ NO	COMMENTS	☒ YES ☐ NO	COMMENTS Site is adjacent to a marsh.

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
Unnamed tributary of Wassaic Creek	☐	0.01 (mi)
	☐	(mi)
	☐	(mi)

V. DEMOGRAPHIC AND PROPERTY INFORMATION

01 TOTAL POPULATION WITHIN			02 DISTANCE TO NEAREST POPULATION
ONE (1) MILE OF SITE	TWO (2) MILES OF SITE	THREE (3) MILES OF SITE	
A. 87 NO. OF PERSONS	B. 2,159 NO. OF PERSONS	C. 3,126 NO. OF PERSONS	0.27 (mi)

03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE	04 DISTANCE TO NEAREST OFF-SITE BUILDING
Approx. 568	0.41 (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)

Population within 1 mile of site is rural. The Hamlet of Amenia is located approximately 1.6 miles northeast of the site (population = 1,183).

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

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^{-4} – 10^{-6} cm/sec) XXC 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
≥ 4 (ft)	Unknown (ft)	Unknown

06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE: SITE SLOPE	DIRECTION OF SITE SLOPE	TERRAIN AVERAGE SLOPE
12 (in)	2.5 (in)	21 %	N-NW	49 %

09 FLOOD POTENTIAL

SITE IS IN _____ 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 (mi)

12 DISTANCE TO CRITICAL HABITAT (of endangered species)

_____ (mi)

ENDANGERED SPECIES: None

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 0.83 (mi)	B 0.26 (mi)	C _____ (mi)	D _____ (mi)

14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY

The site is located about 2 mi south of the Hamlet of Amenia on the west side of State Route 22. It is partially surrounded by a marsh on the west and north perimeters. This area is situated on the site of a ridge which slopes to the west and north, and is bounded on the east by State Route 22. Two lakes, which drain into an unnamed tributary of Wassaic Creek that flows through the marsh, are located about 1,000 ft west of the site.

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

Gerber, R.G. 1982. Final Report, Water Resources Study for Dutchess County, NY.
Site inspection conducted by EA Science & Technology, 16 January 1985.
U.S.G.S. Topographic Map, Amenia Quadrangle, New York.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980641559

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
Site Slope	Slope measurements taken during inspection, 16 January 1985.
Volatile Organics	HNU measurements taken for gross air quality - nondetectable.

IV. PHOTOGRAPHS AND MAPS

01 TYPE ☒ GROUND ☒ AERIAL

02 IN CUSTODY OF EA Science & Technology
(Name of organization or individual)

03 MAPS ☒ YES ☐ NO

04 LOCATION OF MAPS EA Science & Technology, Middletown, NY

V. OTHER FIELD DATA COLLECTED (Provide narrative description)

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

Site inspection conducted by EA Science & Technology, 16 January 1985.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980641559

II. CURRENT OWNER(S)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Mr. Karl Saliter		Box 128, Jackson Hill Road		Sharon	CT	06069
Mr. John Segalla		Leedsville Road		Amenia	NY	12501

PARENT COMPANY (If applicable)

08 NAME	09 D+B NUMBER	10 STREET ADDRESS (P.O. Box, RFD #, etc.)	11 SIC CODE	12 CITY	13 STATE	14 ZIP CODE

III. PREVIOUS OWNER(S) (List most recent first)

01 NAME	02 D+B NUMBER	03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE	05 CITY	06 STATE	07 ZIP CODE
Metal Improvement Company, Inc.		c/o Curtis Wright Corporation 1200 Wall Street		Lyndhurst	NJ	07071
Mr. Surico		(unknown)		Poughkeepsie	NY	
"Murphy brothers"		(unknown)		Amenia	NY	

IV. REALTY OWNER(S) (If applicable. List most recent first)

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

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

Dutchess County Department of Health files.
New York State Department of Environmental Conservation files.

EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT
PART 8 - OPERATOR INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D980641559

II. CURRENT OPERATOR (Provide if different from owner)

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER

OPERATOR'S PARENT COMPANY (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

III. PREVIOUS OPERATOR(S) (List most recent first; provide only if different from owner)

01 NAME	02 D+B NUMBER
Town of Amenia	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
Mechanic Street	

05 CITY	06 STATE	07 ZIP CODE
Amenia	NY	12501

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
Unknown	(See Part 7)

PREVIOUS OPERATORS' PARENT COMPANIES (If applicable)

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER
Mr. Surico	

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE
(unknown)	

05 CITY	06 STATE	07 ZIP CODE
Poughkeepsie	NY	

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD
Unknown	Unknown

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

01 NAME	02 D+B NUMBER

03 STREET ADDRESS (P.O. Box, RFD #, etc.)	04 SIC CODE

05 CITY	06 STATE	07 ZIP CODE

08 YEARS OF OPERATION	09 NAME OF OWNER DURING THIS PERIOD

10 NAME	11 D+B NUMBER

12 STREET ADDRESS (P.O. Box, RFD #, etc.)	13 SIC CODE

14 CITY	15 STATE	16 ZIP CODE

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

Interview with Harry Bly, 16 January 1985 (See Appendix A1.1-1).
Dutchess County Department of Health files.

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
NY	D 980641559

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)

EPA FORM 2070-13 (7-81)

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY.	D980641559

II. PAST RESPONSE ACTIVITIES

01 ☐ A. WATER SUPPLY CLOSED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ B. TEMPORARY WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ C. PERMANENT WATER SUPPLY PROVIDED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ D. SPILLED MATERIAL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ E. CONTAMINATED SOIL REMOVED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ F. WASTE REPACKAGED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ G. WASTE DISPOSED ELSEWHERE — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ H. ON SITE BURIAL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ I. IN SITU CHEMICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ J. IN SITU BIOLOGICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ K. IN SITU PHYSICAL TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ L. ENCAPSULATION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ M. EMERGENCY WASTE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ N. CUTOFF WALLS — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ O. EMERGENCY DIKING SURFACE WATER DIVERSION — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ P. CUTOFF TRENCHES SUMP — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Q. SUBSURFACE CUTOFF WALL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

EPA

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

I. IDENTIFICATION
01 STATE: NY | 02 SITE NUMBER: D 980641559

II PAST RESPONSE ACTIVITIES (Continued)

01 ☐ R BARRIER WALLS CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ S CAPPING/COVERING — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ T BULK TANKAGE REPAIRED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ U GROUT CURTAIN CONSTRUCTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ V BOTTOM SEALED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ W GAS CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ X FIRE CONTROL — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Y LEACHATE TREATMENT — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ Z AREA EVACUATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 1 ACCESS TO SITE RESTRICTED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 2 POPULATION RELOCATED — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

01 ☐ 3 OTHER REMEDIAL ACTIVITIES — 02 DATE _____ — 03 AGENCY _____
04 DESCRIPTION

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

EPA

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

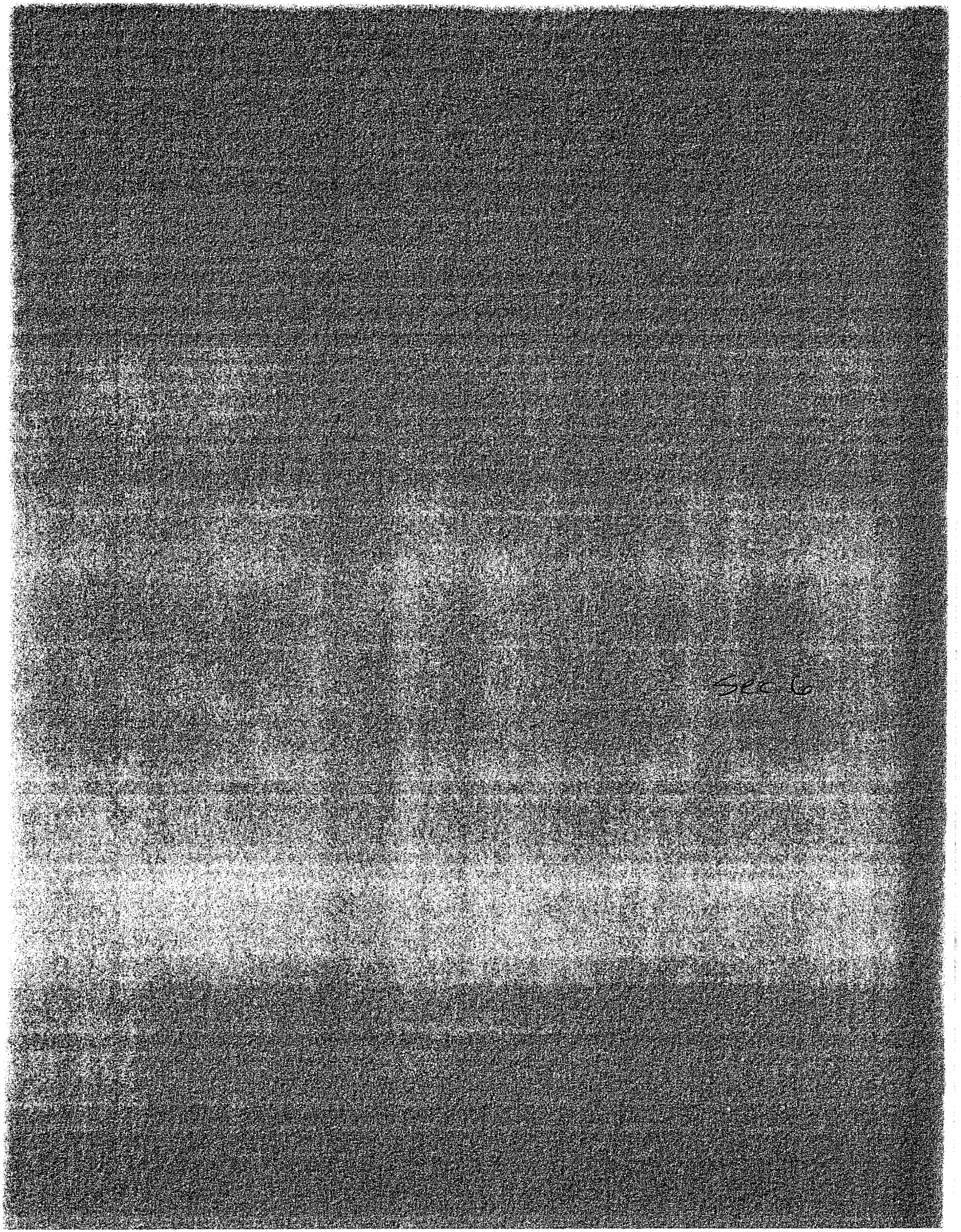
I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
NY	D 980641559

II. ENFORCEMENT INFORMATION

01 PAST REGULATORY/ENFORCEMENT ACTION ☐ YES ☒ NO

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

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


Sec. 6

6. ASSESSMENT OF DATA ADEQUACY AND RECOMMENDATIONS

6.1 ADEQUACY OF EXISTING DATA

It is suspected that industrial wastes were received at the former Amenia landfill, however, there is no documentation of hazardous wastes being disposed at the site. It was reported that a number of 55-gal drums were stored at the site in 1969. No information is available on the number of drums or what the drums contained.

The available information on this site is not sufficient to prepare a final HRS score. Soil, ground-water, and surface water data are lacking. Ground-water contaminaton could endanger nearby private wells.

6.2 RECOMMENDATIONS

It is recommended that a Phase II program be initiated at the Amenia site. A more thorough records search needs to be conducted to obtain a more complete history of the waste disposal practices and site operations. Interviews with former operators and land owners should be conducted. The proposed Phase II study would include geophysical surveys (around the perimeter and the area of reported buried drums), installation of four test borings/observations wells beyond the known dump areas, and collection of ground-water and surface water samples. An air sampling and analysis program is not recommended at this time.

6.3 PHASE II WORK PLAN

6.3.1 Task 1 - Mobilization and Site Reconnaissance

Project mobilization includes review of the Phase I report and updating the site data base with any new information made available since completion of the Phase I report. Based on that review, a draft scope of work for this site will be agreed to and a project schedule developed. At this time, a draft Quality Assurance/Quality Control (QA/QC) document will be prepared in accordance with the most up-to-date NYSDEC guidelines.

Site reconnaissance will be performed to examine general site access for Phase II studies. Site reconnaissance will familiarize key project personnel with the site, enable the project geologists to evaluate potential boring/well locations, and enable the project Health and Safety Officer to develop specific health and safety requirements for the field activities. Emergency, fire, and hospital services will be identified. Standard practice during site reconnaissance is an air survey with a HNU photoionization detector (HNU). The air survey would be performed around the site perimeter and throughout the site for safety purposes. Detection of releases to air during site reconnaissance may warrant further confirmation studies. Based on the Phase I study, it is expected that field activities will require only Level D health and safety protective measures.

6.3.2 Task 2 - Geophysics

Multidepth EM and earth resistivity surveying will be performed around the site perimeter to evaluate the potential presence of ground-water contaminant plumes and stratigraphic conditions. Additionally, a survey for buried drum masses will be performed using EM and proton magnetometer. The number of stations and value of depth settings will be determined on the basis of field conditions. Results of the geophysics will be used to refine the specifications for locations, depths, number of observation wells to be installed, and to locate large areas of buried metal.

6.3.3 Task 3 - Preparation of Final Sampling Plan

All data collected during Tasks 1 and 2 will be evaluated to finalize sampling and boring/well locations. The final sampling plan will be developed and submitted to NYSDEC for approval. The plan will include final sampling locations; boring and well specifications; and reference pertinent portions of the QA/QC Plan. A final budget will be developed to complete the drilling and sampling program.

6.3.4 Task 4 - Test Borings and Observations Wells

Because the presence of hazardous wastes at this site is unconfirmed to date and the unconsolidated sediments may be at least 70 ft in thickness, EA recommends that initially only the unconsolidated sediment aquifer be investigated. If contamination is detected, then the scope of work would be modified to

include investigation of the bedrock aquifer. Based upon currently available information, EA recommends the installation of 4 test borings/observations wells. This work would be performed under the fulltime supervision of a geologist. It is anticipated that hollow-stem auger drilling will be used in the unconsolidated sediments. Prior to the drilling of each boring/well, and at the completion of the last boring/well, the drilling equipment which comes in contact with subsurface materials will be steam-cleaned, as well as the split spoon sampler after obtaining each sample. Soil sampling will be performed using a split spoon sampler at approximately 5-ft intervals and at detected major stratigraphic changes. An HNU would be used to monitor the potential organic vapors emitted during drilling operations and from each soil sample. Samples of major soil/unconsolidated sediment units will be collected for grain-size analysis.

It is anticipated that the wells to be installed at this site will be completed in the unconsolidated sediments, approximately 10-15 ft into the saturated zone of the reported sand and gravel formation. Standard construction of such wells would include 10 ft of 4-in. diameter threaded-joint PVC screen and an appropriate length of PVC riser with a bottom plug cap, sand pack, bentonite seal, and protective surficial steel casing with a locking cap.

Upon completion and development of the wells by air surging/pumping, the vertical elevation of the upper rim of each well casing will be surveyed in order to aid in evaluation of the ground-water flow direction. Depending upon the yield of each Phase II well, a short-term, low-yield pumping test will be performed in each well.

For cost estimating purposes, it is assumed that:

a. The depth of each of the 4 wells will be 50 ft below ground surface.

b. The 4 wells will require 10 days to install, develop, and test.

c. All drill sites are accessible by truck-mounted drilling rigs as determined by the driller.

d. There are no excessive amounts of cobbles/boulders which would increase drilling time.

e. Steam-cleaning of drilling/sampling equipment will be performed at each boring/well location. The fluids will be discharged to ground surface.

f. All drill cuttings, fluids, and development water will be left on, or discharged to, the ground surface in the immediate area of the activity.

g. That permission from appropriate land owners to drill borings/wells on their property will be a simple process (expedited by the NYSDEC, if necessary), so that delays during field operations are not incurred.

6.3.5 Task 5 - Sampling

All sampling and analysis will be conducted in accordance with the project QA/QC Plan. The analytical program for every water and sediment sample will include the 130 organic and 25 inorganic parameters listed in Statement of Work No. 784, New York State Department of Environmental Conservation Superfund and Contract Laboratory Protocol, January 1985. Also, all additional non-priority pollutant GC/MS major peaks will be identified and quantified. Major peaks will be considered as those whose area is 10 percent or greater than the calibrating standard(s). Based upon the currently available information, collection and analysis of the following numbers and types of samples is recommended:

4 Ground-water samples (one from each Phase II well).

2 Surface water samples.

2 Sediment samples (one from each surface water sample location).

6.3.6 Task 6 - Contamination Assessment

EA will evaluate the data obtained during the records search and field investigation; prepare final HRS scores and documentation forms; complete EPA Form 2070-13 and Part One of 2070-12; summarize site history, site characteristics, available sampling and analysis data; and determine the adequacy of the existing data to confirm release, and if there is a population at risk.

6.3.7 Task 7 - Remedial Cost Estimate

EA will evaluate remedial alternatives for the site and develop a list of potential options given the information available on the nature and extent of contamination. Approximate cost estimates for the selected potential remedial options will be computed. This work is not intended to be, or a substitute for, a formal cost effectiveness analysis of potential remedial actions.

6.3.8 Task 8 - Final Phase II Report

In accordance with current (January 1985) NYSDEC guidelines, the Phase II report will include:

a. The results of the Phase II investigation, complete with boring logs, photos, and sketches developed as part of the Phase II field work.

b. Final HRS scores with detailed documentation.

c. Selected potential remedial alternatives and associated cost estimates.

In addition to the final Phase II report, the following raw data and resulting reduction would be provided to NYSDEC:

a. geophysical

b. well logs

c. all sampling forms and data

d. all analytical data

e. chain-of-custody forms

f. soil sampling forms and classifications

g. other collected information.

6.3.9 Task 9 - Project Management/Quality Assurance

A Project Manager will be responsible for the supervision, direction, and review of the project activities on a day-to-day basis. A Quality Assurance Officer will ensure that the QA/QC Program protocols are maintained and that the resultant analytical data are accurate.

6.4 PHASE II COST ESTIMATE

Based on the scope of work and assumptions described above, the estimated costs to complete the Phase II investigation of the Amenia - Route 22, South site are as follows:

Consultant Costs (including labor, direct costs, fee)	$42,800
Drilling Contractor	21,360
Laboratory	16,000
Total	$80,160

Appendix A1.1-1

p1 of 4

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

COMMUNICATIONS RECORD FORM

Distribution: ( ) File 314066, ( ) ______
( ) ______, ( ) ______
( ) Author

Person Contacted: Harry Bly Date: [illegible]

Phone Number: 914 373-9024 Title: Chairman, Zoning Board of Appeals

Affiliation: Town of Amenia Type of Contact: Phone

Address: ______ Person Making Contact: [illegible]

Communications Summary: Amenia – Rt. 22 South site

- Mr. Bly indicated that the title transfer has been completed for the [illegible] bought property and Mr. [illegible], Harlem Valley LP is the new owner of that parcel.
- I asked about "Sunoco". Mr. Bly indicated that Sunoco is a person's name – not a company. He could not recall the last name. He said Mr. Sunoco did live in Poughkeepsie. Sunoco went bankrupt with his operation and sold to Karl [illegible] -- [illegible] has the old Sunoco tanks.
- The [illegible]'s never owned the "Murphy" property. They are the north site – that was operated separately. There is a [illegible] in between the [illegible] and the "South" site.
- The property was operated as a dump when owned by the Murphy Brothers.
- Sunoco actually owned the [illegible] before [illegible] bought this parcel.

(see over for additional space)

Signature: [illegible] (cont.)

Communications Summary (cont.):

- The dump was on both the areas, i.e. the parcel owned by Curtis Wright and that owned by Sunco.

- The dump was covered about the time the Harlem Valley LF started. The Town paid to have Segalla cover the dump.

Signature: [signature]

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

p. 3 of 4

COMMUNICATIONS RECORD FORM

Distribution: (X) File No. 31006, ( ) ____
( ) ____, ( ) ____
( ) Author

Person Contacted: Helen Cook Date: 7 OCT 86

Phone Number: (914) 373-9334 Title: Tax assessor

Affiliation: Town of Amenia Type of Contact: phone

Address: ____ Person Making Contact: LIGOTINO

Communications Summary: Re: Amenia - Rt. 22 South Site

Ms Cook indicated that the property Mr. Bly had indicated was owned by Curtis Wright Corp was listed as the following:

Metal Improvement Company, Inc.
c/o Curtis Wright Corporation
Attn: Tax Dept.
1200 Wall Street
Lyndhurst, NJ 07071

The current owner of the adjacent property north of the Curtis Wright property is:

Mr Karl Saliter
Jackson Hill Road
Box 128
Sharon, CT 06069

(see over for additional space)

Signature: Rebecca Ligotino

Ms Cook indicated, as had Mr. Barlow, that the Curtis Wright property had been sold but the papers had not come through yet.

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science, and Technology, Inc.

D-44

COMMUNICATIONS RECORD FORM

Distribution: (X) File 314006, ( ) ______
( ) ______, ( ) ______
( ) Author

Person Contacted: Ms Fay Barlow Date: 9/30/86

Phone Number: (914) 373-8118 Title: Town Clerk

Affiliation: Town of Amenia Type of Contact: phone

Address: ______ Person Making Contact: AGOSTINO

Communications Summary: Ownership of Amenia - Rte. 22, South Site

Ms Barlow could not find addresses for Curtis Wright Corp. or Sunoco. Referred me to Tax Assessor - Helen Cook.

Ms Barlow did say she thought the Curtis Wright Corp. property had recently been sold to Mr John Segalla
Harlem Valley Landfill
Leedsville Rd
Amenia, NY 12501

However the title transfer had not come through yet so didn't feel we should name Mr Segalla as owner.

(see over for additional space)

Signature: [signature]

Appendix A1.1-2

RECEIVED APR 5 1985

Benson Road
Wassaic, New York
12592

April 3, 1985

Dear Mr. Kapp:

I received your letter and enclosure of March 19, and as I told you on the telephone I am enclosing herewith a map and summary. This is a rough map of the area which I pointed out to McCleary/McConnell. As you know I accompanied them to point out the site. The number of pieces of property used over the years and their proximity is confusing, but this may help. So much time has elapsed that it would take a lot of research and imput from people who were closely connected with the various operations to come up with a complete report.

The landfill operated for many years. The Murphy property now owned by Curtis Wright was used as a dump for many years. Then Surico bought other Murphy property and started a landfill. Through some disagreement of the town board members and his desire to service other towns as well as Amenia and Sharon, Connecticut so as to ~~make the venture~~ possible, Surico was forced to close. At that time ~~drums~~ were stored on Surico property. Some were later removed. During that time of disagreement with town officials, the Culver land was started as a landfill and operated for the Town of Amenia for about a year, then closed. Then the Curtis Wright land was leased and operated by the towns of Amenia and Sharon until closed and covered by a local contractor. Then the Harlem Valley Landfill took over and contracted with Amenia and Sharon and is still operating. This sums up the situation to the best of my knowledge and recollection.

I hope this has been of some help to you. My phone number is 914-373-9024 if you want to call me.

Sincerely yours,

Harry Bly

Harry Bly

Mr. Raymond M. Kapp
EA Science and Technology
RD 2, Goshen Turnpike
Middletown, NY 10940

INTERVIEW ACKNOWLEDGEMENT FORM

Site Name: Amenia Landfill, Route 22 South Site

I.D. Number: 314006

Person Contacted: Mr. Harry Bly

Date: 16 January 1985

Title: Chairman of Zoning Board of Appeals

Affiliation: Town of Amenia

Phone No.: 914-373-8118

Address: c/o Town Clerk
Amenia, New York 12501

Persons Making Contact:
McCleary/McConnell

Type of Contact: In person

Interview Summary:

~~The site is currently owned by Curtis Wright Airplanes. Burning was conducted on site in the past. Approximately 50-75 drums dumped on site are above ground. John Cigria, a local developer, moved some of the drums that were above ground. The total number of drums deposited is not known. The landfill operated for several decades, until approximately 1978-1979.~~ The area north of main fill area (north of marsh) was also used as a fill area. This area may have originally been part of the marsh or the edge of it. Some trash is visible on the surface of this area, and it is not known if any barrels were dumped here. ~~The landfill, operated by Mr. Sirrico, was shut down for approximately two years and then started operation again for a short period of time.~~ Municipal waste was disposed of in the landfill. The fill area was a natural depression used for the disposal of wastes. ~~Cover material was obtained from~~ an area across from the landfill on east side of Rt. 22, and ~~open burning was~~ generally conducted on a ~~semi-daily~~ basis. ~~Drums (55 gal) containing unknown substances from an unknown origin were dumped in the main fill area. The exact location, number, and frequency of drums disposed is not known. Most of the drums were buried, however, some drums that were observed above ground were hauled away by an unknown person to unknown locations.~~

Acknowledgement:

I have read the above transcript and I agree that it is an accurate summary of the information verbally conveyed to EA Science and Technology interviewers, or as I have revised below, is an accurate account.

Revisions (please write in corrections to above transcript):

_____

_____

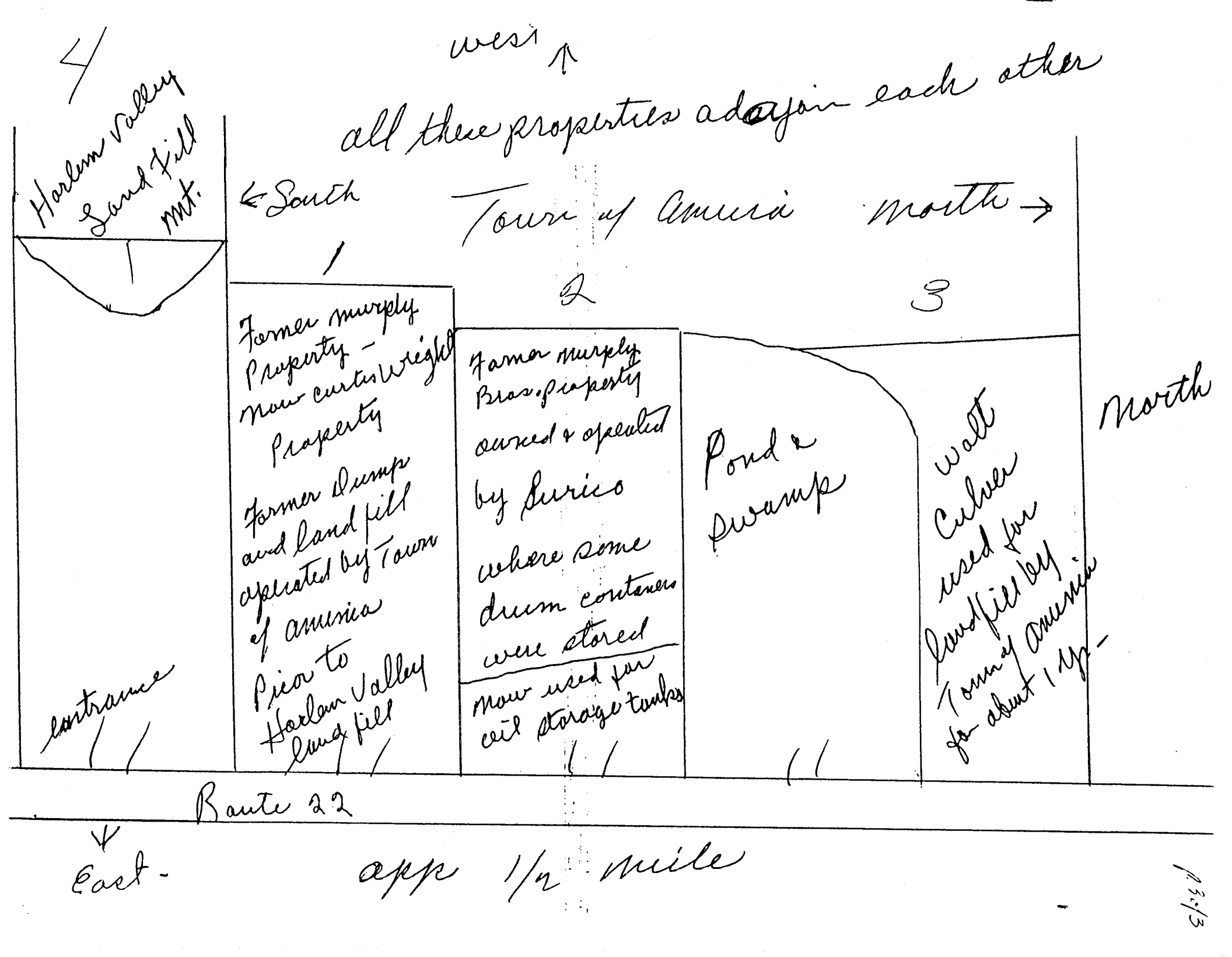
_____

_____

_____

Signature: _____ Date: _____

_____


4
west ↑
all these properties adajoin each other
Harlem Valley Land fill mnt.
← South
Town of Amenia
north →
1
2
3
Former murphy Property - now curtis wright Property
Former dump and land fill operated by Town of America
Prior to Harlem Valley land fill
Former murphy Bros. property owned & operated by Sunico
where some drum containers were stored
now used for oil storage tanks
Pond & swamp
well Culver used for landfill by Town of Amenia for about 1 yr -
North
entrance
Route 22
East -
appx 1/2 mile

APPENDIX A11-3

p 1 of 7

GARY HONOUR
Supervisor, Town of Amenia
Wassaic, N. Y. 12592

January 9, 1969

Dr. Matthew A. Vassallo
Health Commissioner
Dutchess County Department of Health
22 Market Street
Poughkeepsie, New York 12601

Re: Emergency Refuse Site
Town of Amenia

Dear Dr. Vassallo:

This letter is to advise your office that the Town of Amenia has opened a refuse disposal area on the land of Walter and Eleanor Culver in the Town of Amenia as a temporary emergency measure. As a result of Town Board action taken rejecting the proposals made by a potential commercial dump operator on the previously used disposal site, effective January 1, 1969, the Town of Amenia had no place to dump its refuse. It was very unfortunate that your office was not informed of this move until now, and we are very regretful of that fact.

We request that directives by your office, as a result of noncompliance to Health Department regulations, forbidding the use of the emergency refuse disposal area be postponed pending results of soil tests and a plan of disposal operation being made by a professional engineer employed by the town. The Disposal area in question was jointly inspected by David Ruff, Sanitarian, and Henry W. Scoralick, Director of Environmental Sanitation, and as a result of this inspection, Mr. Scoralick informed us by letter that the site in question, in his opinion, had good potential as a refuse disposal area and that there appeared to be sufficient cover material at the site.

The Town Board of Amenia is taking action forthwith to obtain the services of a professional engineer and to present to your office the necessary plans for your approval. We respectfully request any services or suggestions from your office which might assist us in the expeditious compliance with Health Department regulations regarding sanitary refuse disposal by land fill method.

Cordially,

Town Board of Amenia

Gary C. Honour

Gary C. Honour
Supervisor

Appendix A1.1-4

A.1-13

DUTCHESS COUNTY DEPARTMENT OF HEALTH

RECORD MEMO

To: File

Date 1/2/64

From: D. Duff

Subject: Office Disposal - Culver Property - T. Amenia

Called Mrs. Donnell (Town Clerk) for information on the true property owners of the Culver Property. Mrs. Donnell referred me to Philip Cunningham who is Chairman of the Board of Assessors for the T. Amenia. I explained to Mr. Cunningham the property in question. Mr. Cunningham said the true owners were Walter and Eleanor Culver, Amenia, New York.

D. C. San 23

No. 106617

p. 247

SENT TO	POSTMARK OR DATE
Mr. Honour & Town Board	
STREET AND NO. Amenia	
P. O., STATE, AND ZIP CODE N.Y. 12592	

EXTRA SERVICES FOR ADDITIONAL FEES

Return Receipt: Shows to whom and date delivered	Return Receipt: Shows to whom, date, and where delivered	Deliver to Addressee Only
[X] 10¢ fee	[ ] 35¢ fee	[ ] 50¢ fee

POD Form 3800 Mar. 1966 NO INSURANCE COVERAGE PROVIDED— NOT FOR INTERNATIONAL MAIL (See other side)

March 21, 1969

Mr. Gary Honour, Supervisor and
Town Board
Town of Amenia
Amenia, New York 12592

Subject: Refuse Disposal
T. Amenia

Gentlemen:

In a letter dated February 27, 1969, Mr. Matthew Vassallo raised some questions relative to your application for approval of a Town Refuse disposal site. To date, this office has not received a reply to the questions. I'm sure we don't have to remind you that the refuse disposal site presently in use has not been approved as required by the State Sanitary Code. Furthermore, you are presently using an area which was not shown on the plot plan originally submitted.

In addition to the above noted violations, burning of refuse at the site has occurred resulting in complaints to this department. This practice is prohibited by 10NYCRR 190.2 of the New York State Public Health Law, Part 19 of the NYS Sanitary Code and Chapter III of the Dutchess County Sanitary Code. These violations have been documented by personal observation by department personnel, pictures and by complaints.

Unless we have your cooperation by the immediate discontinuance of burning and the submission of the necessary information relative to your application by April 1, 1969, we will have no alternative but to submit our documentation of these violations to the New York State Health Department for use in enforcement proceedings.

Very truly yours,

H. W. Scoralick, P.E.
Dir. of Environ. Sanitation

hws/lb

March 11, 1969

Matthew A. Vassallo, M.D.
Health Commissioner
Dutchess County Department of Health
22 Market Street
Poughkeepsie, New York 12601

Re: Proposed Sanitary Land Fill, Culver Property

Dear Dr. Vassallo:

In reply to your letter of February 27, 1969 the following explanations are given for clarification of the seven points listed:

1. Days and hours of operation will be Monday, Wednesday, and Saturday 9 A.M. to 4 P.M., with the provision that licensed refuse collectors may gain limited access to the site on Tuesday, Thursday and Friday. The custodian will be present on the site full time during these hours. The Highway Superintendent shall be responsible for compacting and covering the refuse and will provide a qualified machinery operator.

2. Four portable 2-1/2 gallon pressurized water extinguishers to combat refuse fires and a 5 pound ADC chemical extinguisher to combat machinery fire will be kept on the site. The Amenia Fire Co., 1.5 miles north of the site, and the Wassaic Fire Co., 2.0 miles south of the site, are always available for any major fires.

3. An area to the southwest of the refuse site has been leveled for the stockpiling of bulky waste products. These waste products will periodically be covered with earth fill.

4. The Highway Superintendent is taking measures to purchase an additional front end loader and the town has more than one qualified machinery operator.

5. The residents of the Town of Amenia, excluding the Wassaic State School, will be using this site exclusively.

6. Refuse will not be deposited at a lower elevation than the pad as shown on the plan and the distance to rock will be no less than five (5) feet.

I hope this clarifies our application and you may now give us final consideration.

Very truly yours,

Richard N. Carlson, L.S.
for John W. Drumgould, P.E. & L.S.

Gary Honour

and Gary Honour, Supervisor
Town of Amenia

RNC:gsr

att. Mr. Sicoralick please return this copy to me G.Honour.

... 26, 1967

13.

February 27, 1969

Mr. Cary Honour, Supervisor
Town of Amenia
Wassaic, N. Y. 12592

Re: Proposed Sanitary Landfill, Culver Property

Dear Mr. Honour:

I have received and reviewed your proposed plan for the operation of the aforementioned Culver Property as a sanitary landfill and find that we must have clarification of the following before approval can be given:

1) The hours of operation that you indicate are from 8 a. m. to 5 p. m., Monday through Saturday; however, the custodian is only on duty six (6) hours per day. Who will supervise the site during the remainder of the hours that the landfill site is open? Who is the machinery operator that is responsible for covering and compacting the garbage and refuse? What are the hours that this operator will be on the site? It is recommended that the machinery operator be on the site during the entire operation if there is to be proper maintenance.

2) What type of fire extinguisher will be available on the site and how many will there be? What arrangements does the Town have for fire-fighting equipment in the even of a major fire?

3) There is no mention of what you are planning to do with bulky waste products. Will you be stockpiling this material and, if so, where will you be stockpiling it, for how long and how will you dispose of it?

4) What provisions have you made for additional machinery and equipment in the event of breakdowns and what plans do you have for a stand-by operator in the event your regular operator is incapacitated?

Mr. Gary Honour, Supervisor

February 27, 19[illegible]

5) Will any other municipality or community be using this site for disposal of garbage and trash?

6) Distance to rock is to be no less thansfive (5) feet.

7) The proposal as presented must be signed by yourself, as the Town Supervisor. The copy sent to us had no such signature.

Please answer the above items fully and in detail wherever applicable so that we may give your application final consideration and thereby expedite same.

Very truly yours,

MAV:pg

Matthew A. Vassallo, M. D.
Health Commissioner

Henry Hendrick

1917

Dutchess County
Department of Health

22 MARKET STREET
POUGHKEEPSIE, N. Y. 12601

MATTHEW A. VASSALLO, M.D., M.P.H.
HEALTH COMMISSIONER
M. SYLVESTER VALA, M.D., M.P.H.
DEPUTY HEALTH COMMISSIONER

January 17, 1969

The Hon. Gary Honour, Supervisor
Town of Amenia
Wassaic, New York 12592

Re: Emergency Refuse Site,
Town of Amenia

Dear Supervisor Honour:

I have received a request of your Town Board for permission to use the Culver property in the Town of Amenia as an emergency refuse site until such time as all of the requirements of the Health Department are met for the legally required approval of said site by this Health Department.

Please be advised that the site you are using must be operated and maintained in absolute and strict accordance with the requirements of Part 19 of the New York State Sanitary Code and, further, that you will have no more than fifteen (15) days from the date of this letter to submit to this Department all the necessary plans, field test data and a written narrative description of your proposed operation so that we may review and pass on same and advise you as to whether the site proposed by the Town Board is or is not acceptable.

Our staff would be happy to assist you in expediting this matter as quickly as possible so that, hopefully, the situation in the Town of Amenia may be resolved to the satisfaction of all concerned.

Sincerely yours,

Matthew A. Vassallo, M. D.
Health Commissioner

MAV:pg

Appendix A1.1-5
Source: Dutchess Co. DOH

JR Hall

1-1021-27

REFUSE DISPOSAL SITES OPERATION AND MAINTENANCE REPORT
January, February, March, April, May 1975

Town of Amenia - Route 22

Disposal site is owned by Curtis Wright Corporation of New Jersey and leased by the Town. Site is also used under contractual agreement with the Town of Amenia by Sharon, Connecticut. The Town contracts the daily operation and maintenance of the site to a private individual.

During this report period inspections were conducted at the site on February 10, 1975, March 13, 1975, and April 22, 1975. These inspections showed that the present operation and maintenance is generally acceptable with a few intermittent minor problems. The intermittent problems were need for better daily covering, need for controling blowing papers, and eliminating a slight problem created by the salvaging of refuse.

The violations were discussed with the operator during the inspection and said deficiencies would be corrected immediately.

H.D. 1/75 → 5/75

APPENDIX A1.1-6

(47-15-11 (10/83)

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

PRIORITY CODE: 2a SITE CODE: 314006

NAME OF SITE: (T) Amenia & unknown REGION: 3

STREET ADDRESS: Route 22

TOWN/CITY: Amenia COUNTY: Dutchess

NAME OF CURRENT OWNER OF SITE: (T) Amenia and unknown party

ADDRESS OF CURRENT OWNER OF SITE: Town Hall, Mechanic St., Amenia 12501

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [ ] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: _____ ACRES

SITE DESCRIPTION:

Site suspected of having received industrial wastes from the general area. Site is rural, but accessible; it is vacant. Vegetation covers the area. There are no residences within ¼ mile. A pond is located 200' to the west and a swamp is located adjacent to the north face. A stream meanders from the north to the face of the fill, then turns under Route 22 to the east. There was evidence of drums south of the south-west corner of the area where there is no vegetative growth.

HAZARDOUS WASTE DISPOSED: CONFIRMED [ ] SUSPECTED [X]

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Unknown drums	

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL:

_____, 19___ TO _____, 19_

OWNER(S) DURING PERIOD OF USE: _____

SITE OPERATOR DURING PERIOD OF USE: _____

ADDRESS OF SITE OPERATOR: _____

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER ☐
SOIL ☐ SEDIMENT ☐ NONE ☐

CONTRAVENTION OF STANDARDS: GROUNDWATER ☐ DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: _____

DEPTH TO GROUNDWATER TABLE: _____

LEGAL ACTION: TYPE: _____ STATE ☐ FEDERAL ☐

STATUS: IN PROGRESS ☐ COMPLETED ☐

REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED ☐

NATURE OF ACTION: _____

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

None known.

ASSESSMENT OF HEALTH PROBLEMS:

[illegible]

PERSON(S) COMPLETING THIS FORM:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME B. Sullivan

TITLE ASE

NAME R A Olazagasti

TITLE SWMS

DATE: 12/83

NEW YORK STATE DEPARTMENT OF HEALTH

NAME Ronald Tramontano

TITLE Bur. Tox. Subst. Assess.

NAME _____

TITLE _____

DATE: 12/83

47-15-11(2/80)

HAZARDOUS WASTE DISPOSAL SITES REPORT
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Code: A
Site Code: 314006
Name of Site: (T) Amenia ~~& Unknown~~ (SOUTH SITE) Region: 3
County: Dutchess Town/City Amenia
Street Address: Route 22

Status of Site Narrative:

Site suspected of having received industrial wastes from the general area. Site is rural, but accessible; it is vacant, and vegetation covers the area. There are no residences within ½ mile. A pond is located 200 feet to the west and a swamp is located adjacent to the north face. A stream meanders from the north to the face of the fill, then turns under Route 22 to the east. There was evidence of drums south of the southwest corner of the area where there is no vegetative growth.

Type of Site: Open Dump ☑ Treatment Pond(s) ☐ Number of Ponds
Landfill ☑ Lagoon(s) ☐ Number of Lagoons
Structure ☐

Estimated Size 8-10 acres Acres

Hazardous Wastes Disposed? Confirmed ☐ Suspected ☒

*Type and Quantity of Hazardous Wastes:

TYPE	QUANTITY (Pounds, drums, tons, gallons)
Unknown drums	

*Use additional sheets if more space is needed.

Name of Current Owner of Site: (T) Amenia & Unknown party
Address of Current Owner of Site: _____

Time Period Site Was Used for Hazardous Waste Disposal:
_____, 19___ To _____, 19 75

Is site Active ☐ Inactive ☒
(Site is inactive if hazardous wastes were disposed of at this site and site was closed prior to August 25, 1979)

Types of Samples: Air ☐ Groundwater ☐ None ☐
Surface Water ☐ Soil ☐

Remedial Action: Proposed ☐ Under Design ☐
In Progress ☐ Completed ☐
Nature of Action: none

Status of Legal Action: none State ☐ Federal ☐

Permits Issued: Federal ☐ Local Government ☐ SPDES ☐
none Solid Waste ☐ Mined Land ☐ Wetlands ☐ Other ☐

Assessment of Environmental Problems:

None known. Additional samples need to be taken to determine environmental impact.

Assessment of Health Problems:

None known.

Persons Completing this Form:

Jack Doty
G. David Knowles

New York State Department of Environmental Conservation
Date 4/10/80

Ronald Tramontano

New York State Department of Health
Date 4/10/80

1/16/80
CDK:cl

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REPORTED HAZARDOUS WASTE SITES

#1-1

Date 8/14/79
D.E.C. Region 3
County Dutchess

Site Owner Town of Amenia & Unknown Party
Site Name, if any Town of Amenia (Municipal)
Location Rt. 22 South, West of Highway
T. Amenia
Milepost 8205 1228

Site Description-(size, topography, residences, surface water, vegetation, land use, accessibility to people, etc.)
8 - 10 Acres, Rural but accessible, no residences within ½ mile. land is vacant with good vegetative cover. Pond located 200 ft. to west, Swamp located adjacent to north face. Stream meanders from north to face of fill, then turns under Rt. 22 to the east.

Waste Description-(containers, physical character, odors, color, source, etc)
Municipal - Sharon & Amenia
Evidence of drums south of southwest corner in area with no vegetative growth.
No leachate evidenced.

Remarks-(names of others who may have knowledge of this site and any additional pertinent information)
Inspected 11/13/79

Source of information Dave Ruff Phone 485-9706
Address DCHD
Information Received By Bob Vrana Phone 485-9707
Title AIHE

Is this site included in the list of 520 sites in the In-Place Toxics Task Force Report? Yes ☐ No ☒
If field inspection is made, the site should be described using the Initial Evaluation of Industrial & Hazardous Waste Site Inspection Form

Appendix A1.1-7
Source: Dutchess County EMC

p.1-12

Site # 1-2
Town of [illegible] Old Landfill Rt 35 South Site

12/13/80 Field Inspection

Participants
Bob [illegible] Co Health Dept
Clint Jones Cary Arboretum
Norm Benson Co. Soil & Water Cons District
Charles Shaw Dut Co Coop Extension & EMC

Bob pointed out a location on this old Town municipal dump which was supposed to be used exclusively for the disposal of drums (not known if they contained wastes or were empty). See attached map and sketch. Site is located along a stream. Evidence of barrels sticking out of ground.
Charles photographed site as well as municipal dump area - slides in his possession.

Follow up
1. Speak with dump attendant or knowledgeable persons (Town officials) concerning drums contents - Also verify site use.

Charles Shaw
12/13/80


Amenia
Substation
Site 1-1 South
1-2 North
Town of Amen
Rt 22
1-2
1-1
Barrel & Drum Disposal
A M E N I
Creek
Hollow
Road

Appendix A1.3-1
1 of 3

FINAL REPORT

WATER RESOURCES STUDY FOR DUTCHESS COUNTY

for

Dutchess County Department of Planning

by

Robert G. Gerber
Consulting Civil Engineer and Geologist
Ash Point Road
South Harpswell, Maine 04079

June 1982


Appendix A1.3-1
Source: Gerber 1982
2 of 3
Amenia Quad
SITE 314006
SCALE
1:24,000

TABLE 7--ALLOWABLE RESIDENTIAL DENSITIES FOR HOMES ON SEPTIC TANKS AS LIMITED BY WATER QUALITY IMPACTS

Geologic Unit Code	Soil Type	Natural Recharge Rate	Allowable Dwellings Per Acre	Allowable Acres per Dwelling
s	thin sand and gravel	0.74 gpm/acre	1.6	0.6
g	thick sand and gravel	0.93 gpm/acre	2.0	0.5
b	thin soil over rock	0.35 gpm/acre	0.75	1.3
t	thick silty till	0.17 gpm/acre	0.4	2.7
l	lacustrine clay-silt	0.12 gpm/acre	0.25	4.0

FORMULA FOR CALCULATING ALLOWABLE DENSITIES:

$$C_{nitrate} = C_b + \frac{(C_s \times q_s \times d)}{q}$$

$C_{nitrate}$ is the resultant concentration of nitrate-nitrogen in ground water as a result of subsurface sewage disposal systems; maximum acceptable = 10 mg/l

C_b is the background concentration of nitrate-nitrogen in ground water, which is equal to about 0.25 mg/l (parts per million) in a forested area

C_s is the concentration of nitrate-nitrogen in septic tank discharges that reach the ground water = 30 mg/l

q_s is the average leachfield discharge rate per dwelling, which is equal to 70% of 300 gallons per day or 0.15 gallons per minute

q is the rate of natural ground water recharge, averaged over the year

d is the allowable housing density in dwellings per acre which is derived algebraically

Appendix A1.3-2
1 of 3

FINAL REPORT

WATER RESOURCES STUDY FOR DUTCHESS COUNTY

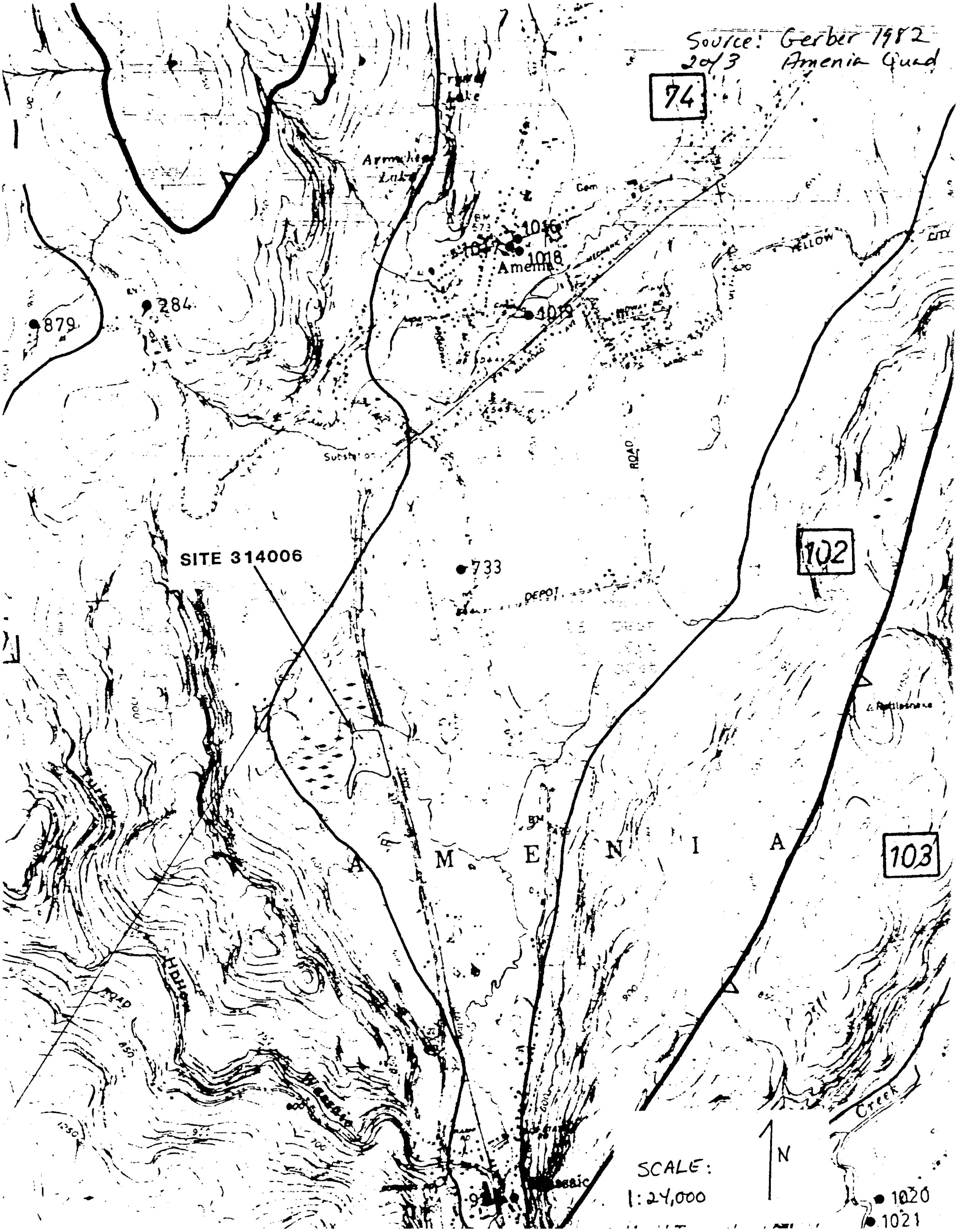
for

Dutchess County Department of Planning

by

Robert G. Gerber
Consulting Civil Engineer and Geologist
Ash Point Road
South Harpswell, Maine 04079

June 1982


Source: Gerber 1982
Amenia Quad
74
102
103
SITE 314006
284
879
1016
1017
1018
1019
733
Amenia
Substation
DEPOT
ROAD
YELLOW
CITY
A M E N I A
Creek
SCALE:
1:24,000
N
1020
1021

Carbonate Rocks (AQUIFER NOS. 40-81)

SYMBOL	BEDROCK FORMATION	ROCK TYPES
Oba	Balmville	Limestone
Oew	Wappinger Group	Limestone, Dolostone, Shale
Ow	Copake	Limestone, Dolostone, Siltstone
€w	Briarcliff/Pine Plains	Dolostone, Shale, Oolite
€s	Stissing	Dolostone, Shale
Oest	Stockbridge	Marble

BEDROCK AQUIFER NUMBERS and ASSOCIATED ROCK TYPE SYMBOLS

40	Oew; minor Oba
41	Oew
42	Oew
43	Oew
44	Oew
45	Oew; minor Oba
46	Oew; minor Oba
47	Oew; minor Oba
48	Oew
49	Oew
50	Oew
51	Oew; minor Oba
52	Oew
53	Oew
54	Oew
55	Oew
56	Oew; minor Oba
57	?Oba?
	-
	-
60	Oba, €w
61	Ow, €w
62	€s
63	Ow, €w, €s
64	€w, €s
65	Ow, €w
66	Ow, €w
67	Oba, Ow
68	Oba
69	Oba
70	Oba
71	Oba
72	Oba
73	Oest
74	Oest
75	Oest
76	Oest
77	Oest
78	Oest
79	Oest
80	Oest
81	Oest

STATE OF NEW YORK

DEPARTMENT OF CONSERVATION

WATER RESOURCES COMMISSION

Ground-Water Resourses of Dutchess County, New York

By

E. T. SIMMONS, I. G. GROSSMAN, AND R. C. HEATH
Geologists, U. S. Geological Survey

Prepared by the

U. S. GEOLOGICAL SURVEY

in cooperation with the

NEW YORK WATER RESOURCES COMMISSION

BULLETIN GW-43

ALBANY, N. Y.

1961

Table 12.--Drillers' logs of selected wells in Dutchess County

(Location coordinates are explained on preceding page. All logs from drillers unless otherwise indicated. Formation names are taken from the geologic map, pl. 2.)

		Thickness (feet)	Depth (feet)
Du 14:	13Y, 4.1N, 8.0W; drilled by Feller Bros. in 1939.		
	Clay, brown	8	8
	Clay, yellow	26	34
	"Hardpan" 1/	3	37
	Shale and "bluestone" 2/ (Hudson River formation). Yield 60 gpm.	23	60
Du 25:	13Y, 1.0N, 6.7W; drilled by Wallace Rockefeller in 1946.		
	Sand and gravel	16	16
	"Hardpan"	3	19
	Slate	2	21
	"Bluestone"	9	30
	Slate and "bluestone". Yield about 10 gpm.	107	137
Du 64:	14Y, 12.4N, 7.1W; driller unknown; drilled about 1839.		
	Gravel	20	20
	"Hardpan"	5	25
	Shale and "bluestone" (Hudson River formation). Yield 135 gpm.	275	300
Du 69:	15Y, 15.9N, 8.4W; drilled by Feller Bros. in 1947.		
	Shale	26	26
	"Bluestone"	199	225
	Shale	10	235
	"Bluestone". Yield 12 gpm.	15	250
Du 77:	13Y, 12.5N, 1.9W; drilled by T. J. Philipbar in 1946.		
	Gravel	2	2
	Unknown	8	10
	Sand	15	25
	Clay	32	57
	Limestone (Stockbridge limestone). Yield 5 gpm.	63	120
Du 78:	15Y, 10.6N, 9.6W; drilled by Sloat & Rutledge Co.; date unknown.		
	Sand	10	20
	"Hardpan" and boulders	10	20
	"Hardpan"	14	34
	"Bluestone," fractured near top (Stockbridge limestone). Yield 40 gpm.	366	400
Du 83:	14Y, 16.0N, 2.4W; drilled by Ernest Sigler in 1946.		
	Soil	3	3
	Shale	12	15
	Shale and "bluestone"	6	21
	Bluestone" and white quartz. Yield 18 gpm.	94	115
Du 87:	13Y, 4.4N, 7.9W; drilled by Hugh McLean & Sons in 1947.		
	Clay, yellow	6	6
	Clay, blue	24	30
	Gravel (main water-bearing zone)	6	36
	Shale and "bluestone". Yield 20 gpm.	4	40
Du 90:	13Y, 15.2S, 10.3E; driller unknown; drilled in 1931.		
	Sand, fine	34	34
	Sand, fine, and clay	10	44
	Sand	36	80
	Sand, and clay, blue	4	84
	Sand, coarse (main water-bearing zone). Yield unknown.	22	106
Du 99:	13Y, 10.8S, 10.1E; drilled by George LaFarge in 1937.		
	Clay, blue	22	22
	Gravel	6	28
	Clay, blue	14	42
	Gravel with cobbles (main water-bearing zone). Yield 180 gpm.	28	70
Du 104:	13Y, 1.3N, 9.6W; drilled by Feller Bros. in 1948.		
	Sand and gravel	25	25
	Clay, blue	50	75
	"Hardpan"	8	83
	"Bluestone" (Hudson River formation). Yield 15 gpm.	317	400
Du 128:	14Y, 16.0N, 7.1W; drilled by Feller Bros. in 1948.		
	Clay and sand	20	20
	Sand, fine, clay, blue, and "hardpan"	70	90
	Shale, white quartz, and "bluestone" (Hudson River formation). Yield 5 gpm.	39	129
Du 167:	13Y, 3.0S, 12.1E; drilled by Ralph Carter in 1930.		
	Clay	2	2
	Sand, fine	8	10
	Clay	3	13
	Sand and gravel (main water-bearing zone). Yield 250 gpm.	35	48
Du 215:	15Y, 1.0N, 5.9W; drilled by Frank Cross in 1936.		
	Clay, yellow	150	150
	Gravel and boulders	50	200
	Clay, yellow, and pea gravel	204	404
	Granite. Yield 25 gpm.	376	780
Du 224:	14Y, 1.1N, 1.5W; drilled by T. J. Philipbar in 1948.		
	Shale, broken	15	15
	Shale, red and gray, and sandstone (Hudson River formation). Yield 5 gpm.	131	146
Du 247:	13Y, 9.1S, 2.0E; drilled by Warren Feller; date unknown.		
	Gravel, coarse	30	30
	Clay "hardpan"	6	36
	Gravel, coarse (main water-bearing zone). Yield 18 gpm.	3	39
Du 266:	13Y, 6.7S, 5.6E; drilled by R. Irish in 1948.		
	Clay and boulders	100	100
	Shale (Hudson River formation). Yield about 5 gpm.	121	221
Du 405:	15Y, 8.9N, 1.1W; drilled by Vincent Harris in 1939.		
	Loam and sand	14	14
	Shale (Hudson River formation). Yield 4 gpm.	101	115
Du 410:	15Y, 11.4N, 3.4W; dug by G. C. Rossway in 1941.		
	Topsoil	2	2
	Clay, blue	4	6
	"Hardpan"	4	10
	Gravel, medium. Yield 3 gpm.	2	12

1/ "Hardpan" as used in most of these logs presumably refers to glacial till.

2/ "Bluestone" as used in most of these logs presumably refers to sandy beds in the Hudson River formation.

Appendix A1.5-1
P. 173

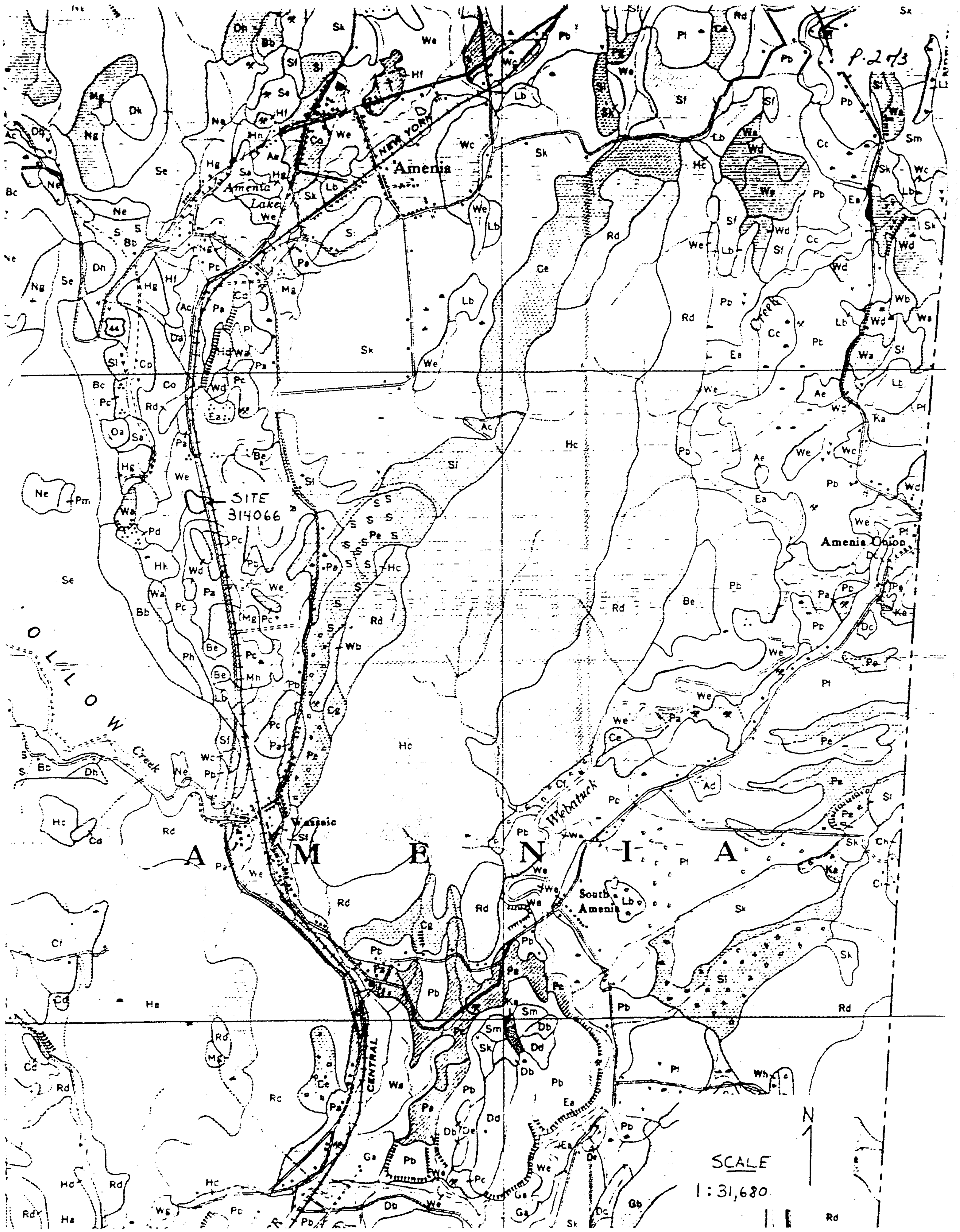
SOIL SURVEY

Dutchess County New York

Series 1939, No. 23

Issued December 1955

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
In cooperation with the
CORNELL UNIVERSITY AGRICULTURAL EXPERIMENT STATION



p. 2 of 3
Amenia
Amenia Lake
NEW YORK
SITE 314066
OLLOW
Creek
Webatuck
Creek
Amenia Union
Wassaic
A M E N I A
South Amenia
CENTRAL
N
SCALE
1:31,680

12 or 14 inches. The subsoil, to a depth of 24 or 30 inches, is brown to yellowish-brown heavy gravelly loam or heavy gravelly silt loam, either of which is friable and has a faint reddish shade in many areas. This layer, more clayey than those above or below, is slightly alkaline in the upper part but becomes strongly alkaline or faintly calcareous with depth. From 24 or 30 downward to 36 or 40 inches the subsoil is strongly calcareous grayish-brown gravelly light loam or gravelly sandy loam. The substratum, starting below 36 to 40 inches, consists of gray calcareous stratified sand, gravelly sand, and gravel somewhat cemented together with lime carbonate.

Aeration is good. Roots penetrate all layers but are most abundant in the surface soil. The soil is not so retentive of moisture as is desirable. Crops are occasionally damaged during long dry periods.

Use and management.—The cultivated areas of these soils are used principally for corn, oats, alfalfa, red clover, and timothy. A corn-oat-hay rotation is generally followed but its length is varied considerably. Corn is commonly grown 1 or 2 years in the rotation, followed by 1 year in oats, and then by hay, which is maintained until yields decline. Most meadows are pastured one or two seasons before plowing. Manure is used for corn, and lighter top dressings of it are applied on old meadows. Superphosphate is used for corn and oats and occasionally with the top dressings of manure applied to meadows.

Pastures are confined mainly to old meadows and are generally good or excellent. They include a small proportion of weeds and timothy, red clover, bluegrass, wild white clover, and redtop. Pastures are damaged during long dry periods.

On these soils farmers can afford to grow row crops frequently in the rotation if they apply enough manure and fertilizer. By concentrating row crops on these soils they can use sloping soils to greater extent for hay. These soils need phosphorus and practices that maintain organic matter and nitrogen. Lime is abundant in them, and potash deficiency is not common if manure is used. No special practices of tillage are needed to control runoff.

Palmyra gravelly loam, hilly phase (15–25% slopes) (Pa).—This hilly droughty soil contains much lime. It was originally classified as Groton gravelly loam, for it occupies knolls and hills unlike the topography for Palmyra soils of the terraces. Nevertheless, its profile and parent material are similar to those of Palmyra gravelly loam, nearly level and undulating phases. The parent material is limestone rock material, with some schist, slate, and crystalline rock admixed. Relief is irregular and rolling to hilly—that typical of kame deposits. Internal drainage is good to excessive. The main areas occur in the limestone valleys, chiefly in the Harlem Valley. They range from 2 to 30 acres in size and are closely associated with areas of other Palmyra soils.

The surface soil is 6 to 8 inches thick, dark brown, granular, friable, and neutral or slightly acid. From 7 down to 12 inches is pale-brown friable heavy gravelly loam or light silt loam varying from slightly acid to slightly alkaline. The subsoil extending to depths of 24 or 30 inches is gravelly heavy silt loam, higher in clay than horizons above or below. The substratum consists of strongly calcareous stratified grayish-brown gravel, coarse sand, fine sand, and gravelly sand.

The gravel throughout the profile consists mainly of limestone, with some quartz, slate, schist, gneiss, and granite rock materials intermixed. The pieces of gravel on the surface are usually small and, in most places, do not interfere greatly with cultivation.

Use and management.—Cultivated areas of this soil are used mainly for hay but to some extent for corn and oats. Alfalfa does well and is the main hay crop. Red clover and timothy are also grown. The rotations followed vary in length. Corn and oats are usually grown in the rotation only 1 year each. Alfalfa is maintained for several years, or until yields fail. The soil requires heavy applications of manure for corn and top dressings of fertilizer for hay. From 200 to 500 pounds of 20-percent phosphate, with manure as available, is normally used in the rotation. Phosphate and manure are applied mainly for the corn and oats.

Pastures vary from excellent to poor. Rotation pastures support bluegrass, wild white clover, red clover, alfalfa, timothy, redtop, and a few weeds. In the well-cared-for permanent pastures, Canada and Kentucky bluegrasses, wild white clover, and orchard grass are growing. Old pastures that have been neglected often have a greater proportion of goldenrod, wild aster, mullein, Canada thistle, and other weeds than of desirable grasses. Most pasture could be greatly improved without reseeding by applying top dressings of manure and superphosphate.

The forested areas include white ash, hard maple, red and white oaks, redcedar, gray and white birches, and aspen.

This phase needs a long rotation, one that keeps leguminous hay or pasture on it at least two-thirds of the time. Little or no lime is required, but phosphorus must be supplied. Manure is highly beneficial, for it helps maintain supplies of organic matter, nitrogen, and potash. The uneven topography makes strip cropping extremely difficult, but the soil should be worked across the slope. Control of runoff must be accomplished by maintaining supplies of organic matter at a high level and keeping a vigorous protective sod-forming cover on the soil. The soil is droughty, so as much water as possible should be kept on it.

Palmyra gravelly loam, steep phase (25–45%) (Po).—Its slopes are steeper and its profile is generally slightly thinner and lighter colored, but in other respects this soil is similar to the hilly phase of Palmyra gravelly loam. The steep irregular slopes make use of farm machinery very difficult and cause very rapid runoff. The soil is droughty.

Use and management.—This soil is poorly suited to cultivation but fair for pasture. If crops must be grown, a long-lived legume such as alfalfa should be seeded and left for long periods. Small grains should be sown as soon as the stand of alfalfa fails. Wherever possible the soil should be used for pasture or forest. Fertilizer needs are similar to those of Palmyra gravelly loam, hilly phase.

Pawlet silt loam (0–3% slopes) (Pd).—The level flood plains of streams are occupied by this moderately well-drained soil. It has developed from fine sediments that were washed from nearby uplands and deposited on the first bottoms during floods. The material con-

New York State Atlas of Community Water System Sources 1982

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY I

Appendix A1.5-2
p 1 of 3

SYSTEM SOURCES-1982

SITE 314066

NEW YORK STATE DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF PUBLIC WATER SUPPLY PROTECTION

DUTCHESS and PUTNAM COUNTIES

SCALE 1:250,000
5 MILES
NORTH

DUTCHESS COUNTY

P.3 of 3

ID NO	COMMUNITY WATER SYSTEM	POPULATION	SOURCE
Municipal Community			
1	Amenia Water District #1.	1000.	Wells
2	Annandale Water Company.	1008.	Wells
3	Atlas Water Company.	1300.	Wells
4	Beacon City (See also No 3 Putnam Co).	5000.	Mt. Beacon & Melzinga Reservoirs, Wells
5	Beekman Country Club.	300.	Wells
6	Brettview Acres Water Company.	920.	Wells
7	Brinkerhoff Water Company.	3500.	Wells
8	Central Wappinger Improvement Area.	1800.	Wells
9	Deerfield Estates Water District.	900.	Wells
10	Dogwood Knolls.	600.	Wells
11	Dover Plains Water Company.	1500.	Wells
12	Dover Ridge Estates.	60.	Wells
13	Dutchess Estates Inc.	700.	Wells
14	Fishkill Village.	6000.	Wells
15	Fleetwood Manor Water District.	850.	Wells
16	Grandview Water District.	160.	Wells
17	Greenfield Water District.	1250.	Wells
18	Greenmeadow Park Water Company.	350.	Wells
19	Harbourd Hills Water Company Inc.	900.	Wells
20	Hopegard, Inc.	275.	Wells
21	Hopewell Services Inc.	960.	Wells
22	Hyde Park Fire & Water District.	4500.	Crum Elbow Creek, wells
23	Kensington Park Water Company.	65.	Wells
24	La Grange Club Estates.	120.	Wells (Infiltration Gallery)
25	Little Switzerland Water Company.	600.	Wells
26	Millbrook Village.	1735.	Wells
27	Millerton Village.	1600.	Wells
28	Nelson Knolls Water District.	250.	Wells
29	Oakwood Knolls.	375.	Wells
30	Pawling Village.	2400.	Pawling Reservoir, Wells
31	Pine Plains Water Company.	1060.	Wells
32	Pinewood Knolls.	265.	Wells
33	Poughkeepsie City.	30500.	Hudson River
34	Quaker Hill Estates Water District.	920.	Wells
35	Red Hook Village.	2200.	Wells
36	Revere Park Water Company.	560.	Wells
37	Rhinebeck Village.	4200.	Hudson River
38	Rockingham Farms.	300.	Wells
39	Rokeby Homes, Inc.	184.	Wells
40	Schreiber Water Works.	110.	Wells
41	Shorehaven Civic Association.	300.	Wells
42	South Cross Road Water Company Inc.	572.	Wells (Infiltration Gallery)
43	Staatsburgh Water Company.	1072.	Indian kill Reservoir; Wells
44	Taconic Estates.	185.	Wells
45	Tall Trees.	250.	Wells
46	Titusville Water District.	700.	Wells
47	Tivoli Village.	713.	Wells
48	Valley Dale Water Company.	380.	Wells
49	Wappinger Park Homes.	400.	Wells
50	Wappingers Falls Village.	5300.	Wells
51	Willow Lake Water Company.	126.	Wells
52	Windermere Highlands.	375.	Wells
Non-Municipal Community			
53	Angels Trailer Park.	40.	Wells
54	Arbor Arms Apartments.	50.	Wells
55	Arvans Mobile Court #1.	72.	Wells
56	Bard College.	NA.	Sawkill Creek
57	Beckwith Trailer Park.	26.	Wells
58	BGB Mobile Home Park.	137.	Wells
59	Birchwood Mobile Home Park.	42.	Wells
60	Brooks Mobile Home Park.	75.	Wells
61	Cannons Trailer Park.	16.	Wells
62	Canterbury Garden Apartments.	600.	Wells
63	Cedar Hollow Mobile Home Park.	90.	Wells
64	Cedar Lane Mobile Home Park #2.	28.	Wells
65	Charlotte Grove Mobile Trailer Park.	110.	Wells
66	Chateau Hyde Park Home for Adults.	120.	Wells
67	Chelsea Ridge Apartments.	1800.	Wells
68	Clove Branch Apartments.	19.	Wells
69	Colonial Maples Trailer Park.	30.	Wells
70	Cooper Road Trailer Park.	35.	Wells
71	Cove View Apartments.	48.	Wells
72	Daytop Village.	70.	Wells
73	Dutch Garden Apartments.	450.	Wells
74	Dutchess Trailer Park.	30.	Wells
75	East Mountain Trailer Park.	28.	Wells
76	Eleanor Roosevelt.	200.	Wells
77	Elliott Apartments.	36.	Wells
78	Ennis Mobile Home Park.	92.	Wells
79	Feller Trailer Court.	60.	Wells
80	Fieldside Apartments.	50.	Wells
81	Fishkill Park Apartments.	240.	Wells
82	Frantoni Villas.	50.	Wells
83	Gerhard P Stoetzel.	30.	Wells
84	Green Haven Correctional Facility.	NA.	Reservoir
85	Green Meadow Trailer Court.	44.	Wells
86	Greer School.	300.	Wells
87	Harlem Valley Psychiatric Center.	1200.	Swamp River
88	Haviland Apartments.	100.	Wells
89	Haviland Mobile Home Park #1.	44.	Wells
90	Haviland Mobile Home Park #2.	29.	Wells

ID NO	COMMUNITY WATE
Non-Municipal Community	
91	Hi Vu.
92	Hickory Hill Mobile
93	Hidden Hollow Apart
94	Hidden Valley Mobil
95	High Meadows Park I
96	Hoffman Trailer Par
97	Hudson River Psych
98	Hudson View Water
99	Hyde Park Mobile Ma
100	Hyde Park Terrace A
101	Kent Hollow Apartme
102	Kommel Trailer Park
103	Lake Ellis Mobile H
104	Lake Lodges Apartme
105	Lake Walton Park.
106	Lakeview Mobile Hom
107	Lamplight Court Mob
108	Ledges Apartments.
109	Little Falls Trailer
110	M and D Mobile Home
111	Maple Lane Trailer
112	May Lane Mobile Par
113	Maynards Mobile Man
114	McCartha's Trailer
115	Mobile Home Gardens
116	Montclair Townhouse
117	Mountain View Mob
118	Northeastern Confer
119	Northern Dutchess M
120	Ocells Trailer Park
121	Osborne Trailer Park
122	Palmer Apartments.
123	Parkway Apartments.
124	Partridge Run Apart
125	Phillips Trailer Pa
126	Pine Grove Mobile H
127	Powell Road Mobile
128	Ramsey's Trailer Pa
129	Red Church Trailer
130	Rhinebeck Country V
131	Rhinebeck Mobile Co
132	Roberts Running Cre
133	Route 82 Trailer Pa
134	Royal Crest Apartmen
135	Sabo Trailer Park.
136	Saith Mobile Home Pa
137	Scenic Apartments.
138	Scenic View Mobile
139	Shady Acres Trailer
140	Shady Homes Trailer
141	Shady Lane Trailer
142	Simpson Mobile Home
143	Springhill Mobile Ho
144	Sunset Farms Mobile
145	Sunset Knolls.
146	Taconic Motor Lodge
147	Tally Ho Mobile Est
148	Tai Apartments.
149	The Lodge at Rhinebe
150	Unification Theolog
151	Val Kill Park East.
152	Valley Forge Mobile
153	Venture Lake Estates
154	Village Green Apart
155	Wappingers Falls Fra
156	Wassaic Development
157	Willow Tree Park.
158	Wingdale Village Pa
159	Woodcrest Manor Adu
160	Woodfield Apartments

Appendix A15-3

EA SCIENCE AND TECHNOLOGY
A Division of EA Engineering, Science and Technology Inc.

1 of 2

COMMUNICATIONS RECORD FORM

Distribution: ( ) Round 3, Phase I Program Files
( ) _____, ( ) _____
( ) Author

Person Contacted: Mr. Wayne Elliott Date: _____

Phone Number: 9142555453 Title: Regional Fisheries Manager.

Affiliation: NYSDEC Region III Type of Contact: In Person

Address: New Paltz NY Person Making Contact: Tony

Communications Summary: I explained E&A's Phase I work and asked Wayne to indicate whether or not each of the streams in the attached list are viable (and currently utilized) recreational resources -- i.e. used for fishing, wading, swimming, etc.

He studied the DEC files and indicated that each stream was indeed a recreational resource.

(see over for additional space)

Signature: William Tony

All the attached have recreational utility

Dutchess County — Wayne Elliott NYSDEC Reg 3 8-29-86

RED Hook C.F (Rokeby Rd.) - Mudder Kill — per comm. Bud Young
3-STAR Anodizing - WAPPINGERS Creek ? Hudson River
Amenia - WASSAIC Creek
Andreas Prop. - Jackson Creek
Lafko Prop. - Trib. to WAPPINGERS Creek ? WAPPINGERS Creek
White House Crossing - Oster Kill
EAST Fishkill - unnamed
BRAENDLY Dye Co. - Fishkill Creek ? Hudson River

Orange ? Ulster County
AL Turi L.F. - WALLKILL River
F.T DARRIGO - Tributary to ORANGE Lake ? ORANGE Lake
DUPONT STAUFFER - Gidneytown Creek
NAPANOCH Paper Mill - Roundout Creek
Rockland County
* RAMAPO Piece ? Dye - RAMAPO River (Sloatsburg Area)
* RAMAPO Land Co. - " "
RAMAPO Incinerator - Unnamed Trib to LAKE Lucille ? LAKE Lucille
Stoney Point - Hudson River
Kyto Dianostics - Tributary to DeForest LAKE ? DeForest Lake
Dexter L.F. - HACKENSACK River
Camp SHANKS - Sparkill Creek
Ulster County
BATES SCAVENGER - SAWMILL River
CONRAIL - Harlem Div - Trib E. Branch River ? E. Branch River Res.

Seymour Raplin — PASCACK Brook

Appx 2 ?

NYSDEC Inactive HW
Disposal Site Rept

(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: _____ SITE CODE: 314006

NAME OF SITE: Amenia - Route 22, South Site REGION: 3

STREET ADDRESS: Route 22

TOWN/CITY: Town of Amenia COUNTY: Dutchess

NAME OF CURRENT OWNER OF SITE: Mr. John Segalla Mr. Karl Saliter

ADDRESS OF CURRENT OWNER OF SITE: Leedsville Road Box 128, Jackson Hil
Amenia, New York 12501 Sharon, Connecticut 06069

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [ ] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: 10 ACRES

SITE DESCRIPTION:

The Amenia site is an inactive municipal dump located about 1.6 mi south of the Village of Amenia on the west side of State Route 22. The dump operated for an unknown number of years, receiving municipal wastes from Amenia, New York and Sharon, Connecticut. The site is located south and adjacent to a freshwater marsh through which a permanent surface water runs. It is suspected that industrial wastes from the general area were received at the site. It was reported that in 1969 a number of 55-gal drums were stored at the site. It is not known what the drums contained, if anything. Some of the drums were removed from the site at a later time and it is suspected that the remaining drums may have been buried on site. There is a potential for soil, surface water, and ground-water contamination at the site. The nearest well developed in the aquifer of concern is located about 1,350 ft to the west.

HAZARDOUS WASTE DISPOSED: CONFIRMED [ ] SUSPECTED [ ] Unknown

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Unknown	Unknown

TIME PERIOD SITE WAS USED FOR HAZARDOUS WASTE DISPOSAL: Unknown

_____, 19 ___ TO _____, 19 ___

OWNER(S) DURING PERIOD OF USE: "Murphy brothers," Mr. Surico, Metal Improvement Company, Inc

SITE OPERATOR DURING PERIOD OF USE: Town of Amenia

ADDRESS OF SITE OPERATOR: Mechanic Street, Amenia, NY 12501

ANALYTICAL DATA AVAILABLE: AIR ☐ SURFACE WATER ☐ GROUNDWATER ☐
SOIL ☐ SEDIMENT ☐ NONE ☒

CONTRAVENTION OF STANDARDS: GROUNDWATER ☐ DRINKING WATER ☐
SURFACE WATER ☐ AIR ☐

SOIL TYPE: Glacial outwash sand and gravel deposits

DEPTH TO GROUNDWATER TABLE: In swamp area depth = 0 feet

LEGAL ACTION: TYPE: _____ STATE ☒ FEDERAL ☐
STATUS: IN PROGRESS ☐ COMPLETED ☒
REMEDIAL ACTION: PROPOSED ☐ UNDER DESIGN ☐
IN PROGRESS ☐ COMPLETED ☐
NATURE OF ACTION: _____

ASSESSMENT OF ENVIRONMENTAL PROBLEMS:

There is not adequate data available to determine if any environmental problems exist. There is a potential for soil, surface water, and ground-water contamination.

ASSESSMENT OF HEALTH PROBLEMS:

There is not adequate available data to determine if any potential health problems exist.

PERSON(S) COMPLETING THIS FORM:

For: NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

NAME EA Science and Technology
TITLE _____
NAME _____
TITLE _____
DATE: 23 July 1985

NEW YORK STATE DEPARTMENT OF HEALTH

NAME _____
TITLE _____
NAME _____
TITLE _____
DATE: _____

(47-15-11 (10/83)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

DIVISION OF SOLID AND HAZARDOUS WASTE

INACTIVE HAZARDOUS WASTE DISPOSAL SITE REPORT

PRIORITY CODE: _____ SITE CODE: 314006

NAME OF SITE: Amenia - Route 22, South Site REGION: 3

STREET ADDRESS: Route 22

TOWN/CITY: Town of Amenia COUNTY: Dutchess

NAME OF CURRENT OWNER OF SITE: Mr. John Segalla Mr. Karl Saliter

ADDRESS OF CURRENT OWNER OF SITE: Leedsville Road Box 128, Jackson Hill Rd
Amenia, New York 12501 Sharon, Connecticut 06069

TYPE OF SITE: OPEN DUMP [X] STRUCTURE [ ] LAGOON [ ]
LANDFILL [ ] TREATMENT POND [ ]

ESTIMATED SIZE: 10 ACRES

SITE DESCRIPTION:

The Amenia site is an inactive municipal dump located about 1.6 mi south of the Village of Amenia on the west side of State Route 22. The dump operated for an unknown number of years, receiving municipal wastes from Amenia, New York and Sharon, Connecticut. The site is located south and adjacent to a freshwater marsh through which a permanent surface water runs. It is suspected that industrial wastes from the general area were received at the site. It was reported that in 1969 a number of 55-gal drums were stored at the site. It is not known what the drums contained, if anything. Some of the drums were removed from the site at a later time and it is suspected that the remaining drums may have been buried on site. There is a potential for soil, surface water, and ground-water contamination at the site. The nearest well developed in the aquifer of concern is located about 1,350 ft to the west.

HAZARDOUS WASTE DISPOSED: CONFIRMED [ ] SUSPECTED [ ] Unknown

TYPE AND QUANTITY OF HAZARDOUS WASTES DISPOSED:

TYPE	QUANTITY (POUNDS, DRUMS, TONS, GALLONS)
Unknown	Unknown