NUS CORPORATION
A Halliburton Company

FINAL DRAFT
PRELIMINARY ASSESSMENT
METEM CORPORATION
PARSIPPANY, NEW JERSEY

FIELD INVESTIGATION TEAM ACTIVITIES AT UNCONTROLLED HAZARDOUS SUBSTANCES FACILITIES — ZONE I

NUS CORPORATION
SUPERFUND DIVISION

02-8903-09-PA
REV. NO. 0

FINAL DRAFT
PRELIMINARY ASSESSMENT
METEM CORPORATION
PARSIPPANY, NEW JERSEY

NJD002139244

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8903-09
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MAY 12, 1989

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

JOANN L. WAGNER
PROJECT MANAGER

PAUL BAUER
SITE MANAGER

REVIEWED/APPROVED BY:

RONALD M. NAMAN
FIT OFFICE MANAGER

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

PART I: SITE INFORMATION

1. Site Name/Alias Metem Corporation

   Street 700 Parsippany Road

   City Parsippany State New Jersey Zip 07054

2. County Morris County Code 027 Cong. Dist. 11

3. EPA ID No. NJD002139244

4. Latitude 40° 50' 43" N Longitude 74° 25' 33" W

   USGS Quad. Morristown

5. Owner Metem Corporation Tel. No. (201) 887-6635

   Street 700 Parsippany Road

   City Parsippany State New Jersey Zip 07054

6. Operator Metem Corporation Tel. No. (201) 887-6635

   Street 700 Parsippany Road

   City Parsippany State New Jersey Zip 07054

7. Type of Ownership

   ☒ Private ☐ Federal ☐ State
   ☐ County ☐ Municipal ☐ Unknown ☐ Other

8. Owner/Operator Notification on File

   ☐ RCRA 3001 Date ☐ CERCLA 103c Date
   ☐ None ☒ Unknown

9. Permit Information

Permit	Permit No.	Date Issued	Expiration Date	Comments
Unknown				

10. Site Status

    ☒ Active ☐ Inactive ☐ Unknown

11. Years of Operation Unknown to Present

12. Identify the types of waste units (e.g., landfill, surface impoundment, piles, stained soil, above- or below-ground tanks or containers, land treatment, etc.) on site. Initiate as many waste unit numbers as needed to identify all waste sources on site.

(a) Waste Management Areas

Waste Unit No.	Waste Unit Type	Facility Name for Unit
1	Drum Storage Area	Hazardous Waste Storage Area
2	Aboveground Storage Tanks	Waste Storage Tanks

(b) Other Areas of Concern

Identify any miscellaneous spills, dumping, etc. on site; describe the materials and identify their locations on site.

During an inspection conducted on June 6, 1984 by Bob Dante of the New Jersey Department of Environmental Protection (DEP), a drum labeled "Hazardous" was observed leaking onto the ground in the drum storage area. The drum appeared to hold waste oil. The report also indicated that the ground in the storage area was covered with oil and trichloroethane. A subsequent inspection conducted on July 11, 1984 indicated that the drums and contaminated soil had been removed.

13. Information available from

Contact Amy Brochu Agency U.S. EPA Tel. No. (201) 906-6802

Preparer Paul Bauer Agency NUS Corp. Region 2 FIT Date May 12, 1989

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following six items.

Waste Unit 1 - Drum Storage Area , Hazardous Waste Storage Area

1. **Identify the RCRA status and permit history, if applicable, and the age of the waste unit.**

   An inspection conducted on June 6, 1984 by the New Jersey Department of Environmental Protection (DEP) revealed that Metem Corporation had not filed a Part A application. As a result, Metem filed a Part A application on July 31, 1984. Metem could not qualify as an existing Treatment/Storage/Disposal Facility (TSDF) and subsequently requested an exemption from TSDF status on November 7, 1984. The DEP indicated that exemption could not be granted until new "90-day" generator regulations were promulgated. On January 2, 1985, Metem entered into an Administrative Consent Order with DEP which allowed Metem to continue operation without major enforcement action until the new regulations were adopted. On April 24, 1986, the DEP provided Metem with the necessary information regarding the newly adopted regulations and requested that Metem submit a formal request for delisting. After a site visit on September 15, 1988, the DEP again directed Metem to submit a formal request for delisting, which Metem did on October 25, 1988. After reviewing its records, the DEP determined that since Metem never attained interim status for consideration as a TSDF, delisting was not an appropriate action. Therefore, the DEP approved Metem Corporation as a "90-day" generator on December 21, 1988. The age of the facility is unknown.

2. **Describe the location of the waste unit and identify clearly on the site map.**

   It is assumed that the shed observed in the fenced area during an off-site reconnaissance conducted by NUS Corporation Region 2 FIT on April 4, 1989, is the drum storage area. The fenced area is adjacent to the south side of the building.

3. **Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.**

   The shed is approximately 20 feet by 25 feet; the maximum number of drums reported on site is 62. The facility generates 1,400 gallons of 1,1,1-trichloroethane and 1,400 gallons of waste oil annually.

4. **Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.**

   The physical states of the wastes are liquid and sludge.

5. **Identify specific hazardous substance(s) known or suspected to be present in the waste unit.**

   The drum storage area contains 1,1, 1-trichloroethane and waste oil sludge.

6. **Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.**

   An inspection report dated April 22, 1985 indicated that the drum storage area conformed with all applicable regulations It is assumed that the shed observed during the off-site reconnaissance is the drum storage area The shed is closed on three sides. No further information concerning the drum storage area is available

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 13

PART II: WASTE SOURCE INFORMATION

For each of the waste units identified in Part I, complete the following six items.

Waste Unit 2 - Aboveground Storage Tanks , Waste Storage Tanks

1. **Identify the RCRA status and permit history, if applicable, and the age of the waste unit.**

   See waste unit No. 1.

2. **Describe the location of the waste unit and identify clearly on the site map.**

   The actual location of the waste unit is unknown. Its most probable location is inside the area enclosed by a chain link fence on the south side of the building.

3. **Identify the size or quantity of the waste unit (e.g., area or volume of a landfill or surface impoundment, number and capacity of drums or tanks). Specify the quantity of hazardous substances in the waste unit.**

   The waste unit consists of four aboveground 5,500-gallon storage tanks. The facility generates 500,000 gallons of waste acids annually.

4. **Identify the physical state(s) of the waste type(s) as disposed of in the waste unit. The physical state(s) should be categorized as follows: solid, powder or fines, sludge, slurry, liquid, or gas.**

   The physical state of the wastes is liquid.

5. **Identify specific hazardous substance(s) known or suspected to be present in the waste unit.**

   One tank stores nitric acid at 17 percent concentration by weight; two tanks store sulfuric aid at 14 percent concentration by weight; and one tank stores a combination of salt water electrolyte and the previously mentioned sulfuric acid.

6. **Describe the containment of the waste unit as it relates to contaminant migration via groundwater, surface water, and air.**

   All four waste tanks are recessed approximately 6 feet below grade with a secondary containment that is 18 inches greater in diameter than the waste tank itself. This allows for complete visual inspection of the sides of the tank. Each secondary containment holds 300 gallons more than the total volume of the waste tank. The secondary containments sit on top of a 16-inch-thick concrete floor and are surrounded by solid concrete 6 feet up from the floor.

Ref. Nos. 1, 2, 3, 4, 5, 6, 7, 13

PART III: HAZARD ASSESSMENT

GROUNDWATER ROUTE

1. **Describe the likelihood of a release of contaminant(s) to the groundwater as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.**

   Although the groundwater is close to the ground surface (7 feet), there is little potential for a release of contaminants to the groundwater. The tanks and drums in which wastes are stored are reported to be in good condition and in compliance with all requirements. The four aboveground tanks are positioned in concrete secondary containment systems that can hold more than the entire contents of the tanks.

   Ref. Nos. 3, 6, 8

2. **Describe the aquifer of concern; include information such as depth, thickness, geologic composition, permeability, overlying strata, confining layers, interconnections, discontinuities, depth to water table, groundwater flow direction.**

   Pleistocene glacial deposits and the Brunswick Formation, which are part of the Buried Valley Aquifer System, serve as the aquifer of concern. The Pleistocene glacial deposits consist of stratified sand and gravel drift varying in thickness from 30 to 100 feet. This unit overlies and is hydraulically connected to the Brunswick Formation. Approximately 6,000 feet thick, the Brunswick Formation is composed of shale with local occurrences of sandy and pebbly consolidated beds. The sandstone ranges from a few inches to 20 feet in thickness. The many joints and fractures in the Brunswick Formation allow for retention and transport of a fairly large volume of groundwater. The depth to the water table in the vicinity is approximately 7 feet. The direction of groundwater flow is generally southeast.

   Ref. Nos. 8, 9, 10

3. **Is a designated sole source aquifer within 3 miles of the site?**

   The basin aquifers underlying southeast Morris County received sole source aquifer designation in May 1980.

   Ref. No. 10

4. **What is the depth from the lowest point of waste disposal/storage to the highest seasonal level of the saturated zone of the aquifer of concern?**

   The depth from the lowest point of waste storage (6 feet below grade) to the water table is 1 foot

   Ref. Nos. 6, 8

5. **What is the permeability value of the least permeable continuous intervening stratum between the ground surface and the aquifer of concern?**

   The unsaturated zone consists of stratified sand and gravel, with a permeability value greater than 10^{-3} centimeters per second (cm/sec).

   Ref. Nos. 9, 11

6. **What is the net precipitation for the area?**

   The net precipitation for the area is approximately 15 inches

   Ref. No. 11

7. **Identify uses of groundwater within 3 miles of the site (i.e., private drinking source, municipal source, commercial, industrial, irrigation, unusable).**

The groundwater is the primary source for drinking water and industrial uses in this portion of Morris County.

Ref. Nos. 9, 10

8. **What is the distance to and depth of the nearest well that is currently used for drinking or irrigation purposes?**

Distance 2,400 feet _____ Depth 66 feet _____

Ref. Nos. 8, 16

9. **Identify the population served by the aquifer of concern within a 3-mile radius of the site.**

The aquifer of concern is a sole source aquifer, serving approximately 41,400 people within 3 miles of the site.

Ref. Nos. 9, 10, 12

SURFACE WATER ROUTE

10. **Describe the likelihood of a release of contaminant(s) to surface water as follows: observed, alleged, potential, or none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminants to the facility.**

There is small potential for a release of contaminants to the surface water. Although the waste units are reported to be in good condition, the route to surface water is so direct and short that even a small spill could potentially reach surface water.

Ref. Nos. 3, 13

11. **Identify and locate the nearest downslope surface water. If possible, include a description of possible surface drainage patterns from the site.**

The nearest downslope surface water is Eastmans Brook, which flows west to east approximately 600 feet north of the site. The site is bounded on the south and west sides by a drainage ditch. The facility is sloped gently toward the ditch. The drainage ditch continues approximately 600 feet to the north of the site, where it empties into Eastmans Brook.

Ref. Nos. 13, 16

12. **What is the facility slope in percent? (Facility slope is measured from the highest point of deposited hazardous waste to the most downhill point of the waste area or to where contamination is detected.)**

The facility slope as defined above cannot be calculated, as there is no documentation of on-site hazardous waste disposal or contamination. The average site slope is estimated to be approximately 2 percent.

Ref. Nos. 3, 13

13. What is the slope of the intervening terrain in percent? (Intervening terrain slope is measured from the most downhill point of the waste area to the probable point of entry to surface water.)

The slope of the intervening terrain is estimated to be 3 percent.

Ref. No. 13

14. What is the 1-year 24-hour rainfall?

The 1-year 24 hour rainfall is approximately 2.8 inches.

Ref. No. 11

15. What is the distance to the nearest downslope surface water? Measure the distance along a course that runoff can be expected to follow.

The distance to the nearest downslope surface water, Eastmans Brook, is approximately 600 feet. The drainage ditch, which is the course that runoff would follow, extends along an essentially straight path from the site to Eastmans Brook.

Ref. Nos. 13, 16

16. Identify uses of surface waters within 3 miles downstream of the site (i.e., drinking, irrigation, recreation, commercial, industrial, not used).

There are no known uses of surface waters within 3 miles downstream of the site.

Ref. Nos. 13, 14, 16, 17

17. Describe any wetlands, greater than 5 acres in area, within 2 miles downstream of the site. Include whether it is a freshwater or coastal wetland.

There are no wetland areas within 2 miles downstream of the site. The nearest wetlands are located approximately 2.1 stream miles east of the site.

Ref. No. 16

18. Describe any critical habitats of federally listed endangered species within 2 miles of the site along the migration path.

There are no critical habitats of federally listed endangered species within 2 miles of the site.

Ref. No. 15

19. What is the distance to the nearest sensitive environment along or contiguous to the migration path (if any exist within 2 miles)?

There are no sensitive environments within 2 miles.

Ref. Nos. 15, 16

Troy Meadows 2.1 mi from site

20. Identify the population served or acres of food crops irrigated by surface water intakes within 3 miles downstream of the site and the distance to the intake(s).

There are no known surface water intakes within 3 miles downstream of the site.

Ref. Nos. 9, 13, 17

21. What is the state water quality classification of the water body of concern?

Eastmans Brook is classified as "FW2-NT" (freshwater - nontrout).

Ref. No. 14

22. Describe any apparent biota contamination that is attributable to the site.

There are no known alleged or documented incidents of biota contamination attributable to the site.

Ref. Nos. 3, 13

AIR ROUTE

23. Describe the likelihood of a release of contaminant(s) to the air as follows: observed, alleged, potential, none. Identify the contaminant(s) detected or suspected, and provide a rationale for attributing the contaminant(s) to the facility.

The likelihood of release of contaminants to the air is minimal, as the tanks and drums are reported to be in good condition and properly maintained.

Ref. Nos. 1, 3

24. What is the population within a 4-mile radius of the site?

The population within a 4-mile radius of the site is approximately 81,800.

Ref. No. 12

FIRE AND EXPLOSION

25. Describe the potential for a fire or explosion to occur with respect to the hazardous substance(s) known or suspected to be present on site. Identify the hazardous substance(s) and the method of storage or containment associated with each.

There is little potential for a fire or explosion to occur with respect to hazardous substances stored on site. The hazardous wastes of concern include 1,1,1-trichloroethane and waste oil, which are stored in 55-gallon drums in the drum storage area. An inspection in 1985 indicated that the drum storage area was in compliance with all requirements pertaining to preparedness and prevention. The acid wastes contained in the tanks are not ignitable.

Ref. Nos. 3, 11

26. What is the population within a 2-mile radius of the hazardous substance(s) at the facility?

The population within a 2-mile radius of the facility is approximately 18,300.

Ref. No. 12

DIRECT CONTACT/ON-SITE EXPOSURE

27. **Describe the potential for direct contact with hazardous substance(s) stored in any of the waste units on site or deposited in on-site soils. Identify the hazardous substance(s) and the accessibility of the waste unit.**

There is little potential for direct contact with hazardous substances stored in the waste units on site. The waste units are surrounded by a chain link fence, and the drums and tanks are reported to be in good condition.

Ref. Nos. 3, 13

28. **How many residents live on a property whose boundaries encompass any part of an area contaminated by the site?**

There are no known areas of contamination attributable to the site and no residential properties adjacent to the facility.

Ref. Nos. 3, 13

29. **What is the population within a 1-mile radius of the site?**

The population within a 1-mile radius of the site is approximately 2,500.

Ref. No. 12

PART IV: SITE SUMMARY AND RECOMMENDATIONS

Metem Corporation is located in an industrial area approximately one-half mile southeast of Lake Parsippany in Parsippany, Morris County, New Jersey. The size of the property is approximately 4 to 6 acres. The active facility manufactures engine components by chemical and physical machining processes. The chemical process generates approximately 500,000 gallons of waste acids a year. The mechanical process generates waste oil (1,400 gallons annually), and waste 1,1,1-trichloroethane (1,400 gallons annually). The spent acids are stored in four 5,500-gallon aboveground tanks which are recessed 6 feet below grade in a secondary containment system. One tank contains nitric acid at 17 percent concentration by weight, two tanks contain sulfuric acid at 14 percent concentration, and one tank contains a combination of saltwater electrolyte and the previously mentioned sulfuric acid. The waste oil and solvent are stored in 55-gallon drums in the drum storage area.

An inspection conducted by the New Jersey Department of Environmental Protection (DEP) on June 6, 1984 revealed numerous violations on site, including a spill in the drum storage area and a failure to file a Part A permit application. A followup inspection conducted by the DEP on July 11, 1984 found that all waste oil and solvent drums in the hazardous waste storage area had been removed. Contaminated soils had been dug up and manifested to another company for disposal off site. According to the inspector, the yard had been cleaned up and no spills remained. On January 2, 1985, Metem Corporation and the DEP entered into an Administrative Consent Order which allowed Metem to continue operations while it continued to correct violations and improve its waste handling procedures. An inspection report dated April 22, 1985 indicated that all violations concerning the waste units had been corrected, with the exception of a small deficiency in the contingency plan. On September 15, 1988, the DEP visited the site to determine whether Metem could be considered for exemption as a "90-day" generator. The waste storage areas were found to be "clean and free from contamination" and, after making some minor modifications, Metem Corporation was approved for exemption under N.J.A.C. 7:26-9.3(b), accumulation of hazardous waste for 90 days or less in aboveground tanks, on December 21, 1988. There are no known enforcement actions pending against Metem Corporation.

A **MEDIUM PRIORITY** for further action is recommended for this site. Although the spill discovered in the June 6, 1984 inspection was reported to have been cleaned up, no quantitative evidence, i.e., laboratory analysis of soil or water samples, has been found to verify successful remediation. It is recommended that sampling of on-site soils and any wells on the property be conducted to determine whether remediation was complete.

ATTACHMENT 1

METEM CORPORATION
PARSIPPANY, NEW JERSEY

Contents

Figure 1: Site Location Map
Figure 2: Site Map
Exhibit A: Photograph Log

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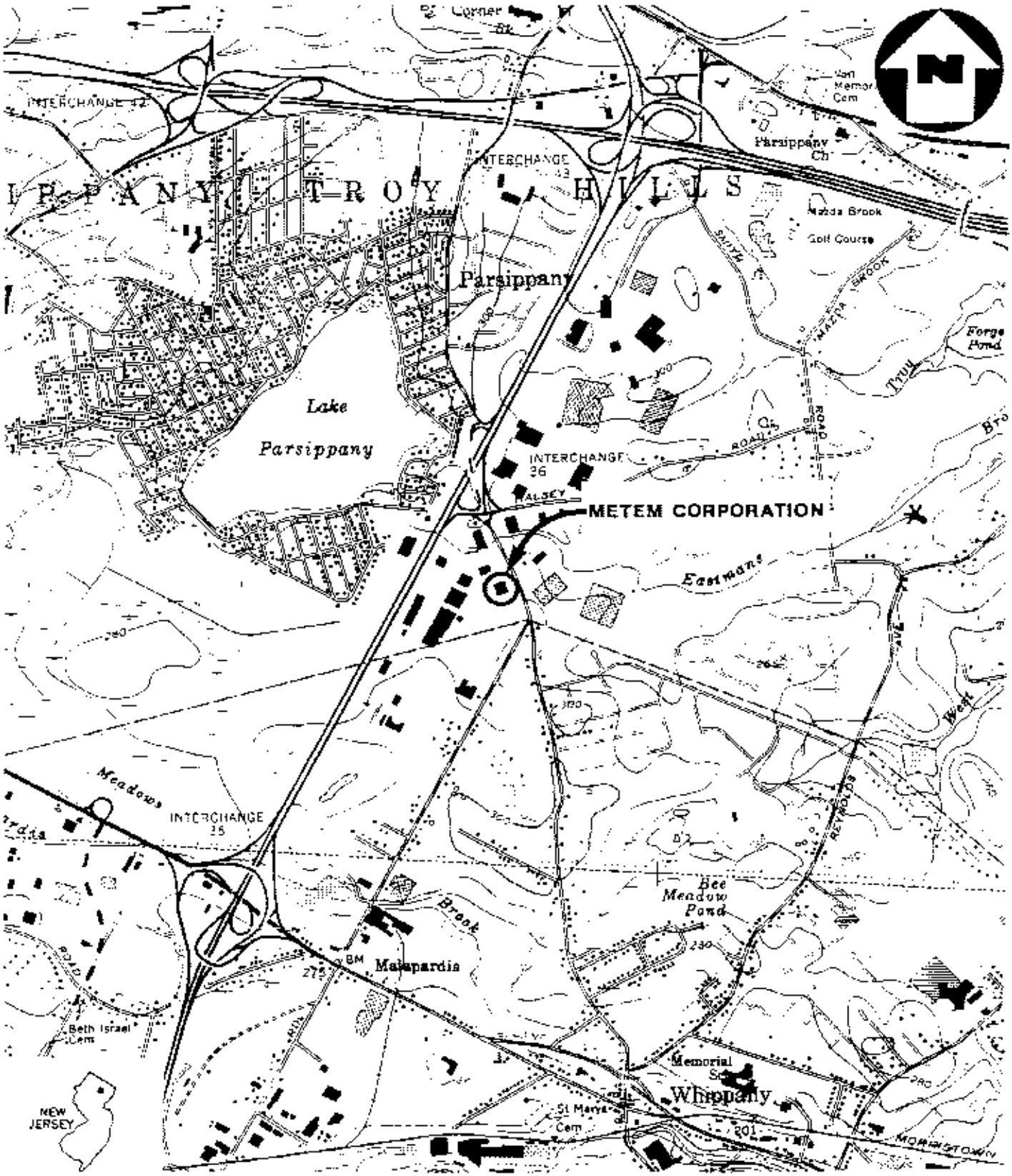

(QUAD) MORRISTOWN, N.J.

FIGURE 1

SITE LOCATION MAP

METEM CORPORATION, PARSIPPANY, N.J.

SCALE: 1" = 2000'

NUS CORPORATION

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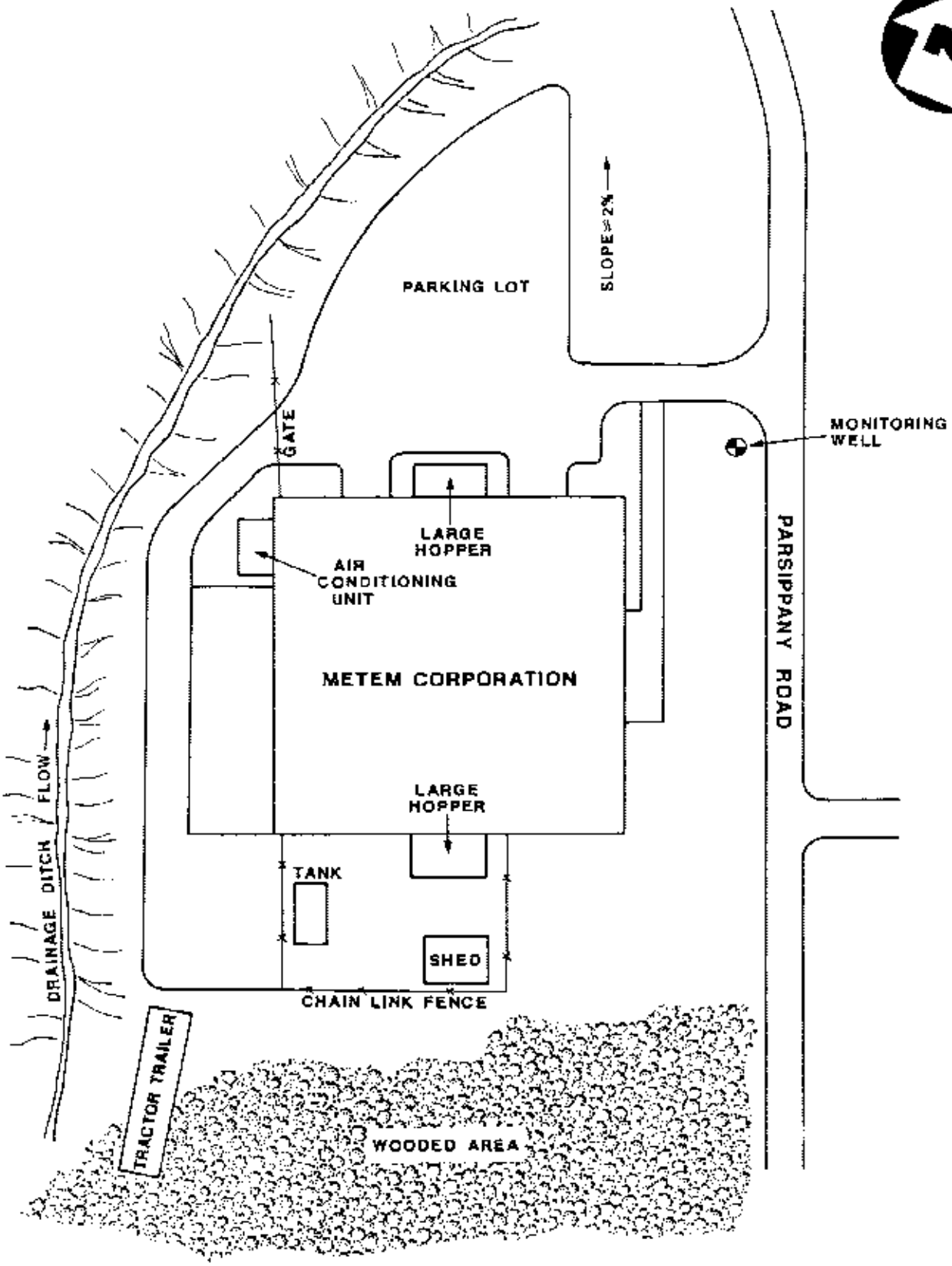

FIGURE 2

SITE MAP

METEM CORPORATION, PARSIPPANY, N.J.

(NOT TO SCALE)

NUS CORPORATION

EXHIBIT A

PHOTOGRAPH LOG

METEM CORPORATION
PARSIPPANY, NEW JERSEY
OFF-SITE RECONNAISSANCE: APRIL 4, 1989

METEM CORPORATION
PARSIPPANY, NEW JERSEY
APRIL 4, 1989

PHOTOGRAPH INDEX

Photo Number	Description	Time
1P-7	Looking at south side of building, showing fenced-in shed and tank.	1048
1P-8	Looking at north side of building and parking lot.	1056
1P-9	Looking at west side of building showing back of facility.	1107

ALL PHOTOGRAPHS TAKEN BY PAUL BAUER.

METEM CORPORATION
PARSIPPANY, NEW JERSEY

1P-7 April 4, 1989 1048
Looking at south side of building showing fenced-in shed and tank.

1P-8 April 4, 1989 1056
Looking at north side of building and parking lot.

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METEM CORPORATION
PARSIPPANY, NEW JERSEY

IP-9 April 4, 1989 1107
Looking at west side of building showing back of facility.

ATTACHMENT 2

REFERENCES

1. New Jersey Department of Environmental Protection Inspection Form, prepared by Bob Dante, Inspector, June 6, 1984.

2. Administrative Consent Order entered into by the New Jersey Department of Environmental Protection, and Metem Corporation, Parsippany, New Jersey, January 2, 1985.

3. New Jersey State Department of Environmental Protection Inspection Report, Prepared by Yacoub Emile Yacoub, Inspector, April 22, 1985.

4. Letter from Tony K. Martin, Plant Engineer, Metem Corporation, Parsippany, New Jersey, to Frank Coolick, Chief, Bureau of Hazardous Waste Engineering, New Jersey Department of Environmental Protection, March 31, 1986.

5. Letter from Ernest J. Kuhlwein, Jr., Chief, Bureau of Hazardous Waste Engineering, New Jersey Department of Environmental Protection, to Scott Goldthwaite, Project Engineer, Metem Corporation, Parsippany, New Jersey, September 26, 1988.

6. Letter from Scott Goldthwaite, Project Engineer, Metem Corporation, Parsippany, New Jersey, to Ernest J. Kuhlwein, Chief, Bureau of Hazardous Waste Engineering, New Jersey Department of Environmental Protection, October 25, 1988.

7. Letter from Ernest J. Kuhlwein, Chief, Bureau of Hazardous Waste Engineering, New Jersey Department of Environmental Protection, to Scott Goldthwaite, Project Engineer, Metem Corporation, Parsippany, New Jersey, December 21, 1988.

8. Selected Information of Wells in the Ground Water Site Inventory Data Base, Morris County, U.S. Geological Survey, January 13, 1986.

9. The Buried Valley Aquifer Systems: Resources and Contamination, Passaic River Coalition, 1986.

10. Federal Register Vol. 45, No. 91, Aquifers Underlying Western Essex and Southeastern Morris Counties, New Jersey; Determination, May 8, 1980.

11. Uncontrolled hazardous waste site ranking system, A user's manual, 40 CFR, Part 300, Appendix A, 1986.

12. General Sciences Corporation, Graphical Exposure Modeling System (GEMS). Landover, Maryland, 1986.

13. Off-Site Reconnaissance Information Reporting Form, Metem Corporation, TDD No. 02-8903-09, NUS Corporation Region 2 FIT, Edison, New Jersey, April 4, 1989.

14. Surface Water Quality Standards, N.J.A.C. 7:9-4, Index D - Surface Water Classifications of Passaic, Hackensack and New York Harbor Complex Basin. New Jersey Department of Environmental Protection, Division of Water Resources, July 1985.

15. Atlantic Coast Ecological Inventory, Newark, U.S. Fish and Wildlife Service, 1980.

16. Three-Mile Vicinity Map, based on U.S. Department of the Interior, U.S. Geological Survey Topographic Maps, 7.5 Minute Series: "Morristown Quadrangle, New Jersey", 1954, Photorevised 1981; "Caldwell Quadrangle, New Jersey," 1954, Photorevised 1981; "Roselle Quadrangle, New Jersey", 1954, Photorevised 1981; "Chatham Quadrangle, New Jersey", 1954, Photorevised 1981.

REFERENCES (CONT'D)

17. Telecon Note: Conversation between Raymond Zabihach, Morris County Open Space Commission, New Jersey, and Paul Bauer, NUS Corporation Region 2 FIT, Edison, New Jersey, April 11, 1989.

REFERENCE NO. 1

FACILITY NAME: Metkm Corp.

ADDRESS: 700 Parsippany Rd.
Parsippany N.J.

TIME IN: 10:00

COUNTY: Morris

TIME OUT: 13:00

EPA ID #: NJD002138244

DATE OF INSPECTION: 6/6/84

PHOTOS TAKEN /__/ YES /X/ NO

If yes, how many?_____

SAMPLES TAKEN /__/ YES /X/ NO NUMBER OF SAMPLES _____

NJDEP ID #_____

MANIFESTS REVIEWED /X/ YES /__/ NO

Number of manifests in compliance 64

Number of manifests not in compliance 0

List manifest document numbers of those manifests not in compliance.

GENERATOR INSPECTION CHECKLIST

		YES	NO	N/A
7:25-8.5	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?	✓		
	Is the waste hazardous?	✓		
	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	✓		
	Has hazardous waste been shipped off site since November 19, 1980?	✓		
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain. 64 since 1981, type size and amount varies			
7:26-7.4(a)1	Does the generator have an EPA ID #?	✓		
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	✓		
7:26-7.4(a)4i	The generator's name, address and phone number?	✓		
7:26-7.4(a)4ii	The generator's EPA ID number?	✓		
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	✓		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	✓		
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?	✓		
7:26-7.4(a)4vi	The TSDF's EPA ID number?	✓		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	✓		

		YES	NO	N/A
7:26-7.4(a)4viii	Special handling instructions and any other information required on the form to be shipped by the generator?	✓		
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:			
7:26-7.4(a)5i	Sign the manifest certification by hand?	✓		
7:26-7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	✓		
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?	✓		
7:26-7.4(a)5iv	Give remaining copies of the manifest form to the transporter?	✓		
7:26-7.4(f)1	Has the generator maintained facility records since November 19, 1980? (Manifest(s), exception report(s) and waste analysis)	✓		
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	✓		
7:26-7.4(h)2	If not,			
	1. Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and			✓
	2. Have exception reports been submitted to the Department covering any of these shipments made more than 45 days ago?			✓
	Before transporting or offering hazardous waste for transportation off site, does the generator?			
7:26-7.2(a)	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?	✓		
7:26-7.2(b)	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?	✓		

		YES	NO	N/A
7:26-9.3	Accumulation time			
	How is waste accumulated on site?			
	[X] Containers			
	[X] Tanks (complete HWMF checklist)			
	[ ] Aboveground [ ] Below ground			
	[ ] Surface impoundments (complete HWMF checklist			
	[ ] Piles (complete HWMF checklist)			
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?		✓	
	Is waste accumulated for more than 90 days?		✓	
	If yes, complete HWMF checklist.			

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

SHORT TERM ACCUMULATION STANDARDS (FOR GENERATORS WHO ACCUMULATE WASTE IN CONTAINERS FOR 90 DAYS OR LESS)

		YES	NO	N/A
7:26-9.4	Containers			
	What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty five gallon drums of waste acetone). Trichloroethane - 40, fifty-five gallon steel drums waste oil sludge - 22, fifty-five gallon steel drum			
7:26-9.4(d)3	Do the containers appear to be in good condition, not in danger of leaking?		✓	
	If no, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
7:26-9.4(d)4i	Are all containers securely closed except those in use?	✓		
7:26-9.4(d)4iii	Do containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	✓		
7:26-9.4(d)4iv	Are containerized hazardous waste segregated in storage by waste type?	✓		
7:26-9.4(d)4v	Is every container arranged so that its identification label is visible?		✓	
7:26-9.4(d)5	Is the storage area inspected at least daily?	✓		
7:26-9.4(d)6	Are containers holding ignitible and reactive wastes located at least 50 feet (15 meters) from the facility's property line?	✓		
7:26-11.2	Tanks			
	What are the approximate number and size of tanks containing hazardous waste?	✓		
	Identify the waste treated/stored in each tank. 1. sulfuric and Nitric acid containing chromium			

		YES	NO	N/A
	General Operating Requirements			
7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?	✓		
	If no, please explain.			
	Are there leaking tanks?		✓	
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger of ruptures, corrosion, leaks or other failures?	✓		
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freebo d or an adequate containment structure?	✓		
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?		✓	
7:26-11.2(c)	Inspections			
	Is the tank(s) inspected each operating day for:			
	1. Discharge control equipment	✓		
	2. Monitoring equipment	✓		
	3. Level of waste in tank	✓		
	4. Construction of materials of the tank	✓		
	5. Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures?	✓		
	Are there underground tanks?		✓	
	If yes, how many and can they be entered for inspection?			✓
7?26-11.2(e)	Are ignitible or reactive wastes stored in a manner which protects them from a source of ignition or reaction?	✓		
	If no, please explain.			

		YES	NO	N/A
7:26-11.2(f)	Does it appear that incompatible wastes are being stored separate from each other?	✓		
7:26-9.4(g)	Personnel training			
	Have facility personnel successfully completed a program of classroom instruction or on-the-job training within 6 months of having been employed?	✓		
7:26-9.4(g)2	Is the program directed by a person trained in hazardous waste management procedures and does it include instruction which teaches facility personnel hazardous waste management procedures (including contingency plan implementation) relevant to the positions in which they are employed?	✓		
7:26-9.4(g)5	If yes, have facility personnel taken part in an annual review of training?	✓		
	Is there written documentation of the following:		✓	
7:26-9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job?		✓	
7:26-9.4(g)6ii	A written job description for each position related to hazardous waste management?		✓	
7:26-9.4(g)6iii	A written description of the type and amount of both introductory and continuing training given to personnel in jobs related to hazardous waste management?		✓	
7:26-9.4(g)6iv	Documentation of actual training or experience received by personnel?		✓	
7:26-9.4(g)7	Are training records kept on all employees for at least 3 years?		✓	
7:26-9.4(g)8	Are semi-annual drills conducted involving all employees and appropriate local authorities to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development pursuant to NJAC 7:26-9.7?		✓	
7:26-9.6	Preparedness and prevention			
	Does the facility comply with preparedness and prevention requirements including maintaining:			

		YES	NO	N/A
7:26-9.6(b)1	An internal communications or alarm system?	✓		
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	✓		
7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?	✓		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	✓		
7:26-9.6(c)	Is equipment tested and maintained?	✓		
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazardous waste?	✓		
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?		✓	

If no, please explain. Drums stored next to each other and all drums could not be inspected

	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	✓		

Explain. The wastes on site would require all of the above equipment.

7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site:	✓		
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	✓		
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?			✓

		YES	NO	N/A
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	✓		
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	✓		
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?	✓		
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?		✓	
7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?		✓	
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility? Not Written	✓	✓	
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq.?			✓
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?			✓
7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?	✓		

		YES	NO	N/A
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.		✓	
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?		✓	
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evaucation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evaucation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	✓	✓	
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and		✓	
	2. Has the contingency plan been submitted to local authorities (police fire departments, emergency response teams)?		✓	

Summary of Findings

Facility Description and Operations

The facility manufactures Jet engine components, such as machined parts for the frame. The components are machined in a electrical chemical process were holes are bored in the parts [redacted] by placing them in strong acid baths. The spent baths are placed in two holding tanks where they are manifested off site every two weeks. The facility also has a regular machining operation which generates waste lubricating oil. Solvents are generated from two vapor degreasers.

Many Environmental violations were noted on site. A drum labeled Hazardous was was observed leaking on the ground in the storage area this drum appeared to hold waste oil. The other drums in the storage area were not labeled and dated. The ground in the storage area was covered with oil and [redacted] trichloroethane. Mr. Newton was told to repack [redacted] the oil drum today and absorb the spill with speedy dry. Mr. Newton was told that he [redacted] must have the soil in the waste storage area excavated because it is contaminated.

Describe the activities that result in the generation of hazardous waste.

1. waste generated from vapor degreaser. Two degreasers are on site.
2, 3. wastes are generated from electrochemical machining operations
4. waste oil generated from electrical components after lubrication.

Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)

1. Trichloroethane - 40, fifty-five gallon steel drums - F001
2. Sulfuric Acid spent - 4,000 gallons stored in an above ground storage tank D002.
3. [redacted] Nitric acid waste [redacted] containing chromium - 4,000 gallons stored in an above ground storage tank - D007
4. Oil sludge waste - 22, fifty-five gallon steel drums manifested as D001

CONFIDENTIAL - RECOMMENDATIONS

TO: File

FROM: Bob Dante DATE: 6/13/84

SUBJECT: Metem Corporation

The following violations were observed on site: 7:26 - 9.3(a)3, 5.8:10-23.11, 7:26-9.7(a), 7:26-9.7(g), 7:26-12.1(A), 7:26-9.4(d)3 and 7:26-9.6(e). The facility is operating as an illegal TSD facility by storing waste in tanks. Metem will contact Frank Coolick of engineering to ask for a variance since they handle [redacted] - large amounts of waste water and waste waters are shipped every two weeks.

The outside storage area presents an immediate environmental hazard. I told Mr. Newton that even if a variance was granted for the tanks the drums have been on site longer then 90 days. The housekeeping on the storage area is extremely poor.

6/15/84 Mr. Newton called and stated that the drums have been manifested off site and the soil is in the process of being excavated. He also stated that Frank Coolick told them that they must file a Part A permit application. Mr. Newton stated that he would need a little extra time to prepare the paperwork. I told him that he could have 5 days more for the paperwork.

If Environmental hazards remain after a follow-up inspection a NOP should be issued to the facility.

Follow-up 7/11/84 ..... Metem Inc.

7/11/84

On 7-11-84 I went to Metem Corp to perform a follow up inspection. The facility was cited for spills and hazardous waste storage violations. Paper violations were also noted at the site.

In the hazardous waste storage area all waste oil and solvent drums were removed by SRS. Contaminated soils were dug up and also manifested to SRS. The facility removed 40 fifty-five gallon drums in all using two manifests, on one manifest NJ0081128, 6/15/84, the facility used the wrong Hazardous waste code. The violation was corrected and HWCM was notified of the violation. The yard was cleaned up and no spills remain. Three drums of Grey metal powder remained on site. These drums had liquid on top of the metal powder in them. The liquid appeared to be rain water which had picked up oil from the metal powder. The liquid will be pumped off and treated as Hazardous waste, the metal powder will be sold to Norman Lowenstein of Elizabeth (901 E Grand St. (201) 352-5500) for reclaimation.

Three 55 gallon steel waste oil drums are also being stored in the hazardous waste storage area.

The facility is in the process of filling out the part A application to become a TSDF facility.

Metem is in the process of writing up contingency and personnel [redacted] training plans. The facility has hired an outside consultant to put the RCRA plans together. I inspected the provisional plans contingency and personnel training records and found them to be sufficient.

I informed Mr. Newton that since metem is becoming a TSD facility they will be responsible for other RCRA requirements such as a closure plan and financial responsibility. Mr. Newton stated that this will be handled by the consultant. Mr. Newton stated that all the [redacted] RCRA requirements will be completed by the end of July 1984.

I informed Mr. Newton that if the plans are not completed they will be written up for referral enforcement action and request a penalty or fine be issued against Metem inc.

REFERENCE NO. 2

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

CH MAHWAN M. SADAT, P.E.
DIRECTOR

JAN 2 1985

Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054

Attention: Mr. Daniel R. Kaplan, President

Re: Administrative Consent Order

Dear Mr. Kaplan:

Enclosed please find a signed copy of the referenced Administrative Consent Order. Please note that the date of the Department's signature is the effective date of the Administrative Consent Order.

Should you have any questions about this matter, please contact Barry Frasco of my staff at (609) 292-0967.

Very truly yours,

David J. Shotwell
Chief, Bureau of Compliance
and Enforcement

F010:F021:lmc
Enclosure
c Patrick Nucciarone, Esq.
Jim Bell, BHWE

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
120 Rt. 156, Yardville, N.J. 08620

DR. MARWAN M. SADAT, P.E.
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

(IN THE MATTER OF)	ADMINISTRATIVE
(METEM CORPORATION)	CONSENT ORDER
(PARSIPPANY-TROY HILLS TOWNSHIP)	
(MORRIS COUNTY)	

The following FINDINGS are made and CONSENT ORDER issued and agreed to pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter, "the Department") by N.J.S.A. 13:1D-1 et seq., and the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and duly delegated to the Assistant Director for Enforcement and Field Operations, Division of Waste Management.

FINDINGS

1) Metem Corporation (hereinafter "Metem") is a generator of hazardous waste (EPA ID Number NJD002139244) and an operator of a hazardous waste facility as defined by N.J.A.C. 7:26-1.4 and is located at Block 739, Lot 2, 700 Parsippany Road, Parsippany (Parsippany-Troy Hills Township), Morris County, New Jersey.

2) During an inspection of the referenced facility by a Departmental representative on June 6, 1984, the following violations were noted:

   a. Hazardous waste was stored in containers that were not clearly and visibly marked with the date upon which each period of hazardous waste accumulation began, a violation of N.J.A.C. 7:26-9.3(a)3.

   b. Hazardous waste was stored in some containers that were not in good condition, a violation of N.J.A.C. 7:26-9.4(d)2.

   c. Hazardous waste containers were not arranged so that identification labels were visible, a violation of N.J.A.C. 7:26-9.4(d)4v.

   d. There was no written documentation of hazardous waste management training for facility personnel,

no maintenance of facility personnel training records, and no written documentation of semi-annual drills involving facility personnel and local authorities, a violation of N.J.A.C. 7:26-9.4(g)6,7, and 8.

e. There was inadequate aisle space within the hazardous waste container storage area, a violation of N.J.A.C. 7:26-9.6(e).

f. There was no written contingency plan and emergency procedures at the facility, a violation of N.J.A.C. 7:26-9.7 et seq.

g. Metem was operating a hazardous waste facility (storage of hazardous waste in tanks) without an approved hazardous waste facility permit, a violation of N.J.A.C. 7:26-12.1(a).

3) Based on the above findings, Metem and the Department have agreed to enter into this Administrative Consent Order.

4) Metem Corporation by its consent to the issuance and entry of this Order, does not admit to any violation of law, rule, or regulation.

ORDER

IT IS THEREFORE ORDERED AND AGREED that Metem Corporation, its principals, agents, employees, successors, assigns, tenants, and any receiver or trustee in bankruptcy (should such an entity be appointed to take control of Metem Corporation) shall:

5) Immediately after the effective date of this Order:

a. Cease utilization of hazardous waste containers in poor condition and manage said containers as specified in N.J.A.C. 7:26-9.4(d)2 and submit a statement of compliance to the Department.

b. Label and/or arrange hazardous waste containers so that the requisite labels are visible, and clearly and visibly mark each hazardous waste container with the date of initial accumulation of hazardous waste so as to comply with N.J.A.C. 7:26-9.4(d)4v and 7:26-9.3(a)3 respectively, and submit a statement of compliance to the Department.

c. Provide for sufficient aisle space within the hazardous waste container storage area so as to comply with N.J.A.C. 7:26-9.6(e), and submit a statement of compliance to the Department.

6) Within ninety (90) days of the effective date of this Order:

a. Prepare, maintain, and submit to the Department a written documentation of hazardous waste [illegible] training for facility personnel and written documentation of semi-annual drills involving facility personnel and local authorities so as to comply with N.J.A.C. 7:26-9.4(g)6,7, and 8

b. Prepare, maintain, and submit to the Department a written Contingency and Emergency Procedures Plan so as to comply with N.J.A.C. 7:26-9.7 et seq.

7) Within one hundred and eighty (180) days of the effective date of this Order:

a. Prepare and submit to the Department a Part B hazardous waste facility permit application as outlined in N.J.A.C. 7:26-12.2 et seq.

b. Prepare and submit to the Department a written Alternative Information Statement (Disclosure Statement) as part of the Part B hazardous waste facility permit application as outlined in N.J.A.C. 7:26-12.2(g).

c. Prepare and submit to the Department the financial requirements for facility closure as outlined in N.J.A.C. 7:26-9.10 et seq.

d. Prepare and submit to the Department the liability requirements for sudden and non-sudden accidental occurrences at the facility as outlined in N.J.A.C. 7:26-9.13 et seq.

8) Within fifteen (15) days of the effective date of this Order, Metem shall submit to the Department the sum of $250.00 as settlement of this matter without admitting to any violation of law, rule, or regulation.

9) If, upon Departmental review of the submittals requested in Paragraphs 5, 6 and 7 above, there are deficiencies in said submittals, Metem Corporation shall modify the submittals as necessary and re-submit them to the Department for its approval.

10) All submittals requested in Paragraphs 5, 6a and 6b above shall be sent to:

NJ Department of Environmental Protection
Division of Waste Management
Bureau of Compliance & Enforcement
120 Route 156
Yardville, NJ 08620
Attention: Barry Frasco

11) All submittals requested in paragraphs [illegible] be sent to:

NJ Department of Environmental Protection
Division of Waste Management
Bureau of Hazardous Waste Engineering
32 East Hanover Street
Trenton, NJ 08625
Attention: Mr. Frank Godick

12) Pending approval of all submittals requested in paragraphs 5, 6 and 7 above, Metem Corporation shall be allowed to operate in accordance with its Part A permit application.

13) No obligations imposed by this Order are intended to constitute a debt, damage claim, penalty or other civil action which should be limited or discharged in a bankruptcy proceeding. All obligations imposed by this Order shall constitute continuing, regulatory obligations imposed pursuant to the police powers of the State of New Jersey, intended to protect the public health, safety and welfare.

14) Metem Corporation hereby agrees to comply fully with all the provisions of this Administrative Consent Order unless those provisions, rules and regulations, or the statutory authority pursuant to which they were promulgated, are waived, exempted or modified either by subsequent action of the New Jersey Department of Environmental Protection or as a result of a judicial proceeding, and with all rules and regulations promulgated pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq.

RESERVATION OF RIGHTS

This Administrative Consent Order shall be fully enforceable in the New Jersey Superior Court upon the filing of a summary action for compliance pursuant to the Solid Waste Management Act, N.J.S.A. 13:1E-1 et seq., and may be enforced in the same manner as an Administrative Order issued pursuant to this same statutory authority. This Administrative Consent Order shall not preclude the Department from taking whatever action it deems appropriate to enforce the environmental laws of the State of New Jersey in any manner not inconsistent with the terms of this Administrative Consent Order. Nothing in this Administrative Consent Order shall constitute a waiver of any statutory right of the Department pertaining to any laws of the State of New Jersey, should the Department determine that additional remedial actions are necessary to protect the public health, safety or welfare.

Petrom Corporation
Administrative Consent Order
Page 4

Petrom Corporation hereby consents to and agrees to comply with the terms and provisions of this Administrative Consent Order and waives its right to any hearing on the entry of this Administrative Consent Order or the terms herein.

Date: [illegible]

PETROM CORPORATION
By: [illegible]
Name: [illegible]
Title: President

Date: [illegible]

DEPARTMENT OF ENVIRONMENTAL PROTECTION
By: [illegible]
Joseph A. Ropelaki
Assistant Director
Field Operations
Compliance & Enforcement

F01:F021:lmc

REFERENCE NO. 3

14.29-1

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT

INSPECTION REPORT

REPORT PREPARED FOR:

- [x] Generator
- [ ] Transporter
- [ ] HWM (TSD) Facility

FACILITY INFORMATION

Name: METEM CORP.

Address: 700 PARSIPPANY Rd.
PARSIPPANY N.J. 07054

Lot: 2 Block: 739

County: MORRIS

Phone: (201) 887-6635

EPA ID#: NJD002139244

Date of Inspection: 4-22-85

PARTICIPATING PERSONNEL

State or EPA Personnel: Y. YACOUB (D.E.P.)
B. CZACHOR (D.E.P.)

Facility Personnel: Mr. T. Newton (V.P. Engineering)
Mr. T. MARTIN (Plant Engineer).

Report Prepared by Name: YACOUB EMILE YACOUB

Region: NORTHERN

Telephone #: (201) 299-7577

Reviewed by: [illegible]

Date of Review: 4-30-85

FACILITY NAME: METEM Corp.

ADDRESS: 700 Parsippany Rd.
Parsippany N.J. 07054

TIME IN: 1055

COUNTY: Morris

TIME OUT: 1240

EPA ID : NJD 002139244

DATE OF INSPECTION: 4-22-85

PHOTOS TAKEN ☐ YES ☒ NO

If yes, how many? _____

SAMPLE TAKEN ☐ YES ☒ NO NO. OF SAMPLES _____

NJDEP ID # _____

MANIFESTS REVIEWED ☑ YES ☐ NO

Number of manifests in compliance 54

Number of manifests not in compliance none

List manifest document numbers of those manifests not in compliance.

NFIDENTIAL – RECOMMENDATIO

TO: D. Dawson

FROM: Y. YACOB – B. CZACHOR DATE: 4-22-85

SUBJECT: Metcm Corporation

1- As a result of our RCRA inspection on 4-22-85 only one Field violation was issued NJAC 7:26 9.7(g) because of the Contengency plan does not include a physical description of each item on the list, and Brief out line of it is capabilities. Mr. Tony Martin Told us that he will Correct as soon as possible the deficiency in the Contengency plan.

2- Mr. Newton Vice President (Technology) of Metcm Corporation showed us a letter from Dr. Sadat To the Company Dated 12-19-84 (Copy of ~~the~~ letter attached to this Report) Denying the Request of the company of getting exemption from TSD Facility Classification (3 storage Tank - 4000 Gal below ground holding Spent acids. ~~Hand~~ Also Dr. Sadat advised the enforcement staff of Waste Management of the situation and they should place the setting of any time table for complete of part B application on hold until the regulation Finalized, Dr. Sadat Mentioned also the enforcement staff should exercise enforcement discretion and not hold any further action until the rules are adopted

SUMMARY OF FINDINGS

FACILITY DESCRIPTION AND OPERATIONS

The Facility Manufactures Jet engine Components, such as Machined parts for the Frames. The Components are Machined and processed in Electro Chemical process where strong acid (Sulfic, Nitric, Salts) were used. The spent acids were place in 3 holding Tanks. The Facility also has a Regular machining operation which generates waste oils also halogenated Solvents were generated from two vapor degreasers.

MeTeM Corp. Ships its Hazardous waste to Waste Conversion Inc., 2869 Sandston Dr., Hatfield, PA. 10440.

Describe the activities that result in the generation of hazardous waste.

1- Electrolyte process generate (spent sulfuric acid, spent nitric acid, CHLORIDE NITRATE).

2- Waste oil generating from components after lubrication.

3- Waste solvents generated from Degreasing.

Identify the hazardous waste located on site, and estimate the approximate quantities of each. (Identify Waste Codes)

1- TRICHLOROethane 1,1,1 13-55 gal Metal Drums F001 13-55 gal Drums

2- Heavy Metal in sulfuric acid electrolyte stored in 4000 gal Capacity Tank above ground D002, D007. (1500 gal/Day).

3- Heavy Metals in NITRIC acid electrolyte stored in 4000 gal Capacity Tanks above ground D007, D008 (200 gal/Day)

4- Waste oil 13 55 gal Drums

GENERATOR INSPECTION CHECKLIST

		YES	NO	N/A
7:26-8.5	Hazardous waste determination			
	(a) Did the generator test its waste to determine whether it is hazardous?	✓		
	Is the waste hazardous?	✓		
7:26-8.5(b)2	Is the generator determining that its waste exhibits a hazardous waste characteristic(s) based on its knowledge of the material(s) or processes used?	✓		
	Has hazardous waste been shipped off site since November 19, 1980?	✓		
	If yes, how many shipments, off site, have been made and describe the approximate size of an average shipment made on a monthly basis. If facility is a small quantity generator, please explain.	4 shipments each 5500 gal of sulfi[illegible] 22 shipments each month 4500 gal of [illegible] 12 shipments each month 4500 gal of chloride		
7:26-7.4(a)1	Does the generator have an EPA ID #?	✓		
7:26-7.4(a)4	Does each manifest have the following information? Please circle the elements missing and obtain a copy of the incomplete manifests. (List those manifests that are deficient)	✓		
7:26-7.4(a)4i	The generator's name, address and phone number?	✓		
7:26-7.4(a)4ii	The generator's EPA ID number?	✓		
7:26-7.4(a)4iii	The transporter(s) name, address and phone number?	✓		
7:26-7.4(a)4iv	The transporter(s) EPA ID number?	✓		
7:26-7.4(a)4v	The name, address and phone number of the designated TSD facility?	✓		
7:26-7.4(a)4vi	The TSDF's EPA ID number?	✓		
7:26-7.4(a)4vii	The name, type and quantity of hazardous waste being shipped, including such particulars as may be required regarding same?	✓		

		YES	NO	N/A
7:26-7.4(a)4viii	Special handling instructions and any other information required on the form to be shipped by the generator?	✓		
7:26-7.4(a)5	Before allowing the manifested waste to leave the generator's property, did the generator:			
7:26-7.4(a)5i	Sign the manifest certification by hand?	✓		
7:26-7.4(a)5ii	Obtain the handwritten signature of the initial transporter and date of acceptance on the manifest?	✓		
7:26-7.4(a)5iii	Retain one copy and forward one copy to the state of origin and one copy to the state of destination?	✓		
7:26-7.4(a)5iv	Give remaining copies of the manifest form to the transporter?	✓		
7:26-7.4(f)1	Has the generator maintained facility records for three (3) years? (Manifest(s), exception report(s) and waste analysis)	✓		
7:26-7.4(h)1	Has the generator received signed copies of portion B (from the TSD facility) of all manifests for waste shipped off site more than 35 days ago?	✓		
7:26-7.4(h)2	If not:			
	1. Did the generator contact the hauler and/or the owner or operator of the TSDF and the NJDEP at 609-292-9877 to inform the NJDEP of the situation, and			✓
	2. Have exception reports been submitted to the Department covering any of these shipments made more than 45 days ago?			✓
	Before transporting or offering hazardous waste for transportation off site, does the generator?			
7:26-7.2(a)	Conspicuously lable appropriate manifest numbers on all hazardous waste containers that are intended for shipment?	✓		
7:26-7.2(b)	Insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations (i.e., 49 CFR 171 - 49 CFR 179)?	✓		

		YES	NO	N/A
7:26-9.3	Accumulation time			
	How is waste accumulated on site?			
	☒ Containers			
	☒ Tanks (complete HWMF checklist)			
	☒ Aboveground ☐ Below ground			
	☐ Surface impoundments (complete HWMF checklist			
	☐ Piles (complete HWMF checklist)			
7:26-9.3(a)3	Is each container clearly dated with each period of accumulation so as to be visible for inspection?	✓		
7:26-9.3(a)1	Is waste accumulated for more than 90 days?		✓	
	If yes, complete HWMF checklist.			

STOP HERE IF THE HAZARDOUS WASTE MANAGEMENT FACILITY (TSD) CHECKLIST IS FILLED OUT.

SHORT TERM ACCUMULATION STANDARDS (FOR GENERATORS WHO ACCUMULATE WASTE IN CONTAINER FOR 90 DAYS OR LESS)

		YES	NO	N/A
7:26-9.4	Containers			
	What type of containers are used for storage. Describe the size, type and quantity and nature of waste (e.g., 12 fifty five gallon drums of waste acetone). 13 X 55 gal waste oil 13 X 55 gal Trichloroethane			
7:26-9.4(d)1i	Do the containers appear to be in good condition, not in danger of leaking?	✓		
	If no, please describe the type, condition and number of leaking or corroded containers. Be detailed and specific.			
7:26-9.4(d)4i	Are all containers securely closed except those in use?	✓		
7:26-9.4(d)4iii	Do containers appear to be properly handled or stored in a manner which will minimize the risk of the container rupturing or leaking?	✓		
7:26-9.4(d)4iv	Are containerized hazardous waste segregated in storage by waste type?	✓		
7:26-9.4(d)4v	Is every container arranged so that its identification label is visible?	✓		
7:26-9.4(d)5	Is the storage area inspected at least daily?	✓		
7:26-9.4(d)6	Are containers holding ignitible and reactive wastes located at least 50 feet (15 meters) from the facility's property line?	✓		
7:26-11.2	Tanks			
7:26-12.1(a)	Does the generator store hazardous waste in tanks?	✓		
	If yes, what are the approximate number and size of tanks containing hazardous waste? 3 X 4000 gl			
	Identify the waste ~~treated~~/stored in each tank. 1 - Spent sulfuric + heavy metal 1 - spent nitric + heavy metal 1 - spent silt			

		YES	NO	N/A
	General Operating Requirements			
7:26-11.2(a)2	Are the tanks maintained so that there is no evidence of past, present, or risk of future leaks?	✓		
	If no, please explain.			
	Are there leaking tanks?		✓	
7:26-11.2(a)2	Are all hazardous wastes or treatment reagents being placed in tanks compatible with the tank material so that there is no danger or ruptures, corrosion, leaks or other failures?	✓		
7:26-11.2(3)	Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?			✓
7:26-11.2(a)4	If waste is continuously fed into a tank, is the tank equipped with a means to stop the inflow from the tank, e.g., bypass system to a standby tank?	✓		
7:26-11.2(d)	Inspections			
	Is the tank(s) inspected each operating day for:			
	1. Discharge control equipment	✓		
	2. Monitoring equipment	✓		
	3. Level of waste in tank	✓		
	4. Construction of materials of the tank	✓		
	5. Are the tanks and surrounding areas (e.g., dike) inspected weekly for leaks, corrosion or other failures?	✓		
7:26-9.2(b)	Are there underground tanks used to store hazardous waste?		✓	
	If yes, how many and can they be entered for inspection?			✓
7:26-11.2(e)	Are ignitible or reactive wastes stored in a manner which protects them from a source of ignition or reaction?			✓
	If no, please explain.			

		YES	NO	N/A
7:26-9.6	Preparedness and prevention			
	Does the facility comply with preparedness and prevention requirements including maintaining:			

		YES	NO	N/A
7:26-9.6(b)1	An internal communications or alarm system?	✓		
7:26-9.6(b)2	A telephone or other device to summon emergency assistance from local authorities?	✓		
7:26-9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment?	✓		
7:26-9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray systems?	✓		
7:26-9.6(c)	Is equipment tested and maintained?	✓		
7:26-9.6(d)1	Is there immediate access to communications or alarm systems during handling of hazardous waste?	✓		
7:26-9.6(e)	Adequate aisle space to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment?	✓		
	If no, please explain.			
	In your opinion, do the types of waste on site require all of the above procedures, or are some not required?	✓		
	Explain.			
7:26-9.6(f)	Has the facility made the following arrangements, as appropriate for the type of waste handled on site:	✓		
7:26-9.6(f)1	Familiarize police, fire departments and emergency response teams with the layout of the facility and hazardous waste handled?	✓		
7:26-9.6(f)2	Where more than one police and fire department might respond to an emergency, is there an agreement designating primary emergency authority to a specific police or fire department, and agreements with any others to provide support to the primary emergency authority?			✓

		YES	NO	N/A
7:26-9.6(f)3	Agreements with emergency response contractors, and equipment suppliers?	✓		
7:26-9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illnesses which could result from fires, explosions, or discharges at the facility?	✓		
7:26-9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually?	✓		
7:26-9.7	Contingency plan and emergency procedures			
7:26-9.7(a)	Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosions, hazards to human health or environment, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil or surface water?	✓		
7:26-9.7(b)	Are provisions of the plan carried out immediately whenever there is a fire, explosion, or release of hazardous waste or hazardous waste constituents which could threaten human health or the environment?	✓		
7:26-9.7(c)	Does the contingency plan describe the actions facility personnel shall take in response to fires, explosions, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water at the facility?	✓		
7:26-9.7(d)	Did the owner or operator prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 151 or a Discharge Prevention, Containment and Countermeasure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 *et seq*.?	✓		
	If yes, did the owner or operator amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section?	✓		
7:26-9.7(e)	Does the plan describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services?	✓		

		YES	NO	N/A
7:26-9.7(f)	Does the plan list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and others shall be listed in the order in which they will assume responsibility as alternates.	✓		
7:26-9.7(g)	Does the plan include a list of all emergency equipment at the facility (such as fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external), and decontamination equipment), where this equipment is required? Is the list kept up-to-date? In addition, does the plan include the location and a physical description of each item on the list, and a brief outline of its capabilities?		✓	
7:26-9.7(h)	Does the plan include an evacuation procedure for facility personnel where there is a possibility that evaucation could be necessary? Does this plan describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evaucation routes (in cases where the primary routes could be blocked by releases of hazardous waste or fires)?	✓		
7:26-9.7(i)	Is a copy of the contingency plan and all revisions to the plan:			
	1. Maintained at the facility; and	✓		
	2. Has the contingency plan been submitted to local authorities (police fire departments, emergency response teams)?	✓		

REFERENCE NO. 4

METEM CORPORATION
700 PARSIPPANY ROAD · PARSIPPANY, N.J. 07054
PHONE 201/887-6635
TWX 710-986-8201

March 31, 1986

Mr. Frank Cuulick
Bureau Chief of
Hazardous Waste Engineering
8 E. Hanover Street
Trenton, N.J. 08625

Dear Mr. Cuulick:

In December of 1984 we requested an exemption from TSD facility classification.

In a return letter from Dr. Sadat, we were informed that a new regulation was to be promulgated exempting companies using tank storage that turned over in 90 days.

It is my understanding that this new regulation was promulgated in December of 1985.

If this is true, I would like to request the necessary request forms and a copy of N.J.A.C. 7.26. If there is anything else I will need to have Metem Corporation delisted as a T.S.D.F. please send all information to my attention.

I would like to thank you and your staff for all your help in the past and look forward to hearing from you.

If you need to contact me you can do so at (201) 887-6635.

Very truly yours,

Tony K. Martin
Plant Engineer

CC: encl.

G. Smith
T. Newton

REFERENCE NO. 5

NFD

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

SEP 26 1988

Scott Goldthwaite, Project Engineer
METEM Corporation
700 Parsippany Road
Parsippany, NJ 07054

Dear Mr. Goldthwaite:

RE: Regulatory Status of METEM Corporation, Parsippany, EPA ID NO. NJD 002 139 244

The Bureau of Hazardous Waste Engineering (the Bureau) has reviewed its files on the referenced facility along with the report of a site visit conducted by Bureau representatives on September 15, 1988. The purpose of this site visit was to determine if METEM could be considered for exemption under N.J.A.C. 7:26-9.3, Accumulation of Hazardous Waste for 90 days or less.

In summary, METEM filed a Part A with the Bureau on July 31, 1984 subsequent to the June 6, 1984 RCRA inspection by the Bureau of Compliance and Enforcement (BCE). Since the company did not qualify as an existing facility, the Bureau could not authorize the treatment, storage, or disposal (TSD) activities and thus referred the matter back to BCE. METEM requested exemption from TSD status on November 7, 1984 was told in a letter dated December 19, 1984 that the axemption could not be granted until new "90 day" generator regulations were promulgated. METEM entered into an ACO with the Division of Waste Management on January 2, 1985. On March 31, 1986 METEM requested guidance on the newly adopted regulations. The Bureau provided all of the necessary information on April 24, 1986 and requested that METEM submit a formal delisting request; to date no correspondence has been received.

The September 15, 1988 site visit revealed that METEM generates waste 1,1,1 Trichloroethane (1400 gallons annually), waste oil (1400 gallons annually), and waste acids (500,000 gallons annually). Records and manifest checks confirmed that accumulation of hazardous waste does not exceed 90 days for either drum or tank storage areas. Inspection of storage areas revealed that all hazardous wastes are being properly stored with only minor modifications needed to comply with "90 day" generator requirements. Hazardous waste storage areas were found to be clean and free from contamination.

SEP 26 1988

The Bureau has determined that METEM may be considered for exemption from TSD requirements based on review of the aforementioned file and report. The following modifications to METEM's hazardous waste storage practices must be made before exemption under N.J.A.C. 7:26-9.3 can be accomplished:

1) Containers must be marked with the words "Hazardous Waste" and labeled in accordance with 49 CFR 172.304;

2) Tanks shall have sufficient shell thickness to ensure that the tank will not collapse or rupture;

3) Tanks shall be equipped with controls to prevent overfilling;

4) Tanks shall be designed so that at least 99 percent of their volume can be readily emptied by direct pumping or drainage;

5) Tanks below grade shall be constructed to allow visual inspection of the tank, comparable to a totally above-ground tank, and to provide secondary containment for the below grade portion;

6) Tanks shall be marked with the words "Hazardous Waste";

In addition, METEM shall comply with all requirements of N.J.A.C. 7:26-9.4(g) concerning personnel training and N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, and emergency procedures.

Within thirty (30) days, METEM shall submit a written request for delisting along with all supporting documentation to prove compliance with N.J.A.C. 7:26-9.3; including design drawings for tanks and containment areas, contingency plans, preparedness and prevention plans, and personnel training documentation. This information will allow the Bureau to determine if METEM can be delisted to "90 day" generator status.

If there are any questions, please feel free to contact Scot J. Frow of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr.

Ernest J. Kuhlwein, Jr., Chief
Bureau of Hazardous Waste Engineering

EP48/slw

c: J. Mirabella, BNE
Barry Tornick, USEPA

DOCUMENT: METEM
FOLDER: SLWMCB

REFERENCE NO. 6

METEM

Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054
(201) 887-6635
TWX (710) 986 8201

TS-88-22

October 25, 1988

Department of Environmental Protection
Division of Hazardous Waste Management
401 East State Street
CN 028
Trenton, New Jersey 08625-0028
Att: Ernest J. Kuhlwein Jr., Chief
Bureau of Hazardous Waste Engineering
re: Letter dated September 26, 1988

Dear Mr. Kuhlwein,

I am requesting that Metem Corporation be delisted from a TSDF to a "90 day" generator status. Enclosed is the supporting documentation to prove compliance with N.J.A.C. 7:26-9.3.

In your letter you stated six modifications to Metem's hazardous waste storage practices that must be made before exemption under N.J.A.C. 7:26-9.3 can be accomplished. I will address these one at a time in the order they appeared in your letter.

1) Containers must be marked with the words "Hazardous Waste" and labeled in accordance with 49 CFR 172.304.

   Containers containing hazardous waste currently have yellow and black stickers that have the words "HAZARDOUS WASTE" on them along with some other information; I have enclosed one. We are having printed yellow, black, and red stickers which will contain more information than the ones currently being used. I have enclosed a photocopy of a blank one from the Lab Safety catalog, it is style # E-433C.

2) Tanks shall have sufficient shell thickness to ensure that the tank shall not collapse or rupture.

   See drawing number 39381-B. Tank shell thickness is 3/16" on the sides and 1/4" on the bottom. They are made of fiberglass which is compatible with the waste they contain. We have four tanks. One stores nitric acid at 17% by weight concentration, two store sulfuric acid at

METEM

14% by weight concentration, and one stores a combination of salt water electrolyte and the previously mentioned sulfuric acid.

3) Tanks shall be equipped with controls to prevent overfilling.

This is not yet done but will be completed by November 26, 1988. We will be installing level switches approximately 6 inches from the top of the tank in each of the four waste tanks. For the nitric tank, when the level switch is tripped it will turn off the pump that pumps the nitric waste into this tank. The pump will be inoperable until the level in the tank drops enough for the switch to return to its previous state. The switches in the other three tanks will be wired up to a programmable controller which will in turn control a series of electric valves. When the switch in the first tank is tripped a valve will shut off flow to that tank while at the same time a valve will open enabling flow of into the second tank, when the second tank is full a valve will shut off flow to that tank and another valve will open enabling flow into the third tank. If all three tanks are full the pump that pumps the waste will be shut off until the level drops in one of the tanks.

4) Tanks shall be designed so that at least 99 percent of their volume can be readily emptied by direct pumping or drainage.

All tanks have a suction line that extends down the inside of the tank to 3/4" from the bottom of the tank. This is sufficient to pump out more than 99% of the volume of the tank.

5) Tanks below grade shall be constructed to allow visual inspection of the tank, comparable to a totally above-ground tank, and to provide secondary containment for the below grade portion.

All four waste tanks are approximately 6 feet below grade with a secondary containment that is 18" greater in diameter than the waste tank itself, this allows for complete visual inspection of the sides of the waste tank. See drawing 39381-A. The secondary containment holds 300 gallons more than the total volume of the waste tank. The secondary containments sit on top of a 16" thick concrete floor and are surrounded by solid concrete 6 feet up from the floor.

METEM

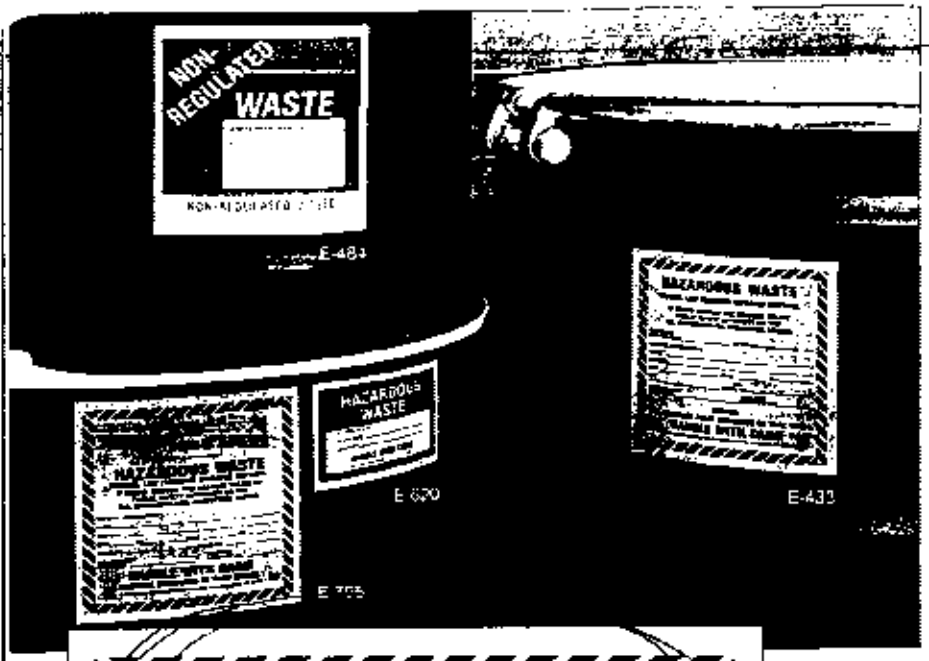
6) Tanks shall be marked with the words "Hazardous Waste".

All four waste tanks have the words "HAZARDOUS WASTE" painted on them with stencils.

If you need any further information or have any questions please call.

Sincerely,

Scott Goldthwaite
Project Engineer



Hazardous Waste Labels

The law requires that all hazardous waste be identified before shipping with a label containing specific information supplied by the waste generator. You can be sure your shipments meet the most current EPA and DOT regulations with our personalized and non-personalized hazardous waste labels. All labels (except No. 620) are made of chemically resistant exterior grade vinyl for long-lasting durability and measure 6" x 6". No. 620 is printed on pressure-sensitive paper and measures 3" x 5".

General Hazardous Waste Label Information

Our No. 433 label should be used on all waste that meets DOT classifications (Corrosive, Flammable, Poison, etc.). No. 435 and 434 have the preprinted shipping name: Hazardous Waste, Liquid Nos. NA9189 and Hazardous Waste, Solid Nos. NA9189, respectively. No. 795 is for other waste classified as ORM-E, proper shipping name has been left blank. No. 796 is for ORM-A,B,C or RQ and the proper shipping name should be completed as required.

E-434, E-435 E-478 E-796

Hazardous Waste Labels

No.	Pads of 100 1-4	5-9	10-49	50-99	100-Up
Select from Illustrations	27.00	20.00	14.00	13.00	11.00
E-620	5.50	4.95	4.45	4.00	3.60

Personalized Hazardous Waste Labels

You can get the same durable vinyl labels above already imprinted with all the information you need to meet even the most specific DOT and EPA requirements. By having us custom-print your hazardous waste labels, you benefit in three big ways:

- ***Save Time!*** Imprinted labels eliminate the tedious, time consuming job of personalizing labels by hand.
- ***Save Money!*** Labels imprinted with your personalized information are ready to use. Eliminate delays and costly labor.
- ***Eliminate Errors!*** Your personalized labels are always accurate. End costly handling and shipping problems with illegible hand writing and transposed numbers.

For easy ordering of personalized hazardous waste labels, simply supply style from illustrations above and supply the information requested in spaces 1 through 9. Include this information with your purchase order. Price is for pad of 100.

Accumulation Start Date (10) and Manifest Document No. (11) must be filled in when the label is used or when the Hazardous Waste Manifest is prepared.

Personalized Labels

No.	Pads of 100 1-4	5-9	10-49	50-99	100-Up
Select from illustrations	95.00	50.00	42.00	35.00	[illegible]

HAZARDOUS WASTE

FEDERAL LAW PROHIBITS IMPROPER DISPOSAL.

IF FOUND CONTACT THE NEAREST POLICE PUBLIC SAFETY AUTHORITY OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

PROPER DOT SHIPPING NAME _____ [1] UN OR NA# _____ [2]

GENERAL INFORMATION

NAME _____ [3]

ADDRESS _____ [4]

CITY _____ [5] STATE _____ [6] ZIP [7] _____

EPA ID NO. _____ [8] EPA WASTE NO. _____ [9]

ACCUMULATION START DATE _____ [10] MANIFEST DOCUMENT NO. _____ [11]

CAUTION:

THIS CONTAINER HOLDS HAZARDOUS OR TOXIC WASTE.

HANDLE WITH CARE!

© Copyright Science Related Materials Inc., Janesville, WI 53547

E-433C

Specify Style No. _____

1 Proper DOT Shipping Name _____

2 UN or NA# _____

3 Name _____

4 Address _____

5 City _____

6 State _____ 7 Zip _____

8 EPA No. _____

9 EPA Waste No. _____

90 DAY ACCUMULATION

HAZARDOUS WASTE

ACCUMULATION START DATE _____

CONTENTS OR DESCRIPTION OF WASTE _____

HANDLE WITH CARE

©SAFETT SIGN CO CLEVELAND, OHIO 44136

CITY _____ 5 STATE _____ 6 ZIP _____ 7

EPA ID NO. _____ 8 EPA WASTE NO. _____ 9

ACCUMULATION START DATE _____ 10 MANIFEST DOCUMENT NO. _____ 11

CAUTION:

THIS CONTAINER HOLDS HAZARDOUS OR TOXIC WASTE.

HANDLE WITH CARE!

© Copyright Science Research Materials Inc., Janesville, WI 53547

Specify Style No. _____ E-433C

1 Proper DOT Shipping Name _____

2 UN or NA# _____

3 Name _____

4 Address _____

5 City _____

6 State _____ 7 Zip _____

8 EPA ID No. _____

9 EPA Waste No. _____

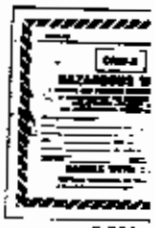
...s Waste Labels

...ires that all hazardous waste be ...ing with a label containing spe... ...lled by the waste generator. Y... ...ipments meet the most curren... ...ions with our personalized hazardous waste labels. All labe... ...ade of chemically resistant exte... ...-lasting durability and measur... ...rinted on pressure-sensitive p... ...x 5".

General Hazardous Waste Label Information

...label should be used on all was... ...T classifications (Corrosive, ...ion, etc.). No. 435 and 434 ha... shipping name: Hazardous W... NA9189 and Hazardous Waste ...9, respectively. No. 796 is for ...fied as ORM-E; proper shipping ...t blank. No. 796 is for ORM-A, ...r proper shipping name shou... ...s required.

F-478



E-796

...ous Waste Labels

No.	Pads of 100 1-4	5-9	10-49	50-99
Select from illustrations	27.00	20.00	14.00	13.00
E-620	5.50	4.95	4.45	4.00

Personalized Hazardous Waste Labels

You can get the same durable vinyl labels above already impr... all the information you need to meet even the most specific D... EPA requirements. By having us custom-print your hazardous labels, you benefit in three big ways:

- ***Save Time!*** Imprinted labels eliminate the tedious, consuming job of personalizing labels by hand.
- ***Save Money!*** Labels imprinted with your person... information are ready to use. Eliminate delays and costly
- ***Eliminate Errors!*** Your personalized labels are a... accurate. End costly handling and shipping problems with ... hand writing and transposed numbers.

For easy ordering of personalized hazardous waste labels ... supply style from illustrations above and supply the inform... requested in spaces 1 through 9. Include this information with purchase order. Price is for pad of 100.

Accumulation Start Date (10) and Manifest Document No. (11) ... be filled in when the label is used or when the Hazardous W... Manifest is prepared.

Personalized Labels

No.	Pads of 100 1-4	5-9	10-49	50-9...
Select from illustrations	95.00	50.00	42.00	30...

REFERENCE NO. 7

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Michael M. Putnam
Deputy Director
Hazardous Waste Operations

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

Scott Goldthwaite
Project Engineer
Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054

DEC 2 1 1988

Dear Mr. Goldthwaite:

Re: Approval for 90 Day Accumulation in Above Ground Tanks, Metem Corporation, Parsippany, EPA ID No. NJD 002 139 244, TS-88-22

The Bureau of Hazardous Waste Engineering (the "Bureau") acknowledges receipt of Metem Corporation's ("Metem") correspondence dated October 25, 1988 regarding the referenced approval. This submission was made in response to the Bureau's September 26, 1988 request for information subsequent to the September 15, 1988 site visit/meeting between Metem and Bureau personnel.

The Bureau has completed its review of Metem's October 25, 1988 submittal which included a request for delisting from treatment, storage, or disposal (TSD) facility requirements through the aboveground tank exemption provided in N.J.A.C. 7:26-9.3(b). Metem proposes to utilize four (4) 5500 gallon aboveground composite fiberglass tanks; each within a full concrete containment area which will contain at least 110% of tank volume. All tanks are outfitted with high-level switches to cut-off waste feed and are sufficiently piped to allow each tank to be rendered at least 99% empty. Tanks have been marked with the words "Hazardous Waste" for identification purposes.

Through its review of Departmental files, the Bureau has concluded that Metem never attained interim status for consideration as a TSD facility; therefore delisting is not an appropriate action. It has been learned that since Metem's practice of 90 day accumulation in above ground tanks was not an allowable option at the time of initial inspection, but was soon to be exempted, Department representatives gave Metem special consideration by allowing them to continue operations without major enforcement action. However, Metem was directed to obtain approval for the above ground storage tanks as soon as exemption was made available through the hazardous waste regulations.

DEC 2 1 1988

Based on its review of the aforementioned information, the Bureau hereby approves Metems use of aboveground tanks for hazardous waste storage provided the following conditions, as specified in N.J.A.C. 7:26-9.3(b), are met:

1. Sufficient tank shell thickness must be maintained to prevent collapse or rupture. Each outer tank shell shall be inspected daily for leaks, cracks, or bulges and inspection of tank interiors shall be conducted yearly. Results of inspections, including notation of problems or repairs made, shall be kept throughout the lifetime of the tank;

2. Controls to prevent overfilling shall be maintained in accordance with N.J.A.C. 7:26-10.5(c);

3. Each tank's secondary containment area shall be maintained in accordance with N.J.A.C. 7:26-10.5(b);

4. Each tank shall be maintained to ensure that at least 99% of the tank volume can be readily emptied be direct pumping or drainage;

5. Each tank shall be rendered empty, as defined at N.J.A.C. 7:26-1.4, every 90 days or less;

6. All waste removed from the tanks shall be shipped off-site to an authorized facility as defined at N.J.A.C. 7:26-1.4;

7. Metem shall continue to comply with the requirements for owners or operators of hazardous waste facilities under N.J.A.C. 7:26-9.4(g) concerning personnel training, and under N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, and emergency procedures;

8. The below-grade portion of each tank must be maintained, within its containment, to allow for visual inspection comparable to a totally above-ground tank;

9. Each tank shall be maintained so that its "Hazardous Waste" label or marking is clearly visible.

It is Metem's responsibility to operate within the conditions listed above. To operate a hazardous waste facility without prior approval from the Department is a violation of the Solid Waste Act N.J.S.A. 13:1E-1 et. seq.

This written acknowledgement of the exclusion of Metem from the hazardous waste facility requirements under N.J.A.C. 7:26-1 et. seq. is based expressly on the review of the aforementioned submittal, files, and report of site visit/meeting. The issuance of this approval letter does not indicate, or imply, and should not be constructed as a waiver of any requirements persuant to the New Jersey Water Pollution Control Act, N.J.A.C. 58:10A-1 et. seq. and regulations promulgated thereunder concerning the New Jersey Pollutant Discharge Elimination System, N.J.A.C. 7:14-1 et. seq.

DEC 2 1 1988

If you should have any questions on this matter, please direct them to Scot J. Frow of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr., Chief
Bureau of Hazardous Waste Engineering

EP48/dm

cc: Barry Tornick, USEPA
D. Shotwell, BNE
W. Howitz, BCTS

REFERENCE NO. 8

United States Department of the Interior
GEOLOGICAL SURVEY
Water Resources Division
Mountain View Office Park
810 Bear Tavern Rd., Suite 206
W. Trenton, NJ 08628

February 21, 1986

Ms. Diane Trube
NUS Corporation
Raritan Plaza II
Fieldcrest Avenue
Edison, NJ 08837

Dear Ms. Trube:

Enclosed are retrievals from our Ground Water Site Inventory Data Base for 14 New Jersey counties as you requested. Together with the retrievals for seven (7) counties previously sent on January 14, 1986, this provides you with a complete copy of the data base for New Jersey with approximately 7,000 entries.

I trust that this information will be useful.

Sincerely,

F. L. Schaefer

F. L. Schaefer
Information Requests Specialist

Encl.

cc: T. V. Fusillo

FLS:nm

USGS - GWSI FILE

STORED COMPONENTS

Each of the components stored in the District File is described in this section. Most of the definitions are derived from Volume II of the WATSTORE User's Guide.

1. Unique Well Number - A six digit number of which the first two digits represent the county code and the last four digits are a consecutive number assigned to the well when the well is scheduled. The county codes and the counties they represent are:

COUNTY CODES

01 - ATLANTIC	23 - MIDDLESEX
03 - BERGEN	25 - MONMOUTH
05 - BURLINGTON	27 - MORRIS
07 - CAMDEN	29 - OCEAN
09 - CAPE MAY	31 - PASSAIC
11 - CUMBERLAND	33 - SALEM
13 - ESSEX	35 - SOMERSET
15 - GLOUCESTER	37 - SUSSEX
17 - HUDSON	39 - UNION
19 - HUNTERDON	41 - WARREN
21 - MERCER	

2. Site - ID - A 15-digit identification number assigned to the site used primarily as an internal control number within the WATSTORE computer file. Although the Site - ID is formed initially from the latitude and longitude of the site, the number is an identifier and not a locator.

3. Latitude - The best available value for the latitude of the site in degrees, minutes, and seconds.

Style - The best available value for the longitude of the site in degrees, minutes, and seconds.

5. Municipality - The name of the township in which the well is located.

6. Owner - The most current known owner of the well.

7. Local identifier - A name given to the well by the owner or U.S. Geological Survey to help distinguish between multiple wells of the same owner.

8. Date completed - The date the well was completed by the driller.

9. Use of site - A code indicating the principal use of the site. The codes and their meanings are:

A - anode
C - standby emergency supply
D - drain
E - geothermal
G - seismic
H - heat reservoir
M - mine
O - observation
P - oil or gas well
R - recharge
S - repressurize
T - test
U - unused
W - withdrawal of water
X - waste disposal
Z - destroyed

Use of water - A code indicating the principal use of water from the site. The codes and their meanings are:

A- air conditioning	I - irrigation	R - recreation
B- bottling	J - industrial (cooling)	S - stock
C- commercial	K - mining	T - institution
D- dewater	M - medicinal	U - unused
E- power	N - industrial	Y - desalination
F- fire	P - public supply	Z - other (explain in remarks)
H- domestic	Q - aquaculture	

1. Altitude of land surface (feet) - The altitudes of the land surface at the site, in feet above land surface datum (NVGD of 1929).

2. Water level (feet) - The depth of the water in the well from the land surface at the time the well was constructed.

3. Date water level measured - The date on which the given water level was measured which is usually at the time the well was constructed.

14. Depth of well (feet) - The depth of the finished well in feet below land surface datum. This is not always equal to the bottom of the last opening because the well may have a plug at the bottom.

15. Production level (feet) - The water level in feet below land surface while the well was discharging usually taken during the initial pump test.

6. Discharge - The discharge from the site in gallons per minute at the time of the original pump test.

7. Principal aquifer - A code representing the principal source of water in the well. The codes and their meanings are found in Appendix A.

18. Data reliability - Primarily indicates if the well has been field checked by the New Jersey District of the U.S. Geological Survey. The codes and their meanings are:

C - the data have been field checked by the reporting agency.

U - the data have not been field checked by the reporting agency, but the reporting agency considers the data reliable.

19. Altitude measurement method - A code indicating the method used to determine the altitude of the site. The codes and their meanings are:

A - altimeter

L - level or other surveying method

M - interpolated from topographic map

Failure to select one of these values implies that the method is unknown.

[illegible]. Length of screen (feet) - The calculated difference between the bottom and top of the open section.

1. Multiple opening flag - In the instances where there are multiple screens or blanks within the screened interval the value calculated is flagged by a *. Thus, the length of screen can be greater than the top to bottom if the screens are telescoped or less if there are blanks.

22. Depth to first opening (feet) - The depth to the top of the first open section of the screen or open hole in feet below land surface.

23. Bottom last opening (feet) - The depth to the bottom of the last open section of the screen or open hole in feet below land surface.

24. Minimum screen diameter (inches) - The smallest diameter of the open section that can be filled with water.

25. End depth drillers log (feet) - The deepest point below land surface that accompanies the drillers lithologic log of the well.

26. Hydrologic unit - A cataloging unit representing the hydrologic unit in which the site is located. The hydrologic units and their boundaries are given in the map provided.

Driller - The name of the company or individual that drilled and finished the well.

Minimum casing diameter (inches) - The diameter of the narrowest casing segment of the well.

Owner date - The most current date of ownership associated with the well.

Site type - A code representing the type of well. The codes and their meanings are:

C - collector or Ranney type well.

D - drain dug to intercept the water table or potentiometric surface to either lower the ground-water level or serve as a water supply.

E - excavation.

H - sinkhole.

I - interconnected wells, also called connector or drainage wells; that is, a well interconnected via an underground lateral.

M - multiple wells. Use only for well field consisting of a group of wells that are pumped through a single header and for which little or no data about the individual wells are available.

O - outcrop.

P - pond dug to intercept the water table or potentiometric surface and serve as a water supply.

S - spring (used only on spring schedule.

T - tunnel, shaft, or mine from which ground water is obtained.

W - well, for single wells other than wells of the collector or Ranney.

X - test hole, not completed as a well.

31. Latitude - longitude accuracy - Indicates the accuracy to which the lat-long is measured. When it is measured from a U.S. Geological Survey topographic map the code T for ± 10 seconds is generally used. When field checked the code used is F ± 5 seconds. The codes and meanings are:

S - the measurement is accurate to ± 1 second

F - the measurement is accurate to ± 5 seconds

T - the measurement is accurate to ± 10 seconds

M - the measurement is accurate to ± 1 minute

No value indicates that the accuracy is unknown and is, therefore, assumed to be beyond one minute.

32. Accuracy of altitude - The accuracy of altitudes interpolated from the contours on topographic maps is ± one-half the contour interval.

33. Current use of water - The codes from use of water are used, however, this code represents the current status of the well. The primary use may have changed or the well may have been destroyed.

34. Measuring point - point above land surface from which water level measurement is taken.

35. Permit number - The State Department of Environmental Protection, Division of Water Resources (NJDEP/DWR) assigns a 6-7 digit code with the first 2 digits representing the State Atlas Map on which the well is located and the remaining 4-5 digits are assigned consecutively.

36. Grid number - The 7 digit code assigned by the NJDEP/DWR representing the well location on the State Atlas Maps.

37. Water Supply number - Number assigned by the NJDEP/DWR Water Policy and Supply Council, to the diversion rights of a well.

38. Depth to bedrock - Depth in feet below land surface datum where a rock formation is first encountered.

39. Bedrock material (lithology) - The description and classification of bedrock. The codes and their meanings are given in Appendix C.

40. Standard industrial use code - A standard four-digit code representing the use of the water. The codes and their meanings are given in Appendix B.

f opening - The code indicating type of open section. es and their meanings are:

F fractured rock

L - louvered or shutter-type

M mesh screen

P perforated, porous, or slotted casing

R wire-wound screen

S - screen, type not known

T - sand point

W - walled or shored

X - open hole

Z - other (explain in remarks)

This field is mandatory. Information about the openings will not be stored if this field is blank.

42. Type of opening material (C86/Screen-Material) - The code indicating the type of material from which the screen or other open section is made. The codes and their meanings are:

B - brass or bronze

C - concrete

G - galvanized iron

I - wrought iron

M - other metal

P - PVC, fiberglass, or other plastic

R - stainless steel

S - steel

T - tile

Z - other (explain in remarks)

43. Type of lift - The type of lift or pump used to bring water to the surface. The codes and meanings are:

A - air list

B - bucket

C - centrifugal pump

J - jet pump

P - piston pump

R - rotary pump

S - submergible pump

T - turbine pump

U - unknown

Z - other (explain in remarks)

18. Municipality code - A list of municipalities and codes published by the New Jersey Department of Transportation. The code are assigned 2-digit numbers to the alphabetical listing of municipolities within each county. (Appendix D.)

COMPUTED VALUES

Values stored in the GWSIDB.DAT file can be used to compute other components using DATATRIEVE. These components do not occupy space in the GWSIDB.DAT file and are derived only when you use them in a DATATRIEVE statement.

1. Altitude of water level (feet) - A value calculated by the computer by subtracting the water level from the altitude of the land surface.

2. Drawdown (feet) - The difference between the production level and the water level.

3. Specific capacity - The discharge expressed as a rate of yield per unit drawdown reported in units of gallons per minute per feet. If the value is followed by a µ, the date of the water level measurement is different than the date of construction by two years or greater or one of the dates is blank. This gives an indication of the reliability of the specific capacity measurement to the initial conditions at the time the well was drilled.

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U. S. GEOLOGICAL SURVEY TRENTON, NEW JERSEY

SELECTED INFORMATION OF WELLS FROM THE GROUND WATER SITE INVENTORY DATABASE
MORRIS COUNTY

USGS UNIQUE ID	SITE ID	LATITU	LONGITU	MUNICIPALITY	SITE OWNER	LOCAL IDENTIFIER	DATE COMPLETED	USE OF SITE	ORIG WATER USE	CURR WATER USE	LAT LON ACC
270791	405218074230101	405218	742301	PARSIP-TROY HILLS	SHELL OIL CO	SHELL OW9	10/28/1980	O	U	U	S
270792	405415074243001	405405	742430	MOONTON TOWN	WILPAT ENTERPRISES	WILPAT 2	05/14/1981	O	U	U	S
270793	405409074224301	405409	742243	ROCKAWAY TWP	EXXON CO	EXXON 1	06/01/1981	O	U	U	T
270794	405409074224101	405409	742241	ROCKAWAY TWP	EXXON CO	EXXON 2	06/01/1981	O	U	U	T
270795	405409074224301	405409	742243	ROCKAWAY TWP	EXXON CO	EXXON 3	06/01/1981	O	U	U	T
270796	405409074224401	405409	742244	ROCKAWAY TWP	EXXON CO	EXXON 4	06/01/1981	O	U	U	T
270800	405138074251601	405138	742516	PARSIP-TROY HILLS	BOONTON ELECTRONICS	BOONTON	09/02/1982	O	L	U	S
270815	405138074210601	405138	742106	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 6	12/03/1956	W	F	P	F
270816	405100074250601	405100	742506	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD	12/18/1958	W	F	P	F
270817	405211074254302	405211	742543	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 17	12/28/1976	W	F	P	F
270818	405208074260801	405208	742608	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 18	12/28/1976	W	F	P	S
270820	405323074240401	405323	742404	DOVER TOWN	DOVER TOWN WD	DTWD 1	04/01/1966	W	F	P	S
270822	405621074265701	405621	742657	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 19	09/27/1960	W	F	P	F
270823	405455074245001	405455	742450	BOONTON TWP	BOONTON WD	BTWD 5	05/30/1958	W	F	P	F
270824	405259074272701	405259	742727	MOUNTAIN LAKES BORO	MOUNTAIN LAKES WD	MLBWD	01/08/1969	W	F	P	S
270825	405220074235501	405220	742353	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 16	11/12/1973	W	P	P	S
270826	405414074252901	405414	742529	WHARTON BORO	WHARTON WD	WBWD 1	09/08/1953	W	F	P	S
270827	405412074252601	405412	742526	WHARTON BORO	WHARTON WD	WBWD 2	12/21/1960	W	F	P	S
270828	405352074271101	405352	742711	DENVILLE TWP	DENVILLE TWP WD	DTWD 5	09/28/1961	W	P	P	F
270829	405342074205601	405342	742056	ROCKAWAY BORO	ROCKAWAY BORO WD	RBWD 3R	07/27/1961	W	F	P	S
270830	405415074203601	405415	742036	ROCKAWAY BORO	ROCKAWAY BORO WD	RBWD 5	11/30/1962	W	F	P	S
270831	405319074240401	405319	742404	DOVER TOWN	DOVER TOWN WD	DTWD 5	09/10/1971	W	F	P	S
270832	405413074242601	405413	742426	ROCKAWAY BORO	ROCKAWAY BORO WD	RBWD 6	03/01/1976	W	F	P	S
270833	405151074245201	405151	742452	RANDOLPH TWP	RANDOLPH TWP WD	RTWD TW BUY	10/23/1969	W	F	P	T
270834	405150074253701	405050	742537	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD TW 4	07/12/1971	W	F	P	
270835	405446074255631	405446	742556	ROCKAWAY TWP	ROCKAWAY TWP WD	RTWD 6	07/21/1957	W	F	P	S
270836	405447074230101	405447	742301	ROCKAWAY TWP	ROCKAWAY TWP WD	RTWD 7	12/23/1969	W	P	P	S
270837	405126074234001	405126	742340	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 3	05/10/1954	W	F	P	F
270838	405123074235001	405123	742350	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD 1	03/27/1954	W	F	P	F
270839	405126074237801	405126	742378	PARSIP-TROY HILLS	DEFURIA ALFONSE	DEFURIA 1	03/02/1982	W	R	R	S
270840	405217074230301	405217	742303	PARSIP-TROY HILLS	SHELL OIL CO	SHELL RW2	11/01/1980	W	R	R	S
270841	405217074231101	405217	742311	PARSIP-TROY HILLS	SHELL OIL CO	SHELL RW1	10/21/1980	W	R	R	S
270842	405204074254301	405204	742543	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD	04/01/1958	O	L	U	S
270843	405058074250601	405058	742506	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD	04/01/1958	O	U	L	F
270844	405454074265501	405454	742655	BOONTON TWP	BOONTON TOWN WD	BTWD RIVER	03/01/1974	O	L	U	S
270845	405120074250501	405120	742515	PARSIP-TROY HILLS	LK PARSIP PROP ASSOC	LPPA 1	02/05/1954	O	L	U	F
270846	405036074233701	405036	742337	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD	02/05/1954	O	L	U	F
270847	405110074232901	405110	742329	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD TW 13	06/01/1966	O	L	U	S
270848	405117074245801	405117	742458	PARSIP-TROY HILLS	LEEMING-PACQUIN CO	JEFFERSON RD	05/20/1964	O	L	U	T
270849	405057074231101	405057	742311	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD TW 11	03/03/1965	O	L	U	S
270850	405225074235701	405225	742357	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD VAIL RD	09/01/1954	O	L	U	S
270851	405140074210601	405140	742106	PARSIP-TROY HILLS	PARSIP-TROY HILLS WD	PTHWD TW 1	10/01/1954	O	U	U	S

SELECTED INFORMATION OF WELLS FROM THE GROUND WATER SITE INVENTORY DATABASE
MORRIS COUNTY

USGS UNIQUE ID	SITE ID	LATITU	LONGITU	MUNICIPALITY	SITE OWNER	LOCAL IDENTIFIER	DATE COMPLETED	USE OF SITE	ORIG WATER USE	CURR WATER USE	LAT LON ACC

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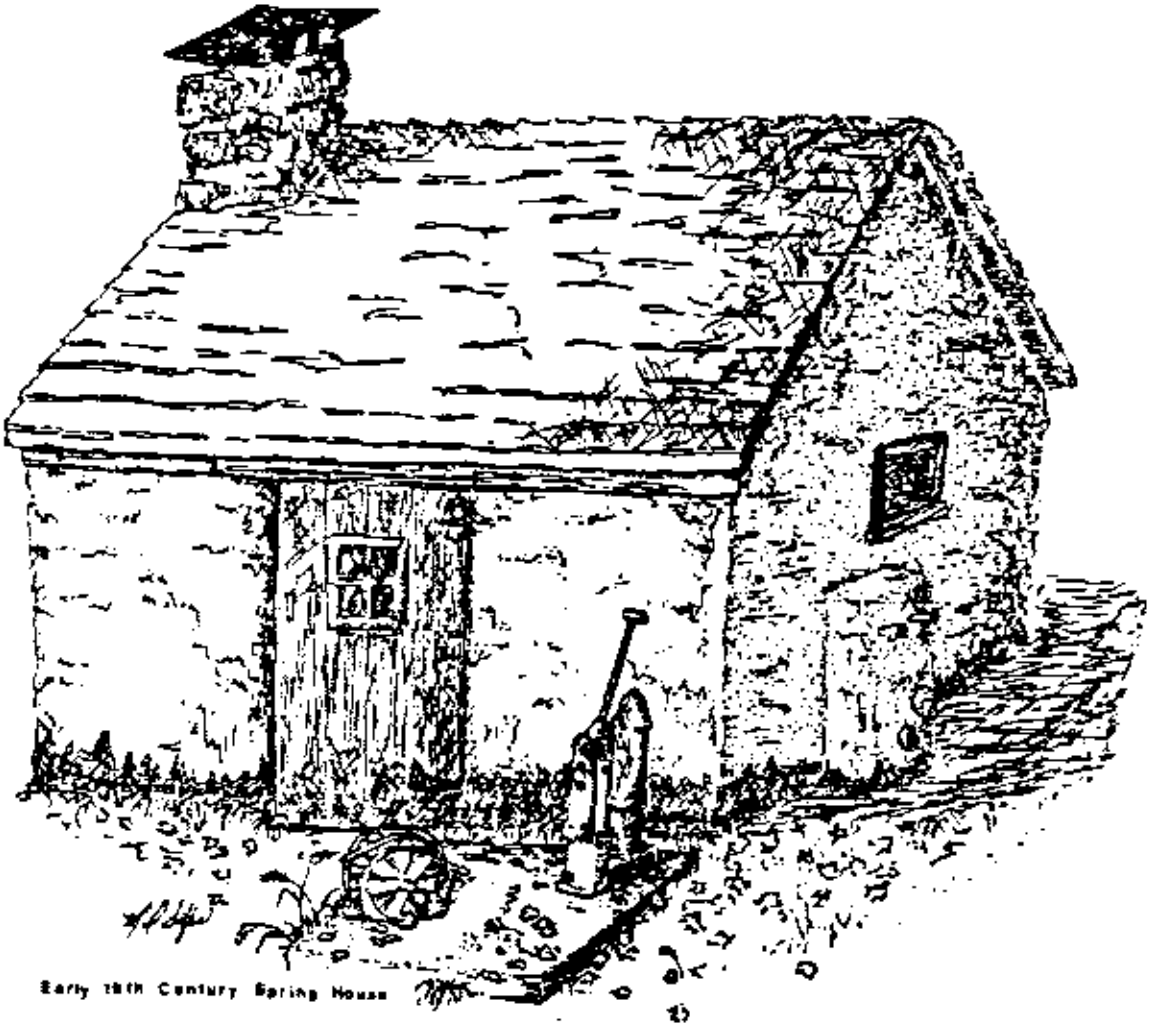
U. S. GEOLOGICAL SURVEY TRENTON, NEW JERSEY

SELECTED INFORMATION OF WELLS IN THE GROUND WATER SITE INVENTORY DATABASE
HORNIS COUNTY

USGS UNIQUE ID	ALTITUD	METH ALT MEAS	ALTI TUDE ACC	WATER LEVEL	DATE LEVEL MEASURED	PRODU-TION LEVEL	DISCHARG	DEPTH FIRST OPENING	BOTTOM LAST OPENING	MIN OPEN DIA	OPEN-ING LENGT	TYPE OPEN -ING	TYPE OPEN MAT	BEDROCK DEPTH	BEDROCK MATERIAL	DEPTH DRILLER LOG
270751	233.00	M	10.00	28.00	10/28/1980	0.00	0.00	14.00	34.00	0.0	20.0	S		45.00	UNKN	45.00
270752	463.00	M	10.00	0.00	05/14/1981	0.00	0.00	15.00	55.00	0.0	20.0	S		34.00	UNKN	34.00
270753	680.00	M	10.00	13.00	06/01/1981	0.00	0.00	10.00	50.00	0.0	20.0	S		34.00	UNKN	30.00
270794	680.00	M	10.00	15.00	06/01/1981	0.00	0.00	10.00	30.00	0.0	20.0	S		34.00	UNKN	30.00
270795	680.00	M	10.00	15.00	06/01/1981	0.00	0.00	10.00	50.00	0.0	20.0	S		34.00	UNKN	30.00
270796	680.00	M	10.00	18.00	06/01/1981	0.00	0.00	10.00	30.00	0.0	20.0	S		34.00	UNKN	30.00
270800	310.00	M	10.00	0.00	09/02/1982	0.00	0.00	56.00	60.00	0.0	4.0	S		60.00	UNKN	60.00
270815	180.00	M	10.00	4.00	12/03/1956	64.00	350.00	54.00	96.00	0.0	36.0	S		90.00	UNKN	90.00
270816	270.00	M	10.00	7.00	12/10/1958	51.00	715.00	55.00	66.00	0.0	11.0	S		66.00	UNKN	66.00
270817	300.00	M	10.00	22.00	12/28/1976	70.50	900.00	116.00	136.00	0.0	20.0	S		150.00	UNKN	150.00
270818	310.00	M	10.00	24.00	12/28/1976	35.00	910.00	139.00	127.00	0.0	18.0	S		131.00	UNKN	127.00
270820	590.00	M	10.00	11.20	04/01/1966	24.70	1711.00	45.00	65.00	0.0	20.0	S		131.00	UNKN	68.00
270822	290.00	M	10.00	31.30	09/27/1980	45.00	949.00	106.00	134.00	0.0	28.0	S		134.00	UNKN	134.00
270823	590.00	M	10.00	13.00	05/30/1958	10.00	300.00	75.00	106.00	0.0	31.0	S		112.00	UNKN	112.00
270824	510.00	M	10.00	0.00	01/08/1969	0.00	1200.00	234.00	333.00	0.0	99.0	S		363.00		112.00
270825	290.00	M	10.00	32.30	11/12/1973	58.00	1100.00	60.00	96.00	0.0	36.0	S		94.00	SHLE	96.00
270826	650.00	M	10.00	9.00	09/08/1953	29.00	530.00	32.00	42.00	0.0	10.0	S		42.00	UNKN	44.00
270827	650.00	M	10.00	14.00	12/21/1960	24.90	500.00	24.00	32.00	0.0	8.0	S		33.00	UNKN	33.00
270828	510.00	M	10.00	20.00	09/28/1961	43.00	1018.00	179.00	201.00	0.0	23.0	S		201.00	UNKN	201.00
270829	545.00	M	10.00	4.00	07/27/1961	20.00	500.00	103.00	139.00	0.0	36.0	S		140.00	UNKN	140.00
270830	520.00	M	10.00	0.00	11/30/1962	50.00	517.00	63.00	82.00	0.0	19.0	S		84.00	UNKN	84.00
270831	585.00	M	10.00	14.00	09/10/1971	29.00	1529.00	44.00	64.00	0.0	20.0	S		84.00	UNKN	73.00
270832	520.00	M	10.00	5.00	03/01/1976	25.00	768.00	54.00	83.00	0.0	29.0	S		85.00	UNKN	85.00
270833	930.00	M	30.00	0.00	10/23/1969	145.00	108.00	59.00	250.30	0.0	192.0	S		36.00	GRNT	250.00
270834	0.00	M	30.00	0.00	07/12/1971	0.00	0.00	175.00	175.00	0.0	0.0	S		165.00	SHLE	175.00
270835	529.00	M	10.00	20.00	07/21/1967	110.00	539.00	160.00	183.00	0.0	23.0	S		173.00		173.00
270836	510.00	M	10.00	21.50	12/23/1969	48.30	708.00	88.00	153.30	0.0	65.0	S		153.00	UNKN	153.00
270837	470.00	M	20.00	10.00	05/10/1954	105.00	195.00	52.00	150.00	0.0	118.0	S		30.00	GRNT	150.00
270838	470.00	M	20.00	7.00	03/23/1954	98.00	263.00	58.00	195.00	0.0	157.0	S		36.00	GRSS	195.00
270839	330.00	M	10.00	8.00	03/02/1982	0.00	7.00	98.00	98.00	0.0	0.0	S		98.00	UNKN	98.00
270840	250.00	M	10.00	27.00	11/01/1980	31.00	2.00	19.00	31.00	0.0	12.0	S		31.00	UNKN	31.00
270841	230.00	M	10.00	0.00	10/21/1980	0.00	0.00	19.00	31.00	0.0	12.0	S		31.00	UNKN	31.00
270842	310.00	M	10.00	26.00	04/01/1958	62.00	600.00	105.00	138.00	0.0	33.0	S		144.00	UNKN	144.00
270843	270.00	M	10.00	0.00	04/01/1958	0.00	0.00	0.00	92.00	0.0	92.0	S		73.00	SHLE	92.00
270844	500.00	M	10.00	0.00	03/01/1974	0.00	0.00	0.00	127.00	0.0	127.0	S		126.00	UNKN	126.00
270845	270.00	M	10.00	0.00	02/05/1954	10.00	50.00	10.00	53.00	0.0	40.0	S		50.00	UNKN	50.00
270846	180.00	M	10.00	0.00	02/05/1954	0.00	900.00	0.00	73.00	0.0	70.0	S		70.00	SHLE	70.00
270847	176.00	M	10.00	0.00	06/01/1966	28.00	835.00	36.00	47.00	0.0	11.0	S		47.00	UNKN	47.00
270848	300.00	M	20.00	10.00	05/20/1964	40.00	430.00	60.00	80.00	0.0	20.0	S		80.00	SHLE	80.00
270849	178.00	M	10.00	7.00	03/03/1965	50.00	530.00	55.00	83.00	0.0	25.0	S		80.00	SHLE	80.00
270850	300.00	M	10.00	0.00	09/01/1954	3.00	0.00	85.00	85.00	0.0	0.0	S		[illegible]	[illegible]	[illegible]

REFERENCE NO. 9

THE BURIED VALLEY AQUIFER SYSTEMS: RESOURCES AND CONTAMINATION



PASSAIC RIVER COALITION

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1986

CHAPTER I

INTRODUCTION

The Buried Valley Aquifer Systems Region

Nearly one-half of New Jersey's residents rely on ground water for potable water supplies. The major aquifers of New Jersey are the Coastal Plains aquifers used by the shore communities, the Potomac-Raritan-Magothy aquifer used by Delaware River communities in southern New Jersey, and the buried valley (or valley-fill) aquifers of glaciated areas in northern New Jersey. The Buried Valley Aquifer Systems region is included within the last category.

In terms of political boundaries (see Figure G-1), the Buried Valley Aquifer Systems region encompasses the western parts of Essex and Union Counties, northern Somerset County and north, central and eastern parts of Morris County. Hydrologically, the region includes the Central and Upper Passaic River Basin, the Whippany River watershed, the Rockaway River watershed, and the Upper Lamington River watershed. The Upper Lamington River is part of the Raritan River Basin while the remainder of the region is included within the Passaic River Basin. The aquifer underlying the Upper Lamington is directly connected with the aquifer of the Rockaway River watershed and so is included within the region.

The Buried Valley Aquifer Systems region is characterized by a network of former river valleys which were filled with glacial outwash material by the Wisconson glacier which covered much of northern New Jersey until some 11,000 years ago. The buried valley aquifers thus formed are often contiguous and hydraulically connected to aquifers in the fractured bedrock below. The buried valley aquifers are prolific regionally, supplying over 40 million gallons per day for potable use. The bedrock aquifers are locally prolific, especially dolomite formations in the west and some shale areas in the east.

The region includes two "sole source aquifers" designated by the United States Environmental Protection Agency. The Buried Valley Aquifer Systems of the Central Passaic River Basin was designated in 1980, while the Rockaway Valley Quaternary Aquifer was designated in 1984. Recent hydrogeologic studies clearly show that the two aquifer systems are in fact one, fully connected through a formerly unknown buried valley. Therefore, this report treats the two designated areas as one, called the **Buried Valley Aquifer Systems.**

Importance of Ground Water to the Region

Ground water has played an ever-increasing role in supplying the water needs of residents and businesses throughout the Passaic River Basin and, indeed, throughout New Jersey. Within the basin, the most productive and intensively used aquifers are the buried valley (or valley-fill) aquifers. The buried valley aquifers form an extensive network of narrow-channeled sand and gravel deposits through which large quantities of water flow. They are located in many parts of the Passaic River Basin which were affected by the latest glaciation (the Wisconsin) and are most heavily concentrated in northern and eastern Morris County and western Essex County. Public water purveyors began tapping the buried valley aquifers around the turn of the century. Now, the use of the aquifers has reached major proportions, supplying the majority of water used in a number of municipalities, and providing water for over one-half million people and scores of major industries.

The intensive use of the aquifers, coupled with their high potential for contamination and loss of recharge, led municipalities and citizen organizations to pursue local, state and federal methods for protecting the ground water resources of the area. At the same time, the compilation of existing information on the buried valley aquifers was begun for use by decision-makers throughout the region. This report is the result of the second phase of efforts to understand the characteristics of the aquifers, and ground water use and contamination, so that this knowledge might be applied toward improved management of the aquifer systems. The first phase concluded in 1983 with the publication of the Hydrogeology of the Buried Valley Aquifer Systems. This second report enlarges upon the first, makes use of new findings from research of the State and federal governments, updates information on ground water diversions, and provides a first-time overview of contamination incidents and issues within the region.

of such rocks can vary considerably within a short distance, both horizontally and vertically. Because fractures are wider toward the surface due to weathering, a well in Precambrian rock is unlikely to supply much water below 300 feet. The 79 large-diameter public supply, industrial, and commercial wells in Precambrian rock that operated in 1965 throughout Morris County yielded an approximate average of 121 gallons per minute (gpm), and the maximum and minimum yields were 400 and 5 gpm respectively. The larger amounts are usually associated with fault zones (Gill and Vecchioli, 1965).

Water quality from Precambrian wells is generally good. Hardness ranges from soft (less than 50 ppm) to moderately hard (60-120 ppm); pH ranges from slightly acidic to slightly alkaline; and iron occurs in objectionable quantities in some areas (Gill and Vecchioli, 1965).

Carbonate Rocks

The primary carbonate rock aquifer in the study area is that of the Kittatiny Formation. This is a long, deep, narrow bed of dolomitic limestone from the Paleozoic Era. Gill and Vecchioli (1965) reported that the five major wells developed in the dolomite at the time had yields ranging from 40 to 380 gpm. They suggested that the Kittatiny Formation had the potential for moderate to large ground water supplies. The Alamatong well field has Well 5 with a yield of 500 gpm and the potential for greater yields, in the Lightsville Dolomite. Markewicz (personal communication, 1986) reports that other dolomite wells have yields of up to 3000 gpm in the Pequest Valley (Warren County). He estimates, based on the sketchy data available to date, that 10 to 15 mgd may be available from the various dolomite deposits.

Newark Group: Brunswick Formation

The Brunswick Formation serves as an aquifer in the following communities of the Buried Valley Aquifer Systems: Chatham Borough, East Hanover Township, Florham Park Borough, Hanover Township, Harding Township, Lincoln Park Borough, Montville Township, Morris Township, Town of Morristown, Parsippany-Troy Hills Township, and Passaic Township in Morris County; Caldwell Borough, Fairfield Township, Livingston Township, Millburn Township, North Caldwell Borough, Roseland Borough, West Caldwell Borough, and West Orange Town in Essex County; Bernards Township, Bernardsville Borough and Warren Township in Somerset County;

and Berkeley Heights Township, New Providence Borough, Summit City in Union County (Gill and Vecchioli, 1965; Nichols, 1968a; Nemickas, 1976).

The approximately 6,000 feet-thick Brunswick Formation is composed of shale with local occurrences of sandy and pebbly consolidated beds. The sandstone ranges from a few inches to 20 feet in thickness. The many joints and fractures in the rock allow for retention and transport of a fairly large volume of ground water. Wells yield from 4 to 650 gpm in Morris County, from 35 to 820 gpm in Essex County, and from 12 to 870 gpm in Union County (Gill and Vecchioli, 1965; Nichols, 1968a; Nemikas, 1976). Wells of greatest yield are usually those between 200 and 500 feet deep where several source zones feed the well, and is usually hard.

Newark Group: Watchung Basalt

The Basalt Formation serves as an aquifer in the following communities within the study area: Florham Park Borough, Lincoln Park Borough, and Montville Township in Morris County; Essex Fells Township, Fairfield Township, Livingston Township, Millburn Township, North Caldwell Borough, West Caldwell Borough, and West Orange Town in Essex County; Warren Township in Somerset County; and Berkeley Heights Township, New Providence Borough, and Summit City in Union County (Gill and Vecchioli, 1965; Nichols, 1968a; Nemikas, 1976). The basaltic flows of the Watchung Mountains serve as a small source of ground water in the study area. Water is usually concentrated in gas-created vesicles and fractures in the rock. Wells yield volumes of 30 to 53 gpm from depths of less than 300 feet in Morris County (Gill and Vecchioli, 1965); from 7 to 400 gpm in Essex County (Nichols, 1968a); and from 20 to 164 gpm in Union County (Nemikas, 1976). Water from the Watchung rocks is usually hard, ranging from 60 to more than 180 gpm. Some wells also have high sulfate, iron and manganese levels (Gill and Vecchioli, 1965).

Pleistocene Deposits

The Pleistocene glacial deposits serve as aquifers in the following study area communities; Chatham Borough, Denville Township, Dover Town, East Hanover Township, Florham Park Borough, Hanover Township, Madison Borough, Montville Township, Morris Township, Morris Plains Borough, Mountain Lakes, Parsippany-Troy Hills Township, Rockaway Borough, Rockaway Township, Roxbury Township and Wharton Borough in Morris County; and Essex Fells Borough, Fairfield Borough, Livingston Township, Millburn Township, and West Orange Town in Essex County (NJDEP, 1985).

The stratified deposits produce the largest source of ground water in both Morris and Essex Counties (77 per cent and 81 per cent). Wells yield from 20 to 2,200 gpm and the water is of good quality. This ground water is pumped from the buried valley (valley-fill) aquifers. The valleys existed before the Pleistocene glaciation. In some areas, coarse-grained sands and gravels were washed into the valleys by melting water from the glaciers. Later some of these deposits were overlain by glacial till, by lake sediments or both. Therefore, the location of the buried valleys is difficult to ascertain by direct observation from the surface. Figure II-11 shows the assumed origin of the buried valleys.

The primary ground water resources for the Buried Valley Aquifer Systems are contained in the Brunswick Formation of eastern Morris and Western Essex Counties (shale and sandstone), the carbonate rocks of western Morris County (dolomitic limestone) and the Pleistocene deposits of the entire study area. By far the dominant producers are the buried valley aquifers for which the region is named. Chapter III presents a basic understanding of the field of hydrogeology which serves as a foundation for discussion of the buried valley aquifers in Chapter IV and of the utilization of all aquifers within the region in Chapter V.

CHAPTER IV

DELINEATION AND DESCRIPTION OF THE BURIED VALLEY AQUIFERS

Introduction

This chapter presents the information currently available on the delineation of buried valleys and buried valley aquifers in the region. Although many research reports have been prepared, much of the detailed information necessary for informed management is lacking. Even such basic steps as the complete delineation of the aquifers have not been completed. An overview of the hydrogeological investigations performed to date is presented for a sense of the progress made over the years. The buried valleys are then described in some detail, by subregion. Finally, the hydrologic characteristics of the aquifers are discussed. Chapter VIII presents information on current and planned research which is focused on the Buried Valley Aquifer Systems.

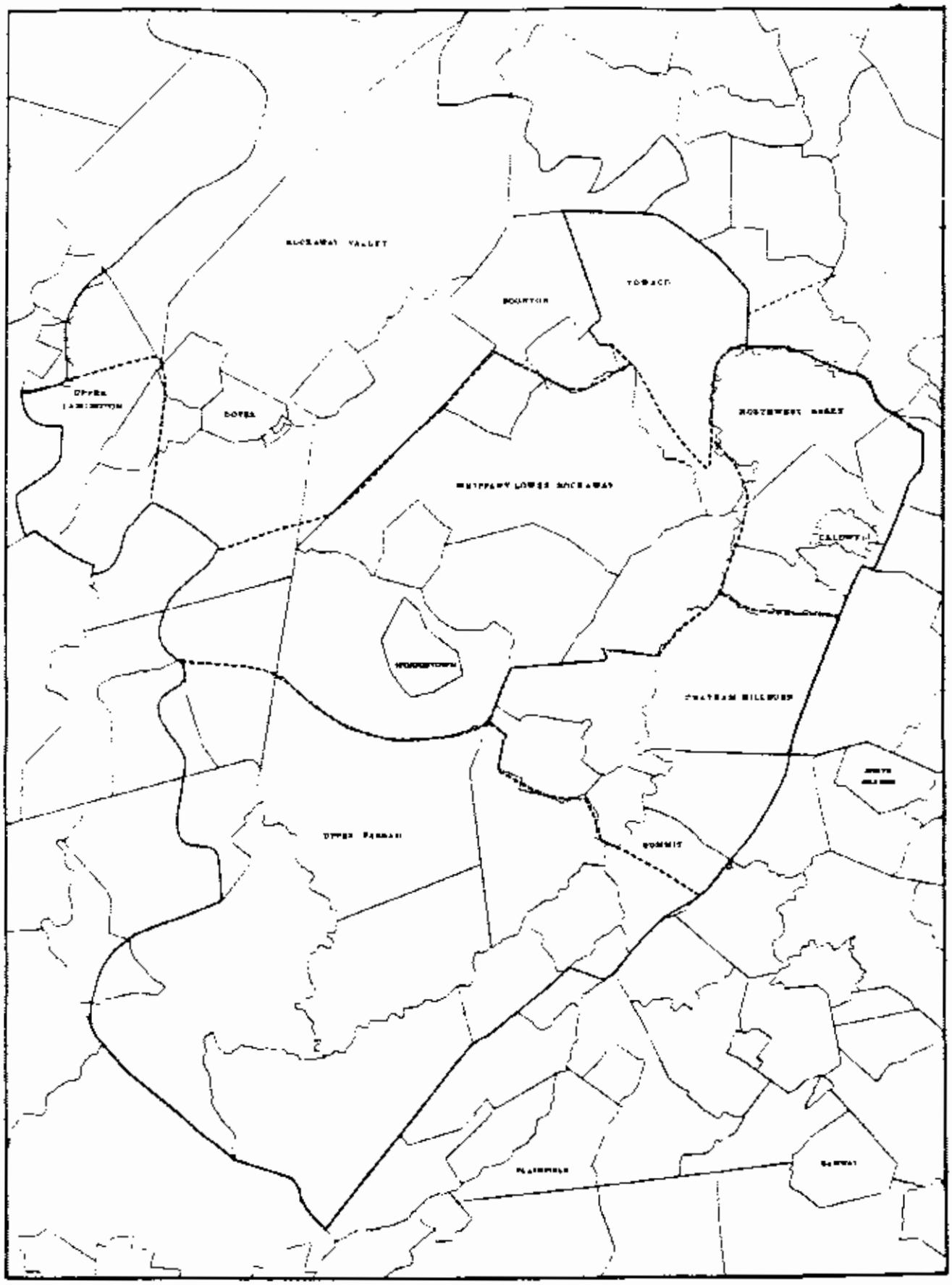
Subregions of the Aquifer Systems

Although evidence mounts that the entire valley-fill aquifer system of the Rockaway, Whippany and Passaic River watersheds are directly connected and therefore a single hydrologic system, a system of subregions is proposed for the purpose of focusing discussion (See Figure IV-1). The subregions of the Buried Valley Aquifer Systems are:

1) Rockaway Valley Aquifers--The entire Rockaway watershed upstream of the Jersey City Reservoir in Parsippany is considered as one system. From upstream to downstream, the municipalities of Jefferson, Rockaway Township, Wharton, Dover, Mine Hill, Roxbury, Randolph, Victory Gardens, Rockaway Borough, Denville, Boonton Town and Boonton Township are located within this subregion in part or in whole.

THE BURIED VALLEY AQUIFER SYSTEMS

FIGURE IV-1. SUBREGIONS OF THE STUDY AREA



2) Upper Lamington Aquifers--The Upper Lamington (or Black) River watershed includes aquifers tapped by the Morris County Municipal Utilities Authority and the Roxbury Water Company, in the municipalities of Mine Hill, Roxbury, Randolph and Chester Township. This subregion is considered separately from the Rockaway, though the aquifers are connected to the Rockaway system to the north.

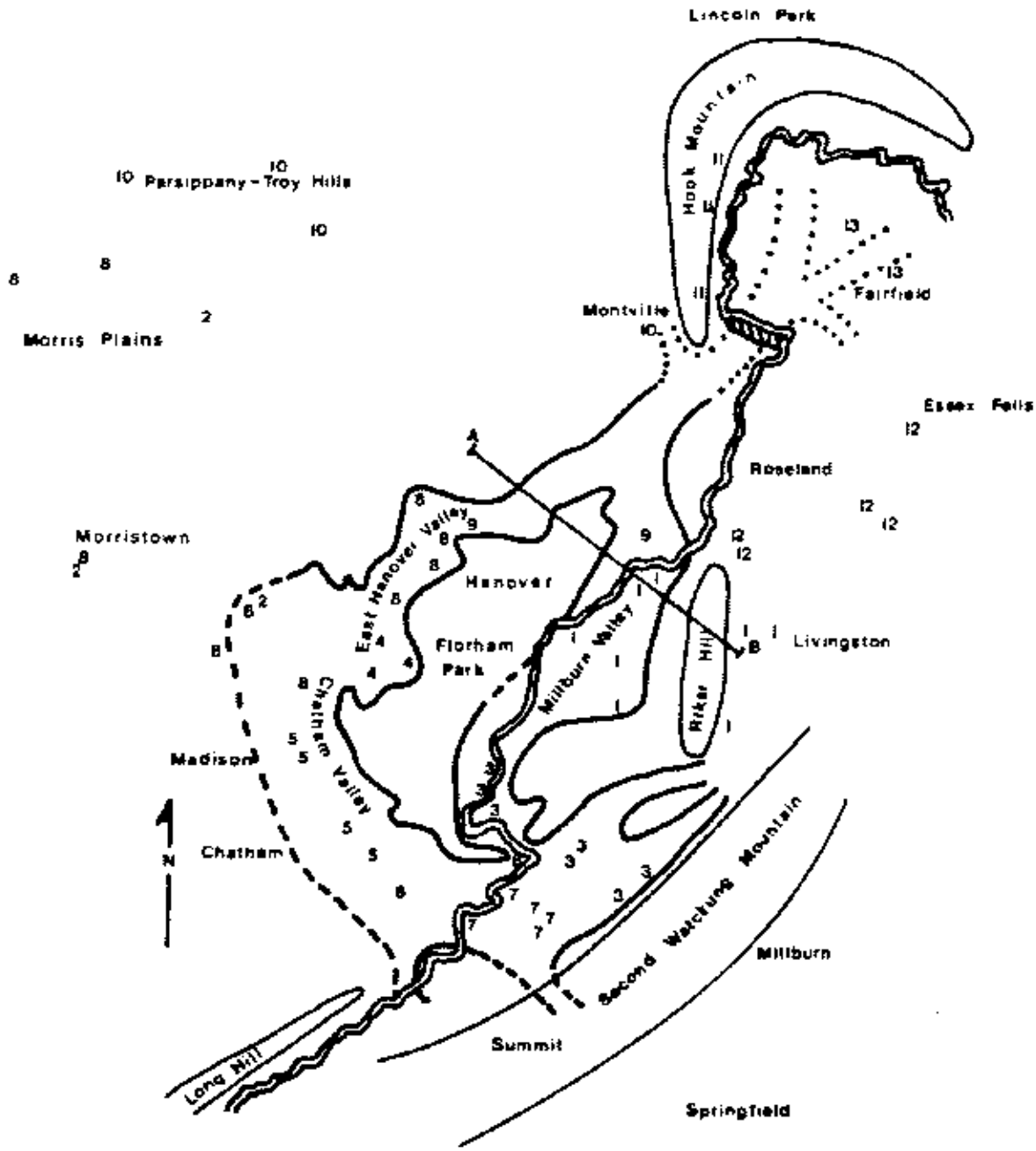
3) Towaco Aquifer--The Towaco Buried Valley in Montville Township does not connect with the buried valley aquifers to the west, but may connect to the buried valleys of the Northwest Essex Subregion by way of the east through Lincoln Park, Wayne and Fairfield. The Towaco is considered as a separate subregion.

4) Northwest Essex Aquifers--The broad valley-fill sediments of Fairfield and the upgradient aquifers of the Caldwells, Essex Fells and Roseland comprise this subregion. The remaining municipalities of West Essex are included within the Chatham/Millburn Aquifers Subregion.

5) Whippany/Lower Rockaway Aquifers--The aquifer underlying the lower Rockaway River between Parsippany and Montville is apparently not connected to the upper Rockaway system, but rather connects to the south with deposits underlying the Whippany River watershed. Parsippany-Troy Hills is almost entirely within the Whippany watershed, as are Morristown, Morris Plains, Morris Township, Hanover, and western East Hanover. The Rockaway Valley subregion is apparently continuous with the major buried valley which traverses the Troy Brook watershed of Parsippany, but Parsippany is considered separately from the Rockaway Valley.

6) Chatham/Millburn Aquifers--This subregion with the longest history and greatest intensity of use is located just north of the terminal moraine in east-central Morris County and nearby portions of Essex County. The municipalities of Madison, Chatham Borough, Florham Park, Summit, Millburn, Livingston and eastern East Hanover comprise the subregion. The Chatham, Southern Millburn, Northern Millburn, Canoe Brook and Slough Brook Buried Valley Aquifers are within the area.

7) Upper Passaic--There are no major buried valley aquifers known in the Upper Passaic, located upstream (south) of the terminal moraine in Chatham Township, Passaic Township, Harding, Summit, Berkeley Heights, New Providence, Warren Township, Bernards Township, and portions of Mendham and Bernardsville. The subregion relies on ground water from shale and precambrian rocks, and contributes significantly to the base flow of the Passaic River.



(Key on Following Page)

Figure IV-19 Estimated Location of Buried Valley Aquifers, with Well Locations

Source: Adapted from:
Meisler, 1976; Nichols, 1968b; Geraghty and Miller, 1978.

Key to Figure IV-19

(Numbers on map correspond to locations and owners of public supply and industrial wells)

1 Livingston Township Water Department
2 Southeast Morris County Municipal Utilities Authority
3 East Orange Water Department
4 Florham Park Water Department
5 Madison Water Department
6 Chatham Borough Water Department
7 Commonwealth Water Company
8 Industrial Wells[a]
9 East Hanover Water Department
10 Parsippany-Troy Hills Water Department
11 Montville Water Department
12 Essex Fells Water Department
13 Fairfield Water Department

Boundary of Valley-Fill Deposits

Inferred Boundary of Valley-Fill Deposits

Nichols, 1968b- continuation of the buried valley deposits inferred from bedrock topography

Geraghty and Miller, Inc., 1978 - potential recovery of .5 to 1.0 mgd from stratified drift deposits. Should be protected from development until further studies are completed.

A B Cross-Section Area

Passaic River

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[a] Industrial and private well owners are as follows:

Suburban Propane Gas Corporation, Sandoz Incorporated, Wilbur B. Driver Incorporated, Allied Chemical Corporation, Orange Products Incorporated, Exxon Research and Engineering, Morris County Golf Club.
(Note other well owners may exist but are not listed here.)

Source: Meisler, 1976; Nichols, 1968b; Geraghty and Miller, 1978

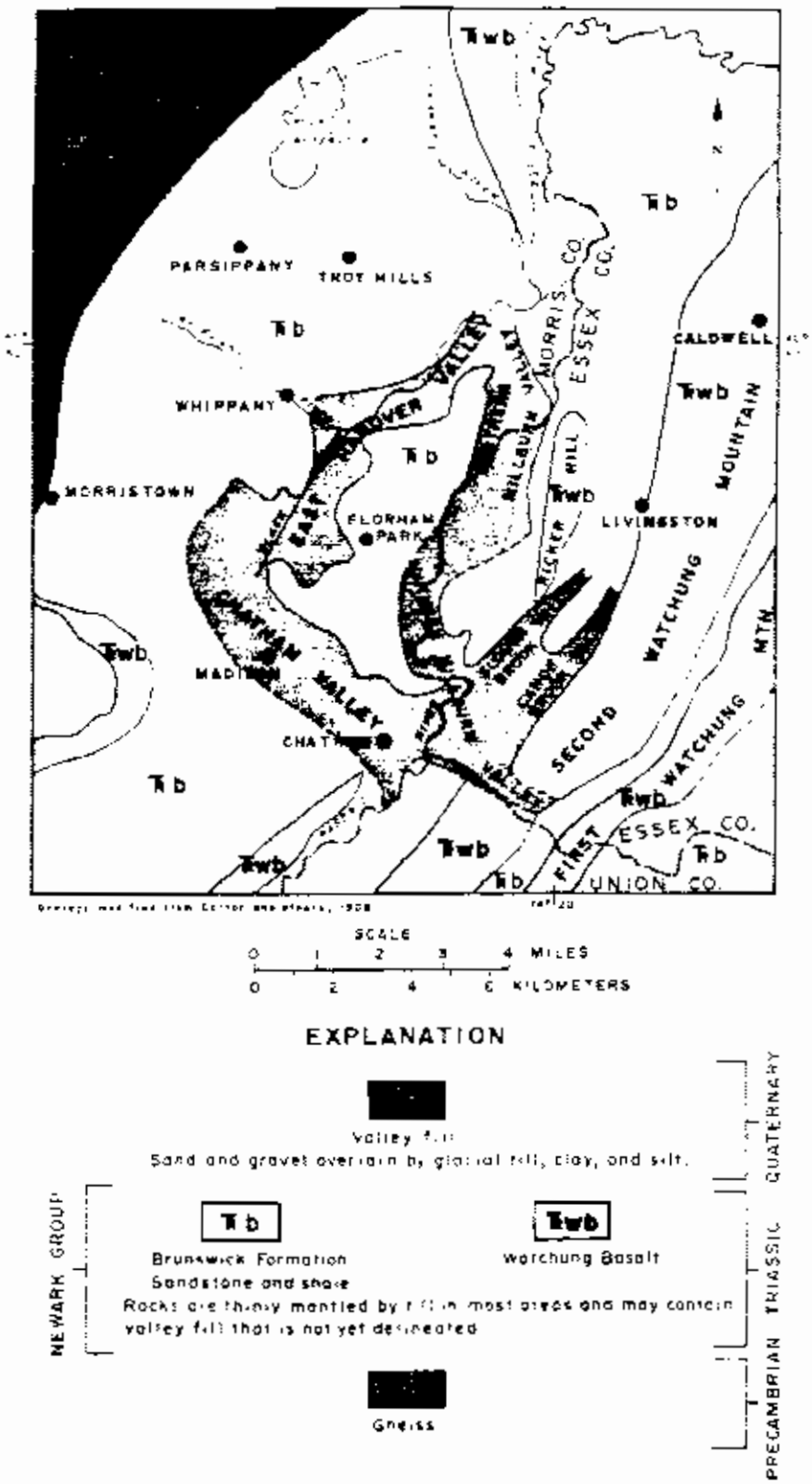


Figure IV-20 Generalized Geologic Map of Southwestern Essex and Southeastern Morris Counties

Source: Meisler, 1976.

TABLE IV-1

AQUIFER TRANSMISSIVITIES IN THE
BURIED VALLEY AQUIFER SYSTEMS

Site or Location	Transmissivity (gpd/ft)	Source
Newark Group	18,750-27,800	Meisler,1976
Buried Valleys - average	125,700	Meisler,1976
Upper Lamington, unconfined	48,450	Well Test
Allied, Morris Twp	12,000	Site Invest.
Airtron, Morris Plains	5,610	Site Invest.
Denville Well 3	40,930	Well Test
Florham Park, Well 4	120,000	Well Test
East Hanover, Well 6	115,000	Well Test
Picatinny Arsenal	25,000-50,000	Site Invest.
Richboynton Rd. Ind. Park, Dover	80,000	Site Invest.
Rockaway Borough Well Field	34,388 avg.	Superfund
Triangle Ind. Park, E. Hanover	High	Site Invest.
Towaco Valley - average	70,000	Geonics,1979b
best	210,000	Geonics,1979b
Dolomite, Alamatong Well 5	14,000	Well Test

TABLE V-2

PUBLIC COMMUNITY AND NONPUBLIC WATER CONSUMPTION BY MUNICIPALITY
BURIED VALLEY AQUIFER SYSTEMS, MORRIS COUNTY MUNICIPALITIES, 1980

Municipality	Total Population	Population Served by Public Supply	Per Capita Water Use	Avg. Water Use (MGD)	Population Served Nonpublic Supply	Avg. Water Use (MGD)
Boonton, Town of	8,620	8,620	132	1.14	---	---
Boonton Township	3,273	398	128	0.05	2,875	0.20
Chatham Borough	8,537	8,537	122	1.04	---	---
Chatham Township	8,883	7,540	81	0.61	1,343	0.09
Denville Township	14,380	12,942	134	1.73	1,438	0.10
Dover, Town of	14,681	14,681	161	2.36	---	---
East Hanover Township	9,319	7,428	148	1.10	1,891	0.13
Florham Park Borough	9,359	9,359	119	1.11	---	---
Hanover Township	11,846	11,846	126	1.49	---	---
Harding Township	3,236	891	127	0.11	2,345	0.16
Jefferson Township	16,413	6,602	58	0.38	9,811	0.69
Kinnelon Township	7,770	3,980	65	0.26	3,790	0.27
Madison Borough	15,357	15,357	124	1.90	---	---
Mendham Borough	4,899	4,899	131	0.64	---	---
Mendham Township	4,488	1,511	86	0.13	2,977	0.21
Mine Hill Township	3,325	1,531	91	0.14	1,794	0.13
Montville Township	14,290	6,291	155	0.98	7,999	0.56
Morris Plains Borough	5,305	5,305	111	0.59	---	---
Morristown, Town of	16,614	16,614	102	1.69	---	---
Morris Township	18,486	15,354	119	1.83	3,132	0.22
Mountain Lakes Borough	4,153	4,153	149	0.62	---	---
Parsippany-Troy Hills Twp	49,868	49,868	112	5.59	---	---
Passaic Township	7,275	6,564	81	0.53	711	0.05

TABLE V-2 (Cont'd)

Municipality	Total Population	Population Served by Public Supply	Per Capita Water Use	Avg. Water Use (MGD)	Population Served Nonpublic Supply	Avg. Water Use (MGD)
Randolph Township	17,828	10,523	116	1.22	7,305	0.51
Rockaway Borough	6,852	6,852	124	0.85	---	---
Rockaway Township	19,850	13,910	89	1.24	5,940	0.42
Roxbury Township	18,878	13,732	89	1.22	5,146	0.36
Victory Gardens Borough	1,043	1,043	161	0.17	---	---
Wharton Borough	5,485	5,485	128	0.70	---	---
	325,306	271,816		31.42	53,490	4.10

Source: Adapted from Killam Associates, 1982. Water Supply Element-Morris County Master Plan, prepared for the Morris County Planning Board.

TABLE V-7 (Cont'd)

	GPM	Formation
Resistoflex Corp. (Crane Corp.)		
# 1	125	Trbs
Whippany-Lower Rockaway Subregion		
East Hanover Township		
# 2	1000	Valley fill
# 5	800	Valley fill
# 6 (allocation applied for)	1000	Valley fill
Mountain Lakes Borough		
# 5 (primary well)	1000	Qsd & rock
# 3 (Denville, backup)	375	
# 4 (Denville, backup)	365	
# 4 (backup)	12	
Parsippany-Troy Hills Township		
# 1A	420	Stratified Drift
# 3	350	Stratified Drift
# 4	225	Stratified Drift
# 4A	900	Stratified Drift
# 7	500	Stratified Drift
# 8-1	300	Stratified Drift
# 8-2	400	Stratified Drift
# 8-3	600	Stratified Drift
# 9	540	Stratified Drift
# 10	500	Stratified Drift
# 11	70	Stratified Drift
# 12	300	Stratified Drift
# 13	425	Stratified Drift
# 14	700	Stratified Drift
# 15	150	Stratified Drift
# 17	700	Stratified Drift
# 18	750	Stratified Drift
Southeast Morris Water Authority		
Shongum	400	Rock
Littleton #1	350	Qsd
Littleton #2	350	Qsd
Wing	1000	Qsd
Todd	1550	Qsd
Black Brook #1	1016	Qsd
Black Brook #2	1400	Qsd
Normandy	400	Qsd
Ledgewood	410	Shale/Sandstone
Turnbull	420	Shale
Sand Spring	650	Shale

Fairfield Township--Fairfield is located almost entirely over stratified drift deposits. Three of its seven wells draw from the stratified drift, while the others penetrate through to bedrock at depths of 200 to 300 feet (the stratified drift wells are 90 to 100 feet in depth). Approximately 4400 people, all in Fairfield, are served by the system. Standby supplies are also available from Passaic Valley Water Commission.

The municipal water system began in the early 1960's, with all wells in place by 1976. Of 2300 households in Fairfield, 1250 are on the system, along with most of the industry. Approximately 100 non-residential wells still are in use along with domestic wells supplying 3600 people. Two municipal wells have been closed due to contamination.

Whippany-Lower Rockaway Subregion

East Hanover Township--East Hanover derives all of its public water supply from two wells in the East Hanover Buried Valley north of Route 10. The two wells penetrate the aquifer to a depth of 115 and 120 feet through glacial outwash deposits. Well 2 (Melanie Lane) has a capacity of 1000 gpm and Well 5 (Homestead Avenue) has a capacity of 800 gpm. A third well (Well 6) in the same buried valley, almost half way between Wells 2 and 5, was drilled and tested in 1985. Well 6 has a similar depth and a yield of between 1200 and 1500 gpm. Wells 1 and 3 are now observation wells for the DEP, and Well 4 was sealed. Well 2 is being treated for contamination by volatile organic compounds.

East Hanover has a diversion allocation of 52.523 MGM for a service population of slightly over 8000 residents and some industries. Several industries (notably Sandoz, JCP&L and Calcugraph) have private wells, as do over 800 homes (20 per cent of the residences).

Mountain Lakes Borough—Mountain Lakes relies entirely on ground water derived from one major well and three backup wells. The main well and one of the backup wells penetrate through stratified drift deposits into bedrock, while the other two backup wells are in the stratified drift deposits. Only the main well (Well 5, at 1000 gpm) exceeds 400 gpm. Mountain Lakes has an allocation of 30 MGM, with 95 per cent of its supply coming from Well 5. The system serves 5,210 people.

Parsippany-Troy Hills Township--Parsippany is the largest single community in Morris County, in terms of population. The water supply is entirely derived from wells located within the municipality. The

Parsippany Water Department provides potable water to approximately 50,000 residents and a variety of office parks and light industries. There are very few private wells remaining, all of which have the option of public water.

The wells are not concentrated in any single field. Two clusters of wells contain a total of 12 wells, with the remaining 5 wells in independent locations. The major well concentration is along Troy Brook west of Route 202 and south of Route 46. Wells 1A, 4, 4A, 9, 10, 17 and 18 all draw from deep stratified drift deposits ranging up to 150 feet in depth below grade. The most productive wells draw from strata at least 60 feet in depth, with Wells 4A (900 gpm), 17 (700 gpm) and 18 (750 gpm) having the largest yields.

Five wells (8A, 8B, 8C, 11 and 13) are located along the western side of Troy Meadows, a large freshwater wetland. Well 11 has a very low yield, due to very fine sediments. It and nearby Well 13 are relatively shallow wells drilled to bedrock in glacial deposits. Wells 8A, 8B and 8C are located within a concentrated area upgradient from the wetlands area and have yields of 300, 400 and 600 gpm respectively. Each of the three draws from stratified deposits at a level of 60 to 80 feet below grade.

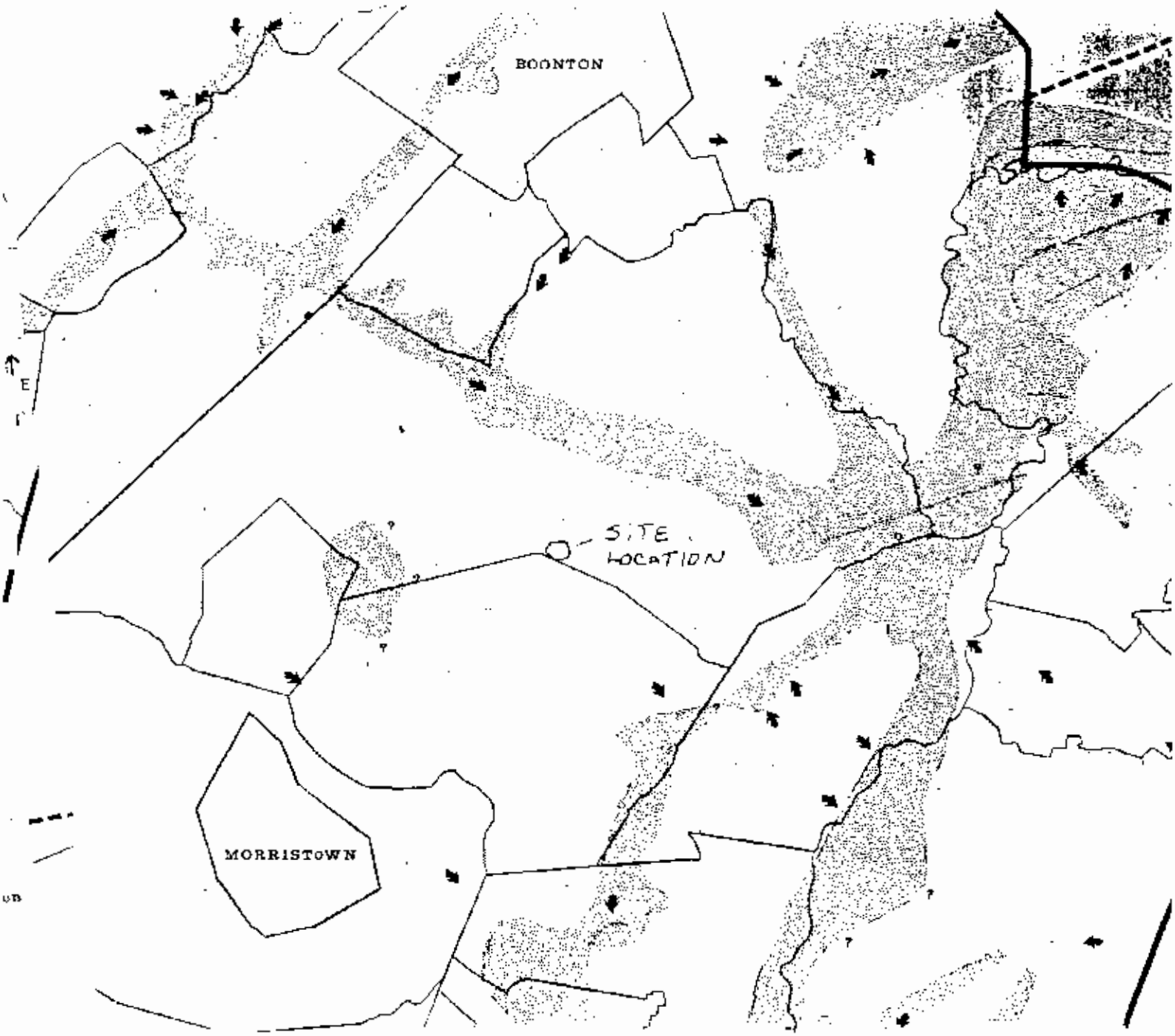
The remaining five wells are Well 3 (southeast of the Jersey City Reservoir), Well 7 (Jefferson Avenue and Halsey Road), Well 12 (Lake Parsippany), Well 14 (in Lee Meadows near Dryden Way) and Well 15 (North Beverwyck Road and Route 46). Of these, Well 14 is the best producer with a pumping capacity of 700 gpm. All five of the wells draw from stratified glacial deposits. None of Parsippany's wells are drilled into the bedrock.

Parsippany is drilling additional wells in locations identified through hydrogeological studies. Two of these have been drilling in the Troy Brook Buried Valley east of Interstate 287, one near Mazdabrook Road and the other near Forge Pond.

Southeast Morris County Municipal Utilities Authority--The SMCMUA (formerly the Morristown Water Department) owns and operates a small reservoir (Clyde Potts, in Mendham Township in the Whippany River watershed) and 11 wells in Morristown, Morris Plains and Hanover. The SMCMUA supplies water to Morristown, Morris Township, Morris Plains, Hanover and Mendham Township and Harding, primarily, with small supplies to parts of Florham Park, Harding, Chatham Township and Parsippany-Troy Hills. The total service population includes approximately 60,000

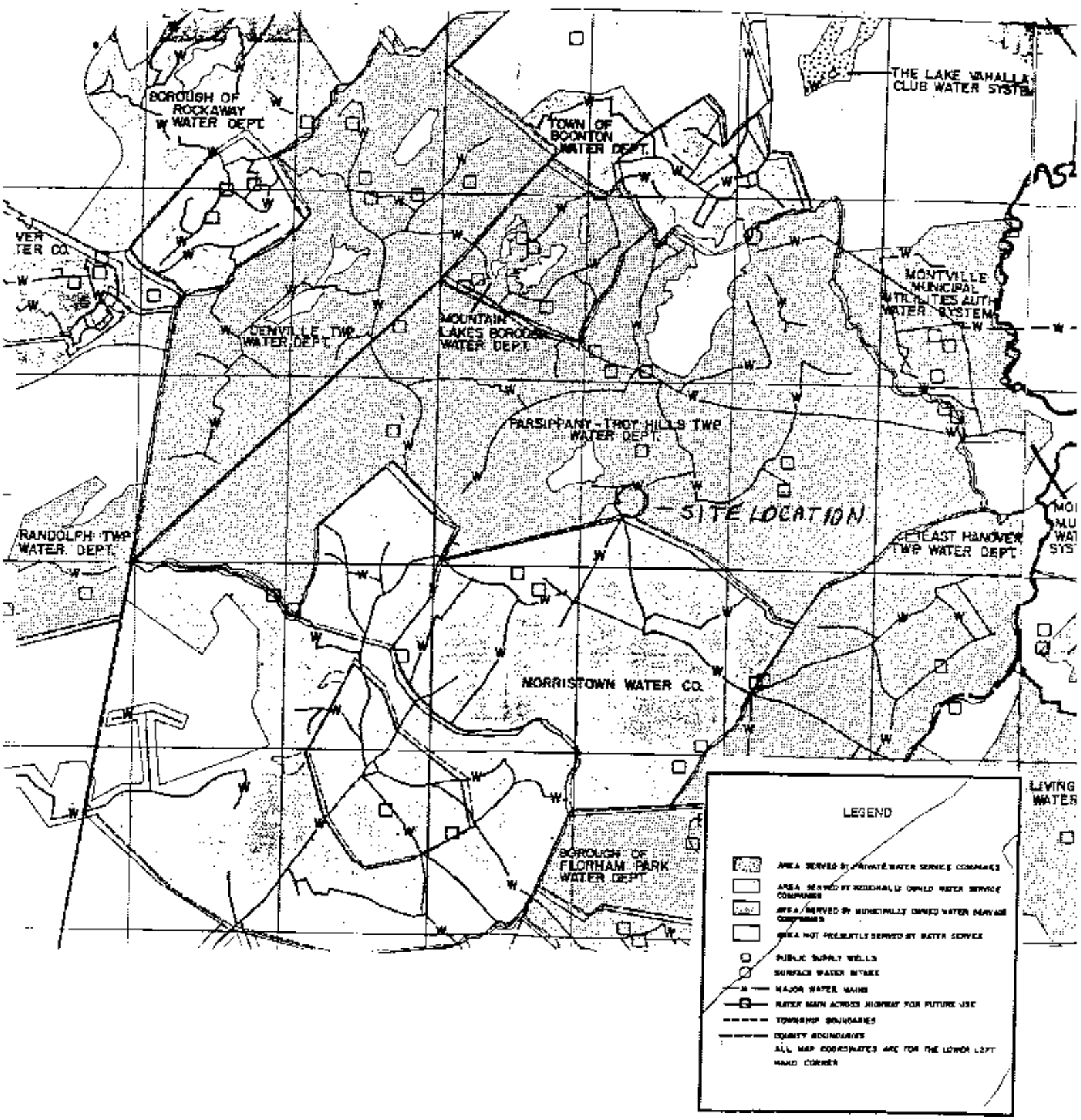
THE BURIED VALLEY AQUIFER SYSTEMS

FIGURE G-5. REGIONAL GROUND WATER FLOW
(Partly Conjectural)



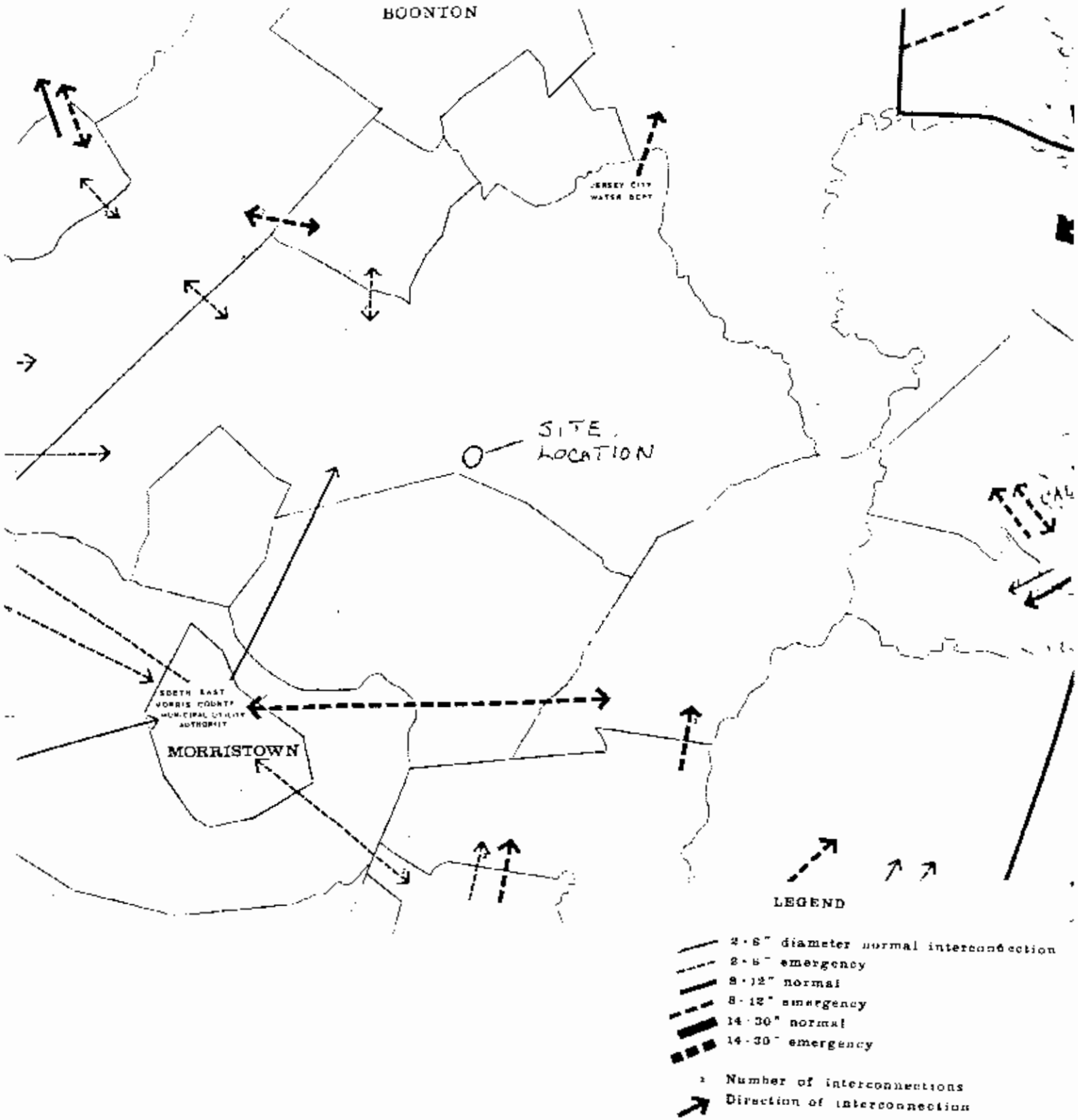
THE BURIED VALLEY AQUIFER SYSTEMS

FIGURE G-7. WATER PURVEYOR SERVICE AREAS, 1976



THE BURIED VALLEY AQUIFER SYSTEM

FIGURE G-10. WATER SUPPLY INTERCONNECTIONS



REFERENCE NO. 10

ENVIRONMENTAL PROTECTION AGENCY

[FR 1417-4]

Aquifers Underlying Western Essex and Southeastern Morris Counties, N.J.; Determination

Notice is hereby given that pursuant to Section 1424(e) of the Safe Drinking Water Act (42 U.S.C. 300f, 300h-3(e); 88 Stat. 1660 et seq., P.L. 93-523) the Administrator of the Environmental Protection Agency has determined that the buried valley and bedrock aquifer system underlying the Central Basin of the Passaic River in western Essex and southeastern Morris Counties, New Jersey, is the principal source of drinking water for these counties and that, if the aquifer system were contaminated, it would create a significant hazard to public health.

Background

The Safe Drinking Water Act was enacted on December 16, 1974. Section 1424(e) of the Act states:

If the Administrator determines, on his initiative or upon petition, that an area has aquifer which is the sole or principal drink water source for the area and which, if contaminated, would create a significant hazard to public health, he shall publish notice of the determination in the Federal Register. After the publication of any notice no commitment for Federal financial assistance (through a grant, contract, loan guarantee, or otherwise) may be entered into for any project which the Administrator determines may contaminate such aquifer through a recharge zone so as to create a significant hazard to public health but a commitment for Federal financial assistance may, if authorized under another provision of law, be entered into to plan or design the project to assure that it will not so contaminate the aquifer.

On January 15, 1979 the City of East Orange, N.J. and Passaic River Coalition, Basking Ridge, N.J. petitioned and Administrator to designate the aquifer system underlying western Essex and southeastern Morris Counties, New Jersey, as a sole source aquifer under the provisions of the Act. A notice of receipt of this petition, together with a request for comments was published in the Federal Register March 29, 1979, 44 FR 18732. In response to the Notice and request for comments, written comments were received from both the public and private sectors. On May 23, 1979, the Environmental Protection Agency (EPA) held a public hearing in Roseland, N.J. to hear the views of persons interested in the Buried Valley System issue.

On the basis of the information which is available to this Agency the Administrator has made the following findings, which are the basis for the determination noted above:

(1) The Buried Valley Aquifer System is the sole or principal source of drinking water for approximately 600,000 people in western Essex and southeastern Morris Counties, New Jersey. In 1978, the system supplied approximately 42 million Gallons per Day (MGD) water. Current water supply treatment practice for public supplies is generally limited to disinfection for drinking purposes; with some plants capable of manganese removal. There is no alternative source of drinking water supply which could economically replace this aquifer system if it were contaminated.

(2) The Buried Valley Aquifer System is vulnerable to contamination through its recharge zone, particularly from septic tanks and, to a lesser extent, from leaching of discharges to streams and rivers in the recharge and streamflow source zones. Since ground water contamination can be difficult or impossible to reverse, and because this

aquifer is relied upon for drinking purposes by many people, contamination of the aquifer would pose a significant hazard to public health.

Section 1424(e) of the Act requires that a Federal agency may not commit funds to a project which may contaminate the aquifer system through a recharge or streamflow source zone so as to create a significant hazard to public health. The recharge zone is that area through which water enters into the aquifer system.

The area in which projects may be reviewed is the area encompassed by: (1) The boundary of the Buried Valley Aquifer Systems, and (2) its streamflow source zones.

The Buried Valley Aquifer System is the principal source of drinking water in southeastern Morris and western Essex Counties, New Jersey. The surface boundary of the aquifer's recharge zone is identical with the boundary of the aquifer.

The recharge zone is defined by the outside boundary of the following municipalities: On the south—Bernards Township and Warren Township, on the east—Berkeley Heights, New Providence, Summit Millburn, Livingston Township, Roseland, Essex Falls, Caldwell, West Caldwell and North Caldwell, on the north—Fairfield, and Montville, on the west—Parsippany-Troy Hills, Morris Township and Harding Township. Included within these perimeter communities are also the following: Passaic Township, Chatham, Chatham Township, Madison, Florham Park, Morristown, Hanover, East Hanover and Morris Plains.

The stream flow source zone of the aquifer system lies within the boundaries of the Rockaway River Sub-Basin, which, in turn, is part of the Passaic River Basin. This zone includes those portions of the sub-basin which ultimately drain to the recharge zone. This area encompasses all or part of the following municipalities: Bernardsville, Boonton Town, Boonton Township, Denville, Dover, Jefferson, Kinnelon, Lincoln Park, Mendham Borough, Mendham Township, Mine Hill, Mountain Lakes, Mount Arlington, Randolph, Rockaway Borough, Rockaway Township, Roxbury Sparta, Victory Gardens and Wharton.

The information utilized in this determination includes: The petition, written and verbal comments submitted by the public, a detailed map of the area and independent analyses by EPA. All this information is available to the public and may be inspected during normal business hours at the office of the Environmental Protection Agency, Region II, Water Supply Branch, 26 Federal Plaza, Room 29–130, New York, N.Y. 10007.

A copy of the above documentation is also available at the U.S. Environmental Protection Agency, Waterside Mall, Public Information and Reference Unit, Room 2922, 401 M Street SW., Washington, D.C. 20460.

EPA proposed national regulations for implementing Section 1424(e) of the Safe Drinking Water Act on September 29, 1977, 42 FR 51574. The proposed regulations contain procedures for review of Federal financially assisted projects which may contaminate aquifer systems designated as "sole or principal source" aquifers through the recharge zone so as to create a significant hazard to public health. Until their final promulgation, these regulations will be used as interim guidance for implementing a sole source program under Section 1424(e). Questions and comments concerning the possible effect of the regulations on federally assisted projects in the Buried Valley Aquifer System area should be directed to Region II, Environmental Protection Agency, Attn: Harry F. Smith, Jr., P.E., Chief, Water Supply Branch, U.S. Environmental Protection Agency, 26 Federal Plaza, New York, N.Y. 10007.

EPA, Region II, is working with the Federal agencies which intend, or may intend to fund projects in the area of concern to develop procedures for notifying EPA projects in the area which might contaminate the aquifer. EPA will evaluate such projects and, where necessary, will conduct an in-depth review, including soliciting public comments where appropriate. More stringent review criteria will be applied to those projects that have a greater potential for contaminating the aquifer, such as those located in the recharge zone.

Although the project review process cannot be delegated, the Regional Administration in Region II will rely to the maximum extent possible upon and existing or future State and local control mechanisms in protecting the southeastern Morris and western Essex Counties, New Jersey. Included in the review of any Federal financially assisted project will be coordination with the State and local agencies. Their determinations will be given full consideration and the Federal review process will function so as to complement and support State and local protection programs.

Dated: May 2, 1980.

Douglas M. Costle,

Administrator.

[FR Doc. 80-14212 Filed 5-7-80; 8:45 am]

BILLING CODE 6560-01-M

REFERENCE NO. 11

Uncontrolled Hazardous Waste Site Ranking System

A Users Manual

(HW-10)

Originally Published in
the July 16, 1982, *Federal Register*

United States
Environmental Protection
Agency

1984

TABLE 2

PERMEABILITY OF GEOLOGIC MATERIALS*

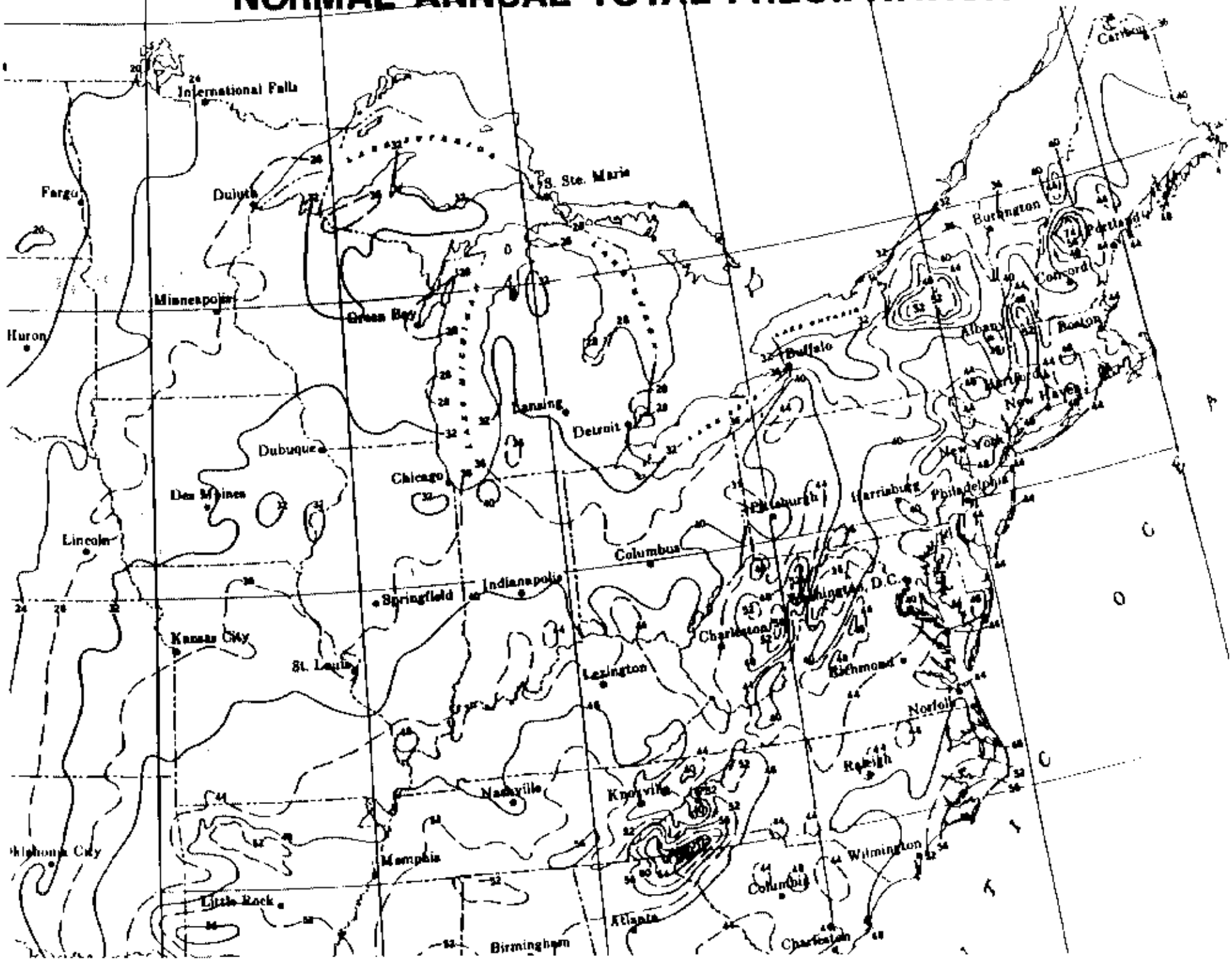
Type of Material	Approximate Range of Hydraulic Conductivity	Assigned Value
Clay, compact till, shale; unfractured metamorphic and igneous rocks	$<10^{-7}$ cm/sec	0
Silt, loess, silty clays, silty loams, clay loams; less permeable limestone, dolomites, and sandstone; moderately permeable till	$10^{-5} - 10^{-7}$ cm/sec	1
Fine sand and silty sand; sandy loams; loamy sands; moderately permeable limestone, dolomites, and sandstone (no karst); moderately fractured igneous and metamorphic rocks, some coarse till	$10^{-3} - 10^{-5}$ cm/sec	2
Gravel, sand; highly fractured igneous and metamorphic rocks; permeable basalt and lavas; karst limestone and dolomite	$>10^{-3}$ cm/sec	3

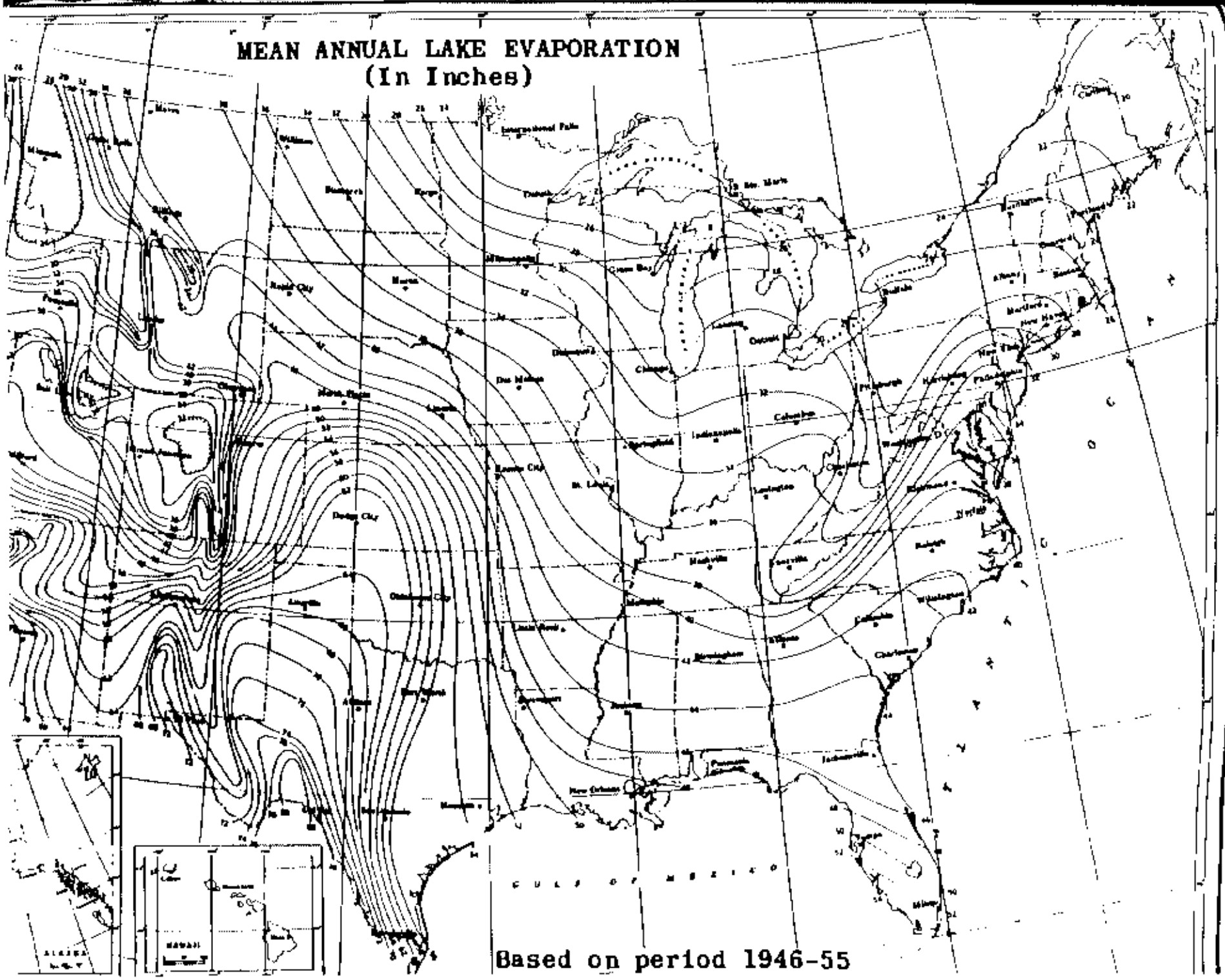
*Derived from:

Davis, S. N., Porosity and Permeability of Natural Materials in Flow-Through Porous Media, R.J.M. DeWest ed., Academic Press, New York, 1969

Freeze, R.A. and J.A. Cherry, Groundwater, Prentice-Hall, Inc., New York, 1979

NORMAL ANNUAL TOTAL PRECIPITATION (Inches)




MEAN ANNUAL LAKE EVAPORATION
(In Inches)
GULF OF MEXICO
Based on period 1946-55

1 YEAR 24-HOUR RAINFALL (inches)

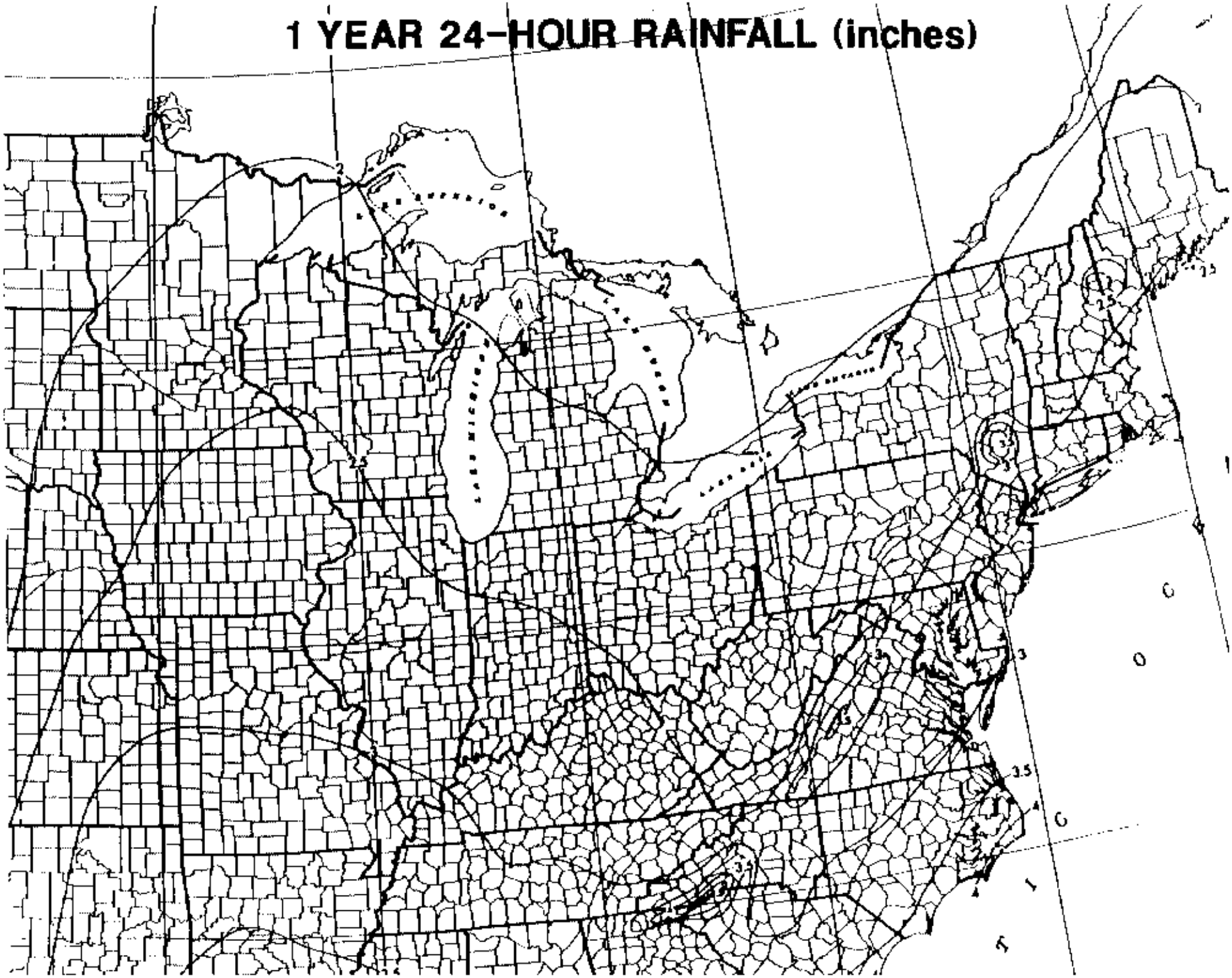


TABLE 4
WASTE CHARACTERISTICS VALUES FOR SOME COMMON CHEMICALS

CHEMICAL/COMPOUND	TOXICITY [1]	PERSISTENCE [2]	FLAMMABILITY [3]	REACTIVITY [3]
Acetaldehyde	3	0	3	3
Acetic Acid	3	0	2	1
Acetone	2	0	3	0
Aldrin	3	3	1	0
Ammonia, Anhydrous	3	0	1	0
Aniline	3	1	2	0
Benzene	3	1	3	0
Carbon Tetrachloride	3	3	0	0
Chlordane	3	3	0[a]	0[a]
Chlorobenzene	2	2	2	0
Chloroform	3	3	0	0
Cresol-O	3	1	2	0
Cresol-M&P	3	1	1	0
Cyclohexane	2	2	3	0
DDT[a]	3	3	1	0
Ethyl Benzene	2	1	3	0
Formaldehyde	3	0	2	0
Formic Acid	3	0	2	0
Hydrochloric Acid	3	0	0	0
Isopropyl Ether	3	1	3	1
Lindane	3	3	1	0
Methane	1	1	3	0
Methyl Ethyl Ketone	2	0	3	0
Methyl Parathion in Xylene Solution	3	0[4]	3	3
Naphthalene	2	1	2	0
Nitric Acid	3	0	0	0
Parathion	3	0[4]	1	3
PCB	3	3	0[4]	0[4]
Petroleum, Kerosene (Fuel Oil No. 1)	3	1	2	0
Phenol	3	1	2	0
Sulfuric Acid	3	0	0	1
Toluene	2	1	3	0
Trichlorobenzene	2	3	1	0
α-Trichloroethane	2	2	1	0
Xylene	2	1	3	0

[1] Sax, N. I., Dangerous Properties of Industrial Materials, Van Nostrand Reinhold Co., New York, 4th ed., 1975. The highest rating listed under each chemical is used.

[2] JRB Associates, Inc., Methodology for Rating the Hazard Potential of Waste Disposal Sites, May 5, 1980.

[3] National Fire Protection Association, National Fire Codes, Vol. 13, No. 49, 1977.

[4] Professional judgment based on information contained in the U.S. Coast Guard CHRIS Hazardous Chemical Data, 1978.

[a] Professional judgment based on existing literature.

REFERENCE NO. 12

GSC-TR8645

GRAPHICAL EXPOSURE MODELING SYSTEM

(GEMS)

USER'S GUIDE

VOLUME 2. MODELING

Prepared for:

U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF PESTICIDES AND TOXIC SUBSTANCES
EXPOSURE EVALUATION DIVISION
Task No. 3-2
Contract No. 68023970
Project Officer: Russell Kinerson
Task Manager: Loren Hall

Prepared by:

GENERAL SCIENCES CORPORATION
8401 Corporate Drive
Landover, Maryland 20785

Submitted: December 1, 1986

GEMS> I

METEM CORPORATION
LATITUDE 40:50:43 LONGITUDE 74:25:33 1980 POPULATION

KM	0.00-.400	.400-.810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6.40	SECTOR TOTALS
S 1	30*	913	1531	15820	23095	40418	81777
RING TOTALS	0	913	1531	15820	23095	40418	81777

GEMS> I

METEM CORPORATION
LATITUDE 40:50:43 LONGITUDE 74:25:33 1980 HOUSING

KM	0.00-.400	.400-.810	.810-1.60	1.60-3.20	3.20-4.80	4.80-6.40	SECTOR TOTALS
S 1	8*	271	455	4901	7823	13933	27383
RING TOTALS	0	271	455	4901	7823	13933	27383

Dist	Population	Housing
1/4	30	8
1/2	943	279
1	2474	734
2	18294	5635
3	41389	13458
4	81807	27391

* House count from U.S. Department of the Interior, U.S. Geologic Survey Topographic Map, 7.5 minute series: "Morristown Quadrangle, New Jersey", 1954, photo revised 1981. Conversion to population assuming 3.8 people per house.

REFERENCE NO. 13

PRELIMINARY ASSESSMENT
OFF SITE RECONNAISSANCE
INFORMATION REPORTING FORM

Date: 4/4/89

Site Name: McTem Corporation TDD: 02-8903-09

Site Address: 700 Parsippany Rd.
Street, Box, etc.

Parsippany
Town

Morris
County

New Jersey
State

NUS Personnel:

Name	Discipline
Paul Bauer	Environmental Scientist
Gerald Hanway	Biologist
Sue Anderson	Environmental Scientist

Weather Conditions (clear, cloudy, rain, snow, etc.):

cloudy, Drizzle

Estimated wind direction and wind speed: wind from North

Estimated temperature: 50°

Signature: Paul Bauer Date: 4/4/89

Countersigned: Gerald J. Hanway Date: 4/5/89

PRELIMINARY ASSESSMENT

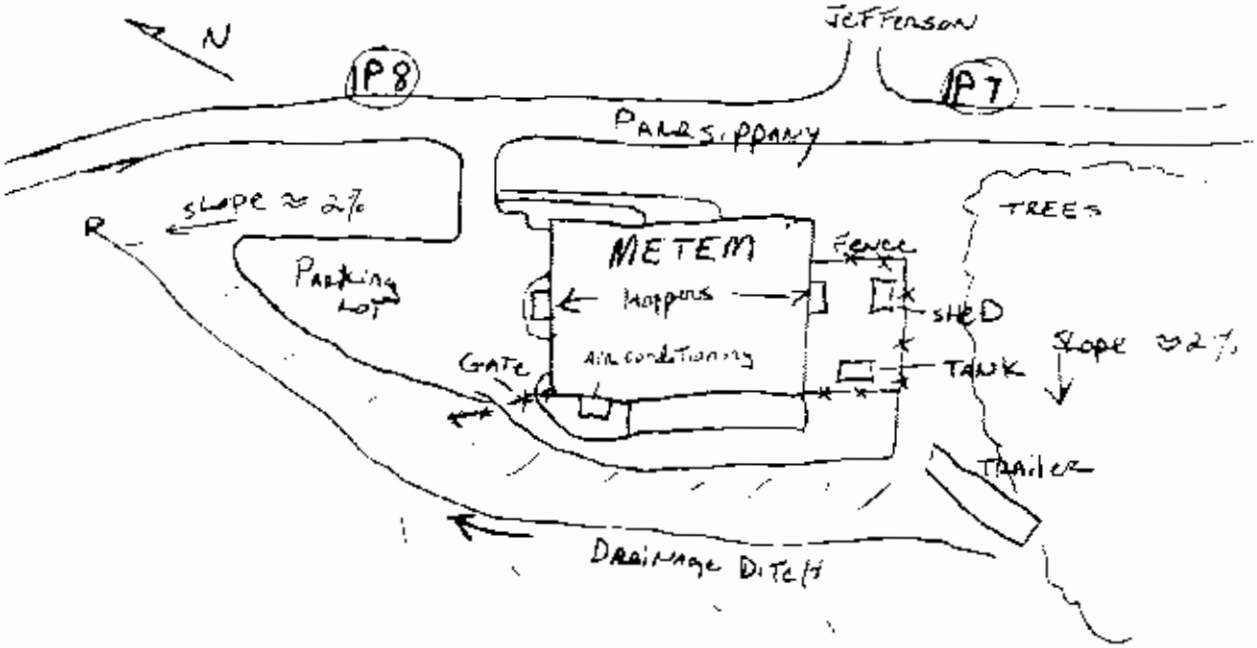
INFORMATION REPORTING FORM

Date: 4/4/89

Site Name: METEM CORPORATION TDD: 02-8903-09

Site Sketch:

Indicate relative landmark locations (streets, buildings, streams, etc.). Provide locations from which photos are taken.



Signature: Paul Bauer Date: 4/4/89

Countersigned: Gerald J. Hannay Date: 4/5/87

PRELIMINARY ASSESSMENT

INFORMATION REPORTING FORM

Date: 4/4/89

Site Name: Metem Corporation TDD: 02-8903-09

Notes (Periodically indicate time of entries in military time):

Metem Corporation is a one story, active facility. Side facing Parsippany Rd (front) is landscaped. No fence around property. Chain link fence encloses paved area on south side of building. Shed & large white tank inside enclosure. Front area is level, right side (parking lot) and rear gently sloping away from building toward drainage ditch. Bounded by a road, wooded area, and two commercial facilities. No observed damage to flora and fauna. Arrived at site at 10:45 hrs. The drainage ditch travels about 600 feet north down a slope of approximately 3 percent and empties into Eastman's Brook. Eastman's Brook is very small - it would probably be too small for any use, including fishing.

Signature: [signature] Date: 4/4/89

Countersignature: Gerald J. Hannon Date: 4/5/89

PRELIMINARY ASSESSMENT

INFORMATION REPORTING FORM

Date: 4/4/89

Site Name: Metem Corporation TDD: 02-8903-09

Notes (Cont'd):

Attach additional sheets if necessary. Provide site name, TDD number, signature, and countersignature on each.

Signature: Paul Bauer Date: 4/4/89

Countersignature: Gerald A. Hanning Date: 4/5/89

PRELIMINARY ASSESSMENT

INFORMATION REPORTING FORM

Date: 4/4/89

Site Name: Metem Corporation TDD: 02-8903-09

Photolog:

Frame/Photo Number	Date	Time	Photographer	Description
1P 7	4/4/89	10:48	Paul Bauer	South side of Building showing fenced in shed and the
1P 8	4/4/89	10:56	Paul Bauer	North side of Building and parking lot
1P 9	4/4/89	11:07	Paul Bauer	West side of Bldg showing back of facility.

Attach additional sheets if necessary. Provide site name, TDD number, signature, and countersignature on each.

Signature: Paul Bauer Date: 4/4/89

Countersignature: Harold J. Hanway Date: 4/5/89

REFERENCE NO. 14

Surface Water Classifications

Surface Water Quality Standards
N.J.A.C. 7:9-4

Index D-

Surface Water Classifications of the Passaic, Hackensack and N.Y. Harbor Complex Basin

July 1985

State of New Jersey Department of Environmental Protection/Division of Water Resources

6. All waterways or waterbodies, or portions of waterways and waterbodies that are classified as PL only for those portions that are located within the boundaries of the Pinelands Area are classified as PL unless they are listed as FW1 waters in Index A. A tributary entering a PL stream is classified as PL only for those portions of the tributary that are within the Pinelands Area. Lakes are classified as PL only if they are located entirely within the Pinelands Area.

CLASSIFICATIONS:

FW1
FW2-TP -- FW2 Trout Production
FW2-TM -- FW2 Trout Maintenance
FW2-NT -- FW2 Non Trout
PL -- Pinelands Waters
SE1
SE2
SE3
SC
FW2-NT/SE1 (or similar designation) -- Indicates a waterway in which there may be a salt water/fresh water interface. The exact point of demarcation between the fresh and saline waters must be determined by salinity measurements and is that point where the salinity reaches 3.5 parts per thousand at mean high tide. The stream is classified as FW2-NT in the fresh portions (salinity less than or equal to 3.5 parts per thousand at mean high tide) and SE1 in the saline portions.

DESIGNATIONS:

(C1) -- Category 1 waters
[tp] -- Indicates trout production in waters which are classified as FW1; this is for information only and does not affect the water quality criteria for any stream
[tm] -- Indicates trout maintenance in waters which are classified as PL or FW1. For FW1 this is for information only and does not affect the water quality criteria for any stream.

(Linden) - Penn. Railroad bridge to Route 1&9 crossing	SE2
(Carteret) - Route 1-9 crossing to mouth	SE3
RAMAPO LAKE (Ramapo) - Lake and all outlet streams and tributaries within the boundaries of Ramapo Mtn. State Forest	FW2-NT(C1)
RAMAPO RIVER (Oakland) - State line to Pompton River	FW2-NT
RINGWOOD CREEK	
(Ringwood) - Entire length, except segment described below	FW2-TM
(Sloatsburg) - Creek within Ringwood State Park	FW2-TM(C1)
RINGWOOD MILL POND (Ringwood)	FW2-NT(C1)
ROCKAWAY RIVER	
(Dover) - Source to Passaic River, excluding the Jersey City Reservoir and the segment described below	FW2-NT
(Berkshire Valley) - That segment within the boundaries of the Berkshire Valley Wildlife Management Area	FW2-NT(C1)
RUSSIA BROOK	
(Sparta) - Source to Lake Hartung dam	FW2-NT
(Milton) - Lake Hartung dam to, but not including, Lake Swannanoa	FW2-TM
SADDLE RIVER	
(Upper Saddle River) - State line to Bergen County Rt. 2 bridge	FW2-TP(C1)
(Saddle River) - Bergen County Rt. 2 bridge to Allendale Rd. bridge	FW2-TM
(Lodi) - Allendale Rd. bridge to Passaic River	FW2-NT/SE3
SAWMILL CREEK (Pompton Plains) - Entire length	FW2-NT
SHEPPARD LAKE (Ringwood)	FW2-TM(C1)
SINGAC BROOK - See PREAKNESS BROOK	
SLOUGH BROOK (Livingston) - Entire length	FW2-NT
SMITH CREEK - Entire length	FW2-NT/SE2
SPLIT ROCK RESERVOIR (Rockaway)	FW2-TM
SPLIT ROCK RESERVOIR TRIBUTARIES (Farny State Park) - Three tributaries within Farny State Park	FW2-NT(C1)
SPRING GARDEN BROOK (Florham) - Entire length	FW2-NT
STAG [CLOVE] BROOK (Mahwah) - Entire length	FW2-TP(C1)
STEPHENS BROOK	
(Roxbury) - Entire length, except segment described separately, below	FW2-NT
(Berkshire Valley) - That segment north of the boundaries of the Berkshire Valley Tract	FW1
STONE HOUSE BROOK (Kinnelon) - Entire length	FW2-NT
STONY BROOK (Boonton) - Entire length	FW2-NT
SUPRISE LAKE (Hewitt)	FW1
SWAN POND (Ringwood)	FW2-NT(C1)
TENAKILL BROOK (Demarest) - Entire length	FW2-NT
TERRACE POND (Wawayanda)	FW2-NT(C1)
TIMBER BROOK (Charlotteburg) - Headwater segment of tributary to Timber Brook within Farny State Park	FW2-TM(C1)
→ TROY BROOK (Troy Hills) - Entire length	FW2-NT
WANAQUE RESERVOIR	FW2-TM

REFERENCE NO. 15

40074-A1-EI-250

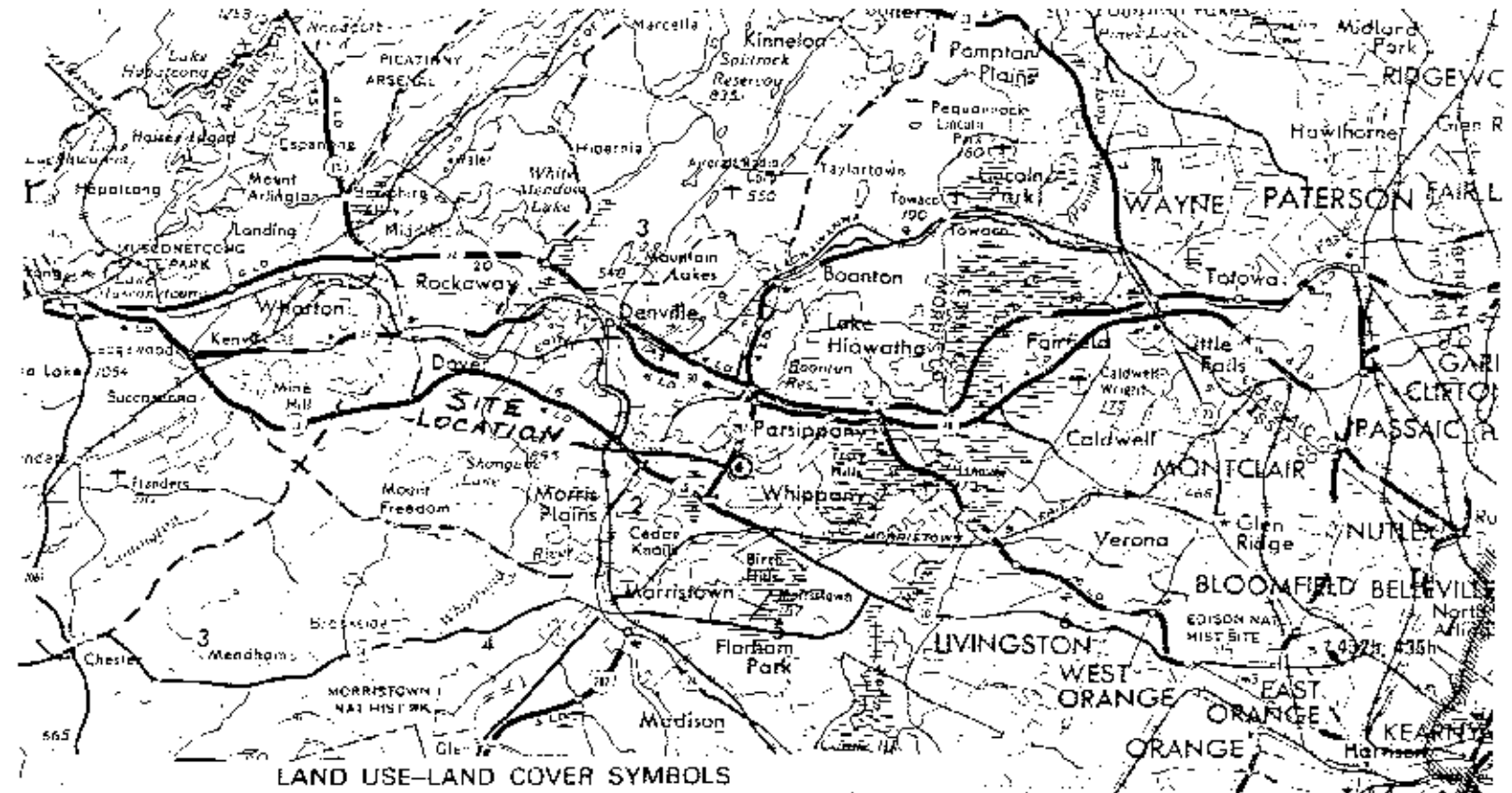
Newark

N. J.—N. Y.—PA.

1:250 000-scale map of

Atlantic Coast Ecological Inventory

Produced by
U. S. FISH AND WILDLIFE SERVICE
1980



LAND USE–LAND COVER SYMBOLS

- Coastal zone boundary to three-mile limit
- Special land use areas, including refuges and wildlife management areas, parks and preserves, may be used in lieu of habitat boundary
- Subdivision of a special land use area into more than one designation
- Swamp
- Marsh
- Beach/Dunes
- Seagrass
- Reef

POINT AND AREA FEATURE SYMBOLS

(shown in RED for species with special status; shown in BLUE for aquatic organisms; and shown in BROWN for terrestrial organisms)

- Localized concentration of species
- General habitat boundary for indicated species, may be superceded by special land use boundary

ATLANTIC COAST ECOLOGICAL INVENTORY

NEWARK, N. J.–N. Y.–PA.

1980

Scale 1:250,000

5 0 5 10 15 20 Statute Miles

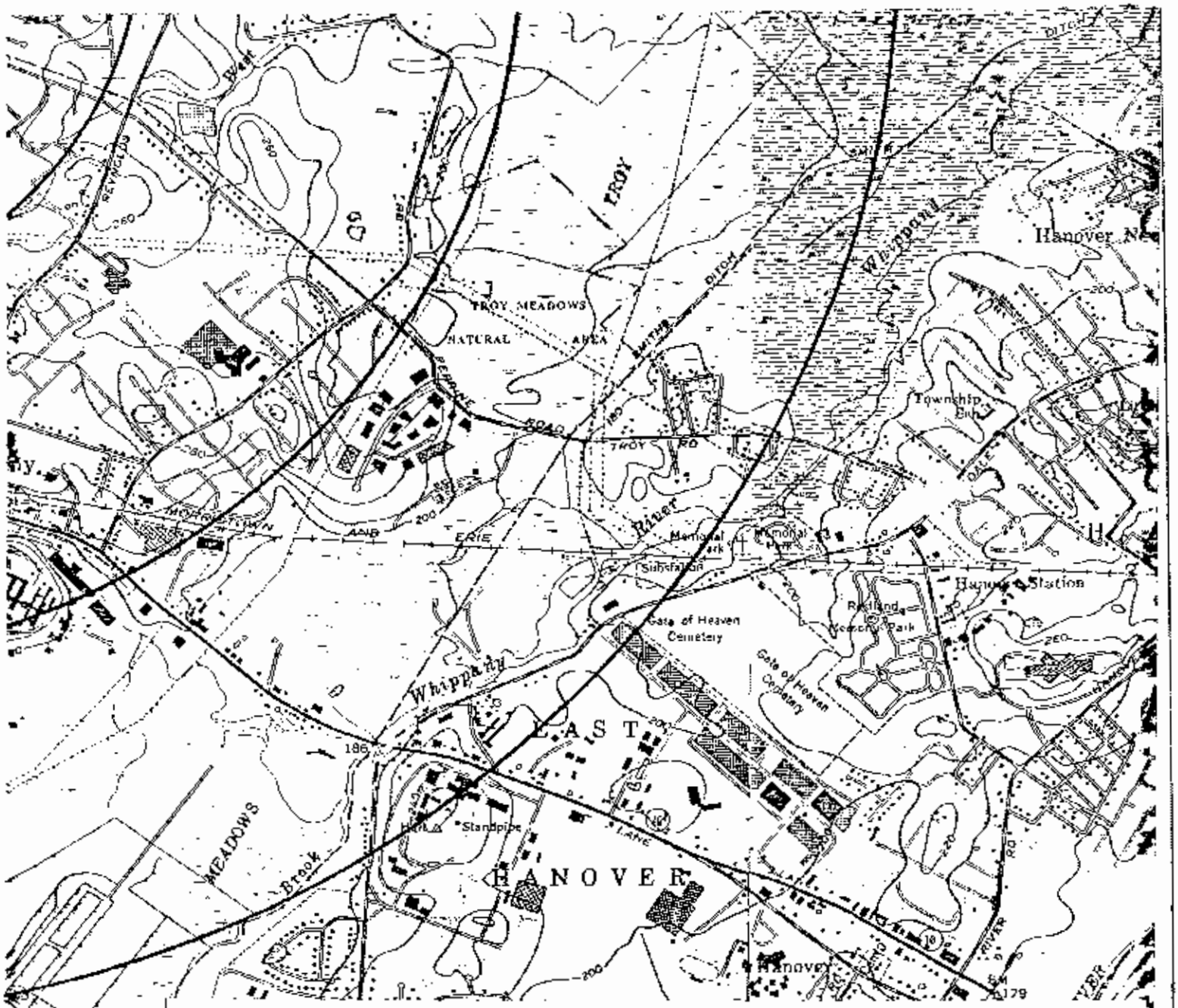
5 0 5 10 15 20 25 30 Kilometers

5 0 5 10 15 Nautical Miles

TRANSVERSE MERCATOR PROJECTION

BLACK NUMBERED LINES INDICATE THE 10 000 METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 18

REFERENCE NO. 16



NUS CORPORATION	TITLE: THREE MILE VICINITY MAP	
	SITE: METEM CORPORATION, PARSIPPANY, N.J.	
DATE: 4/6/89		
TDD: 02-8903-09		
QUAD: MORRISTOWN, N.J.	FIGURE NUMBER:	SCALE: 1" = 2000'

REFERENCE NO. 17

NUS CORPORATION

TELECON NOTE

CONTROL NO:	DATE:	TIME:
	4/11/89	10:37

DISTRIBUTION:

BETWEEN:	OF:	PHONE:
Mr. Raymond Zabihach	Morris County Open Space Commission	(609) 285-1667

AND:

Paul Bauer (NUS)

DISCUSSION:

Mr. Zabihach told me that Troy Brook was too small be used for any purposes - even recreation. He also said that Troy Meadows, the wetland area that Troy Brook passes thru was not used for any purposes that he was aware of.

Paul Bauer

ACTION ITEMS:

NUS 067 REVISED 0581

Confidential (Non-CBI) Document Substitution Page

EPA ID No.: .....NJD 002 139 244

Facility Name: Metem Corp.

Document Date: 5/12/89

Document Category ...

Document Description: Preliminary Assessment

Page(s) Number: ....Last page #

Document Location Information.....15th Floor. File Room .Confidential Cabinet

LYNN R. GOLDTHWAITE
Attorney at Law

99 Cherry Hill Road
Suite 308
Parsippany, NJ 07054
201-402-5252
fax 201-263-1048

U.S. E.P.A.
92 DEC 4 PM 1:16
HAZ. WASTE COMP. BR.

December 2, 1992

George C. Meyer, P.E., Chief
Hazardous Waste Compliance Branch
U.S.E.P.A.
Region II
Jacob K. Javits Federal Building
New York, New York 10278

RE: METEM CORPORATION
EPA I.D. No. NJD002139244

Dear Mr. Meyer:

I represent Metem Corporation as legal counsel. This letter is in response to the letter that you sent to Metem Corporation, dated November 12, 1992.

In your letter, you raised a concern regarding Metem's record keeping under section 3007 of RCRA, 42 U.S.C. Section 6927. Specifically, EPA is concerned with the adequacy of Metem's record keeping as provided by 40 C.F.R. Section 268. Apparently, an EPA inspection conducted on July 15, 1992 revealed a possible problem. Your letter concluded by requesting a response from Metem within thirty (30) days of receipt of your letter, said response to include the measures taken by Metem to remedy this situation. Please consider this letter as Metem's response.

I have met with Metem staff to evaluate this situation. During this meeting, the apparent cause of EPA's concern was discovered.

Metem has kept its RCRA waste stream documentation in two separate departments. Waste manifests have been maintained in the Facilities Management Department, while some supporting documentation has been maintained in the Purchasing Department. Metem staff informed me that in the past, this storage procedure has been acceptable to the various environmental inspectors who have visited the plant.

Apparently, the EPA investigator was only shown to the Facilities Management Department during the July inspection. This seems to have been the cause of EPA's concern of inadequate record keeping.

I have reviewed Metem's RCRA records and they appear to be complete, albeit stored in two locations. To remedy this situation, I am working with Metem staff (specifically, Mr. John Lipyanek of Facilities Management) to develop an improved RCRA record depository. Further, Metem staff is developing an effective procedure to make sure that this situation does not arise again. I have also been in touch with the environmental consulting firm of Dames & Moore, for possible assistance in this matter.

I attempted to reach Mr. Ton Moy via telephone to discuss this matter on December 1, 1992, but was informed that Mr. Moy was on vacation.

Metem Corporation is very concerned with its environmental responsibilities. The company has an excellent record of compliance with environmental regulations and further has taken initiatives to greatly reduce its waste stream. Please feel free to contact me if you have any further questions or needs.

Sincerely,

Lynn R. Goldthwaite

LYNN R. GOLDTHWAITE, ESQ.

cc: Stephen C. Chen
John Lipyanek

James Hamilton, Assistant Director
Office of Enforcement Policy
N.J. Department of Environmental Protection & Energy

Facility: Metem Corp.	Loc: Parsippany	SIC: 3511
ID: NJD 002139241	Insp Date: 7/15/92.	Revw Date: 8-21/92.
Fac Pers: Ismael Yepes.	Region: N.	Revw: KLINIC
Title: Facil Mgr.	Insp: Fairbanks	Notif Date:
Tel#: (201) 887-6635	Insp Type:	Stat: File NOV 3007
Stat: Gen Trans TSD	State Act: Ø	Initiatve:
Recv TSDF:	Refer:	Oth Prog:
Vol/Mo:	Treat Units:	Comm Date: 1908
GW Wells: Ø	Stor Units: tanks.	$ Info: 18 mill/yr
Permits: air	Waste Codes:	

Operation: machine parts for aircraft + turbines high temp, abrasion resistant

Process: conventional machining, EDM - electrial disch, machin or ECM. electrochemical machining, Salt Machining

HW Gen: Changing lubricant (oil entry metals) in machinery, floor mopping, oil sludge (contain chromium), corrosive liquid.

Waste Codes: F001, D002, 7

TSDF: Chemwm, Oxide Solv, S&W, Agmet metals

HW Det: Knowt: ✓ TCA: X TCLP: X

Manif Revw: 117 Out: Ø Code: ✓ LDR: X Stor: ✓

Manif Date Code Def

Field Novs: Ø

Compl Sched: Achieved:

Stat (ty, cpl, ref):

Compl Hist:

IDate Viol Class Act

Insp Comm (date, re outcome): Why wasn't the state insp report completed?

Doc Req:

Fac Comm (date, re, outcome):

Doc Req:

TSDF Comm (date, re, outcome):

Doc Req:

NOV 3007 Other

Cit: LB notices - retention

Notes: Many missing notifications

Rep Docs: CA list, gen LB, LB not list, wm, TC, Sub CA, state, summ

File Docs:

EPA Action	Date Issued	Due Date	Extention Req	New Date	Date Rec'd	Stat/Comments
11/5/92 - wrt						

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION & ENERGY

OFFICE OF ENFORCEMENT POLICY

GENERATOR INSPECTION REPORT

FACILITY INFORMATION

FACILITY NAME: Meteor Corporation

FACILITY FILE NUMBER: [illegible]

EPA ID NUMBER: NJD002139[illegible]

STREET ADDRESS: [illegible] Parsippany Rd Parsippany

MUNICIPALITY: Parsippany Troy Hills Twp

COUNTY : Morris TELEPHONE # [illegible]

LOT : [illegible] BLOCK: 739

FACILITY PERSONNEL: Israel Kepes
(name & title)
Facilities Manager

MAILING ADDRESS: Same

INSPECTION TYPE: GRANT: ___ FEE BASED: ✓ PAC CODE: [illegible]

INSPECTION DATE: 7/15/92

INSPECTOR'S NAME: [illegible]

INSPECTOR'S AGENCY: NJDEPE BUREAU: NSRP

OTHER STATE/EPA PERSONNEL: -

INCIDENT/CASE NUMBER: -

BILLING ADDRESS: Same

REPORT PREPARED BY: [illegible]

REVIEWED BY: [illegible] DATE OF REVIEW: 7-27-92

dhwm 29 draft rev. 03/27/92

INSPECTION DATES: 7/15/92 7/30/92
TIME IN: 8:30 0800
TIME OUT: 1300 0900

PHOTOS TAKEN: (____) YES (✓) NO HOW MANY (____) PHOTO LOG ATTACHED

SAMPLES TAKEN: (____) YES (✓) NO HOW MANY (____) SAMPLE LOG ATTACHED

SITE BACKGROUND INFORMATION

EMPLOYEES: 2030 DATE OPERATIONS BEGUN: Oct 1993

SHIFTS/WEEK: 10 [illegible] SIC CODE: 3511

ACRES: 23 # OF BUILDINGS/SQFT: [illegible]

PRODUCTS PRODUCED: Machine parts for [illegible] and turbines

VOLUME PRODUCED (or $ value): [illegible] million

PREVIOUS OPERATIONS AT SITE: none

WATER SUPPLY: city

SANITARY DISPOSAL: city

FLOOR DRAINS: none

IF NEEDED ATTACH AN ADDENDUM LISTING PERTINENT INFORMATION FOR EACH OF THE ITEMS LISTED BELOW:

MONITORING WELLS: none

TANKS ON SITE (NON HAZARDOUS/WASTE): 1 [illegible] gallon for [illegible]
3 - [illegible] gallon for natural [illegible]

AIR PERMITS: 3 for stacks

NJPDES PERMITS: none

OTHER PERMITS:

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tanks continued
1 - [illegible] gallon - [illegible] tank
3 - [illegible] gallon - water [illegible] tanks
20 - [illegible] gallon - [illegible] processing tanks

TWO YEAR ENFORCEMENT HISTORY

SUBJECT: _____

EPA ID No.: _____

List the date of each violation.

List each citation, description, and the basis for issuing the violation.

List the type and date of any documents issued:

add additional pages as needed

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INSPECTION & GENERAL FACILITY DESCRIPTION & OPERATIONS

NOTE: A SYNOPSIS OF THIS INSPECTION SHOULD BE INCLUDED IN THE NARRATIVE SECTION OF THIS REPORT. THIS SYNOPSIS SHOULD INCLUDE, BUT NOT BE LIMITED TO, A DESCRIPTION OF THE CONDITIONS FOUND AT THE FACILITY.

NOTE: INCLUDE A SITE MAP OR SKETCH. MARK ALL HAZARDOUS WASTE STORAGE AREAS AND TANKS ON THE MAP.

NOTE: TAKE PICTURES OF ALL POTENTIAL VIOLATIONS. SECURE ALL EVIDENCE WHICH MAY BE NEEDED FOR FUTURE LITIGATION; LEAVE RECEIPTS FOR ANY EVIDENCE REMOVED FROM THE FACILITY.

add additional as needed

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road Parsippany, N.J.
EPA ID Number NJD002139244
7/15/92

INSPECTION, GENERAL FACILITY DESCRIPTION,
OPERATIONS AND COMPLIANCE REPORT

Background:

MC is a large size facility that employs approximately 130 people. Two people deal with the hazardous waste. It is located in the industrial section of Parsippany

In 1968, the company purchased the property and constructed the present day building. This building now comprises the office, manufacturing and storage sections of the facility.

Inspection and Findings:

During the inspection Ismeal Yepes, the Facility Manager, described the main work performed at the facility. As further described in the RCRA inspection report by Farouk Afrasiabi, dated 3/29/90, MC is in the business of manufacturing high-temperature and abrasion resistant machine parts for aircrafts and gas turbines (for a further explanation please see the above mentioned report).

After the parts are received and inspected at MC, they are placed into storage. As the orders are received, the appropriate parts are taken out of storage and the manufacturing process begins.

Depending on the part needed for the order either the conventional machining section, EDM (Electrical Discharge Machine) section or the ECM [Electro-chemical Machining] section of the facility is used.

In manufacturing area # 1 [the EDM section] there are approximately 40 EDM's (each holding approximately 60 gallons of oil). These computer operated machines use an electrical charge to machine the individual parts while also removing unwanted objects from the part being machined. According to Mr. Yepes, these machines are connected to a series of filters that are used to remove the unwanted oil from the machinery. The oil in the machinery is continuously reclaimed. It is piped from the machines through various filters and back to the machines at a rate of 8 gallons per minute. The (approximately) eight filter containers are emptied on a biweekly basis. At that time, the material is placed in an approximately 60 gallon centrifuge. The excess material removed during this process is placed back into the EDM's for further use. Any remaining material is removed and placed in a 55 gallon drum on the left side of the centrifuge (in the rear of the EDM section) to be handled as a hazardous waste. Currently, there is one 55 gallon drum of EDM sludge (approximately 3/4 full) in this area.

During routine maintenance of the EDM's other wastes are also generated. These wastes are also placed in 55 gallon satellite drums in the rear of manufacturing area # 1. As of this inspection, there is one 55 gallon drum (approximately 1/2 full) containing EDM metal filters, one 55 gallon drum [approximately 1/3 full] containing EDM material and floor sweepings and one 55 gallon satellite drum {approximately 1/3 full} containing an oil/water mix from the mopping of the floors in the EDM section.

The other machines on the far left side of manufacturing area # 1 also generate a sludge waste. Currently there is one 55 gallon satellite drum (approximately 1/3 full) in this area.

The ECM's are located in manufacturing area # 2. Seven machines in this area use an electric current to remove metal from the part being machined while also making various cavities, contours and holes in the appropriate part. As needed, the acid filters are removed from these

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road Parsippany, N.J.

Inspection Continued

machines and are placed in a 55 gallon drum and handled as a hazardous waste. Currently, there is one 55 gallon drum (approximately 1/3 full) of waste acid filters against the south wall of the ECM section.

As the satellite drums become full, there are transferred to the hazardous waste storage area (outside, on the west side of the building). Currently, there are 23 (full) 55 gallon drums divided into seven rows in this area. The first row contains three drums of oil/water mix. The second row contains four drums of acid filters. The third drum contains five drums (two are EDM sludge, one is diatomaceous earth, and two contain oil residue). Row four contains three drums (two contain EDM residue and floor sweepings and one contains EDM sludge). Row five has three drums (two contain the oil/water mixture and one contains EDM metal filters. Row six has four drums of the oil/water mix (two 55 gallon drums and two approximately 65 gallon drums). Row seven has three drums of acid filters.

In addition to the ECM's, manufacturing area # 2 also houses the Salt Machines. Using a salt/water solution, these machines make specific cuts on the newly processed part. Each of these (three) machines are connected to two approximately 500 gallon solution baths. These baths continuously circulate the salt solution throughout the machine.

Any water that is displaced from the Salt Machines or the ECM's is piped directly to one of three approximately 4000 gallon holding tanks. In addition, the floor washing water and the other liquid removed from the ECM's is also piped to the above mentioned tanks. At this point, the waste water treatment process begins.

The waste water is pumped from the 4000 gallon holding tanks through two approximately 1000 gallon tanks. It is then drawn through the remaining portions of the treatment unit (and is processed). This treatment unit is used to separate the metals while also processing the acid and other materials in the waste water. The sludge resulting from the waste water processing system is then placed in a filter press. This filter press is used to remove the excess material from the sludge. The resulting liquid is then placed into the sewer (under a permit) and the filter cake is manifested off site.

MC is also comprised of two other sections (the quality control section and the machine shop). The machine shop houses various drills and lathes. This area is used to perform routine machine work and various repairs.

The quality control area is used to test the newly processed parts for various specifications.

As of the completion of this inspection, MC is in compliance. No further enforcement actions will be taken against the facility at this time.

Ismael Yepes was informed, at the conclusion of the inspection, that there would be a $1370.00 fee for the initial inspection, a $700.00 fee for each compliance inspection and a $660.00 fee for the document reviews.

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road Parsippany, N.J.

HAZARDOUS WASTE GENERATION

Waste Streams:

MC normally generates approximately 800 gallons of oil contaminated waste every month, approximately 4000 gallons of chromium contaminated waste every month and approximately 21000 gallons of corrosive liquid (sulfuric acid, acid filters, nitric acid) every month.

Currently, there are 23 (full) 55 gallon drums divided into seven rows in this area. The first row contains three drums of oil/water mix. The second row contains four drums of acid filters. The third drum contains five drums (two are EDM sludge, one is diatomaceous earth, and two contain oil residue). Row four contains three drums (two contain EDM residue and floor sweepings and one contains EDM sludge. Row five has three drums (two contain the oil/water mixture and one contains EDM metal filters). Row six has four drums of the oil/water mix (two 55 gallon drums and two approximately 65 gallon drums). Row seven has three drums of acid filters.

There are various satellite drums throughout the facility. In the rear of manufacturing area # 1 there is oue 55 gallon drum of EDM sludge (approximately 3/4 full), one 55 gallon drum (approximately 1/2 full) containing EDM metal filters, one 55 gallon drum (approximately 1/3 full) containing EDM material and floor sweepings and one 55 gallon drum (approximately 1/3 full) of an oil/water mix from the mopping of the floors.

The other machines on the far left side of manufacturing area # 1 also generate a sludge waste. Currently there is one 55 gallon satellite drum (approximately 1/3 full) in this area.

There is also one 55 gallon drum (approximately 1/3 full) of waste acid filters on the south side of manufacturing area # 2.

The waste corrosive material (acids and acid filters) are generated from the routine maintenance of the ECM's. The floor sweepings and the floor moppings are generated from the maintenance around the EDM's. The waste machine sludge, the waste EDM sludge and the EDM metal filters are generated during the maintenance of the EDM's.

HAZARDOUS WASTE INVENTORY

SATELLITE STORAGE AREA
(mark individual areas on site sketch)

LOCATION	WASTE CODE	DESCRIPTION	CONTAINER	SIZE TYPE	QUANTITY
side of manufacturing area 1	[illegible]	sludge from machines	55 gallon		[illegible]
[illegible] of manufacturing area 1	[illegible]	EDM machine sludge	55 gallon		[illegible]
	[illegible]	EDM metal filter	55 gallon		[illegible]
	[illegible]	EDM - [illegible]	55 gallon		[illegible]
	[illegible]	oil/water mix [illegible]	55 gallon		[illegible]
[illegible] of manufacturing area 3	[illegible]	[illegible]	55 gallon		[illegible]

add additional pages as needed

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<90 DAY CONTAINER STORAGE AREA # (REPEAT FOR EACH AREA)
(mark individual area on site sketch)

LOCATION	WASTE CODE	DESCRIPTION	CONTAINER SIZE TYPE	QUANTITY
hazardous waste storage area	D002	seal filters	55 gallon	7
	D007	sludge from machines	55 gallon	3
	X725	oil/water (mopping fluid)	55 gallon	7
			~65 gallon	2
	D007	EDM metal filters	55 gallon	1
	D007	EDM residue + floor sweepings	55 gallon	2
	X725	oil residue	55 gallon	2
	D002	diatomaceous earth	55 gallon	1

add additional pages as needed

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<90 DAY TANK STORAGE
(mark individual tanks on site sketch) N/A

TANK #	WASTE CODE	DESCRIPTION	CAPACITY	QUANTITY

add additional pages as needed

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MANIFESTS REVIEWED

Manifests reviewed from 3/20/92 through 2/15/93

Number of generator manifests in compliance: 117

Number of generator manifests not in compliance: —

According to the manifests, does the generator export any waste? (yes/no) No

List manifest document numbers of those manifests not in compliance and note each deficiency.

Attach copies of manifests which have deficiencies

Manifest Document Number	Deficiency (citation)

add additional pages as needed

GENERATOR INDEX

CHECK THE SECTIONS AND ACTIVITIES OF THIS REPORT WHICH ARE APPLICABLE TO THE FACILITY AND COMPLETE THOSE SECTIONS FOR THIS INSPECTION.

#	SECTION	PAGE	
1.	WASTE DETERMINATION	10.	✓
2.	GENERATOR STATUS	12.	
3.	SATELLITE ACCUMULATION AREAS	13.	✓
4.	<90 DAY CONTAINER STORAGE AREAS	15.	✓
5.	WASTE OIL USAGE	16.	✓
6.	WASTE OIL TANKS	19.	
7.	ABOVE GROUND TANKS (<90 DAY)	21.	
8.	WASTE MANAGEMENT PRACTICES	23.	✓
9.	GENERATOR MANIFESTS	24.	✓
10.	EXPORTING HAZARDOUS WASTE	27.	
11.	CONTINGENCY PLAN & EMERGENCY PROCEDURES	28.	✓
12.	PERSONNEL TRAINING	32.	
13.	PREPAREDNESS & PREVENTION	35.	
14.	"WASTE WATER TREATMENT UNIT" QUALIFICATION	37.	✓
15.	SUMMARY OF VIOLATIONS	39.	

SECTION 1.

WASTE DETERMINATION:

HAS THE FACILITY PROPERLY CLASSIFIED ALL OF ITS WASTES AND IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

The Generator does NOT produce any materials which meet the definition of a "solid waste". These would include any solid, liquid, semi-solid or contained gaseous material which has served or can no longer serve its original intended use. These materials include spent materials, sludges (i.e. waste water treatment sludge or material from air pollution control equipment),by-products, discarded commercial chemical products, scrap metals and residues. _____

If the generator does produce any of these materials, the facility does NOT:

1. Discard or intend to discard the material. _____
2. Accumulate, store or physically, chemically or biologically treat the material prior to, or in lieu of, discarding the material. _____
3. Burn the material for energy recovery. _____
4. Recycle the material. _____

1.6(d) The generator does NOT process any material under toll agreement pursuant to N.J.A.C. 7:26-1.4 (such material is classified as a "solid waste"). _____

8.5 The generator failed to determine:

8.5(a) if its "solid waste" is hazardous. _____

8.5(b) If the waste is a listed (or a mixture):

8. 5(b)1 The generator failed to determine the hazardous characteristics based upon testing of the waste in accordance with N.J.A.C. 7:26-8.9 - 8.12. _____

8.5(b)2 The generator failed to determine the hazardous characteristics based upon knowledge of the waste in accordance with N.J.A.C. 7:26-8.9 - 8.12. _____

8.5(c) If the waste is not listed or hazardous based on characteristics, and the Department requested the generator to submit a plan to analyze for the presence of hazardous waste constituents N.J.A.C. 7:26-8.16:

The generator failed to submit the plan in a timely manner, _____

The generator failed to conduct the approved plan and submit the results. _____

BASED ON CONSTITUENTS, IS THE WASTE HAZARDOUS? _____

8.5(d) The generator failed to keep the test results, waste analysis, or other determinations made in accordance with this section for three years (in operating log) from the date that the waste was last sent to an on-site or off-site TSDF? _____

SECTION 2.

GENERATOR STATUS

Does the generator generate/store >100 kg of hazardous waste (1kg acutely) or greater than 1001 gal of listed waste oil in any calender month? (except x725 - 100 kg rule applies)

_____

If no, does the generator wish to delist? _____

If the generator wishes to delist, do a delisting inspection.

If the generator does not wish to delist, complete this generator inspection.

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE HARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

7.4(a)1 The Generator <u>failed to</u> have an EPA ID number. _____

SECTION 3.

SATELLITE ACCUMULATION AREAS

NOTE: Satellite rules apply for "active drums" that are being currently used to accumulate hazardous waste. Satellite rules can be utilized until the original drum is moved within three days. A second drum can be utilized until the original drum is moved within three days. Capacity for the total storage capacity for any satellite accumulation area shall not exceed 110 gallons for each waste stream.

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

9.3(d)1 The quantity of waste in each accumulation area <u>exceeds</u> 55 gallons (less than 1 quart if acutely hazardous). _____

9.3(d)2 In addition to container requirements, the containers <u>do not</u>:

(a) meet the standards of 7.2 (Container Requirements). _____

<u>nor are they</u>:

(b) managed in accordance with 9.4(d)2, 9.4(d)3, & 9.4(d)4i (proper container storage). _____

9.3(d)3 The accumulation area is <u>not</u> at or near a point of generation where wastes initially accumulate in a process. _____

AND,

The area is <u>not</u> under the control of the operator of the process. _____

9.3(d)4 The containers are <u>not</u> marked "Hazardous waste". _____

9.3(d)5 The containers Are <u>not</u> marked with the date the container(s) reached the volume specified (55 gal. or I qt.). _____

AND,

9.3(d)6 after reaching the volume indicated in 9.3(d)1 above, the containers were <u>not</u> moved within three days to one of the following:

i. A less than 90 day accumulation storage area. _____

ii. An on-site authorized facility. _____

iii. An off-site authorized commercial facility. _____

SECTION 4.

GENERATOR STORAGE AREAS

Short term accumulation standards for generators who accumulate waste in containers for less than 90 days:

IS THE FACILITY IH COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

7.2(a)	The owner/operator <u>failed</u> to conspicuously label appropriate manifest number on hazardous waste containers that are intended for shipment.	_____
7.2(b)	The owner/operator <u>failed</u> to insure that all containers used to transport hazardous waste off site are in conformance with applicable DOT regulations. (49CFR 171,179)	_____
9.3(a)1	The generator <u>is storing</u> hazardous waste <u>over 90 days</u> in an "unauthorized facility".	_____
9.3(a)2	The waste is <u>not</u> placed in containers which meet the standards of NJAC 7:26-7.2 and are <u>not</u> managed in accordance with NJAC 7:26-9.4(d).	_____
9.3(a)3	Each container is <u>not</u> clearly dated with each period of accumulation (when accumulation starts) so as to be visible for inspection or clearly marked with words "Hazardous Waste"?	_____

9.4(d)1i	The hazardous waste is <u>not</u> stored in adequate containers of sturdy or leak proof construction.	_____
9.4(d)1ii	The lids, caps, hinges, or other closures are <u>not</u> of sufficient strength that when closed, they will withstand dropping, overturning, or other shock without impairment of the container's ability to contain hazardous waste.	_____
9.4(d)2	The containers do <u>not</u> appear to be in good condition, and are in danger of leaking. Describe the type, condition, and number of leaking containers in the narrative. Take pictures. Be specific.	_____
9.4(d)3	Containers are <u>not</u> compatible with the waste being stored in them.	_____
9.4(d)4i	containers are <u>not</u> kept securely closed when not in use so that there is no escape of hazardous waste or its vapors.	_____
9.4(d)4iii	Containers appear <u>not</u> to be properly handled or stored in a manner which will minimize the risk of the container rupturing and/or leaking.	_____
9.4(d)4iv	Containerized hazardous wastes are <u>not</u> segregated in storage by waste type. (type interpreted as DOT compatibility)	_____
9. 4(d)4v	Containers are <u>not</u> arranged so that their identification labels or markings are visible.	_____
9.4(d)4vi	Cleaning of hazardous waste residues from empty containers does <u>not</u> take place in a designated area.	_____
94.(d)4vii	Rinse waters or cleaning agents resulting from the cleaning of containers or vehicles are <u>not</u> handled or disposed of in a manner consistent with N.J.A.C. 7:26-7.1 <u>et seq</u> & 9.1 <u>et seq</u>.	_____

9.4(d)4viii	The reuse of containers is <u>not</u> in compliance with DOT regulations (49 CFR 173.28).	_____
9.4(d)5	The container storage area is <u>not</u> inspected daily for leaks and deterioration. note: The generator is not required to document there inspections in a log. However, if any containers violations are noted, the Department assumes that the generator has not been conducting the required inspections.	_____
9.4(d)6	Containers holding ignitable and reactive wastes are <u>not</u> located at least 50 feet from the facility's property line.	_____
9.6(d)	The owner/operator <u>failed</u> to maintain access to communication or alarm system.	_____
9.6(e)	There is <u>inadequate</u> aisle space which <u>fails</u> to allow unobstructed movement of personnel fire protection equipment, spill control equipment and decontamination equipment? (Policy is 18"single stack, 30" double stacked)	_____

SECTION 5.
WASTE OIL

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

*THE GENERATOR ONLY GENERATES X722 WASTE OIL IN ANY AMOUNT.

or*

The generator ONLY generates or store (in above ground tanks or drums) less than 1001 gal of only waste oil (except X725 for which 100kg. rule applies) per month.

7.7(d) The generator fails to obtain receipts (or manifests) from a New Jersey registered hazardous waste hauler and retain them for three years? (check quantities on receipts to ensure that the amount of oil involved is below the limit) _____

NOTE: No other Hazardous Waste regulations apply, * unless the storage of X listed waste oils exceeds 1001 gal: or unless the waste oil is also a Federal (RCRA) hazardous waste.*

The generator generates over 100 kg of hazardous waste (or 1 kg if acutely hazardous) and any listed waste oil or generates/stores *>1001* gal of waste oil in any given month and fails to be in compliance with:

Manifests requirements (7.4) _____

labeling and container requirements [9.4(d), 7.2(a)&(b), 9.3(a)3, 9.6(e)] _____

Satellite regulations. 9.3(d) _____

documentary requirements [9.4(g), 9.6, 9.7] _____

SECTION 6.

WASTE OIL TANKS: N/A

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

If there is an above ground tank with total capacity (which includes drums) > 1001 gal but <90 day storage, does the generator FAIL to:

9.3(b) Have a letter of approval from Hazardous Waste Engineering. _____

9.3(b)2 Have controls on the tank to prevent overfilling. _____

9.3(b)3 Provide the tank with adequate secondary containment. _____

9.3(b)4 Insure that the tank can be emptied at least 99% every 90 days or less. Explain how this is determined in the narrative of this report.(ie., logs, manifests). _____

9.3(b)5 Empty the tank every 90 days or less. _____

9.3(b)6 Remove all wastes from the tank(s) and ship off-site to an authorized facility or place in an on-site, authorized facility. _____

9.3(b)8 If part of the tank is below grade, it is not constructed in a manner which allows visual inspection of the tank, comparable to a totally above-ground tank. _____

and,

secondary containment is not provided for the below grade part. _____

9.3(b)9 The tank is not labeled with the words "HAZARDOUS WASTE". _____

If there is above ground >1001 gal capacity, and >90 day storage and the generator:

12.1(a) Acts as a TSDF. (use the TSD check list) _____

9.3(a)1 Acts as a generator. (proceed with the generator check list) _____

If under ground tanks are used to store waste oil, the generator fails to:

A. *Use new commercial service station waste oil tanks of <1001 gal capacity* _____

B. Use underground tanks in existence and in use for Hazardous Waste storage prior to 1/17/83. _____

REFER TO THE UNDER GROUND TANK SECTION OF THE TSD CHECKLIST [9.2(b)].

SECTION 7.

ABOVE GROUND TANKS

N/A

DOES THE GENERATOR ACCUMULATE HAZARDOUS WASTE ON-SITE IN ABOVE GROUND TANKS FOR LESS THAN 90 DAY STORAGE? _____

IF YES:

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

If the generator stores hazardous waste in an above ground tank for <90 days, does the generator fail to:

9.3(b) Have a letter of approval from Hazardous Waste Engineering. _____

9.3(b)2 Have controls on the tank to prevent overfilling. _____

9.3(b)3 Provide the tank with adequate secondary containment. _____

9.3(b)4 Insure that the tank can be emptied at least 99% every 90 days or less. Explain how this is determined in the narrative of this report.(ie., logs, manifests). _____

9.3(b)5 to empty the tank every 90 days or less. _____

9.3(b)6 Remove all wastes from the tank(s) and ship off-site to an authorized facility or place in an on-site, authorized facility. _____

9.3(b)8 If part of the tank is below grade, it is <u>not</u> constructed in a manner which allows visual inspection of the tank, comparable to a totally above-ground tank. _____

and,

secondary containment is <u>not</u> provided for the below grade part. _____

9.3(b)9 The tank is <u>not</u> labeled with the words "HAZARDOUS WASTE". _____

SECTION 8.

WASTE MANAGEMENT

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

12.1(a) The is generator ACTING as a TSDF by:
(no Part A or B)

1. Treating hazardous waste. _____
2. Storing hazardous waste in underground tanks. _____
3. Placing hazardous wastes in piles [9.2(b)4] or surface impoundments? _____
4. Disposing of hazardous waste on site (ie., landfill, incineration, or injection well)? _____
5. Accumulating of hazardous waste for more than 90 days? _____

COMMENT ON CONDITIONS FOUND IN THE NARRATIVE SECTION OF THIS REPORT.

9.3(a)1 The site is acting as a generator but accumulating waste in containers or <u>approved</u> tanks for more than 90 days. _____

COMMENT ON CONDITIONS FOUND IN THE NARRATIVE SECTION OF THIS REPORT.

<u>IF THE FACILITY IS ACTING AS A TSD, COMPLETE THE TSD REPORT.</u>

SECTION 9.

GENERATOR MANIFESTS

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT. PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE AND LIST THOSE MANIFESTS THAT ARE DEFICIENT ON THE MANIFEST TRACKING PAGE. ATTACH A COPY OF EACH DEFICIENT MANIFEST. _____

7.4(a)3	The generator failed prepare a Hazardous Waste Manifest before transporting or offering for transport hazardous waste off-site.	_____
7.4(a)4	Each manifest failed to have the following information:	
7.4(a)4i	The generator's name (as reported to EPA), mailing address (& site address if different), and phone number.	_____
7.4(a)4ii	The generator's EPA ID number.	_____
7.4(a)4iii	The transporter(s) name (as reported to USEPA), phone number and NJ registration and decal numbers.	_____
7.4(a)4iv	The transporter(s) EPA ID number.	_____
7.4(a)4v	The name (as reported to EPA), address and phone number of the designated TSD facility.	_____
7.4(a)4vi	The TSD's EPA ID number.	_____

7.4(a)4vii	The proper USDOT description of waste: proper shipping name, RCRA hazard class,ID number, quantity and waste code of hazardous waste being shipped.	_____
	OR	
	Complete NOS information in item J including chemical names, constituents percentages, physical state, and EPA hazard code(s).	_____
7.4(a)4viii	Special handling instructions and any other information required on form to be shipped by generator including chemical names, 2 major constituent percentages, physical states, DOT description for NOS material hazardous characteristics [49 CFR 172.201(k)], or the manifest document number assigned by the generator.	_____
7.4(a)4ix	The waste reuse facility ID# in section G of the uniform manifest when shipping hazardous waste to a waste reuse facility.	_____
7.4(a)5i	The generator signature and date for the manifest certification.	_____
7.4(a)5ii	Transporter's signature & date acknowledging acceptance.	_____
7.4(a)5iii	The generator failed to retain one copy and forward one copy to the state of origin and one copy to the state of destination.	_____
7.4(a)5v	The generator failed to give the remaining copies of the manifest form to the hauler.	_____
7.4(e)2	The generator <u>failed</u> to utilized a transporter which is properly registered or has an EPA ID #.	_____
7.4(e)3	The generator <u>failed</u> to designate on the manifest an authorized TSD or reuse facility.	_____

7.4(e)4	The generator **failed** to ship the shipment of hazardous waste to an authorized TSD or reuse facility.	_____
7.4(f)	The generator **failed** to maintain the following facility records for three (3) years:	
7.4(f)1	Manifests.	_____
7.4(f)2	Annual or exception reports.	_____
7.4(f)3	The generator **failed** to maintain records during course of unresolved enforcement action or as requested.	_____
7.4(h)1	The generator has **failed** to receive signed copies (from the TSD facility) of all manifests for waste shipped off site more than 35 days from the date the waste was accepted by the initial transporter.	_____
7.4(h)1	The generator **failed** to contact the hauler and/or the owner or operator of the TSDF and the NJDEPE at (609) 292-8341 to inform the NJDEPE of the situation.	_____
7.4(h)2	The generator **failed** to file exception reports with the Department which covered any of these shipments made more than 45 days from the date the waste was accepted by the initial transporter.	_____

SECTION 10. N/A

HAZARDOUS WASTES IMPORTS & EXPORTS

DOES THE FACILITY EXPORT HAZARDOUS WASTE? (yes/no, see manifests) _____

HAS THE FACILITY COMPLIED WITH THE FOLLOWING ITEMS IN THIS SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IH THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF THE GENERATOR EXPORTS WASTE, does he fail to:

1. Notify the EPA of its intent to export. _____
2. Provide detailed information on the following:
   - A. Waste Generators. _____
   - B. Transporters. _____
   - C. Foreign Facility. _____
   - D. Type of Waste. _____
3. Obtain acknowledgement of consent from the receiving country. _____
2. Insure that the acknowledgement is attached to each manifest. _____
3. Submit an annual report to the Administrator of the EPA by March of each year? _____
4. Deliver a copy of the Hazardous Waste Manifest to the U.S. Customs Service at the point of departure from the United states? _____

SECTION 11.

CONTINGENCY PLAN AND EMERGENCY PROCEDURES

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE AREAS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

9.7(a) The facility failed to have a written contingency plan for emergency procedures designed to deal with fires, explosion hazards to human health or environment, or any unplanned sudden or non sudden release of hazardous waste constituents into air, soil, or surface water. _____

9.7(b) The generator failed to carry out provisions of the plan immediately whenever there is a fire, explosion, or release of hazardous waste constituents which could threaten human health or the environment. _____

9.7(c) The contingency plan fails to describe the actions personnel shall take in response to fires, explosions, or any unplanned sudden or non sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water. _____

9.7(d) The owner or operator <u>failed</u> to prepare a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR 112 or 300 or a Discharge Prevention Containment and Counter-measure (DPCC) Plan in accordance with N.J.A.C. 7:1E-4.1 et seq. ____

<u>NOTE:</u> DPCC: >400,000 gal storage of hazardous substances.

SPCC: Storage of any kind of oil and most oil products including gasoline and fuel oils If:

1. 600 gal single tank
2. 1,320 gal multiple tanks
3. 42,000 gal underground storage.

9.7(d) If the owner/operator has a DPCC or SPCC plan, he <u>failed</u> to amend that plan to incorporate hazardous waste management provisions that are sufficient to comply with the requirements of this section. _____

9.7(e) The plan <u>fails</u> to describe arrangements agreed to by local police departments, fire departments, hospitals, contractors, and State and local emergency response teams to coordinate emergency services. _____

9.7(f) The plan <u>fails</u> to list names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator and is this list kept up to date? Where more than one person is listed, one shall be named as primary emergency coordinator and the others shall be listed in the order in which they will assume the responsibility as alternates. _____

9.7(g)	The plan <u>fails</u> to include a list of all emergency equipment at the facility. Where this equipment is required, this list would include: fire extinguishing systems, spill control equipment, communications and alarm systems (internal and external) and decontamination equipment. The list must be up-to-date and include the location and physical description of each item on the list, and brief outline of its capabilities.	_____
9.7(h)	The plan <u>fails</u> to include an evacuation procedure for facility personnel where there is a possibility that evacuation could be necessary.	_____
9.7(h)	The plan <u>fails</u> to describe signal(s) to be used to begin evacuation, evacuation routes, and alternative evacuation routes in cases where the primary route could be blocked by releases of hazardous waste or fires.	_____
9.7(i)	The generator <u>fails</u> to:	
	1. keep a copy of the contingency plan and all revisions to the plan at the facility.	_____
	2. Submit the contingency plan to local authorities (police, fire departments emergency response teams).	_____

9.7(j) The generator fails to revise the contingency plan when:

1. Applicable regulations are revised. _____

2. The plan fails in an emergency situation. _____

3. The facility changes so as to increase the potential for fire, explosions, or releases. _____

4. The Emergency coordinator Changes. _____

5. The emergency equipment changes. _____

9.7(k) The generator fails to have an employee on site or on call at all times with the responsibility of coordinating, all emergency response measures. _____

9.2(a)2 The generator DOES NOT handle hazardous waste in a manner which causes (or may, or has caused) a discharge of a hazardous waste onto the land, waters or air of the State. _____

N.J.S.A. 58:10-23.11(c)

THERE IS A DISCHARGE OF A HAZARDOUS SUBSTANCE (UNDER SPILL ACT). _____

N.J.S.A. 58:10-23.11(e)

THE GENERATOR FAILED TO REPORT THE SPILL TO THE DEPARTMENT. _____

NOTE: IF THE ABOVE SPILL ACT VIOLATIONS ARE FOUND, REFER THEM TO THE DIVISION OF RESPONSIBLE PARTY SITE REMEDIATION FOR FURTHER ENFORCEMENT ACTION.

SECTION 12.

PERSONNEL TRAINING

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

9.4(g)2	The training program is **not** directed by a person trained in hazardous waste management procedures and, is it **not** designed to ensure that facility personnel are able to respond effectively to emergencies by familiarizing them with emergency procedures, emergency equipment, and emergency systems including 9.4(g)3i through 3vii.	_____
9.4(g)3	The training program **fails** to include the following emergency response procedures:	
9.4(g)3i	Use of personnel safety equipment.	_____
9.4(g)3ii	Procedures for using, inspecting, repairing, and replacing facility emergency and monitoring equipment.	_____
9.4(g)3iii	Key parameters for automatic waste feed cut-off systems.	_____
9.4(g)3iv	Procedures for utilizing communications or alarm systems.	_____
9.4(g)3v	Directions for responding to fires or explosions.	_____

9.4(g)3vi	procedures for responding to ground water contamination incidents.	_____
9.4(g)3vii	Procedures for conducting shutdown operations.	_____
9.4(g)4	The facility personnel involved with hazardous waste management **have not** successfully completed a program of classroom instruction or on-the-job training within six months of the date of their employment or assignment to the facility or to a new position at the facility.	_____
9.4(g)5	Facility personnel **have not** taken part in an annual review of initial training	_____
	There is NO written documentation of the following:	
9.4(g)6i	Job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job.	_____
94(9)6ii	A written job description for each position related to hazardous waste management.	_____
9.4(g)6iii	A written description of the type and amount of both introductory and continuing training that has been and will be given to personnel in jobs related to hazardous waste management.	_____
9.4(g)6iv	Documentation of actual training or experience received by personnel.	_____
9.4(g)7	Training records are NOT kept on all current employees until closure of the facility and training records kept on former employees for three years from their last date of employment?	_____

9.4(g)8	The semi-annual drills, involving all employees and appropriate local authorities, to test emergency response capabilities at the facility in accordance with the contingency plan and emergency procedures development are <u>not</u> conducted pursuant to N.J.A.C. 7:26-9.7.	_____
	IF IN VIOLATION,	
9.4(g)8i	The owner or operator <u>failed</u> to petition the Department for an exemption from the drill requirement.	_____
	OR	
9.4(g)8ii	<u>Failed</u> to petition the Department for an exemption excluding some or all local officials in the semi annual drill requirements.	_____
	IN WHICH CASE	
	The owner/operator <u>failed</u> to provide those specific local officials with written approval of the exemption.	_____

SECTION 13.

PREPAREDNESS AND PREVENTION

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

The facility fails to have:

9.6(b)1	An internal communications or alarm system.	_____
9.6(b)2	A telephone or other device to summon emergency assistance from local authorities.	_____
9.6(b)3	Portable fire equipment, spill control equipment, and decontamination equipment.	_____
9.6(b)4	Water at adequate volume and pressure to supply water hose streams, or foam producing equipment, or automatic sprinklers, or water spray system.	_____
9.6(c)	The owner/operator has failed to test and maintain all of the above emergency equipment.	_____

9.6(f)	The facility has <u>failed</u> to make the following arrangements (documented), as appropriate for the type waste handled on site:	_____
	The generator <u>failed</u> to:	
9.6(f)1	Familiarize Police, fire departments, and emergency response teams with the layout of the facility,hazardous waste handled, and associated hazardous places where facility personnel would normally be working; entrances, roads inside facility, and possible evacuation routes.	_____
9.6(f)2	Have an agreement designating primary emergency authority to a specific police and fire department where more than one Police and fire department might respond to an emergency, and agreements with others to provide support to the primary emergency authority.	_____
9.6(f)3	Agreements with emergency response contractors, and equipment supplier.	_____

LIST THE EMERGENCY RESPONSE CONTRACTORS IN THE NARRATIVE SECTION OF THIS REPORT.

9.6(f)4	Arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries or illness which could result from fires, explosions, or discharges at the facility.	_____
9.6(f)5	Arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually.	_____
9.6(f)6	If authorities identified in (f)1 through 5 above decline to enter into such arrangements, the owner/ operator has <u>failed</u> to documented this refusal in the operating record.	_____

SECTION 14.

WASTE WATER TREATMENT PLANT SLUDGE

IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THIS INSPECTION REPORT?

IF YES, DESCRIBE CONDITIONS FOUND AT THE FACILITY IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.
DESCRIBE THE ITEMS OF NON COMPLIANCE FOUND IN THE NARRATIVE SECTION OF THIS REPORT.
PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

I. "WASTE WATER TREATMENT UNIT" QUALIFICATION PER 7:14A-4.3

The drying unit is NOT part of a waste water treatment facility which is subject to regulation under Section 402 or Section 307(b) of the federal Clean Water Act. _____

Note: In order to be considered "part of" the facility, the dryer need not be physically connected to the W.W.T. facility, but must be located at the same site.

The drying unit treat does NOT a sludge which is generated on-site by the wastewater treatment facility. _____

The sludge is NOT to be treated as a regulated hazardous waste as defined at N.J.A.C. 7:26-8. _____

The drying unit does NOT meet the definition of a "tank" at N.J.A.C. 7:14A-4.3. _____

Note: "Tank" means a stationary device designed to contain an accumulation of hazardous waste and constructed of non-earthen materials which provide the structural strength to totally contain the waste. Dryers that are integrally equipped with feed or discharge hoppers for treatment of sludge in bulk satisfy the definition of "tank". Others not so designed may still be considered tanks on a case-by-case bases.

2. PRIMARY PURPOSE RESTRICTION

N/A

The primary purpose of the dryer is NOT to dehydrate sludge, BUT TO destroy sludge to produce an ash residue. _____

3. THERMAL INPUT LIMITATION: N/A

The dryer's maximum total thermal input, excluding the heating value of the sludge itself, IS MORE than 2,500 BTU's per pound of sludge treated on a wet-weight bases. _____

Note: Total thermal input equals dryer heating capacity (converted to btu/min) multiplied by the maximum drying time divided by weight of sludge per batch.

use the space provided below to determine the total thermal input.

If the answer to any of the above questions is YES, the dryer is subject to Hazardous Waste Facility permit requirements and must be regulated as a Miscellaneous Unit pursuant to N.J.A.C. 7:26-10.9 et seq. _____

SUMMARY OF VIOLATIONS

When making a referral, list each citation and the basis for issuing the violation :

add additional pages as needed

CONFIDENTIAL - RECOMMENDATIONS

TO: FILE _____ **DATE** _____

FROM: _____

SUBJECT: _____

EPA. ID. #: _____ **INSPECTION DATE:** _____

NOTE: 1) Confidential material can be subpoenaed.
2) May be subject to public review (Right to Know).
3) Confidentiality is limited, it includes :
   1) Criminal activity (including suspected or potential)
   2) Potential non-compliance or potential violations
   3) Information obtained by informants (do not use names)
   4) Proprietary information regarding industrial processes (only if requested in writing).
   5) Attorney client relations (with DAG)
   6) Entire file is confidential while violations are under investigation.

add additional pages as needed

DHWM 29
REV 05/15/92 DRAFT

SECTION 10.

WASTE MINIMIZATION

DOES THE FACILITY HAVE A WASTE MINIMIZATION PLAN? _____

IF YES, IS THE FACILITY IN COMPLIANCE WITH THE REGULATIONS OF THE FOLLOWING SECTION OF THE INSPECTION REPORT? _____

IF YES, IDENTIFY AND REVIEW THE FACILITY'S WASTE MINIMIZATION PLAN.

DESCRIBE THE FACILITY'S PLAN IN THE NARRATIVE SECTION OF THIS REPORT. PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

IF NO, NOTE THIS IN THE NARRATIVE SECTION OF THIS REPORT. PROCEED TO THE NEXT SECTION OF THIS REPORT. _____

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

I. General Information

Facility: Metem Corporation

U.S. EPA ID No.: NJD 007139244

Street: 700 Pompton Rd

City: Pompton State: NJ Zip: 07054

Telephone: 201-887-0635

Inspection Date: 7/15/97 Time: 0830 (am/pm)

Weather Conditions: cloudy ~ 77°

	Name	Agency/Title	Telephone
Inspectors:	Bruce Forbanish	NJDEPE/Env Spec	201-[illegible]-7595
Facility Representatives:	Ismael Yepes	Metem/Facility Mgr	201-887-0635

See Appendix B to determine which of the following LDR waste categories the facility manages:

	Generate	Transport	Treat	Store	Dispose
F001-F005 Solvents	✓				
F020-F023 and F026-F028					
California List*					
First Third [40 CFR 268.10]					
Second Third [40 CFR 268.11]					
Third Third [40 CFR 268.12]	✓				

* See Appendix A

INSPECTION SUMMARY

Processes That Generate LDR Wastes:

- changing lubricant (oil containing metals) in machinery
- filter mappings
- oil sludge (containing chromium)

LDR Waste Management:

waste is temporarily stored on site and then shipped to a TSD

Summary: No violations were issued

Signature: Brian Freeland

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

II. WASTE IDENTIFICATION

A. List waste codes which the facility handles in each of the following LDR categories*:

1. F001 through F005 spent solvents:
   F001

2. F020-F023 and F026-F028 dioxin-containing wastes:

3. California List Wastes (See Appendix A):

4. First Third Wastes [40 CFR 268.10]:

5. Second Third Wastes [40 CFR 268.11]:

6. Third Third Wastes [40 CFR 268.12]**:
   D002, D003

*See Appendix B.
** Note: Effective 09/25/90, large quantity generators and TSDs are required to use the toxicity characteristic leaching procedure (TCLP) instead of the extraction procedure (EP) for determining the toxicity characteristic (TC). Small quantity generators must comply with this new requirement by 03/29/91. Wastes which exhibit TC, but do not exhibit EP, will be considered "newly identified" wastes. They will be regulated under 40 CFR Part 268 only after they are evaluated by U.S. EPA, even if they are characteristic for a constituent previously covered under the EP toxicity characteristic (55 FR 22531).

B. Waste Code Determination

1. Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?*

   Yes ✓ No __

   If no, list below:

Assigned Classification	Correct Classification

*Areas of concern include: California list/waste categories with more stringent treatment standards; listed/characteristic; multi-source/single-source leachate; P and U waste codes/F and K wastes; and waste code carry through principle.

Comments: _____

2. Have both the listed and characteristic waste code been assigned, where a listed waste exhibits a characteristic? [40 CFR 268.9(a)]

Yes ___ No ___ NA ✓

Comments _____

3. Has multi-source leachate been assigned the F039 waste code?* [40 CFR 261.31]

Yes ___ No ___ NA ✓

*Leachate derived exclusively from F020-F023 and/or F026-F028 dioxin wastes retains the individual waste codes.

If yes, was single-source leachate combined to form multi-source leachate? [55 FR 22623]

Yes ___ No ___

Comments _____

C. **Does the facility handle the following wastes (national capacity variances)?**

1. F001-F005 contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.30(c)]

Yes ___ No ✓ List _____

2. Dioxin contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.31(b)]

Yes ___ No ✓ List _____

3. California list contaminated soil and debris resulting from a CERCLA response action or a RCRA corrective action (expires - 11/08/90). [40 CFR 268.32(d)(2)]

Yes ___ No ✓ List _____

4. K048-K052 petroleum wastes (nonwastewaters; expires - 11/08/90). [40 CFR 268.35 (b)]

Yes ___ No ✓ List _____

5. Soil and debris contaminated with wastes that had treatment standards based on incineration set in the Second Third rule - F010, F024, K009, K010, K011, K013, K014, K023, K027, K028, K029, K038, K039, K040, K043, K093, K094, K095, K096, K113, K114, K115, K116, P039, P040, P041, P043, P044, P062, P071, P085, P089, P094, P097, P109, P111, U028, U058, U069, U087, U088, U102, U107, U190, U221, U223, U235 (expires - 06/08/91). [40 CFR 268.34(d)]

Yes ___ No ✓ List _____

6. Soil and debris contaminated with wastes that had treatment standards set in the Third Third rule based on incineration, mercury retorting, or vitrification. See Appendix A; (expires - 05/08/92). [40 CFR 268.35(e)]

Yes ___ No ✓ List _____

7. The following nonwastewaters - F039, K031, K084, K101, K102, K106, P010, P011, P012, P036, P038, P065, P087, P092, U136, U151. (expires -05/08/92). [40 CFR 268.35(c)]

Yes ___ No ✓ List _____

8. The following wastes identified as hazardous based on a characteristic alone: D004 (nonwastewaters), D008 (lead materials stored before secondary smelting), D009 (nonwastewaters) (expires - 05/08/92). [40 CFR 268.35(c)]

Yes ___ No ✓ List _____

9. Inorganic solid debris as defined in 40 CFR 268.2(g)*; includes chromium refactory bricks carrying EPA Hazardous Waste Nos. K048-K052 (expires - 05/08/92). [40 CFR 268.35(c)]

Yes ___ No ✓ List _____

*Note: Incorrect reference [40 CFR 268.2(a)(7)] in Third Third rule.

10. RCRA hazardous wastes that contain naturally occurring radioactive materials (expires - 05/08/92). [40 CFR 268.35(c)]

Yes ___ No ✓ List _____

11. Wastes listed in 40 CFR 268.10, 268.11, and 268.12 that are mixed radioactive/hazardous wastes (expires - 05/08/92)*. [40 CFR 268.35(d)]

Yes ___ No ✓ List _____

*Note: 40 CFR 268.10 and 268.11 wastes incorrectly omitted from this variance in the Third Third rule.

RCRA LAND DISPOSAL RESTRICTION INSPECTION

III. GENERATOR REQUIREMENTS

A. Treatability Group/Treatment Standard Identification*

*Note: This information is generally available on LDR notifications. If not, waste profile data and other documentation should be checked.

1. F001-F005 Spent Solvent Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each F-solvent?

   Yes ✓ No ___ NA ___

   If available, list each waste code and check the correct treatability group.

Waste Code	Wastewater*	Nonwastewater
F001	___	✓
___	___	___
___	___	___

*Less than 1% by weight total organic carbon (TOC), or less than 1% by weight total F001-F005 solvent constituents listed in 40 CFR 268.41, Table CCW6. [40 CFR 268.2(f)(1)]

   Comments _____

2. F020-F023 and F026-F028 Dioxin Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard for each dioxin waste?

   Yes ___ No ___ NA ✓

   If yes, list each waste code and check the correct treatability group.

Waste Code	Wastewater*	Nonwastewater
___	___	___
___	___	___
___	___	___

   Comments _____

*Less than 1% TOC by weight and less than 1% total suspended solids (TSS) by weight. [40 CFR 268.2(f)]

3. First, Second, and Third Third Wastes:

   a. Does the generator correctly determine the appropriate treatability group/treatment standard for each waste?

      Yes ✓ No ___ NA ___

If available, list each waste code and check the correct treatability group:

Waste Code	Subcategory	Wastewater*	Nonwastewater
D002	pH ≤ 2		✓
D007	–		✓

* Less than 1% TOC by weight and less than 1% total suspended solids (TSS) with the following exceptions: K011, K013, and K014 wastewaters - less than 5% by weight TOC and less than 1% by weight TSS; K103 and K104 wastewaters - less than 4% by weight TOC and less than 1% by weight TSS. [40 CFR 268.2(f)(2) and (3)]

Comments _____

b. Do the assigned treatment standards for listed wastes cover constituents that may cause the waste to exhibit any characteristics? [40 CFR 268.9 (b)]

Yes ___ No ___ NA ✓

c. Does the generator specify alternative treatment standards for lab packs?*

Yes ___ No ___ NA ✓

*Use of the alternative treatment standards is not required. [55 FR 22629]

If yes, do lab packs only contain the following wastes?* [40 CFR 268.42(c)(2)]

___ Organometallics: 40 Part 268, Appendix IV constituents
___ Organics: 40 CFR Part 268, Appendix V constituents

*Unregulated wastes and hazardous wastes which meet treatment standards may be commingled in the appropriate Appendix IV and V lab pack. [55 FR 22629]

d. Does the generator specify alternative treatment standards for F039 multi-source leachate?*

Yes ___ No ___ NA ✓

*Use of the alternative treatment standards is required. [55 FR 22619]

4. California List Wastes: Has the generator correctly identified the treatability group and treatment standard/prohibition level for the following wastes? [55 FR 22675]

a. Liquid hazardous wastes containing PCBs ≥50 ppm

Yes ___ No ___ NA ✓

If yes, check the appropriate treatability group:

___ 50 to 500 ppm PCBs
___ ≥500 ppm PCBs

b. Listed or characteristic wastes containing ≥1,000 mg/l (liquids) or mg/kg (non-liquids) HOCs, which are not listed or characterized by the HOC content

Yes ___ No ___ NA ✓

If yes, check the appropriate treatability group:

___ Dilute HOC wastewater (1,000 mg/l to 10,000 mg/l HOCs)
___ All other HOCs greater than or equal to the prohibition level of 1,000 mg/l (liquids) or mg/kg (non-liquids)

c. Liquid hazardous wastes that exhibit a characteristic and also contain ≥ 134 mg/l nickel and/or ≥130 mg/l thallium

Yes ___ No ___ NA ✓

5. National Capacity Variance Wastes: Have all applicable California List prohibitions been identified for wastes covered under national capacity variances? (See Appendix A.)

Yes ___ No ___ NA ✓

If a wastestream contains a mixture of wastes, and a variance only applies to some of the waste codes, has the generator identified all applicable treatment standards and California List prohibitions? (See Appendix A.)

Yes ___ No ___ NA ✓

If California List prohibitions apply to wastestreams managed by the generator, complete the following table for each waste code, noting the date on which relevant national capacity variances expire.

Waste Code	Cal List Applicability	Expiration Date
___	_____	__/__/__
___	_____	__/__/__
___	_____	__/__/__

Comments_____

6. Treatment standards expressed as required technologies: Has the generator specified an alternative method to that required in 40 CFR 268.42?

Yes ___ No ✓ NA ___

If yes, list the waste code, the technology specified in 40 CFR 268.42, the alternative method, and documentation of approval. [40 CFR 268.42(b)]

Waste Code	Required Technology	Alternative Method	Approval
___	_____	_____	_____
___	_____	_____	_____
___	_____	_____	_____

Comments_____

7. Does the generator mix restricted wastes with different treatment standards for a constituent of concern?

Yes ___ No ✓

If yes, did the generator select the most stringent treatment standards? [40 CFR 268.41(b) and 268.43(b)]

Yes ___ No ___

Comments _____

B. **Waste Analysis**

1. Does the generator determine whether restricted wastes exceed treatment standards/prohibition levels at the point of generation?* [268.7(a)]

Yes ✓ No ___

*Note: This determination may be made at the point of disposal if the waste only has a prohibition level in effect.

If no, does the generator ship all restricted wastes as not meeting treatment standards?

Yes ___ No ___

Comments _____

2. Which of the following analytical methods does the generator employ?*

*Note: A "No" answer to applicable questions b. through d. does not necessarily constitute a violation. However, knowledge of waste is rarely adequate if a generator certifies that treatment standard criteria have been met.

a. Knowledge of waste:

Yes ✓ No ___

If yes, list the wastes for which applied knowledge was used and describe the basis of determination. Attach documentation. [40 CFR 268.7(a)(5)]

Experience with material

b. TCLP*: Are wastes with treatment standards specified in 40 CFR 268.41 analyzed using TCLP?** (BDAT*** = stabilization/immobilization technology)

Yes ___ No ✓ NA ___

*TCLP = Toxicity Characteristic Leaching Procedure (40 CFR Part 266, Appendix I, EPA Test Method 1311)
**See Appendix C for exceptions.
***BDAT = best demonstrated available technology. See Appendix A.

If yes, list the wastes for which TCLP was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7(a)(5)]

_____

_____

c. Total constituent analysis: Are wastes with treatment standards specified in 268.43 analyzed using total constituent analysis?* (BDAT = destruction/removal technology)

Yes ___ No ___ NA ✓

*See Appendix C for exceptions.

If yes, list the wastes for which total constituent analysis was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7(a)(5)]

_____

_____

d. PFLT*: Was PFLT used to determine if California List constituents were contained in *liquid* hazardous waste?

Yes ___ No ___ NA ✓

*PFLT = Paint Filter Liquids Test (Test Method 9095, EPA Publication No. SW-846)

If yes, list the wastes for which PFLT was used and provide the date of last test, the frequency of testing, and note any problems. Attach test results. [40 CFR 268.7 (a)(5)]

_____

_____

3. Does the generator treat restricted wastes in 90-day tanks or containers regulated under 40 CFR 262.34 (permissible in some states)?

Yes ___ No ✓ (If No, go to 4.)

Does the generator treat the wastes to meet appropriate treatment standards/prohibition levels?

Yes ___ No ___

If yes, has the generator prepared a waste analysis plan detailing the frequency of testing to be conducted? 40 CFR 268.7(a)(4)]

Yes ___ No ___ (If No, go to 4.)

Does the plan fulfill the following? [40 CFR 268.7(a)(4)(i)]

___ Based on a detailed chemical and physical analysis of a representative sample
___ Contains information necessary to treat the wastes in accordance with 40 CFR Part 268 requirements

Has the plan been filed with the Regional Administrator (return receipt, Federal Express slip, etc. required for verification)? [40 CFR 268.7(a)(4)(ii)]

Yes ___ No ___

Comments _____

4. Dilution Prohibition [40 CFR 268.3]:

a. Does the generator mix prohibited* wastes with different treatment standards?

*See Appendix E for distinction between restricted and prohibited wastes.

Yes ___ No ✓ (If No, go to b.)

List the wastes _____

Are the wastes amenable to the same type of treatment? [55 FR 22666]

Yes ___ No ___

Comments _____

b. Does the generator dilute prohibited wastes to meet treatment standard criteria, or render them non-hazardous? [55 FR 22665-22666]

Yes ___ No ✓ (If No, go to c.)

Check appropriate category:

___ Dilutes to meet treatment standards
___ Dilutes to render waste non-hazardous

Do the wastes fall into the following categories? (Check if appropriate.) [40 CFR 268.3(b)]

___ Managed in treatment systems regulated under the Clean Water Act
___ Non-toxic* characteristic wastes
___ Treatment standard specified in 40 CFR 268.41 or 268.43

*Non-toxic = D001(except high TOC nonwastewaters), D002, and D003(except cyanides and sulfides). [55 FR 22666]

If the wastes do not fall into the above categories, briefly describe the conditions under which they were diluted.

_____

c. Based on an assessment of points a. and b., and any other relevant circumstances, does the generator dilute prohibited wastes as a substitute for adequate treatment? [40 CFR 268.3(a)]

Yes ___ No ✓

Comments _____

5. F039 Multi-source leachate: Has the generator run an initial analysis for all constituents of concern in 40 CFR 268.41 and 268.43? [55 FR 22620]

Yes ___ No ___ NA ✓

C. **Management**

1. On-Site Management

a. Are restricted wastes treated (other than in a RCRA exempt unit), stored for greater than 90 (small quantity generator* - 180) days, or disposed on site?

Yes ___ No ✓

(If yes, the TSD Checklist must also be completed.)

* Small quantity generator = generator of greater than or equal to 100 kg/mo. but less than 1,000 kg/mo. hazardous waste, or less than 1 kg/mo. acutely hazardous waste

Comments _____

b. If the generator treats characteristic wastes in systems regulated under the Clean Water Act, have the following been documented: the determination of restriction, how restricted wastes are managed, and why wastes discharged pursuant to an NPDES permit are not prohibited (if applicable)? [55 FR 22662]

Yes ___ No ___ NA ✓

c. If the generator treats characteristic wastes in RCRA exempt units to render them non-hazardous, are the wastes managed as restricted until 40 CFR Part 268 treatment standards are met?* [40 CFR 268.9(d)]

Yes ___ No ___ NA ✓

*This applies to both concentration based treatment standards specified in 40 CFR 268.41 and 268.43, and to some 40 CFR 268.42 required methods which result in treatment below the characteristic level. See Appendix D.

2. Off-Site Management: Waste Exceeds Treatment Standards

a. Does the generator ship any waste that exceeds treatment standards /prohibition levels (not subject to a national capacity variance) to an off-site treatment or storage facility?

Yes ✓ No ___ (If No, go to 3.)

Identify waste code(s) and off-site treatment or storage facilities to which wastes are shipped.

Waste Code	Receiving Facility
D002	Chemical Waste Management Vickery, Ohio
F001	Pride Solvents & Chemical West Babylon, NY
D002	S&W Waste Inc. South Kearny, NJ
D007	Agmet Metals - Oakwood Village, NJ

Does the generator provide a notification to the treatment or storage facility? [40 CFR 268.7(a)(1)]

Yes ✓ No ___ (If No, go to 3.)

If the generator specifies alternative treatment standards for lab packs, is the certification required in 40 CFR 268.7(a)(7) or (8) included with the notification?

Yes ___ No ___ NA ✓

b. Is a notification sent with each waste shipment?

See section 5 (1st question) of this report

Yes ___ No ✓

If no, is the waste subject to a tolling agreement pursuant to 262.20(e) (small quantity generator only)?

Yes ___ No ✓ (If No, go to 3.)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler
___	___
___	___
___	___

Did the small quantity generator provide a notification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

N/A Yes ___ No ___

3. Off-Site Management: Waste Meets Treatment Standards

a. Does the generator ship waste that meets treatment standards/prohibition levels to an off-site disposal facility?

Yes ___ No ✓ (If No, go to 4.)

Identify waste code(s) and off-site disposal facilities:

Waste Code	Receiving Facility
___	___
___	___
___	___

Does the generator provide a notification and a certification to the disposal facility? [40 CFR 268.7(a)(2)(i) and 268.7(a)(2)(ii)]?

Yes ___ No ___ (If No, go to d.)

b. Are a notification and a certification sent with each waste shipment?

Yes ___ No ___

If no, is the waste subject to a tolling agreement pursuant to 262.20(e) (small quantity generator only)?

Yes ___ No ___ (If No, go to c.)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler

Did the small quantity generator provide a notification and a certification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

Yes ___ No ___

c. Are characteristic wastes which have been rendered non-hazardous (in a RCRA exempt unit) shipped to a Subtitle D facility?

Yes ___ No ___ NA ___ (If No or NA, go to 4.)

Complete the following table:

Waste Code	Receiving Facility

Are a notification and a certification for each shipment sent to the Regional Administrator or authorized State? [40 CFR 268.9(d)(1) and 268.7(b)(5)]?

Yes ___ No ___

4. Off-Site Management: Wastes Subject to Variances, Extensions, or Petitions

a. Does the generator ship wastes to a treatment, storage, or disposal facility which are subject to a national capacity variance (40 CFR Part 268, Subpart C), or case-by-case extension (40 CFR 268.5)?

Yes ___ No ✓ (If No, go to 5.)

Complete the following table:

Waste Code	Receiving Facility

Does the generator provide notification to the off-site receiving facility that the waste is not prohibited from land disposal? [40 CFR 268.7(a)(3)]

Yes ___ No ___

b. Is a notification sent with each waste shipment?

Yes ___ No ___

If no, is the waste subject to a tolling agreement pursuant to 40 CFR 262.20(e) (small quantity generator only)?

Yes ___ No ___ (If No, go to 5.)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler
___	_____
___	_____
___	_____

Did the small quantity generator provide a notification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

Yes ___ No ___

5. Records Retention

see the following page for a list of the missing notifications

Does the generator retain on site copies of all notifications, certifications, and other relevant documents for a period of 5 years? [40 CFR 268.7(a)(6)]

Yes ___ No ✓

Are copies of relevant tolling agreements, along with the LDR notification and/or certification, kept on site for at least 3 years after expiration or termination of the agreement? [40 CFR 268.9]

Yes ___ No ___ NA ✓

Do LDR documents reflect proper management of wastes previously covered under expired national capacity variances, case by case extensions and the soft hammer provision*?

Yes ___ No ___ NA ✓

*See Appendix B. Note that the soft hammer provision expired as of 05/08/90. Soft hammer wastes which had treatment standards established in the Third Third rule were granted a minimum 90-day national capacity variance to 08/08/90.

Comments _____

Melem Corporation
Manifests With Missing Notifications

NJD0951549	NJD0951548
NJD0951550	NJD0951552
NJD0951551	NYB2091600
NJD0901584	NJD0901585
NJD0901586	NJD0901588
NJD0901589	NJD0901590
NJD0901591	NJD0844711
NJD0901593	NJD0951522
NJD0901592	NJD0901595
NJD0901594	NJD0901596
NJD0901582	NJD0901583
NJD0901597	NJD0951525
NJD0901526	NJD0951527
NJD0957898	NJD1157193
NJD1177249	NJD0951544

D. Treatment Using RCRA 40 CFR Parts 264 and 265 Exempt Units or Processes

1. Are restricted wastes treated in RCRA exempt units (i.e., boilers, furnaces, distillation units, wastewater treatment tanks, elementary neutralization, etc.)?

   Yes ___ No ✓ (If No, do not complete this section.)

   List types of waste treatment units and processes:

Waste Code	Type of Treatment	Treatment Units and Processes

2. Are treatment residuals generated from these units?

   Yes ___ No ___

   Comments _____

3. Are residuals further treated, stored for greater than 90/180 days, or disposed on site?

   Yes ___ No ___ NA ___

   (If yes, the TSD checklist must also be completed.)

E. Additional Comments, Concerns, or Issues Not Addressed in the Checklist:

_____

Waste Minimization Checklist

GENERATOR CHECKLIST

MANIFEST

GENERAL 262.20	YES	NO	N/A
Does the generator, offer for tranportation, hazardous waste for off-site treatment/disposal? If yes, proceed to next question. If no, proceed to 264.75/265.75.	✓		
262.23			
Does the generator sign the manifest certification which states:	✓		

" If I am a large quantity generator, I have a program in place to reduce the volume and toxicity of the waste generated to the degree I have determined to be economically practical and that I have selected the practical method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the enviroment; OR, if I am a small quantity generat :, I have made a good effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford."

Does the generator have a written Waste Minimization Plan?		✓	
If no, is the generator able to describe his plan orally.	✓		

COMMENTS:
(Explain in this space the areas that visually show evidence that a program is in place and is being implemented)

recycling
- oil reclamation unit
- water treatment plant
(newly installed - reduces amount of waste from various machines and operations)

ANNUAL/BIENNIAL REPORT

262.41	YES	NO	N/A
Has the generator submitted Annual (AR) or Biennial reports (BER) to the appropiate regulatory agency?	✓		

The inspector should review these reports prior to the inspection (see above), and should try to verify the information in the report during his/her site inspection. The following questions should be addressed during the inspection.

262.56(a)(5)			
Does the BER or AR include the efforts undertaken during the year to reduce the volume of toxicity of the wastes generated?	✓		
Does the BER or AR include a description of the changes in volume and toxicity of the wastes actually achieved during the year in comparison to previous years?	✓		
Do these efforts match the information contained in the generator's written or verbally described waste minimization program.	✓		
Is the BER or AR certification signed by the generator or authorized representatives?	✓		

TOXICITY CHARACTERISTIC ("TC") INSPECTION CHECKLIST

1. Has the handler tested all its solid waste streams using the TCLP?

   Yes_____ No ✓

   a) If no, are there any waste streams which should be tested.

   Explain No. All hazardous wastes are currently being monitored at site. The appropriate information is on the manifests.

   b) If the handler is a TSD, has the owner/operator revised its waste analysis plan to incorporate the new TCLP requirements?

   N/A Yes_____ No_____

2. Does the handler generate waste exceeding the regulatory level for any constituent listed in Table I-TC?

   Yes ✓ No_____

   If no this checklist need not be completed.

3. Was the handlers waste(s) considered a federal hazardous waste prior to the promulgation of the new TCLP requirement?

   Yes ✓ No_____

   If No, proceed to question number 4. If yes, answer questions 3a), 3b) and 3c) and then stop.

   a) Have both the listed and characteristic waste code been assigned, were a listed waste exhibits a characteristic for which the waste is not listed?

   N/A Yes_____ No_____

   Comments _____

   b) Does the handler determine and list on its manifests all of it's waste(s) TCLP characteristics?

   Yes ✓ No_____

   Comments _____

c) If the generator is also a TSD, has the owner or operator submitted a revised Part A permit application or if permitted a permit modification request indicating the new hazardous constituent(s) found in their waste(s)?

N/A Yes_____ No_____

4. Is the waste managed as a hazardous waste?

Yes_____ No_____

If No, this is a high priority violation. Be sure to obtain a detailed description of the wastes final disposition.

Comments _____

a) If the generator is also a TSD, has the owner or operator submitted a revised Part A permit application or if permitted a permit modification request for the previously unregulated waste or hazardous waste unit which has become subject to hazardous waste regulation as a result of the new TC Rule?

Yes_____ No_____

NOTE: The inspector should bear in mind that any waste stream, unit or handler newly regulated on account of the change in the analytical procedures associated with the Toxicity Characteristic may now be subject to all the applicable requirements of N.J.A.C. 7:26-1, 7 - 12 and 40 C.F.R. Parts 260 - 270. All applicable current checklists should be used to determine compliance status.

EFFECTIVE DATES FOR COMPLIANCE WITH TC REQUIREMENTS

Generators of ≥1,000 kg/mo. of hazardous waste	9/25/90
Generators of <1,000 kg/mo. of hazardous waste	3/29/91

ADDITIONAL COMMENTS: _____

Subcategory Checklist

I. Characteristic Wastes.

A) Does facility handle D001 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Ignitable compressed gas	Yes_____	No_____
Ignitable liquids High TOC ≥ 10%	Yes_____	No_____
Ignitable liquids Low TOC < 10%	Yes_____	No_____
Ignitable reactives	Yes_____	No_____
Oxidizers [wastewater or non-wastewater]	Yes_____	No_____
Ignitible liquids [wastewater or non-wastewater]	Yes_____	No_____

B) Does facility handle D002 waste ?
Yes ✓ No_____
If yes, which subcategory(ies) ?

Acids, pH ≤ 2 [wastewater or non-wastewater]	Yes ✓	No_____
Alkaline, pH ≥ 12.5 [wastewater or non-wastewater]	Yes_____	No ✓
Radioactive high level wastes	Yes_____	No ✓

C) Does facility handle D003 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Explosives [wastewater or non-wastewater]	Yes_____	No_____
Reactive cyanides:		
'wastewater - cyanides ≥ 0.86 ppm	Yes_____	No_____
'non-wastewater - total cyanides ≥ 590 ppm and amenable cyanides ≥ 30 ppm	Yes_____	No_____
Reactive sulfides [wastewater or non-wastewater]	Yes_____	No_____
Reactive [wastewater or non-wastewater]	Yes_____	No_____

D) Does facility handle D004 waste ?
Yes_____ No ✓
If yes, is it this subcategory ?

Radioactive high level wastes	Yes_____	No_____

E) Does facility handle D005 waste ?
Yes_____ No ✓
If yes, is it this subcategory ?

Radioactive high level wastes	Yes_____	No_____

F) Does facility handle D006 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Cadmium batteries	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

G) Does facility handle D007 waste ?
Yes ✓ No_____
If yes, Is it this subcategory ?

Radioactive high level wastes	Yes_____	No ✓

H) Does facility handle D008 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Lead acid batteries	Yes_____	No_____
Radioactive lead solids	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

I) Does facility handle D009 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm [organics or non-organics]	Yes_____	No_____
Low mercury < 260 ppm	Yes_____	No_____
Elemental mercury with radioactive materials	Yes_____	No_____
Hydraulic oil with mercury and radioactive materials	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

J) Does facility handle D010 waste ?
Yes_____ No ✓
If yes, Is it this subcategory ?

Radioactive high level wastes ?	Yes_____	No_____

II. Listed wastes

A) Does facility handle F001-F005 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Non-pharmaceutical	Yes_____	No_____
Pharmaceutical [methylene chloride ≥ 0.44 mg/l]	Yes_____	No_____

B) Does facility handle F025 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

Filters, filter aids, and/or desiccants [wastewater or non-wastewater] Yes_____ No_____
Light ends Yes_____ No_____

C) Does facility handle K061 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

High zinc ≥ 15% Yes_____ No_____
Low zinc < 15% Yes_____ No_____

D) Does facility handle K069 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

Calcium sulfate Yes_____ No_____
Non-calcium sulfate Yes_____ No_____

E) Does facility handle K106 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

F) Does facility handle P065 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

G) Does facility handle P092 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

H) Does facility handle U151 waste ?
Yes_____ No_✓_____
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____
Radioactive elemental mercury Yes_____ No_____

California List Applicability

I. California List Waste Determination.

A) Using either knowledge of the waste or determination by the paint filter liquids test (PFLT), has the generator determined whether its waste is a liquid ?
Yes ✓ No____

B) Current Applicability.

1) Do liquid hazardous wastes contain over 50 ppm PCBs ?
Yes____ No ✓

2) Do hazardous wastes contain Halogenated Organic Compounds (HOCs) where it is identified as hazardous by a characteristic property that does not involve HOCs ?
Yes____ No ✓

3) Do liquid hazardous wastes contain a total concentration of more than 134 mg/l of nickel and/or 130 mg/l of thallium ?
Yes____ No ✓

See LDR Checklist pg. 8 if yes is answered to any of the above questions, the waste is currently subject to California List Prohibitions.

C) Historical Violations.

California List Prohibitions became effective on July 8, 1987 for wastes falling under any of the following descriptions:

1) Does the liquid hazardous waste, including free liquids associated with solid or sludge, contain free cyanide at concentrations ≥ 1000 mg/l ?
Yes____ No ✓

2) Does liquid hazardous waste, including free liquids associated with any solid or sludge, contain the following metals (or elements) or compounds of these metals (or elements) at concentrations greater than or equal to these prohibition levels ?
Yes____ No ✓

Arsenic	500 mg/l	Yes____	No____
Cadmium	100 mg/l	Yes____	No____
Chromium VI	500 mg/l	Yes____	No____
Lead	500 mg/l	Yes____	No____
Mercury	20 mg/l	Yes____	No____
Nickel	134 mg/l	Yes____	No____
Selenium	100 mg/l	Yes____	No____
Thallium	130 mg/l	Yes____	No____

3) Does the liquid (aqueous) hazardous waste have a pH ≤ 2 ?

Yes ✓ No ____

4) Do HOC wastewaters, defined as HOC-waste mixtures that are primarily water, contain ≥ 1000 mg/l but < 10,000 mg/l ?

Yes ____ No ✓

5) Do other liquid hazardous wastes contain HOCs in total concentrations ≥ 1000 mg/l ?

Yes ____ No ✓

6) Do non-liquid hazardous wastes contain HOCs in total concentrations > 1000 mg/kg ?

Yes ____ No ✓

7) Do liquid hazardous wastes contain polychlorinated biphenyls (PCBs) at concentrations ≥ 50 ppm but < 500 ppm ?

Yes ____ No ✓

8) Does the liquid hazardous waste contain PCBs ≥ 500 ppm ?

Yes ____ No ✓

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
DIVISION OF ENFORCEMENT FIELD OPERATIONS
NORTHERN BUREAU OF WATER & HAZARDOUS WASTE ENFORCEMENT
1259 ROUTE 46 EAST, BUILDING #2
PARSIPPANY, NEW JERSEY 07054-4191

Robert C. Shinn, Jr.
Commissioner

Mr. Joel Golumbek, Chief
US EPA Region II
290 Broadway
22nd Floor
New York, NY 10007-1886

May 3, 1995

Re: Metem Corporation
700 Parsippany Road, Parsippany, NJ
NJD 002 139 244

Dear Mr. Golumbek:

On May 1, 1995, Mr. Brian Farbanish of this office performed a RCRA inspection at the referenced facility. During this inspection, Mr. Farbanish noted that copies of approximately twenty-nine (29) land disposal notifications were not being kept at the site.

In addition, Mr. Farbanish discovered five other RCRA violations for which he issued Notice of Violation.

I have enclosed the RCRA report for your review. If you have any questions regarding this matter, please feel free to call me at (201) 299-7592.

Sincerely,

Farouk Afrasiabi, M.S.
Farouk Afrasiabi, M.S.
Hazardous Waste Supervisor

Attachments

c: Joseph Mirabella, w/o attachments
Brian Farbanish, w/o attachments
File

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FILE #: 14 - 29 - 15

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
& ENERGY

DIVISION OF ENFORCEMENT FIELD OFFICES

BUREAU: Northern

GENERATOR INSPECTION REPORT

FACILITY INFORMATION

FACILITY NAME: Metem Corporation

EPA ID NUMBER: NJD 002 139 244

STREET ADDRESS: 700 Parsippany Rd

MUNICIPALITY: Parsippany ZIP CODE 07054 COUNTY: Morris

MAILING ADDRESS: Same

TELEPHONE # 201-887-6635 FAX # 201-887-1755

BLOCK : 239 LOT : 2

FACILITY PERSONNEL: Ismael Lopez - Facility Mgr
(name & title)

INSPECTION DATE: 5/1/95 DATE REPORT SUBMITTED: 5/3/95

INSPECTOR'S NAME & TITLE: Brian E Farbanish
Sr Env Spec

OTHER STATE/EPA PERSONNEL: -

REPORT PREPARED BY: Brian E Farbanish

REVIEWED BY: [illegible] DATE OF REVIEW: 5/4/95

DEFO 29 REV. 08/31/94

INSPECTION DATE(S): 5/1/95
TIME IN: 875
TIME OUT: 1200

PHOTOS TAKEN: YES( ) NO(✓) QUANTITY( ) ATTACH PHOTO LOG

SAMPLES TAKEN: YES( ) NO(✓) HOW MANY( ) ATTACH SAMPLE LOG

SITE BACKGROUND INFORMATION

EMPLOYEES: ~120 SHIFTS/WEEK: 2- 10 hr shifts 15 days/wee

DATE OPERATIONS BEGUN: 1961

ACRES: ~20 # OF BUILDINGS: 1

PRODUCTS PRODUCED: blades for gas turbines

PREVIOUS OPERATIONS AT SITE: None

NON-HW. TANKS ON SITE: 1- 4000 gal - raw material
(provide a list of tanks and capacities)
28- 800 gal process tanks

AIR PERMITS: 1- dust collector

NJPDES PERMITS: 1- rain/storm water

PERMITS OTHER:

WATER SUPPLY-PUBLIC: ✓ WELL:

SEPTIC: none

FLOOR DRAINS: none DISCHARGE TO:

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road, Parsippany, N.J.
EPA ID Number NJD 002 139 244
5/1/95

INSPECTION AND GENERAL FACILITY DESCRIPTION AND OPERATIONS

Background:

MC is located on an approximately 20 acre site in Parsippany. There are 120 employees at this site. Approximately two of these employees deal with the hazardous waste.

The Parsippany Road site is comprised of one building. This building houses the manufacturing, storage and office sections of MC.

Inspection and Findings:

During the inspection Ismeal Yepes described the main work performed at the facility. MC is in the business of manufacturing blades for gas turbines. According to Mr. Yepes, the operations have not changed since the last inspection. For a further explanation of the facility, see the previous inspection reports in this file.

The actual manufacturing begins after the parts are received from the individual vendors. First, the metal castings are transferred to either the EDM (Electrical Discharge Machine) area or the ECM [Electro-chemical Machine] area depending on the order. These machines use different procedures for the cutting of the metal castings.

The EDM machines use an electrical charge to machine the metal parts. All of the EDM operations are performed in oil. Each of the machines hold approximately 60 gallons of oil. This oil is constantly being recycled using a series of filters (connected to the machines).

As needed, the filters are removed from the EDM's and the material on them is scraped/drained into an approximately 60 gallon centrifuge. Using this centrifuge, MC can separate the oil from the other unwanted material. Finally, the filters are placed into a 55 gallon satellite drum and handled as a hazardous waste.

Any oil remaining after the centrifuging process is completed is removed from the centrifuge and placed into storage until it can be used at a later date in the various machines on-site. The remaining sludge is then placed into 55 gallon drum and handled as hazardous waste.

The above mentioned procedures are responsible for the generation of approximately 110 gallons of waste filters every two weeks and approximately 825 gallons of waste oil/sludge every quarter. For a complete listing of the satellite wastes in this area, see the hazardous waste inventory section of this report. Please note, one 55 gallon drum of oil spill cleanup waste (approximately 1/4 full) in this area was not securely closed. This violation was quickly corrected.

This section of MC also houses the oil/water separator. This unit is used to process the mop water from MC. After the completion of the separation process, the waste oil is placed into a 55 gallon satellite drum and is handled as a hazardous waste. The remaining water is then transferred to the waste water treatment section of MC. Approximately 55 gallons of waste oil are generated from this procedure every month.

Next, the ECM section of MC was inspected. These machines use electricity combined with acid to create the necessary cuts in the metal castings. There are approximately 30 ECM's located at this site. Each of these machines house two separate filters. As these filters become unusable (approximately every two weeks), they are removed and placed into a satellite drum. Currently, there is one 55 gallon satellite drum of waste acid filters (approximately 1/4 full) in this area. It is not properly labeled or securely closed. These deficiencies were corrected by the conclusion of the inspection.

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road, Parsippany, N.J.

Inspection Continued

As the satellite containers become full, they are transferred to the hazardous waste storage area. This area is located outside, on the side of the building. It is near the raw material storage area. See the hazardous waste storage section of this report for a complete listing of the wastes in this area.

MC also operates a waste water treatment plant. As waste water is generated from the ECM or floor sweeping operations, it is transferred to this area, processed, neutralized and discharged to the local sewage authority. The remaining sludge is then placed into a filter press. The press is used to remove the remaining liquid. Eventually, the filter cake will be placed into a 30 cubic yard roll-off and handled as a hazardous waste. Normally, MC generates approximately 30 cubic yards of filter cake waste every two months. Presently, there is one 30 cubic yard roll-off (approximately 3/4 full of filter cake waste) near this area. It is not properly labeled. This violation was also quickly corrected.

The machine shop was also inspected during the tour of the company. This area houses various drills and lathes. It is used to perform routine machine work and various repairs.

As of this inspection, MC is assembling an acid recycler machine for use on-site. This machine will be used on a trial basis for one month. If this machine proves effective, it will be used permanently at MC. The recycled acid from this reclamation machine will be reused in the ECM's on-site. Overall, MC anticipates that this will greatly reduce the amount of acid waste generated from this site. In addition, the amount of waste water/filter cake waste being generated by MC will also be greatly reduced.

By the completion of this inspection, MC had come into compliance with the following violations: NJAC 7:26 9.3(d)2; 9.3(d)3, 9.3(a)3.

To The File
From Brian Farbanish
Through Farouk Afrasiabi
Metem Corporation (MC), 700 Parsippany Road, Parsippany, N.J.

HAZARDOUS WASTE GENERATION

Waste Streams:

This company generates several different waste streams. They include filter cake waste (D007), waste acid filters (D002), waste oil/oil sludge (X726) and oil spill cleanup waste (X725).

The filter cake waste is generated during the processing of the waste water. The waste acid filters are generated during the removal of the unusable filters in the ECM's. Oil spill cleanup waste is generated during the routine operations at MC.

Waste oil/sludge is generated during the oil recycling process. In addition, waste oil is also generated during the oil/water separation process.

The F001 waste manifested off-site on 11/6/92 was from the removal of 1,1,1 trichloroethane waste from a vapor degreasor that had been previously removed.

The remaining waste (U002) was from the removal of old, unwanted material.

HAZARDOUS WASTE INVENTORY

LOCATION	WASTE CODES	DESCRIPTION	QUANTITY PRESENT
90 day Hazardous waste storage area	X726	waste oil - sludge	2-55 gal drums (full
	X725	oil spill cleanup material	1-55 gal drum (full
	D002	waste acid filters	1-55 gal drum (full
90 day hazardous waste storage area 2	D007	filter cake waste	1-30 cubic yard roll-off (1/2), full
Satellite areas			
EDM area	X726	waste oil	1-55 gal drum (1/4 fu
	X725	oil spill cleanup waste	1-55 gal drum (1/4 fu
	X726	waste oil filters	1-55 gal drum (1/4 fu
EDM area	D002	waste acid filters	1-55 gal drum (1/4 fu

add additional pages as needed

MANIFESTS REVIEWED

Manifests reviewed from 5/1/92 through 5/1/95

Number of manifests in compliance: 43

Number of manifests NOT in compliance: 0

Total number of manifests reviewed: 43

According to the manifests, does the facility import or export any waste? YES ___ NO ✓

(if yes, complete the import/export section of this report)

List manifest document numbers of those manifests not in compliance and note each deficiency.

Attach copies of manifests which have deficiencies.

Manifest#	DATE	N.J.A.C.7:26-	Comments

add additional pages as needed

GENERATOR INDEX

CHECK THE SECTIONS AND ACTIVITIES OF THIS REPORT WHICH ARE APPLICABLE TO THE FACILITY AND COMPLETE THOSE SECTIONS FOR THIS INSPECTION.

SECTIONS NOT APPLICABLE ARE NOT INCLUDED IN THE REPORT.

GENERATOR WASTE MANAGEMENT PRACTICES

#	SECTION	PAGE
1.	MULTI MEDIA CHECKLIST	7. ____
2.	WASTE DETERMINATION	8. ✓
3.	GENERATOR STATUS	9. ✓
4.	SATELLITE STORAGE AREAS	10. ✓
5.	GENERATOR STORAGE AREAS	11. ✓
6.	GENERATOR ABOVE GROUND TANKS STORAGE AREAS	12. ____
7.	WASTE OIL USAGE	13. ✓
8.	WASTE MANAGEMENT PRACTICES	14. ✓
9.	GENERATOR MANIFESTS	15. ✓
10.	CONTINGENCY PLAN & EMERGENCY PROCEDURES	19. ✓
11.	PERSONNEL TRAINING	21. ✓
12.	PREPAREDNESS & PREVENTION	23. ✓

SECTION 1

MULTI MEDIA INSPECTION CHECKLIST

THE FOLLOWING CHECKED AREAS OF CONCERN WERE IDENTIFIED. EACH APPROPRIATE SECTION OF THE MULTIMEDIA CHECKLIST WAS COMPLETED AND IS INCLUDED IN THE REPORT.

#	SECTION	
1.	AIR POLLUTION CONTROL	_____
2.	WATER POLLUTION CONTROL	_____
3.	UNDERGROUND STORAGE TANKS	_____
4.	TOXIC SUBSTANCES CONTROL ACT (TSCA)	_____
5.	EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW	_____
6.	SPILL PREVENTION (DISCHARGE PREVENTION), CONTROL, AND COUNTER-MEASURES (SPCC & DPCC) PLANS	_____
7.	WETLANDS	_____
8.	IERA (FORMERLY ECRA)	_____
9.	SPILL ACT	_____

SECTION 8

WASTE DETERMINATION

	YES	NO
DOES the facility generate "solid waste".	✓	
DOES the facility generate a "hazardous waste".	✓	
IS THE FACILITY CORRECTLY CLASSIFYING ITS WASTES?	✓	

IF NO, CHECK THE ITEMS OF NON COMPLIANCE.

8.5(a) Generator failed to determine if its "solid waste" is hazardous? _____

8.5(f) Generator failed to keep records of test results, analysis, or other determination for 3 years. _____

7.4(a)4x Generator FAILED to properly classify its waste according to the "Hierarchy". _____

COMMENTS

_____ add additional pages as needed

SECTION 3.

GENERATOR STATUS

	YES	NO
Does the generator generate/accumulate >100 kg of hazardous waste (1 kg acutely) or greater than 1001 gal of listed waste oil in any calender month? (except x725 - 100 kg rule applies)	✓	

IF YES,

7.6(a)1 The Generator failed to have an EPA ID number.		

IF THE GENERATOR IS A SQG,

Does the generator wish to deactivate his EPA ID. number?		

COMMENTS

SECTION A

SATELLITE ACCUMULATION AREAS

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE SATELLITE ACCUMULATION REGULATIONS?		✓

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

9.3(d)1	Quantity of waste EXCEEDS 55 gal.or 1 qt. of acutely hazardous waste.	
9.3(d)2	Containers FAIL to:	
	Meet the standards of 7.2 (Container Requirements).	
	Poor or leaking container.	
	Container made of incompatible material.	
	Container not kept securely closed.	✓
9.3(d)3	Accumulation area is:	
	NOT at or near a point of generation.	
	NOT under the control of the operator.	
9.3(d)4	Containers NOT marked "Hazardous waste".	✓
9.3(d)5	Containers NOT marked with date when filled.	
9.3(d)6	Containers NOT moved from satellite area within three days.	

COMMENTS

- 1-55 gal drum (1/4 full - oil spill clean up material) - not securely closed - located in EOM section - X225
- 1-55 gal drum (1/4 full - acid filters) in EOM section not properly labeled or securely closed - Dave.

SECTION 5

GENERATOR CONTAINER ACCUMULATION AREAS

		YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE GENERATOR STORAGE REGULATIONS?			✓
IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.			
7.2(a)	NO manifest number on containers ready for disposal.		
7.2(b)	Containers FAILED to meet DOT regulations. (49CFR 171,179) specs for packaging/labeling.		
9.3(a)1	Waste ACCUMULATED OVER 90 DAYS.		
9.3(a)3	Containers NOT marked with accumulation start date or "Hazardous Waste".	✓	
9.4(d)1i	Containers NOT of adequate construction.		
9.4(d)1ii	Closures NOT of sufficient strength.		
9.4(d)2	Containers NOT in good condition/owner FAILED to transfer.		
9.4(d)3	Containers NOT compatible with waste.		
9.4(d)4i	Containers NOT kept closed.		
9.4(d)4iii	Containers NOT managed properly to prevent rupture/leak.		
9.4(d)4iv	Hazardous wastes NOT segregated by waste type.		
9. 4(d)4v	ID Labels NOT visible.		
9.4(d)5	Accumulation area NOT inspected daily.		
9.4(d)6	Containers of ignitable and reactive wastes NOT located at least 50 feet from the facility's property line.		
9.6(d)	Access to communication or alarm system is NOT maintained.		
9.6(e)	INADEQUATE aisle space.		

COMMENTS:

1 - ~30 cubic yard roll-off (~3/4 full - filter cake - Door waste) not properly labeled

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SECTION 6

ABOVE GROUND TANKS

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE ABOVE GROUND <90 DAY STORAGE TANK REGULATIONS?	____	____

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

If the generator stores hazardous waste in an above ground tank for <90 days, the generator FAILED to:

9.3(b) Have a letter of approval. ____

9.3(b)2 Have overfilling controls. ____

9.3(b)3 Have secondary containment. ____

9.3(b)4 Insure that 99% of the tank can be emptied. ____

9.3(b)5 Empty the tank every 90 days. ____

9.3(b)8 If part of the tank is below grade, all of the tank CANNOT be visually inspected. ____

9.3(b)9 Label or mark the tank(s) with the words "HAZARDOUS WASTE". ____

COMMENTS:

SECTION 7

WASTE OIL USAGE

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE WASTE OIL STORAGE REGULATIONS?	✓	

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

The generator ONLY generates or accumulates less than 1001 gals. of waste oil per month* and:

7.7(d) Generator FAILED to obtain receipts and retain them for three years. _____

7.7(d) Generator FAILED to use authorized hazardous waste hauler. _____

7:26A-6.3(b) Generator MIXED other contaminants with waste oil. _____

9.2(b) If under ground tanks are used to store waste oil, the generator is NOT a:

1. New commercial service station waste oil tanks of < 1001 gal capacity* _____

or does NOT:

2. Use underground tanks in existence and in use for Hazardous Waste storage prior to 1/17/83. _____

*NOTE: (A) If the generator disposes of over 100kg of hazardous waste and any listed waste oil in the same month, he must manifest off the waste oil but may not have to comply with subchapter 9 requirements for waste oil (see C below).

(B) If the generator generates >1001 gal. of waste oil in any given month, he MUST use a hazardous waste manifest for all qualities over the first 1001 gallons.

(C) If the generator accumulates >1001 gal. of waste oil in any given month, he MUST be in compliance with ALL generator subchapter 9 requirements. All appropriate sections of the generator checklist should be completed.

SECTION B

WASTE MANAGEMENT PRACTICES

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE WASTE MANAGEMENT REGULATIONS?	✓	

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

12.1(a)	Generator IS ACTING as a TSDF by:	
	1. Treating hazardous waste.	
	2. Storing hazardous waste.	
	3. Disposing of hazardous waste on site.	
9.3(a)1	Site IS ACTING as a generator but accumulating waste in containers or approved tanks for more than 90 days.	
9.2(a)2	Hazardous waste IS handled in a manner which causes or may cause a spill.	
9.2(b)1	Hazardous waste IS stored in a new UST.	
9.2(b)2	Hazardous waste IS stored in an existing UST.	
9.2(b)4	Hazardous waste IS stored in waste piles.	
9.2(c)	Hazardous waste IS discharged improperly to a sewer system.	

IF THE FACILITY IS ACTING AS A TSDF, COMPLETE THE TSD REPORT.

COMMENTS:

SECTION 9

GENERATOR MANIFESTS

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE GENERATOR MANIFEST REGULATIONS?	✓	

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE

7.4(a)3	Generator FAILED to prepare a Hazardous Waste Manifest.	
7.4(a)4	Each manifest failed to have the following information:	
7.4(a)4i	Generator's name, mailing address (site address if different), and phone number.	
7.4(a)4ii	The generator's EPA ID number.	
7.4(a)4iii	The transporter(s) name, phone number, MJ registration numbers.	
7.4(a)4iv	The transporter(s) EPA ID number.	
7.4(a)4v	The name, address and phone number of the designated TSD facility.	
7.4(a)4vi	The TSDF's EPA ID number.	
7.4(a)4vii	The proper USDOT description.	
7.4(a)4vii	Complete NOS information in item J.	
7.4(a)4viii	Special handling instructions, including DOT descriptions for NOS material & 2 major constituents, a 24 hour emergency number, as per 49CFR172.201(d), or decal number.	
7.4(a)5i	The generator signature and date.	
7.4(a)5ii	Transporter's signature & date.	
7.4(a)5iii	Generator FAILED to retain copy and forward copies to the state of origin & state of destination.	
7.4(a)5v ..	Generator FAILED to give the remaining copies to hauler.	
7.4(e)1	Generator FAILED to properly complete manifest.	
7.4(e)2	Generator FAILED to use a registered Transporter.	
7.4(e)3	Generator FAILED to designate an authorized TSD or reuse facility.	

7.4(e)4	Generator FAILED to utilize an authorized TSD.	_____
7.4(f)	Generator FAILED to maintain the following facility records for three (3) years:	
7.4(f)1	Manifests.	_____
7.4(f)2	Annual and/or exception reports.	_____
7.4(f)3	Generator FAILED to maintain records during the course of unresolved enforcement action or as requested.	_____
7.4(g)1	Generator FAILED to submit annual report on time.	_____
7.4(g)2	Generator, who stores waste >90 days, FAILED to submit annual report of treatment & disposal activities on time.	_____
7.4(h)1	When the generator has FAILED to receive signed copies of all manifests, he failed to notify the TSD or Department within 35 days.	_____
7.4(h)2	Generator FAILED to file exception reports within 45 days.	_____

COMMENTS:

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

SECTION 11

CONTINGENCY PLAN AND EMERGENCY PROCEDURES

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE CONTINGENCY PLAN & EMERGENCY PROCEDURES REGULATIONS?	✓	

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

9.7(a)	NO written contingency plan.	
9.7(b)	Generator FAILED to implement the plan in an emergency.	
9.7(c)	Plan FAILED to describe the response actions facility personnel and local authorities shall take.	
9.7(d)	Generator has a OPCC or SPCC Plan and FAILED to amend that plan to incorporate hazardous waste management.	
9.7(e)	Plan FAILS to describe arrangements agreed to by local authorities.	
9.7(f)	Plan FAILS to list names, addresses, and phone numbers (office and home) of emergency coordinators.	
9.7(g)	Plan FAILS to include a list, location, AND CAPABILITIES of all emergency equipment.	
9.7(h)	Plan FAILS to describe evacuation procedures, evacuation signal(s) AND routes.	
9.7(i)	Generator FAILED to:	
	1. Keep a copy of the plan at the facility.	
	2. Submit the contingency plan to local authorities.	
9.7(j)	Generator FAILED to revise the contingency plan when:	
	1. Applicable regulations are revised.	
	2. The plan fails.	
	3. The facility changes.	
	4. The Emergency Coordinator changes.	
	5. The emergency equipment changes.	
9.7(k)	Emergency coordinator NOT available.	

9.2(a)2 Hazardous waste is stored in a manner which may or does cause a discharge.

COMMENTS:

SECTION 12

PERSONNEL TRAINING

		YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE PERSONNEL TRAINING REGULATIONS?		___	✓

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

9.4(g)2	Training program NOT directed by a person trained in hazardous waste management procedures and,	
9.4(g)3	NOT designed to ensure that facility personnel are able to respond effectively to emergencies.	___
9.4(g)3	Program FAILS to include the following response emergency response procedures and equipment:	
9.4(g)3i	Use of personnel safety equipment.	___
9.4(g)3ii	Procedures for using facility emergency and monitoring equipment.	___
9.4(g)3iii	Key parameters for automatic waste feed cut-off systems.	___
9.4(g)3iv	Procedures for utilizing communications or alarm systems.	___
9.4(g)3v	Responds procedures for fires & explosions.	___
9.4(g)3vi	Ground water contamination responds procedures.	___
9.4(g)3vii	Shutdown procedures.	___
9.4(g)4	Personnel have NOT successfully completed training within six months of the date of their employment or assignment to a new position at the facility.	___
9.4(g)5	Personnel do NOT take part in an annual review of training.	___
9.4(g)6	NO written documentation of the following:	
9.4(g)6i	Job title for each position and the name of the employee filling each job.	___
9.4(g)6ii	A written job description.	___
9.4(g)6iii	Description of the training given to personnel.	___
9.4(g)6iv	Documentation of actual training.	___
9.4(g)7	Training records NOT kept.	___

/ 9.4(g)8 Semi-annual drills, involving all employees and local authorities NOT conducted. had 1 drill in 1994 V

AND,

9.4(g)8i Generator FAILED to petition the Department for an exemption from the drill requirement.

OR

9.4(g)8ii Generator FAILED to petition the Department for an exemption excluding local officials.

COMMENTS

SECTION 13

PREPAREDNESS AND PREVENTION

	YES	NO
IS THE FACILITY IN COMPLIANCE WITH THE PREPAREDNESS & PREVENTION REGULATIONS?		✓

IF NO, CHECK THE ITEMS OF NONCOMPLIANCE.

9.6(b)	Facility FAILS to have:	
9.6(b)1	Communications or alarm system.	
9.6(b)2	A telephone or device to summon emergency assistance.	
9.6(b)3	Portable emergency equipment.	
9.6(b)4	Adequate Water supply.	
9.6(c)	Generator FAILED to test and maintain emergency equipment.	
9.6(f)	Generator FAILED to:	
9.6(f)1	Familiarize Police, fire departments, and emergency response teams with the layout of the facility, & hazardous waste handled.	
9.6(f)2	Have an agreement designating primary emergency authority to a specific police and fire department where more than one Police and fire department are involved.	
9.6(f)3	Make agreements with emergenry response contractors, and equipment supplier.	
9.6(f)4	Make arrangements to familiarize local hospitals with the properties of hazardous waste handled at the facility and the types of injuries result from fires, explosions, or discharges at the facility.	
9.6(f)5	Make arrangements with local fire departments to inspect the facility on a regular basis with at least two (2) inspections annually.	✓
9.6(f)6	Document when authorities identified in (f)1 through 5 above declined to enter into such arrangements.	

EFO-018
1/94

111

New Jersey Department of Environmental Protection and Energy
Div. of Enforcement Field Operations — Hazardous Waste Section
1259 Route 46, Bldg. #2, Parsippany, N.J. 07054
(201) 299-7592

NOTICE OF VIOLATION

EPA ID NO. NJD 002 139 244 DATE 5/1/95

NAME OF FACILITY Metem Corporation

LOCATION OF FACILITY 700 Parsippany Road Parsippany

NAME OF OPERATOR Ismael Yepes

You are hereby NOTIFIED that during my inspection of your facility on the above date, the following violation(s) of the Solid Waste Management Act, (N.J.S.A. 13:1E-1 et seq.) and Regulations (N.J.A.C. 7:26-1 et seq.) promulgated thereunder were observed. These violation(s) have been recorded as part of the permanent enforcement history of your facility.

DESCRIPTION OF VIOLATION 9.3(d)2* Failure to have satellite container securely closed. 9.3(d)4* Failure to label satellite container with the words hazardous waste. 9.3(g)3* Failure to label storage container with accumulation start date. 9.4(g)8 Failure to have semi-annual drills in 1994. 9.6(f)5 Failure to request semi-annual fire inspections

Remedial action to correct these violations must be initiated immediately and be completed by 5/16/95. Within fifteen (15) days of receipt of this Notice of Violation, you shall submit in writing, to the investigator issuing this notice at the above address, the corrective measures you have taken to attain compliance. The issuance of this document serves as notice to you that a violation has occurred and does not preclude the State of New Jersey, or any of its agencies from initiating further administrative or legal action, or from assessing penalties, with respect to this or other violations. Violations of these regulations are punishable by penalties of $50,000 per violation.

Brian Fenlon
Investigator, Division of Enforcement Field Operations
Department of Environmental Protection & Energy

* corrected during initial inspection

Copy Received by: Ismael Yepes

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

I. General Information

Facility Name: Metem Corporation

U.S. EPA ID#: NJD 002 139 244 SIC Code: 3511

Street: 700 Parsippany Road

City: Parsippany State: NJ Zip: 07054

Telephone #: 201-887-6635 Telefax #: 201-887-1755

Inspection Date: 5/1/95 Time: 815

	Name	Agency/Title	Telephone #
Inspectors:	Brian Farbarsh	NJDEP/Sr Env Spec	201-209-7592
Facility Reps*:	Ismael Yepez	Metem/Facility Mgr	201-887-6635

* - Primary Environmental Contacts

See Appendix B to determine which of the following LDR waste categories the facility manages:

	Generate	Transport	Treat	Store	Dispose
F001-F005	✓				✓
F020-F023 & F026-F028					
California List					
First Third					
Second Third					
Third Third	✓				✓

INSPECTION SUMMARY

Processes that Generate LDR Wastes:

LDR Waste Management:

see RCRA report

Summary of Potential LDR Violations:

Inspector Name and Title: Brian E Fodanish Senior Env. Spec.

Signature: Brian E Fodanish

RCRA LAND DISPOSAL RESTRICTIONS INSPECTION

I. Waste Code Determination

1. Have all wastes been correctly identified for purposes of compliance with 40 CFR Part 268?

   Yes ✓ No ____

   If no, list below:

Assigned Classification	Correct Classification

   Comments: ____

2. Have both the listed and characteristic waste code been assigned, where a listed waste exhibits a characteristic? [40 CFR 268.9(a)]

   Yes ✓ No ____ NA ____

   Comments: ____

3. Has multi-source leachate been assigned the F039 waste code [40 CFR 261.31]?

   Yes ____ No ____ NA ✓

   If yes, was single-source leachate combined to form multi-source leachate [55 FR22623]?

   Yes ____ No ____

   Comments: ____

II. GENERATOR REQUIREMENTS

A. Treatability Group/Treatment Standard Identification

1. F001-F005 Spent Solvent Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard (* wastewater vs. non-wastewater) for each F-solvent?

   Yes ✓ No ____ NA ____

   If No, list below:

Waste Code	Assigned Classification	Correct Classification

   Comments: ____

* < 1% by weight total organic carbon (TOC), < 1% by weight total F001-F005 solvent constituents listed in 40 C.F.R. Table CCWE [40 C.F.R. 268.2(f)(1)]

2. F020-F023 and F026-F028 Dioxin Wastes: Does the generator correctly determine the appropriate treatability group/treatment standard (* wastewater vs. non-wastewater) for each dioxin waste?

Yes____ No____ NA ✓

If no, list below:

Waste Code	Assigned Classification	Correct Classification

Comments:_____

* < 1% TOC by weight and < 1% total suspended solids (TSS) by weight [40 C.F.R. 268.2(f)]

3. First, Second, and Third Third Wastes:

a. Does the generator correctly determine the appropriate treatability group/treatment standard for each waste (i.e. subcategory and *wastewater vs. non-wastewater)?

Yes ✓ No____ NA____

If no, list below:

Waste Code	Assigned Subcategory	Correct Subcategory	Assigned wastewater vs. nonwastewater designation	Correct wastewater vs. nonwastewater designation

* < 1% TOC by weight and < 1% TSS with the following exceptions: K011, K013, and K014 wastewaters - less than 5% by weight TOC and less than 1% by weight TSS; K103 and K104 wastewaters - less than 4% by weight TOC and less than 1% by weight TSS. [40 C.F.R. 268.2(f)(2) and (3)]

Comments:_____

b. Do the assigned treatment standards for listed wastes cover constituents that may cause the waste to exhibit any characteristics? [40 CFR 268.9(b)]

Yes ✓ No____ NA____

c. Does the generator specify alternative treatment standards for lab packs?

Yes____ No____ NA ✓

If yes, do lab packs only contain the following wastes* ? [40 CFR 268.42(c)(2)]

_____ Organometallics: 40 Part 268, Appendix IV constituents
_____ Organics: 40 Part 268, Appendix V constituents

* Unregulated wastes and hazardous wastes which meet treatment standards may be commingled in the appropriate Appendix IV and V lab pack. [55 FR 22629]

d. Does the generator specify alternative treatment standards for F039 multi-source leachate?

Yes_____ No_____ NA ✓

4. California List Wastes: Has the generator correctly identified the treatability group and treatment standard/prohibition level for the following wastes [55 FR 22675] ?

a. Liquid hazardous wastes containing PCB's ≥ 50 ppm

Yes_____ No_____ NA ✓

If yes, check the appropriate treatability group:

_____ 50 to 500 ppm PCB's

_____ ≥ 500 ppm PCB's

b. Listed or characteristic wastes containing ≥ 1,000 mg/l (liquids) or mg/kg (non-liquids) HOC's, which are not listed or characterized by the HOC content.

Yes_____ No_____ NA ✓

If yes, check the appropriate treatability group:

_____ Dilute HOC wastewater (1,000 mg/l-10,000mg/l HOCs)

_____ All other HOC's greater than or equal to the prohibition level of 1,000 mg/l (liquids) or mg/kg (non liquids)

c. Liquid hazardous wastes that exhibit a characteristic and also contain ≥ 134 mg/l nickel and/or ≥ 130 mg/l thallium.

Yes_____ No_____ NA ✓

5. Treatment standards expressed as required technologies: Has the generator specified an alternative method to that required in 40 CFR 268.42?

Yes_____ No ✓ NA_____

If yes, list the waste code, the technology specified in 40 CFR 268.42, the alternative method and documentation of approval [40 CFR 268.42(b)].

Waste Code	Required Technology	Alternative Method	Approval

Comments: _____

6. Does the generator mix restricted wastes with different treatment standards for a constituent of concern?

Yes ____ No ✓

If yes, did the generator select the most stringent treatment standards? [40 CFR 268.41(b) and 268.43(b)]

Yes ____ No ____

Comments: _____

B. Waste Analysis

1. Does the generator determine whether restricted wastes exceed treatment standards/prohibition levels at the point of generation? [268.7(a)]

Yes ✓ No ____

If no, does the generator ship all restricted wastes as not meeting treatment standards?

Yes ____ No ____

Comments: _____

2. Which of the following analytical methods does the generator employ?

a. Knowledge of waste:

Yes ✓ No ____

If yes, list the wastes for which applied knowledge was used and describe the basis of determination. Attach documentation. [40 CFR 268.7(a)(5)]

Experience with all wastes

b. TCLP: Are wastes with treatment standards specified in 40 CFR 268.41 analyzed using TCLP? (BDAT=stabilization/immobilization technology) Examples: D004-D011, and F001-F009, etc.

Yes ____ No ✓ NA ____

If yes, list the wastes for which TCLP was used and provide the date of last test, the frequency of testing, and note any problems. Attach sample of typical test results [40 CFR 268.7(a)(5)].

c. Total constituent analysis: Are wastes with treatment standards specified in 268.43 analyzed using total constituent analysis? (BDAT=destruction/removal technology) Examples: D001-D003, majority of P and U wastes, etc.

Yes ____ No ✓ NA ____

If yes, list the wastes for which total constituent analysis was used and provide the date of last test, the frequency of testing, and note any problems. Attach sample of typical test results [40 CFR 268.7(a)(5)].

_____

_____

d. PFLT* : Was PFLT used to determine if California List constituents were contained in *liquid* hazardous waste?

Yes____ No____ NA ✓

* PFLT = Paint Filter Liquids Test [Test Method 9095, EPA Publication No. SW-846]

If yes, list the wastes for which PFLT was used and provide the date of last test, the frequency of testing, and note any problems. Attach sample of typical test results. [40 C.F.R. 268.7(a)(5)]

_____

_____

3. Does the generator treat restricted wastes in < 90 day tanks or containers regulated under 40 CFR 262.34? (Examples: elementary neutralization, etc)

Yes____ No ✓ (If No, go to 4)

Does the generator treat the wastes to meet appropriate treatment standards/prohibition levels?

Yes____ No____

If yes, has the generator prepared a waste analysis plan detailing the frequency of testing to be conducted? [40 CFR 268.7(a)(4)]

Yes____ No____ (If No, go to 4)

Does the plan fulfill the following? [40 CFR 268.7(a)(4)(i)]

____ Based on a detailed chemical and physical analysis of a representative sample.

____ Contains information necessary to treat the wastes in accordance with 40 CFR Part 268 requirements.

Has the plan been filed with the Regional Administrator (Receipt required for verification)? [40 CFR 268.7(a)(4)(ii)]

Yes____ No____

Comments:_____

4. Dilution Prohibition [40 CFR 268.3]:

a. Does the generator mix prohibited* wastes with different treatment standards?

Yes____ No ✓ (If No, go to b)

List the wastes: _____

Are the wastes amenable to the same type of treatment? [55 FR 22666]

Yes_____ No_____

* Prohibited wastes must be treated to established treatment standard prior to land disposal.

Comments: _____

b. Does the generator dilute prohibited wastes to meet treatment standard criteria, or render them non-hazardous? [55 FR 22665-22666]

Yes_____ No ✓ (If No, go to c)

Check appropriate category:

_____ Dilutes to meet treatment standards

_____ Dilutes to render waste non-hazardous

Do the wastes fall into the following categories? [40 CFR 268.3(b)]

_____ Managed in treatment systems regulated under the Clean Water Act

_____ Non-Toxic* characteristic wastes

_____ Treatment standard specified in 40 CFR 268.41 or 268.43

* Non-toxic = D001 (except high TOC nonwastewaters), D002, and D003 (except cyanides and sulfides). [55 FR 22666]

If the wastes do not fall into the above categories, briefly describe the conditions under which they were diluted:

_____

c. Based on an assessment of points a. and b. and any other relevant circumstances, does the generator dilute prohibited wastes as a substitute for adequate treatment? [40 CFR 268.3(a)]

Yes_____ No ✓

Comments: _____

5. F039 Multi-source leachate: Has the generator run an initial analysis for all constituents of concern in 40 CFR 268.41 and 268.43? [55 FR 22620]

Yes_____ No_____ NA ✓

C. Management

1. On-Site Management

a. Are restricted wastes treated (other than in a RCRA exempt unit), stored for greater than 90 days, or disposed on site?

Yes_____ No ✓ (If yes, complete TSD Checklist)

Comments: _____

b. If the generator treats characteristic wastes in systems regulated under the Clean Water Act, have the following been documented: the determination of restriction, how restricted wastes are managed, and why wastes discharged pursuant to a NJPDES permit are not prohibited (if applicable)? [55FR 22662]

Yes____ No____ NA ✓

c. If the generator treats characteristic wastes in RCRA exempt units to render them non-hazardous, are the wastes managed as restricted until 40 CFR 268 treatment standards are met*? [40 CFR 268.9(d)]

Yes____ No____ NA ✓

* This applies to both concentration based treatment standards specified in 40 CFR 268.41 and 268.43, and to some 40 C.F.R. 268.42 required methods which result in treatment below the characteristic level. See Appendix D.

2. Off Site Management: Waste Exceeds Treatment Standards

a. Does the generator ship any waste that exceeds treatment standards/prohibition levels to an off-site treatment or storage facility?

Yes ✓ No____ (If No, go to 3)

Does the generator provide a notification to the treatment or storage facility? [40 CFR 268.7(a)(1)]

Yes ✓ No____ (If No, go to 3)

If the generator specifies alternative treatment standards for lab packs, is the certification required in 40 CFR 268.7(a)(7) or (8) included with the notification?

Yes____ No____ NA ✓

b. Is a notification sent with each waste shipment?

Yes ✓ No____

If no, is the waste subject to a tolling agreement pursuant to 262.20(e) [SQG only]* ?

Yes____ No____ (If No, go to 3)

* Small quantity generator = generator of greater than or equal to 100 kg/month but less than 1,000 kg/month hazardous waste, or less than 1 kg/month of acutely hazardous waste. (NJ criteria = <100 kg/month of hazardous waste or <1 kg/month of acutely hazardous waste)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler	Waste Code	Subsequent Handler

Did the SQG provide a notification to the receiving facility with the first waste shipment subject to the tolling agreement [40 CFR 268.7(a)(9)]?

N/A Yes____ No____

3. Off-Site Management: Waste Meets Treatment Standards

a. Does the generator ship waste that meets treatment standards/prohibition levels to an off-site disposal facility?

Yes____ No ✓ (If No, go to 4)

Identify waste code(s) and off-site disposal facilities:

Waste Code	Receiving Facility

Note: Include documentation supporting the generator's determination that the waste meets applicable treatment standards/prohibition levels.

Does the generator provide a notification and certification to the disposal facility? [40 CFR 268.7(a)(2)(i) and 268.7(a)(2)(ii)]

Yes____ No____ (If No, go to b)

b. Are a notification and certification sent with each waste shipment?

Yes____ No____

If no, is the waste subject to a tolling agreement pursuant to 262.20(e)? (SQG only)

Yes____ No____ (If No, go to c)

List waste codes and subsequent handler with whom a contractual tolling agreement is held.

Waste Code	Subsequent Handler	Waste Code	Subsequent Handler

Did the SQG provide a notification and certification to the receiving facility with the first waste shipment subject to the tolling agreement? [40 CFR 268.7(a)(9)]

Yes____ No____

c. Are characteristic wastes which have been rendered non-hazardous (in a RCRA exempt unit) shipped to a Subtitle D facility?

Yes____ No____ NA____ (If No or NA, go to 4)

Complete the following table:

Waste Code	Receiving Facility	Waste Code	Receiving Facility

Are a notification and certification for each shipment sent to the Regional Administrator or authorized State? [40 CFR 268.9(d)(1) and 268.7(b)(5)]

Yes_____ No_____

4. Records Retention

Does the generator retain on site copies of all notifications, certifications, and other relevant documents for a period of 5 years? [40 CFR 268.7(a)(6)] see manifest printout ~29 manifests were missing the land disposal restriction form

Yes_____ No ✓

Are copies of relevant tolling agreements, along with the LDR notification and/or certification, kept on site for at least 3 years after expiration or termination of the agreement? [40 CFR 268.9]

Yes_____ No_____ NA ✓

Do LDR documents reflect proper management of wastes previously covered under case by case extensions?

Yes_____ No_____ NA ✓

Comments:_____

D. Treatment Using RCRA 40 CFR Parts 264 and 265 Exempt Units or Processes

1. Are restricted wastes treated in RCRA exempt units (distillation units, wastewater treatment tanks, elementary neutralization, etc.)?

Yes_____ No ✓ (If No, do not complete this section)

List types of waste treatment units and processes:

Waste Code	Type of Treatment	Treatment units and processes

2. Are treatment residuals generated from these units?

Yes_____ No_____

Comments:_____

3. Are residuals further treated, stored for greater than 90 days, or disposed on site?

Yes_____ No_____ NA_____

(If yes, the TSD checklist must be completed)

E. Additional Comments, Concerns, or Issues not addressed in the Checklist:

WASTE MINIMIZATION CHECKLIST

GENERATOR CHECKLIST

MANIFEST	YES	NO	N/A
GENERAL 262.20			
Does the generator, offer for transportation, hazardous waste for off site treatment/disposal?	✓		
If yes, proceed to the next question.			
If no, proceed to 264.75/265.75			
262.23			
Does the generator sign the manifest certification which states: "If I am a large quantity generator, I have a program in place to reduce the volume and toxicity of the waste generated to the degree I have determined to be economically practical and that I have selected the practical method treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford."	✓		
Does the generator have a written waste minimization plan?		✓	
If no, is the generator able to describe this plan orally?	✓		

COMMENTS:

(Explain in this space the areas that visually show evidence that a program is in place and is being implemented)

- Company reuses material as much as possible before declaring it a waste
- Company has researched and in the near future will begin using an acid recycling machine

ANNUAL/BIENNIAL REPORT	YES	NO	N/A
SECTION 262.41			
Has the generator submitted annual (AR) or biennial (BER) reports to the appropriate regulatory agency?	✓		
The inspector should review these reports prior to the inspection (see above), and should try to verify the information in the report during his/her site inspection. the following questions should be addressed during the inspection.			✓
SECTION 262.56(a) (5)			
Does the BER or AR include the efforts undertaken during the year to reduce the volume of toxicity of the wastes generated?	✓		
Does the BER or AR include a description of the changes in volume and toxicity of the wastes actually achieved during the year in comparison to previous years?	✓		
Do these efforts match the information contained in the generator's written or verbally described waste minimization program?	✓		
Is the BER or AR certification signed by the representative?	✓		

Subcategory Checklist

I. Characteristic Wastes.

A) Does facility handle D001 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Ignitable compressed gas	Yes_____	No_____
Ignitable liquids High TOC ≥ 10%	Yes_____	No_____
Ignitable liquids Low TOC < 10%	Yes_____	No_____
Ignitable reactives	Yes_____	No_____
Oxidizers (wastewater or non-wastewater)	Yes_____	No_____
Ignitible liquids (wastewater or non-wastewater)	Yes_____	No_____

B) Does facility handle D002 waste ?
Yes ✓ No_____
If yes, which subcategory(ies) ?

Acids, pH ≤ 2 (wastewater or non-wastewater)	Yes ✓	No_____
Alkaline, pH ≥ 12.5 (wastewater or non-wastewater)	Yes_____	No ✓
Radioactive high level wastes	Yes_____	No ✓

C) Does facility handle D003 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Explosives (wastewater or non-wastewater)	Yes_____	No_____
Reactive cyanides:		
*wastewater - cyanides ≥ 0.86 ppm	Yes_____	No_____
*non-wastewater - total cyanides ≥ 590 ppm and amenable cyanides ≥ 30 ppm	Yes_____	No_____
Reactive sulfides (wastewater or non-wastewater)	Yes_____	No_____
Reactive (wastewater or non-wastewater)	Yes_____	No_____

D) Does facility handle D004 waste ?
Yes_____ No ✓
If yes, Is it this subcategory ?

Radioactive high level wastes	Yes_____	No_____

E) Does facility handle D005 waste ?
Yes_____ No ✓
If yes, Is it this subcategory ?

Radioactive high level wastes	Yes_____	No_____

F) Does facility handle D006 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Cadmium batteries	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

G) Does facility handle D007 waste ?
Yes ✓ No_____
If yes, Is it this subcategory ?

Radioactive high level wastes	Yes_____	No ✓

H) Does facility handle D008 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Lead acid batteries	Yes_____	No_____
Radioactive lead solids	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

I) Does facility handle D009 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm [organics or non-organics]	Yes_____	No_____
Low mercury < 260 ppm	Yes_____	No_____
Elemental mercury with radioactive materials	Yes_____	No_____
Hydraulic oil with mercury and radioactive materials	Yes_____	No_____
Radioactive high level wastes	Yes_____	No_____

J) Does facility handle D010 waste ?
Yes_____ No ✓
If yes, Is it this subcategory ?

Radioactive high level wastes ?	Yes_____	No_____

II. Listed wastes

A) Does facility handle F001-F005 waste ?
Yes ✓ No_____
If yes, which subcategory(ies) ?

Non-pharmaceutical	Yes ✓	No_____
Pharmaceutical [methylene chloride ≥ 0.44 mg/l]	Yes_____	No ✓

B) Does facility handle F025 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Filters, filter aids, and/or desiccants (wastewater or non-wastewater) Yes_____ No_____
Light ends Yes_____ No_____

C) Does facility handle K061 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High zinc ≥ 15% Yes_____ No_____
Low zinc < 15% Yes_____ No_____

D) Does facility handle K069 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

Calcium sulfate Yes_____ No_____
Non-calcium sulfate Yes_____ No_____

E) Does facility handle K106 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

F) Does facility handle P065 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

G) Does facility handle P092 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____

H) Does facility handle U151 waste ?
Yes_____ No ✓
If yes, which subcategory(ies) ?

High mercury ≥ 260 ppm Yes_____ No_____
Low mercury < 260 ppm Yes_____ No_____
Radioactive elemental mercury Yes_____ No_____

California List Applicability

I. California List Waste Determination.

A) Using either knowledge of the waste or determination by the paint filter liquids test (PFLT), has the generator determined whether its waste is a liquid ?
Yes ✓ No ____

B) Current Applicability.

1) Do liquid hazardous wastes contain over 50 ppm PCBs ?
Yes ____ No ✓

2) Do hazardous wastes contain Halogenated Organic Compounds (HOCs) where it is identified as hazardous by a characteristic property that does not involve HOCs ?
Yes ____ No ✓

3) Do liquid hazardous wastes contain a total concentration of more than 134 mg/l of nickel and/or 130 mg/l of thallium ?
Yes ____ No ✓

See LDR Checklist pg. 9 if yes is answered to any of the above questions, the waste is currently subject to California List Prohibitions.

C) Historical Violations.

California List Prohibitions became effective on July 8, 1987 for wastes falling under any of the following descriptions:

1) Does the liquid hazardous waste, including free liquids associated with solid or sludge, contain free cyanide at concentrations ≥ 1000 mg/l ?
Yes ____ No ✓

2) Does liquid hazardous waste, including free liquids associated with any solid or sludge, contain the following metals (or elements) or compounds of these metals (or elements) at concentrations greater than or equal to these prohibition levels ?
Yes ____ No ✓

Arsenic	500 mg/l	Yes ____	No ____
Cadmium	100 mg/l	Yes ____	No ____
Chromium VI	500 mg/l	Yes ____	No ____
Lead	500 mg/l	Yes ____	No ____
Mercury	20 mg/l	Yes ____	No ____
Nickel	134 mg/l	Yes ____	No ____
Selenium	100 mg/l	Yes ____	No ____
Thallium	130 mg/l	Yes ____	No ____

3) Does the liquid (aqueous) hazardous waste have a pH ≤ 2 ?

Yes ✓ No ____

4) Do HOC wastewaters, defined as HOC-waste mixtures that are primarily water, contain ≥ 1000 mg/l but < 10,000 mg/l ?

N/A

Yes ____ No ____

5) Do other liquid hazardous wastes contain HOCs in total concentrations ≥ 1000 mg/l ?

Yes ✓ No ____

6) Do non-liquid hazardous wastes contain HOCs in total concentrations > 1000 mg/kg ?

Yes ____ No ✓

7) Do liquid hazardous wastes contain polychlorinated biphenyls (PCBs) at concentrations ≥ 50 ppm but < 500 ppm ?

Yes ____ No ✓

8) Does the liquid hazardous waste contain PCBs ≥ 500 ppm ?

Yes ____ No ✓

P.O. 40558
To place

C-I-L Corporation of America

Sulfuric Acid

MATERIAL SAFETY DATA SHEET

Index: SPU 0001/85D
Date: November 1985

EMERGENCY TELEPHONE NUMBERS
Stamford, Ct. (203) 323-3500 Toronto, Ont. (416) 226-6117

HAZARD SUMMARY (29 CFR 1910.1200)

Physical Hazards: Oxidizer, water-reactive
Health Hazards: Corrosive

1. PRODUCT IDENTIFICATION

Product Name: Sulfuric Acid:
Grades: 93.19%, 98/99%;
Electrolytic 1.835 (93.19%)

Chemical Name: Sulfuric Acid

Synonyms: Oil of Vitriol, Sulphuric acid
CAS number: 7664-93-9
Molecular Formula: H_2SO_4

SHIPPING DESCRIPTION (Under the TDG Act)

Shipping Name: Sulfuric Acid
Shipping Class/Division: Class 8 (9.2)
Product Identification No (PIN): UN1830
Packing Group: II

2. PHYSICAL PROPERTIES

Appearance And Odour: Commercial Sulfuric Acid is clear to amber, heavy, oily liquid which may have a sharp penetrating SO_2 odour. Electrolytic grade is clear, oily and odourless.

Boiling Point:
93.19%: 276°C (529°F); 98%: 330°C (626°F)

Melting/Freezing Point:
93.19%: -29.5°C (-21.1°F); 98%: -1.1°C (30°F)

Vapour Pressure (mmHg at 20°C):
93.19%: 0.0018 mmHg; 98%: 0.001 mmHg

Specific Gravity: at 15°C:
93.19%: 1.8354; 98%: 1.8437

Vapour Density: No data, not volatile at normal temperatures.
Bulk Density: Not applicable (See specific gravity)
Evaporation Rate: Not applicable

Solubility: Miscible iu all proportions in water. Also soluble in alcohol.
% Volatile by Volume: 0% at room temperature
pH : -1 at 93% strength

3. FIRE AND EXPLOSION DATA

Flash Point (method): Not applicable, product is non-flammable.
Autoignition Temperature: Not combustible
Flammability Limits in air (%): UEL: None **LEL:** None

Fire Extinguishing Media: Use approporiate media to extinguish source of fire. Use water carefully (see below).

Fire Fighting Procedures: Fire involving small amount of combustibles may be smothered with suitable dry chemical. Use water on combustibles burning in vicinity of this material but use care: water applied directly will cause evolution of heat and cause spattering. Full protective equipment including a self-contained breathing apparatus should be worn.

Other Fire or Explosion Hazards: Not flammable but highly reactive; capable of igniting finely divided combustible materials on contact. Reacts violently with water and organic materials with evolution of heat. Extremely hazardous in contact with many materials particularly Carbides, Chlorates, Fulminates, Nitrates, Picrates, Powdered Metals, releasing Hydrogen. Hydrogen Gas can accumulate to explosive concentrations inside steel tanks.

4. REACTIVITY DATA

Stability:
Under Normal Conditions: Stable
Under Fire Conditions: Decomposes to SO_x
Hazardous Polymerization: Will not occur

Conditions to Avoid: Temperatures which may affect the materials used in equipment.

Materials to Avoid: Contact of acid with organic materials (such as Chlorates, Carbides, Fulminates and Picrates) may cause fire and explosions. Contact of acid with metals may form toxic Sulfur Dioxide Gas and flammable Hydrogen Gas.

Hazardous Decomposition or Combustion Products: Toxic gases and vapours (e.g., Sulfur Dioxide, Sulfuric Acid vapours, Sulfur Trioxide) may be released when Sulfuric Acid decomposes.

5. TOXICOLOGICAL AND HEALTH DATA

Recommended Exposure Limit: ACGIH TLV-TWA (1985-86): 1 mg/m^3
OSHA PEL: 1 mg/m^3

Toxicological Data:
LD_{50}(oral, rat) = 2140 mg/kg
LC_{50}(inhalation, rat) = 510 mg/m^3 for 2 hrs

Effects of exposure when:

Inhaled: Causes severe irritation of the respiratory tract, may cause increased pulmonary resistance, transient cough and broncho-constriction. Severe over-exposure may result in lung collapse and pulmonary edema which can be fatal. Prolonged or repeated exposure may result in impaired lung function or discoloration and erosion of teeth.

In contact with the skin: Corrosive to the skin. May cause severe burns. Prolonged or repeated exposure to dilute solutions may cause irritation and dermatitis.

In contact with the eyes: Contact with eyes will result in severe damage causing burns or blindness.

Ingested: May cause severe pain, ulceration and scarring of the digestive tract.

Other Health Effects: None known

First Aid Procedures when:

Inhaled: Remove to fresh air. If not breathing, give artificial respiration. Keep patient warm and at rest. Obtain medical attention.

In contact with the skin: Remove contaminated clothing. Flush affected areas with running water for at least 20 minutes. Obtain medical attention.

In contact with the eyes: Flush eyes with running water for at least 20 minutes holding eyelids open. Obtain medical attention immediately.

Ingested: If conscious give 1-2 glasses of milk or water. .DO NOT induce vomiting. Obtain medial attention.

Note to Physician: Medical conditions that may be aggravated by exposure include asthma, bronchitis, emphysema and other lung diseases and chronic nose, sinus or throat conditions. In the event of skin or eye contact, rapid and thorough flushing is essential.

6. PREVENTIVE MEASURES

Engineering Controls: Under normal conditions, general area ventilation is sufficient

Respiratory Protection: NIOSH/MSHA approved air-purifying respirator equipped with acid gas/fume, dust, mist cartridges for concentrations up to 10 mg/m^3. Air-supplied respirator for higher or unknown concentrations.

Skin Protection: Rubber gloves
Eye Protection: Tight-fitting chemical goggles and face shield

Other Personal Protective Equipment: Rubber boots and full protective clothing. Safety showers and eyewash fountains should be installed in storage and handling areas.

Handling Procedures and Equipment: Carbon steel or stainless steel materials are suitable for use for acid concentrations greater than 93%.

Storage Temperature (°C): Store above freezing point (Section 2).
Storage Requirements: Store in a dry, well-ventilated location away from combustibles, oxidizers, bases, or metallic powders.

Other Precautions: Keep away from ignition sources. Sulfuric Acid will attack some forms of plastics and coatings. Always add acid to water -- not water to acid. If kept in upper floors of building, floors should be acid proof with drains to a recovery tank.

7. ENVIRONMENTAL PROTECTION DATA

Steps to be taken in the event of a spill or leak: Remove all ignition sources. Ventilate area. Stop and contain leak or spill. Dike with inert material (sand, earth, etc). Collect into containers for reclaim or disposal.

Environmental Effects: Harmful to aquatic life in very low concentrations. May be dangerous if it enters water intake: Fish toxicity critical concentration = 10 mg/l; 7.34 mg/l/48 hrs - Lymneae Palustris - 0-100% mortality.

Deactivating Chemicals: Lime, Limestone, Sodium Carbonate (Soda Ash), Sodium Bicarbonate, Dilute Sodium Hydroxide, Dilute Aqua Ammonia.

Waste Disposal Methods: Consult federal, state, and local regulations on chemical waste disposal. May be possible to neutralize, absorb and dispose of in a secure sanitary landfill site.

8. ADDITIONAL INFORMATION AND SOURCES USED

Enviro-TIPS Manual, Sulfuric Acid and Oleum, Environment Canada, February 1984.

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and C-I-L Corp. not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein.

C-I-L Corporation of America
100 First Stamford Place
P.O. Box 10201
Stamford, Connecticut 06904/2201

Date issued: November 1985
Date revised: November 1985
MSDS index no: SPU 0001/85D

disposal restriction form

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
HEIEN CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951550	05/13/92	D007	CHROMIUM	30 CY
	AGMET CO 7680 BOND ST GLENVILLOW , OH OHD027351626	NJA0951551	06/24/92	D002	CHARACTERISTIC OF CORROSIVITY	2600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	5000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	2400 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951552	06/29/92	D007	CHROMIUM	30 CY
		NJA0951554	08/27/92	D007	CHROMIUM	30 CY
	AGMET CO 7680 BOND ST GLENVILLOW , OH OHD027351626	NJA0951555	09/14/92	D002	CHARACTERISTIC OF CORROSIVITY	2200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	8300 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951556	10/01/92	D007	CHROMIUM	30 CY
	S & W WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1489192	11/06/92	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	220 G
				F001	SPT NAL SOLV&SLUDG DEGREAS OPE	110 G
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH					

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
-METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951558	11/20/92	D007	CHROMIUM	30 CY
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951557	11/25/92	D002	CHARACTERISTIC OF CORROSIVITY	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	9485 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
		NJA0951559	12/08/92	D002	CHARACTERISTIC OF CORROSIVITY	400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	200 P
0	S & W WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1536710	12/09/92	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	825 G
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951560	01/27/93	D002	CHARACTERISTIC OF CORROSIVITY	800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	300 P
0	S & W WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1537084	01/27/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	770 G
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951561	02/01/93	D007	CHROMIUM	30 CY
		NJA0951562	03/23/93	D007	CHROMIUM	30 CY

1HWR1631C
04/20/95

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT
WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
-METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951563	04/28/93	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
0	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MD0980554653	MDC0397853	05/05/93	U002	~~ACETALDEHYDE~~ Acetone	1500 P
	according to manifest waste is U002 not U001			X900	CHEMICAL PROCESS-LIQUID,NOS	7800 P
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951564	05/13/93	D007	CHROMIUM	30 CY

		NJA0951565	06/28/93	D007	CHROMIUM	20 CY
0	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0403975	09/01/93	X910	CHEMICAL PROCESS-SOLID,NOS	5000 P
		MDC0403976	09/01/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	4500 P
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951567	09/09/93	D002	CHARACTERISTIC OF CORROSIVITY	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	300 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	700 P
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951569	10/18/93	D007	CHROMIUM	30 CY

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
0 -HETEN CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0409538	11/23/93	X900	CHEMICAL PROCESS-LIQUID,NOS	14000 P
				X910	CHEMICAL PROCESS-SOLID,NOS	900 P
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951570	12/02/93	D002	CHARACTERISTIC OF CORROSIVITY	1625 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	250 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1500 P
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951571	12/06/93	D007	CHROMIUM	30 CY
0	CASIE ECOLOGY OIL SALVAGE 3209 N MILL RD VINELAND , NJ NJD045995693	NJA1781567	12/16/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1500 G
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951572	01/27/94	D007	CHROMIUM	30 CY
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951573	03/14/94	D002	CHARACTERISTIC OF CORROSIVITY	3250 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3500 P
0	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0403547	03/22/94	X900	CHEMICAL PROCESS-LIQUID,NOS	12800 P

restriction form

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
-METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951574	04/05/94	D007	CHROMIUM	30 CY
	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA1565796	05/13/94	D002	CHARACTERISTIC OF CORROSIVITY	500 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	250 P
	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0518714	05/18/94	X900	CHEMICAL PROCESS-LIQUID,NOS	6800 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565797	05/19/94	D007	CHROMIUM	20 CY
		NJA1565798	07/27/94	D007	CHROMIUM	30 CY
	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA1565799	08/16/94	D002	CHARACTERISTIC OF CORROSIVITY	1650 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1400 P
	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0523472	08/17/94	X910	CHEMICAL PROCESS-SOLID,NOS	6800 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565800	10/17/94	D007	CHROMIUM	30 CY

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
-METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0525463	11/29/94	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3500 P
				X725	OIL SPILL CLEANUP MATERIAL	2400 P
				X910	CHEMICAL PROCESS-SOLID,NOS	1000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	350 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565801	12/27/94	D007	CHROMIUM	30 CY
		NJA1565802	03/09/95	D007	CHROMIUM	33040 P

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002520088 TO SPECIFIED TSDF'S

HAZARDOUS WASTE MANIFEST

Department of the Environment • Hazardous & Solid Waste Management Administration
2500 Broening Highway Baltimore, MD 21224

Hazardous Waste Program

cc: IR MEU-ST

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved, OMB No. 2050-0039 Expires 9/30/92 cc: IR MEU

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID NO.: MID 007139244 | Manifest Document No.: 08299 | 2. Page 1 of: 02

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
John Lipyanek, Jr.
(201)837-6635
Metex Corporation
700 Parsippany Road
Parsippany, NJ 07054

4. Generator's Phone ( )

A. State Manifest Document Number: MDC 0397853

B. State Generator's ID Number:

5. Transporter 1 (Company Name): Laidlaw Environmental Services (TS), Inc.

6. US EPA ID Number: MDD 980554653

C. State Transporter's ID: HWH 015
Vehicle Sticker Number: 93A2302 DC 9104

D. Transporter's Phone: 301/953-9583

7. Transporter 2 (Company Name):

8. US EPA ID Number:

E. State Transporter's ID: HWH
Vehicle Sticker Number: A DC

F. Transporter's Phone:

9. Designated Facility Name and Site Address
Laidlaw Environmental Services (TS), Inc.
3527 Whiskey Bottom Road
Laurel, MD 20724

10. US EPA ID Number: MDD 980554653

G. State Facility ID: A207

H. Facility's Phone: 301 953 9583

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit W/Vol	I. Waste No.
a. Non-Regulated Material	~~10~~ 007	DM	1500	P	NONE
b. Non-Regulated Material	3	DM	900	P	NONE
c. Non-Regulated Material	~~1~~ 12	DM	4500	P	NONE
d. Waste Acetone, UN1090 Flammable Liquid (RQ- NONE)	1	DM	400	P	D001 D002

J. Additional Description for Materials Listed Above

	HAZ CODE	Physical State	Specific Gravity	Percentage		HAZ CODE	Physical State	Specific Gravity	Percentage	K. Handling Codes for Waste Listed Above
a.	--	-L	0.9	100 %	c.	--	-S	1.1	100 %	a. S c. S
b.	--	-L	0.9	100 %	d.	-I	-L	0.9	100 %	b. S d. S

15. Special Handling Instructions and Additional Information
"EMERGENCY CONTACT"***1-800-335-5053 (396)
a. 6MEU-007 b. 6MEU-001 c. 6MEU-004 003 d. 6MEU-008

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Maryland Statutes or Regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: John E Lipyanek | Signature: [signature] | Date: 050593

17. Transporter 1 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: Steven C Smith | Signature: [signature] | Date: 050593

18. Transporter 2 (Acknowledgement of Receipt of Materials)
Printed/Typed Name: | Signature: | Date:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: William F. Baker | Signature: [signature] | Date: 050793

EPA Form 8700-22 (10-91)
Previous editions are obsolete.

In case of an emergency or spill, immediately call the National Response Center at (800) 424-8802 and the MDE at (410) 631-3400. Nights and Holidays at (410) 974-3551

MDC 0397853

ENVIRONMENTAL SERVICES

Customer Notification And Certification

FORM A

Only Statements with Original Signatures will be Accepted

Generator Name/Location: METEM CORPORATION PARSIPPANY, NJ

EPA I.D. Number: NJD002139244

Waste Profile or ARF Designation: 6-MEV-001, ~~002, 004~~, 007, 008, 003, 005

Manifest Number: MDC0397853/08299

EPA Hazardous Waste Number(s): D001, U002

Waste Analysis Attached? YES ____ NO ✓ On file at facility. ____

Unrestricted Waste Notification (Category1)

If you generate a hazardous waste that is not a land disposal restricted waste (the waste has no applicable treatment standards), mark the statement below.

☒ I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is not restricted as specified in 40 CFR 268, Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004 (d).

Restricted Waste Notification (Category 2)

If you generate a hazardous waste that is restricted from land disposal (the waste has applicable treatment standards), mark the statement below. Note: All appropriate standards must be accounted for. A waste may pass one or more standards and require treatment or be varianced for others. In this case, all applicable categories must be checked.

☒ I notify that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that the waste is subject to the treatment standards specified in 40 CFR 268, Subpart D. Waste must be treated to the appropriate regulatory treatment standard, by the appropriate regulatory treatment method; qualifies for a variance as described by Category 3 below; or meets the standard as described under Category 4 below.

☐ For hazardous debris, the waste contains the following contaminants subject to treatment (check all that apply): ____ § 268.45(b)(1)-Toxicity characteristic debris: ____ § 268.45(b)(2)-Debris contaminated with listed waste; ____ § 268.45(b)(3)-Cyanide reactive debris. This hazardous debris is subject to the alternative treatment standards of 40 CFR 268.45.

Corresponding Treatment Standard(s) 902, 973

Restricted Waste Variance Notification (Category 3)

If you generate a waste which does not require treatment prior to land disposal because of a variance (including a case-by-case extension under 40 CFR 268.5, a nationwide variance under 40 CFR 268 Subpart C, a no migration petition under 40 CFR 268.6, or other applicable variance), mark the statement below and list the appropriate variance in the space provided.

(3a) Restricted Waste Variance Notification

☐ I notify pursuant to 40 CFR 268.7(a)(5) that I am familiar with the waste through analysis and testing or through knowledge of the waste to support this notification that this waste is subject to a national capacity variance under 40 CFR 268 Subpart C, or a case-by-case extension under 40 CFR 268.5, or an exemption under 40 CFR 268.6.
Applicable Variance (List the variance and give the date the waste is subject to prohibitions)

(3b) Hazardous Debris Extension Notification

☐ For the hazardous debris waste stream accompanying this notification, I notify that I have made the necessary submittals to my operating record, or files maintained pursuant to 40 CFR 268.7(a)(5), as described in the May 15, 1992 Federal Register (57 FR 20769), and therefore this hazardous debris shipment qualifies for the one-year generic case-by-case extension.

Applicable Variance (Give the date the waste is subject to prohibitions)

Restricted Waste Certification (Category 4)

If you generate a hazardous waste that is restricted from land disposal (the waste has applicable treatment standards), and the waste meets the standards as generated, mark the statement below. Note: All appropriate standards must be accounted for. A waste may pass one or more standards and require treatment or be varianced for others. In this case, all applicable categories must be checked.

☐ I certify under penalty of law that I personally examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268, Subpart D and all applicable prohibitions set forth in 40 CFR 268.32 or RCRA Section 3004(d). I believe that the information I submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting a false certification including the possibility of fine and imprisonment.
Applicable Standards Passed (List the appropriate standard(s) for constituents not requiring treatment)

SIGNATURE: [signature] DATE: 5/5/93

PRINT NAME: John E. Liovanek TITLE: Facilities Mgr.

EPA

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY
(VERIFICATION)

This is to acknowledge that you have filed a Notification of Hazardous Waste Activity for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act *(RCRA)*. Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER ▶ NJD002139244

BETEM CORPORATION
700 PARSIPPANY ROAD
PARSIPPANY ROAD NJ 07054

INSTALLATION ADDRESS ▶ 700 PARSIPPANY ROAD
PARSIPPANY, NJ 07054

EPA Form 8700-12B (4-80) 10/09/80

Please print or type with ELITE type (12 characters/inch) in the unshaded areas only.

GSA No. 0246-EPA-OT

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTALLATION'S EPA I.D. NO.	NJD002139244
I. NAME OF INSTALLATION	MELEN CORPORATION
II. INSTALLATION MAILING ADDRESS	700 PARSIPPANY ROAD PARSIPPANY, NJ 07054
III. LOCATION OF INSTALLATION	700 PARSIPPANY ROAD PARSIPPANY, NJ 07054

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

DETACH

FOR OFFICIAL USE ONLY

COMMENTS: C

INSTALLATION'S EPA I.D. NUMBER: F NJD002139244 3 1

APPROVED:

DATE RECEIVED (yr., mo., & day): 800708

I. NAME OF INSTALLATION

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX: 3

CITY OR TOWN: 4 ST. ZIP CODE

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER: 5

CITY OR TOWN: 6 ST. ZIP CODE

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title): 2

PHONE NO. (area code & no.)

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER: 8

B. TYPE OF OWNERSHIP (enter the appropriate letter into box)

F = FEDERAL
M = NON-FEDERAL

VI. TYPE OF HAZARDOUS WASTE ACTIVITY (enter "X" in the appropriate box(es))

- [X] A. GENERATION
- [ ] B. TRANSPORTATION (complete item VII)
- [ ] C. TREAT/STORE/DISPOSE
- [ ] D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION (transporters only – enter "X" in the appropriate box(es))

- [ ] A. AIR
- [ ] B. RAIL
- [ ] C. HIGHWAY
- [ ] D. WATER
- [ ] E. OTHER (specify):

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA I.D. Number in the space provided below.

- [X] A. FIRST NOTIFICATION
- [ ] B. SUBSEQUENT NOTIFICATION (complete item C)

C. INSTALLATION'S EPA I.D. NO.

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

CONTINUE ON REVERSE

NJD002139244

METEM CORPORATION

700 PARSIPPANY ROAD · PARSIPPANY, N. J. 07054

PHONE 201/887-6635
TWX 710-986-8201

sent ad

July 3, 1980

EPA-Region II
Information Service Center
26 Federal Plaza
New York, New York 10007

Dear Sirs,

Please send a copy of the Federal Register and any other information pertinent to the new hazardous waste regulations. Thank you.

Sincerely,

Timothy Lynn

Timothy Lynn

Please print or type in the unshaded areas only
(fill—in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0475

U.S. ENVIRONMENTAL PROTECTION AGENCY
GENERAL INFORMATION

I. EPA I.D. NUMBER

NJD002134244

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed local descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

				MARK 'X' YES	NO	FORM ATTACHED
	X				X	
	X				X	
X		X			X	
	X				X	
	X				X	

METEM CORPORATION

NEWTON TONY VP 201 887 6635

700 PARSIPPANY ROAD

PARSIPPANY NJ 07054

700 PARSIPPANY ROAD

MORRIS

PARSIPPANY NJ 07054

3724	(specify) MANUFACTURER OF AIRCRAFT ENGINE PARTS		(specify)
	(specify)		(specify)

VIII. OPERATOR INFORMATION

A. NAME

METEM CORPORATION

B. Is the name listed in Item VIII-A also the owner? ☐ YES ☒ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

P = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC (other than federal or state)
O = OTHER (specify)

P (specify)

D. PHONE (area code & no.)

A 201 887 6635

TOO PARSIPPANY ROAD

CITY OR TOWN	STATE	ZIP CODE
PARSIPPANY	NJ	07054

IX. INDIAN LAND

Is the facility located on Indian land? ☐ YES ☒ NO

(specify)

NJD002139244

(specify)

MANUFACTURE OF AIRCRAFT ENGINE PARTS MADE FROM HIGH TEMPERATURE SUPERALLOYS. PROCESSES USED INCLUDE ELECTRICAL DISCHARGE MACHINING (EDM) AND ELECTROCHEMICAL MACHINING (ECM) - WHICH ARE ADVANCED MACHINING METHODS USED TO MACHINE COMPLEX SHAPES IN HARD TO MACHINE METALS. CUSTOMERS INCLUDE ALL THE MAJOR AIRCRAFT ENGINE MANUFACTURERS IN THE US AND EUROPE.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
M. ANTHONY NEWTON VP	[signature]	7-18-84

EPA Form 3510-1 (6-80) REVERSE

Please print or type in the unshaded areas only.
(Fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER

F N J D 0 0 2 1 3 9 2 4 4

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

X 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR. 6 3 MO. 1 1 DAY 0 1

☐ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR. MO. DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☐ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided. Item III-C)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III *(shown in the numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	S 0 1	550	G		7				
2	S 0 2	16000	G		8				
3					9				
4					10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

No Treatment Is Performed At This Facility. Waste In Containers Is Disposed Of Commercially Every 60 Days Tank Stored Waste Are Tank Trucked To A Commercial Treatment Facility Every Week To 10 Days

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** – Enter the four-digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** – For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers that can be used to describe the waste and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all of the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (If a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

 CONTINUE ON PAGE 3

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	FOR OFFICIAL USE ONLY
W N J D 0 0 2 1 3 9 2 4 4 — T/A 1	W DUP — T/A 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	D002	500,000	G	S02	TANK TRUCKS TO COMMERCIAL TREATMENT FACILITY
2	D001				INCLUDES [illegible]
3	F001	500	G	S01	TRUCKS TO COMMERCIAL TREATMENT FACILITY
4	K062	500,000	G	S02	TRUCKS TO COMMERCIAL TREATMENT FACILITY (IN TOTAL)
5	D001	500	G	S01	TRUCKS TO COMMERCIAL TREATMENT FACILITY
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES *(continued)*

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

EPA I.D. NO. *(enter from page 1)*

F NJ00021 39244 6

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions, for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground—level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
40 50 40N	074 25 30W

VIII. FACILITY OWNER

☐ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
E 700 PARSIPPANY ASSOCIATES	201-887-6635

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
F 700 PARSIPPANY ROAD	G PARSIPPANY	NJ	07054

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
V. R. GOLDTHWAITE	V R Goldthwaite	7/19/84

X. OPERATOR CERTIFICATION

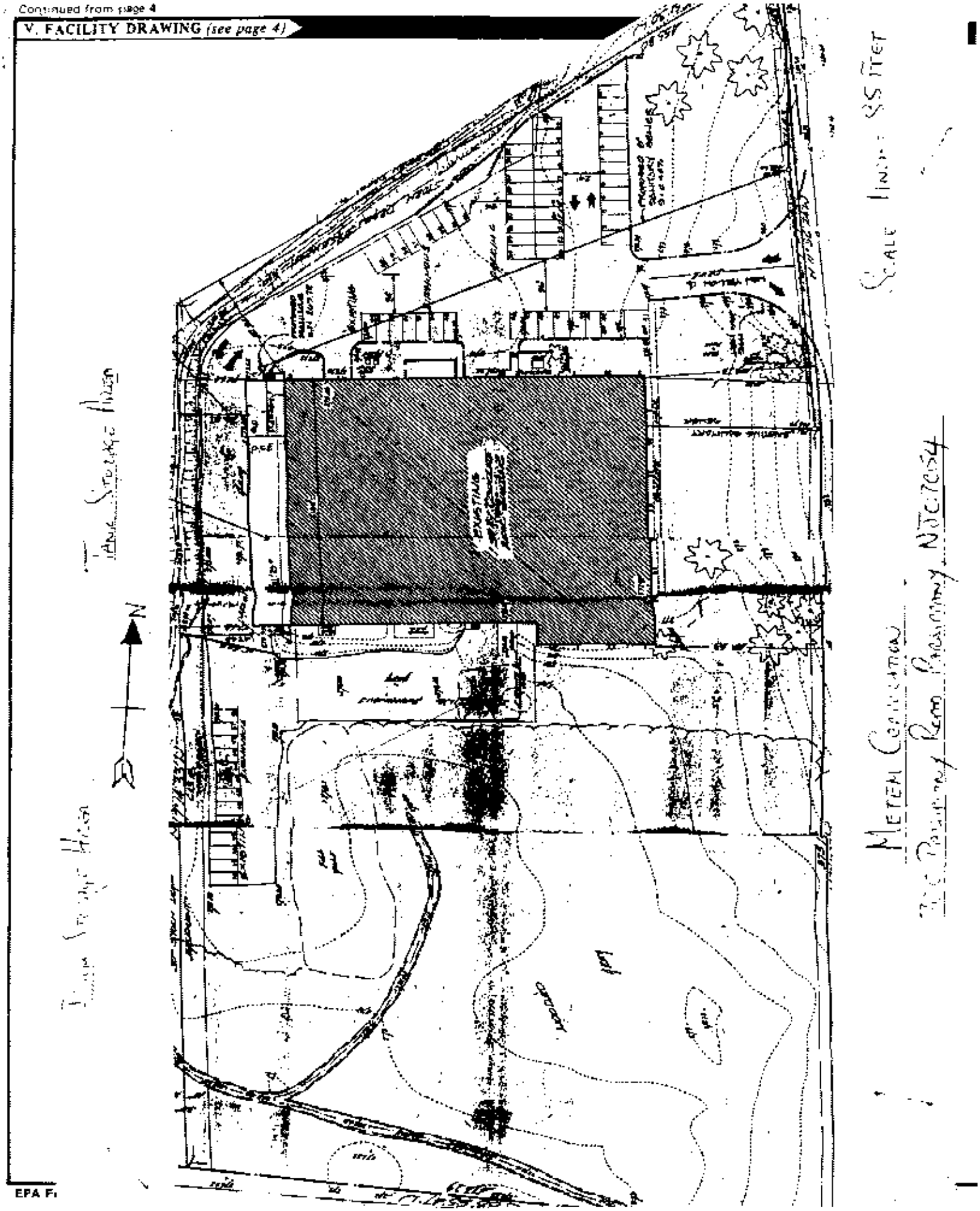
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5

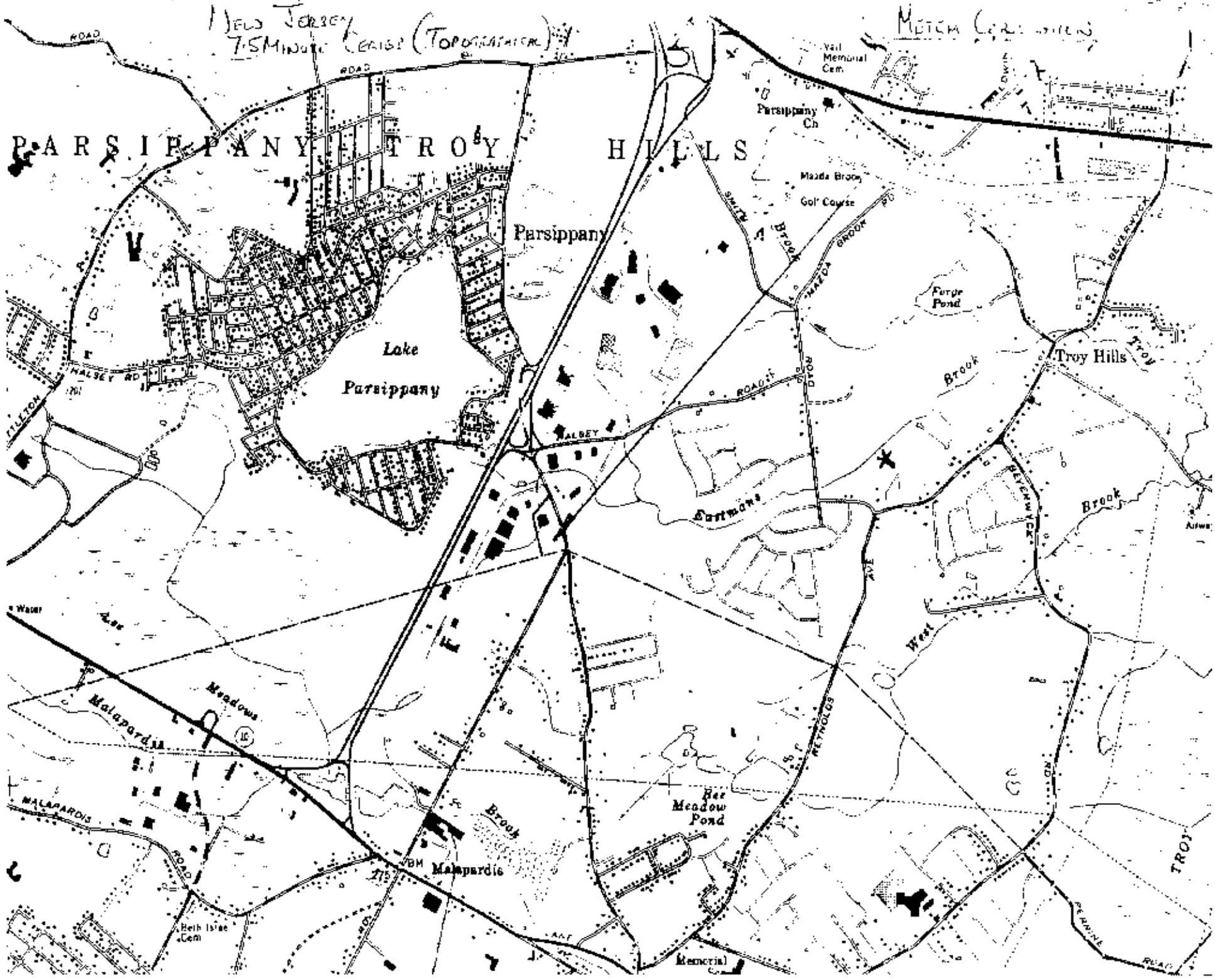
Continued from page 4

V. FACILITY DRAWING *(see page 4)*



Morristown Quad
New Jersey
7.5 Minute Series (Topographic)

Metuchen Quadrangle



Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

ENVIRONMENTAL
PROTECTION AGENCY
REGION II

88 SEP 30 AM 10: 58

HAZARDOUS WASTE
FACILITIES BRANCH

SEP 26 1988

Scott Goldthwaite, Project Engineer
METEM Corporation
700 Parsippany Road
Parsippany, NJ 07054

Dear Mr. Goldthwaite: Delistment - no

RE: Regulatory Status of METEM Corporation, Parsippany, EPA ID NO. NJD 002 139 244

The Bureau of Hazardous Waste Engineering (the Bureau) has reviewed its files on the referenced facility along with the report of a site visit conducted by Bureau representatives on September 15, 1988. The purpose of this site visit was to determine if METEM could be considered for exemption under N.J.A.C. 7:26-9.3, Accumulation of Hazardous Waste for 90 days or less.

In summary, METEM filed a Part A with the Bureau on July 31, 1984 subsequent to the June 6, 1984 RCRA inspection by the Bureau of Compliance and Enforcement (BCE). Since the company did not qualify as an existing facility, the Bureau could not authorize the treatment, storage, or disposal (TSD) activities and thus referred the matter back to BCE. METEM requested exemption from TSD status on November 7, 1984 was told in a letter dated December 19, 1984 that the exemption could not be granted until new "90 day" generator regulations were promulgated. METEM entered into an ACO with the Division of Waste Management on January 2, 1985. On March 31, 1986 METEM requested guidance on the newly adopted regulations. The Bureau provided all of the necessary information on April 24, 1986 and requested that METEM submit a formal delisting request; to date no correspondence has been received.

The September 15, 1988 site visit revealed that METEM generates waste 1,1,1 Trichloroethane (1400 gallons annually), waste oil (1400 gallons annually), and waste acids (500,000 gallons annually). Records and manifest checks confirmed that accumulation of hazardous waste does not exceed 90 days for either drum or tank storage areas. Inspection of storage areas revealed that all hazardous wastes are being properly stored with only minor modifications needed to comply with "90 day" generator requirements. Hazardous waste storage areas were found to be clean and free from contamination.

SEP 26 1988

The Bureau has determined that METEM may be considered for exemption from TSD requirements based on review of the aforementioned file and report. The following modifications to METEM's hazardous waste storage practices must be made before exemption under N.J.A.C. 7:26-9.3 can be accomplished:

1) Containers must be marked with the words "Hazardous Waste" and labeled in accordance with 49 CFR 172.304;

2) Tanks shall have sufficient shell thickness to ensure that the tank will not collapse or rupture;

3) Tanks shall be equipped with controls to prevent overfilling;

4) Tanks shall be designed so that at least 99 percent of their volume can be readily emptied by direct pumping or drainage;

5) Tanks below grade shall be constructed to allow visual inspection of the tank, comparable to a totally above-ground tank, and to provide secondary containment for the below grade portion;

6) Tanks shall be marked with the words "Hazardous Waste";

In addition, METEM shall comply with all requirements of N.J.A.C. 7:26-9.4(g) concerning personnel training and N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, and emergency procedures.

Within thirty (30) days, METEM shall submit a written request for delisting along with all supporting documentation to prove compliance with N.J.A.C. 7:26-9.3; including design drawings for tanks and containment areas, contingency plans, preparedness and prevention plans, and personnel training documentation. This information will allow the Bureau to determine if METEM can be delisted to "90 day" generator status.

If there are any questions, please feel free to contact Scot J. Frow of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr.

Ernest J. Kuhlwein, Jr., Chief
Bureau of Hazardous Waste Engineering

EP48/slw

c: J. Mirabella, BNE
[redacted]

DOCUMENT: METEM
FOLDER: SLWMCB

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF HAZARDOUS WASTE MANAGEMENT

Michele M. Putnam
Deputy Director
Hazardous Waste Operations

John J. Trela, Ph.D., Director
401 East State St.
CN 028
Trenton, N.J. 08625-0028
(609)633-1408

Lance R. Miller
Deputy Director
Responsible Party Remedial Action

3/27/89

C 119=$ C 1804= L
C 1103=$
C 1105=S
C 305=$
C MT11 · never attained

DEC 21 1988

Scott Goldthwaite
Project Engineer
Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054

Dear Mr. Goldthwaite:

Re: [redacted] Ground Tanks, Metem Corporation, Parsippany, EPA ID No. NJD 002 139 244, TS-88-22

The Bureau of Hazardous Waste Engineering (the "Bureau") acknowledges receipt of Metem Corporation's ("Metem") correspondence dated October 25, 1988 regarding the referenced approval. This submission was made in response to the Bureau's September 26, 1988 request for information subsequent to the September 15, 1988 site visit/meeting between Metem and Bureau personnel.

The Bureau has completed its review of Metem's October 25, 1988 submittal which included a request for delisting from treatment, storage, or disposal (TSD) facility requirements through the aboveground tank exemption provided in N.J.A.C. 7:26-9.3(b). Metem proposes to utilize four (4) 5500 gallon aboveground composite fiberglass tanks; each within a full concrete containment area which will contain at least 110% of tank volume. All tanks are outfitted with high-level switches to cut-off waste feed and are sufficiently piped to allow each tank to be rendered at least 99% empty. Tanks have been marked with the words "Hazardous Waste" for identification purposes.

Through its review of Departmental files, the Bureau has concluded that Metem never attained interim status for consideration as a TSD facility; therefore delisting is not an appropriate action. It has been learned that since Metem's practice of 90 day accumulation in above ground tanks was not an allowable option at the time of initial inspection, but was soon to be exempted, Department representatives gave Metem special consideration by allowing them to continue operations without major enforcement action. However, Metem was directed to obtain approval for the above ground storage tanks as soon as exemption was made available through the hazardous waste regulations.

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Recycled Paper

DEC 2 1 1988

Based on its review of the aforementioned information, the Bureau hereby approves Metems use of aboveground tanks for hazardous waste storage provided the following conditions, as specified in N.J.A.C. 7:26-9.3(b), are met:

1. Sufficient tank shell thickness must be maintained to prevent collapse or rupture. Each outer tank shell shall be inspected daily for leaks, cracks, or bulges and inspection of tank interiors shall be conducted yearly. Results of inspections, including notation of problems or repairs made, shall be kept throughout the lifetime of the tank;

2. Controls to prevent overfilling shall be maintained in accordance with N.J.A.C. 7:26-10.5(c);

3. Each tank's secondary containment area shall be maintained in accordance with N.J.A.C. 7:26-10.5(b);

4. Each tank shall be maintained to ensure that at least 99% of the tank volume can be readily emptied be direct pumping or drainage;

5. Each tank shall be rendered empty, as defined at N.J.A.C. 7:26-1.4, every 90 days or less;

6. All waste removed from the tanks shall be shipped off-site to an authorized facility as defined at N.J.A.C. 7:26-1.4;

7. Metem shall continue to comply with the requirements for owners or operators of hazardous waste facilities under N.J.A.C. 7:26-9.4(g) concerning personnel training, and under N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, and emergency procedures;

8. The below-grade portion of each tank must be maintained, within its containment, to allow for visual inspection comparable to a totally above-ground tank;

9. Each tank shall be maintained so that its "Hazardous Waste" label or marking is clearly visible.

It is Metem's responsibility to operate within the conditions listed above. To operate a hazardous waste facility without prior approval from the Department is a violation of the Solid Waste Act N.J.S.A. 13:1E-1 et. seq.

This written acknowledgement of the exclusion of Metem from the hazardous waste facility requirements under N.J.A.C. 7:26-1 et. seq. is based expressly on the review of the aforementioned submittal, files, and report of site visit/meeting. The issuance of this approval letter does not indicate, or imply, and should not be constructed as a waiver of any requirements persuant to the New Jersey Water Pollution Control Act, N.J.A.C. 58:10A-1 et. seq. and regulations promulgated thereunder concerning the New Jersey Pollutant Discharge Elimination System, N.J.A.C. 7:14-1 et. seq.

DEC 2 1 1988

If you should have any questions on this matter, please direct them to Scot J. Frow of my staff at (609) 292-9880.

Very truly yours,

Ernest J. Kuhlwein, Jr., Chief
Bureau of Hazardous Waste Engineering

EP48/dm

cc: Barry Toruick, USEPA
D. Shotwell, BNE
W. Howitz, BCTS

A5

COMPANY NAME: Metem Corp HWC REVIEW DATE: 4/6/90

FACILITY LOCATION: 700 Parsippany Rd. Parsippany COUNTY: Morris STATE: NJ

REVIEWER'S NAME: R. Krauser ID NO. NJD002139244

PA REPORT DATE: 5/12/89

COMPANY MANUFACTURING OPERATION DESCRIPTION AND DURATION OF OPERATION: Manufactures engine components by physical & chemical machining processes.

HAZARDOUS WASTE GENERATED: sulfuric and nitric acids, waste oil, and 1,1,1-trichloroethane

TSD? REGULATORY STATUS: generator; no TSD status reported because company never filed Part A application.

REGULATED UNITS ON SITE:

(1) drum storage area - ~~to~~

(2) storage tanks - adequate containment

SOLID WASTE MANAGEMENT UNITS ON SITE (pre-Nov. 19, 1980):

?

NATURE OF ANY RELEASES:

RELEASE INFORMATION-BY SOLID WASTE MANAGEMENT UNIT/REGULATED UNIT:

(1) reported leak of oil and 1,1,1-trichloroethane from ~~drum~~ drum storage area.

ENVIRONMENTAL SETTING AND IMPACTS:

- RESIDENTIAL

- INDUSTRIAL ✓

- GROUNDWATER USE (drinking water supply, sole source aquifer, etc.) Curved Valley Aquifer System (sole source) Ground water at -7 feet.

- SURFACEWATER - direct route to surface water; high potential for impacts, low probability.

- SOIL AND AIR — low probability for impacts to air.

INVOLVEMENT OF OTHER REGULATORY AGENCIES/PROGRAMS:

unknown

COMMENTS:

NJDEP reports numerous violations (drum spills and no Part A); spills and soil reportedly cleaned up; no testing done.

RECOMMENDATION FOR FURTHER ACTION, INCLUDING PRIORITY:

Recommend testing of soil; well testing of soil contamination found; ~~[illegible]~~ moderate priority (same as CERCLA recommendation)

TSD?

If only from spills, not under [illegible] unless [illegible]

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - REGION II
290 BROADWAY
NEW YORK, NEW YORK 10007-1866

22 Nov 1995

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Ismael Yepes, Facility Manager
Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054

Re: Metem Corporation
EPA I.D. No. NJD002139244

Dear Mr. Yepes:

This Notice of Violation is issued pursuant to Section 3008 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984 42 U.S.C. § § 6901, 6928.

Pursuant to HSWA, the U.S. Environmental Protection Agency (EPA) has promulgated regulations since November 7, 1986, which prohibit the land disposal of restricted waste. These regulations are published in 40 C.F.R. Part 268, and amend various sections of 40 C.F.R. Parts 260-265 and 270.

The State of New Jersey is authorized by EPA to conduct a hazardous waste program under Section 3006 of RCRA, 42 U.S.C. § 6926. However, the authorized State program does not include all provisions of HSWA, and regulations promulgated thereunder. EPA, therefore, retains the primary authority to implement and enforce all unauthorized regulations promulgated pursuant to HSWA, including the land disposal restrictions (LDR).

On May 1, 1995, Mr. Brian Farbanish of the NJDEP conducted an inspection of Metem Corp., Parsippany, NJ, pursuant to Section 3007 of RCRA, 42 U.S.C. § 6927. During this inspection, the inspector noted that:

1. 40 C.F.R. § 268.7(a)(7), which is oue of the provisions of the LDR, has been violated. Section 268.7(a)(7) requires the following:

   A generator must retain on-site a copy of all notices, certifications, demonstrations, waste analysis data, and other documentation produced pursuant to this section for at

retention period is automatically extended during the course of any unresolved enforcement action regarding the regulated activity or as requested by the Administrator.

At the time of the above referenced inspection, twenty nine (29) manifest copies were found to be without the required LDR notifications and the facility failed to retain on-site a copy of all documentation concerning hazardous waste for at least five years. Attached is a list of manifests from April 20, 1992, to April 20, 1995. Those manifests which have an "L" next to them were missing the LDR notification at the time of the inspection.

If you have not already done so, you must take immediate action to implement the regulations published in 40 C.F.R. Part 268. You must submit, within thirty (30) days of the receipt of this correspondence, a response which includes (1) a description of the actions you have taken to correct the violation(s) noted above; and (2) a description of the corrective actions you have taken to ensure future compliance with the regulations published in 40 C.F.R. Part 268.

Failure to comply and submit the documentation requested in this Notice of Violation may subject you and/or your company to the enforcement provisions of Section 3008 of RCRA, 42 U.S.C § 6928.

If you have any questions regarding this matter, please contact Mr. Raymond Licata at (212) 637-4149.

Sincerely yours,

Original Signed By
\George C. Meyer

George C. Meyer, P.E., Chief
Hazardous Waste Compliance Branch

Attachments

cc: James Hamilton, Assistant Director
Office of Enforcement Policy
New Jersey Department of Environmental
Protection

20/95 disposal restriction form

MASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR
NEIEM CORPORATION
700 PARSIPPANY RD
PARSIPPANY , NJ
NJD002139244

TSDF	MANIFEST	DATE SHIPPED	MASTE CODE	MASTE NAME	QUANTITY
AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951550	05/13/92	D007	CHROMIUM	30 CY
AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951551	06/24/92	D002	CHARACTERISTIC OF CORROSIVITY	2600 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	5000 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3200 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	2400 P
AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951552	06/29/92	D007	CHROMIUM	30 CY
	NJA0951554	08/27/92	D007	CHROMIUM	30 CY
AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951555	09/14/92	D002	CHARACTERISTIC OF CORROSIVITY	2200 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	8300 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1200 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951556	10/01/92	D007	CHROMIUM	30 CY
S & M WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1489192	11/06/92	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	220 G
			F001	SPT HAL SOLVESLUDG DEGREAS OPE	110 G
AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH					

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951558	11/20/92	D007	CHROMIUM	30 CY
	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951557	11/25/92	D002	CHARACTERISTIC OF CORROSIVITY	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	9485 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
		NJA0951559	12/08/92	D002	CHARACTERISTIC OF CORROSIVITY	400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	200 P
	S & W WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1536710	12/09/92	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	825 G
	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951560	01/27/93	D002	CHARACTERISTIC OF CORROSIVITY	800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1200 P
				X726	OIL/MT/ WRK,TURBN,DEGEL,QUENCH	200 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	300 P
	S & W WASTE INC 105 JACOBUS AVE SO KEARNY , NJ NJD991291105	NJA1537084	01/27/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	770 G
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951561	02/01/93	D007	CHROMIUM	30 CY
		NJA0951562	03/23/93	D007	CHROMIUM	30 CY

1HWR1631C
04/20/95
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION PAGE 7
DIVISION OF HAZARDOUS WASTE MANAGEMENT

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951563	04/28/93	D002	CHARACTERISTIC OF CORROSIVITY	2000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0397853	05/05/93	U002	~~ACETALDEHYDE~~ Acetone	1500 P
	according to manifest waste is U002 not U001			X900	CHEMICAL PROCESS-LIQUID,NOS	7800 P
	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951564	05/13/93	D007	CHROMIUM	30 CY

		NJA0951565	06/28/93	D007	CHROMIUM	20 C
0	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0403975	09/01/93	X910	CHEMICAL PROCESS-SOLID,NOS	5000 P
		MDC0403976	09/01/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	4500 P
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951567	09/09/93	D002	CHARACTERISTIC OF CORROSIVITY	2400 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	300 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1600 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	700 P
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951569	10/18/93	D007	CHROMIUM	30 C

0

GENERATOR	TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
-METEM CORPORATION 700 PARSIPPANY RD PARSIPPANY , NJ NJD002139244	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0409538	11/23/93	X900	CHEMICAL PROCESS-LIQUID,NOS	14000 P
				X910	CHEMICAL PROCESS-SOLID,NOS	900 P
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951570	12/02/93	D002	CHARACTERISTIC OF CORROSIVITY	1625 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	250 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1500 P
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951571	12/06/93	D007	CHROMIUM	30 C
0	CASIE ECOLOGY OIL SALVAGE 3209 N MILL RD VINELAND , NJ NJD045995693	NJA1781567	12/16/93	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1500 G
0	AGMET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951572	01/27/94	D007	CHROMIUM	30 C
0	AGMET CO 7680 BOND ST GLENWILLOW , OH OHD027351626	NJA0951573	03/14/94	D002	CHARACTERISTIC OF CORROSIVITY	3250 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1000 P
				X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3300 P
0	GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0403547	03/22/94	X900	CHEMICAL PROCESS-LIQUID,NOS	12800 P

WASTE MANIFESTS FROM 04/20/92 TO 04/20/95
FROM GENERATOR NJD002139244 TO SPECIFIED TSDF'S

GENERATOR
-NETEM CORPORATION
700 PARSIPPANY RD
PARSIPPANY , NJ
NJD002139244

TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
AGNET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA0951574	04/05/94	D007	CHROMIUM	30 CY
AGNET CO 7680 BOND ST GLENVILLOW , OH OHD027351626	NJA1565796	05/13/94	D002	CHARACTERISTIC OF CORROSIVITY	500 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1800 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	250 P
GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0518714	05/18/94	X900	CHEMICAL PROCESS-LIQUID,NOS	6800 P
AGNET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565797	05/19/94	D007	CHROMIUM	20 CY
	NJA1565798	07/27/94	D007	CHROMIUM	30 CY
AGNET CO 7680 BOND ST GLENVILLOW , OH OHD027351626	NJA1565799	08/16/94	D002	CHARACTERISTIC OF CORROSIVITY	1650 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1400 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	1400 P
GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0523472	08/17/94	X910	CHEMICAL PROCESS-SOLID,NOS	6800 P
AGNET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565800	10/17/94	D007	CHROMIUM	30 CY

GENERATOR
-NETEM CORPORATION
700 PARSIPPANY RD
PARSIPPANY , NJ
NJD002139244

TSDF	MANIFEST	DATE SHIPPED	WASTE CODE	WASTE NAME	QUANTITY
GSX SERVICES INC 3527 WHISKEY BOTTOM RD LAUREL , MD MDD980554653	MDC0525443	11/29/94	X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3200 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	800 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	3500 P
			X725	OIL SPILL CLEANUP MATERIAL	2400 P
			X910	CHEMICAL PROCESS-SOLID,NOS	1000 P
			X726	OIL/MT/ WRK,TURBN,DESEL,QUENCH	350 P
AGNET METALS INC 7800 MEDUSA RD OAKWOOD VILLAGE , OH OHD986976348	NJA1565801	12/27/94	D007	CHROMIUM	30 CY
	NJA1565802	03/09/95	D007	CHROMIUM	33040 P

RECEIVED
8/25/95

METEM

Metem Corporation
700 Parsippany Road
Parsippany, NJ 07054
(201) 887-6635
FAX (201) 887-1755

August 19, 1995

Mr. GEORGE C. MEYER, P.E. Chief
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY - REGION II
290 BROADWAY
NEW YORK, NEW YORK 10007 - 1866

Re: Metem Corporation
EPA I.D. No. NJD002139244

Dear Mr. Meyer:

I am in receipt of your letter regarding the violation found by Mr. Brian Fairbanish when he conducted an inspection of this facility on May 1, 1995.

Few days later after this inspection, Mr. Fairbanish followed up on this matter and I told him that I was getting the copies of the LDR and some manifests from the TSDF. When I got the copies, I informed him of the results, and then I was in compliance. The violation had been corrected and the course of action was that the TSDF should submit a copy of the LDR and the manifest every time they receive any product originated in our waste stream.

It is for the above reason that I am pleased to notify you that our violation pursuant to Section 3007 of RCRA, 42 U.S.C. 6927 had been corrected and I had notified our TSDF to be aware of this situation every time they receive our waste.

Sincerely,

ISMAEL E. YEPES
Facilities Manager

Change (Status)

00 MAR 22 PM 4:03

PROGRAMS BRANCH

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 9-30-92 GSA No. 0246 EPA-01

Please refer to the Instructions for Filing Notification before completing this form. The information requested here is required by law (Section 3010 of the Resource Conservation and Recovery Act).

EPA

Notification of Regulated Waste Activity

United States Environmental Protection Agency

Date Received (For Official Use Only)

I. Installation's EPA ID Number (Mark "X" in the appropriate box)

☐ A. First Notification ☒ B. Subsequent Notification (Complete item C)

C. Installation's EPA ID Number: NJD002139244

II. Name of Installation (Include company and specific site name)

METEM CORP.

III. Location of Installation (Physical address, not P.O. Box or Route Number)

Street: 700 PARSIPPANY ROAD

Street (Continued):

City or Town: PARSIPPANY | State: NJ | Zip Code: 07054-

County Code: | County Name: MORRIS

IV. Installation Mailing Address (See instructions)

Street or P.O. Box: SAME

City or Town: | State: | Zip Code: -

V. Installation Contact (Person to be contacted regarding waste activities at site)

Name (Last): DeMUNNO | (First): Anthony

Job Title: FACILITIES MNGR. | Phone Number (Area Code and Number): 973-887-6635

VI. Installation Contact Address (See instructions)

A. Contact Address: Location ☒ Mailing ☐ Other ☐

B. Street or P.O. Box:

City or Town: | State: | Zip Code: -

VII. Ownership (See instructions)

A. Name of Installation's Legal Owner: METEM CORP

Street, P.O. Box, or Route Number: 700 PARSIPPANY ROAD

City or Town: PARSIPPANY | State: NJ | Zip Code: 07054-

Phone Number (Area Code and Number): 973-887-6635 | B. Land Type: P | C. Owner Type: P | D. Change of Owner Indicator: Yes ☐ No ☐ (Date Changed) Month Day Year

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

Continued on Reverse

Orthos Nonfed US Post office 58

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0029 Expires 9-30-98
NSA No. 4796-EPA-01

ID - For Official Use Only

VIII. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes; Refer to instructions)

A. Hazardous Waste Activity

1. Generator (See instructions)
   - ☐ a. Greater than 1000kg/mo (2,200 lbs.)
   - ☐ b. 100 to 1000 kg/mo (200-2,200 lbs.)
   - ☒ c. Less than 100 kg/mo (220 lbs)
2. Transporter (Indicate Mode in boxes 1-5 below) N/A
   - ☐ a. For own waste only
   - ☐ b. For commercial purposes

   Mode of Transportation
   - ☐ 1. Air
   - ☐ 2. Rail
   - ☐ 3. Highway
   - ☐ 4. Water
   - ☐ 5. Other - specify
3. ☐ Treater, Storer, Disposer (at Installation) Note: A permit is required for this activity; see instructions. N/A
4. Hazardous Waste Fuel N/A
   - ☐ a. Generator Marketing to Burner
   - ☐ b. Other Marketers
   - ☐ a. Boiler and/or Industrial Furnace
     - ☐ 1. Smaller Deferral
     - ☐ 2. Small Quantity Exemption

   Indicate Type of Combustion Device(s)
   - ☐ 1. Utility Boiler
   - ☐ 2. Industrial Boiler
   - ☐ 3. Industrial Furnace
5. ☐ Underground Injection Control N/A

B. Used Oil Recycling Activities

1. Used Oil Fuel Marketer N/A
   - ☐ a. Marketer Directs Shipment of Used Oil to Off-Specification Burner
   - ☐ b. Marketer Who First Claims the Used Oil Meets the Specifications
2. Used Oil Burner - Indicate Type(s) of Combustion Device(s)
   - ☐ a. Utility Boiler
   - ☐ b. Industrial Boiler
   - ☐ c. Industrial Furnace
3. Used Oil Transporter - Indicate Type(s) of Activity(ies)
   - ☐ a. Transporter
   - ☐ b. Transfer Facility
4. Used Oil Processor/Re-refiner - Indicate Type(s) of Activity(ies)
   - ☐ a. Process
   - ☐ b. Re-refine

IX. Description of Hazardous Wastes (Use additional sheets if necessary)

A. Characteristics of Nonlisted Hazardous Wastes. (Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles; See 40 CFR Parts 261.20 - 261.24)

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic (List specific EPA hazardous waste number(s) for the Toxicity characteristic contaminant(s))
☒	☐	☐	☒

B. Listed Hazardous Wastes. (See 40 CFR 261.31 - 33; See instructions if you need to list more than 12 waste codes.)

N/A

1	2	3	4	5	6
7	8	9	10	11	12

C. Other Wastes. (State or other wastes requiring a handler to have an I.D. number; See instructions.)

N/A

1	2	3	4	5	6

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title (Type or print)	Date Signed
[signature]	A. DeMunno - Facilities Mgr	3/16/00

XI. Comments

Metem Corporation is submitting this notification to change its generator status to "Conditionally Exempt Small Quantity."

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section III of the booklet for addresses.)

EPA Form 8700-12 (Rev. 11-30-93) Previous edition is obsolete.

March 15, 2000

U.S.E.P.A. – Region II
DEPP
290 Broadway, 22nd Floor
New York, NY 10007-1866
Attention: Mr. Jack Hoyt

Certified Mail No. Z 392 200 856

Re: Metem Corporation
700 Parsippany Road
Parsippany, New Jersey 07054
USEPA ID No. NJD002139244

Dear Mr. Hoyt:

Please find enclosed, Form 8700 – 12, referencing a request for a change of status from small quantity generator to conditionally exempt small quantity generator. Please call our consultant, Mr. Fred Rubel of Dewling Associates, Inc. at (908) 687-6636 if you have any questions regarding the enclosed.

Sincerely,

Anthony DeMunno
Facilities Manager

Enclosure

ACKNOWLEDGEMENT OF NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

03/27/00

This is to acknowledge that you have filed a **Notification of Hazardous Waste Activity** for the installation located at the address shown in the box below to comply with Section 3010 of the Resource Conservation and Recovery Act (RCRA). Your EPA Identification Number for that installation appears in the box below. The EPA Identification Number must be included on all shipping manifests for transporting hazardous wastes; on all Annual Reports that generators of hazardous waste, and owners and operators of hazardous waste treatment, storage and disposal facilities must file with EPA; on all applications for a Federal Hazardous Waste Permit; and other hazardous waste management reports and documents required under Subtitle C of RCRA.

EPA I.D. NUMBER	→	**NJD002139244**
INSTALLATION NAME	→	**METEM CORP**
INSTALLATION ADDRESS	→	**700 PARSIPPANY RD PARSIPPANY, NJ 07054**
MAILING ADDRESS	→	**700 PARSIPPANY RD PARSIPPANY, NJ 07054**

EPA Form 8700-12AB (4-80)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY, 22nd Floor
NEW YORK, NEW YORK 10007-1866

ATTN: DIV OF ENVIRON PLANNING & PROTECTION
RCRA PROGRAMS BRANCH

NJD002139244
METEM CORP
PARSIPPANY NJ

TO: DEMUNNO, ANTHONY
FACIL MGR
700 PARSIPPANY RD
PARSIPPANY, NJ 07054

Facility Name: Metem Corp.

Category: 3

EPA ID Number: NJD002139244

Date of doc.:

Confidential (Non CBI): [ ] → Confidential Page No.: [ ]

Non Confidential: [X]

Copy: [ ]

Original: [ ]

FOIA Exempt: [ ]

Non FOIA Exempt: [ ]

Project Manager Signature:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 2
290 BROADWAY
NEW YORK, NY 10007-1866

Mr. Ismael Yepes, Facility Manager
Metem Corporation
700 Parsippany Road
Parsippany, New Jersey 07054

Re: Metem Corporation
EPA I.D. No. NJD002139244

Dear Mr. Yepes:

Your submittal in response to the U.S. Environmental Protection Agency's (EPA) Notice of Violation dated June 23, 1995, has been deemed satisfactory. Your facility has been entered in our Data Management System as having achieved physical compliance with the violation cited in the above referenced letter. This matter can now be considered concluded and the enforcement action resolved.

Please be advised your facility is under the continuing obligation to comply with all the applicable state and federal regulations regarding the management of hazardous waste. Subsequently, if your facility should be found in violation of the regulation in the future, you may be subject to escalated enforcement action, including monetary penalties.

If you have any questions regarding this matter, please contact Raymond Licata at (212) 637-4149.

Sincerely yours,

Joel Golumbek, Chief
NJ/Caribbean Compliance Section
Hazardous Waste Compliance Branch

cc: James Hamilton, Asst. Director
Office of Enforcement Policy
New Jersey Dept. of Environmental
Protection

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FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

Report run on: July 10, 2014 - 2:25 PM

Version 5.0

User Selection Criteria

Location:	New Jersey, all activities	**Activity Location:**	None Chosen
Handler ID:	NJD002139244	**Group of IDs:**	None Chosen
Handler Name:			
Handler Universe:	All Facilities Regardless of Universe		
Determined Date Range:	From: 10/01/1980 To: 07/10/2014		
Location County Code:	None Chosen	**Evaluation Type:**	
Location City:		**Focus Area:**	
Location Zip Code:		**Violation Type:**	
State District:	None Chosen	**Display Code Descrip.:**	Yes
Sort Order:	Region, State, Handler Name	**Display Universes:**	Yes

Results

Data meeting the criteria you selected follows.

Total Pages:9 Total Handlers:*

Report Description

This report presents available information from the Resource Conservation and Recovery Act Information System (RCRAInfo) about compliance evaluations, violations, and enforcement actions meeting the criteria supplied by the user. Evaluations showing no violations does not always indicate that no violations were determined. Violation without enforcement actions does not always mean no enforcement action will be issued. In order to avoid releasing enforcement sensitive information to the public the following information is not shown on the report: pending civil / judicial referrals, criminal actions and referrals, and State to EPA referrals; all other enforcement actions are released.

Report Information

Name:	cme_foia.rdf
Developed by:	EPA Headquarters, Office of Enforcement and Compliance Assurance
Deployed:	June 2006
Last Updated:	May 2012
Contact:	rcrainfo.help@epa.gov
Tables Used:	cmecomp3, ccitation3, hreport_univ5, lu_citation, lu_state, hid_groups
Libraries:	none

FOIA Report of Non-Sensitive Compliance Monitoring and Enforcement Data

Report run on: July 10, 2014 - 2:25 PM

METEM CORP County Name / Code: MORRIS / NJ027 **NJD002139244**

Location: 700 PARSIPPANY RD; PARSIPPANY NJ 07054 **REGION 02**

Mailing: 700 PARSIPPANY RD; PARSIPPANY NJ 07054

Activity Location: NJ | State District: NORTHERN | Accessibility: | Non-Notifier: | Extract Flag: Y | Active Site: Y

Generator: CEG | Transporter: N | Operating TSDF: ---- | IC In Place: N | EI Indicator (HE / GW): N / N
Short-Term Gen: N | Transfer Facility: N | Offsite Receiver: N | HSM: N | Subpart K: —
Full Enforcement: ---- | Converter: ---- | State Unaddressed SNC: N | EPA Unaddressed SNC: N
CA Wrkld: N | State TSDF: ---- | State Addressed SNC: N | EPA Addressed SNC: N
Active State Gen: N | State SNC w/Comp Sched: N | EPA SNC w/Comp Sched: N

Violation: Activity Location: NJ Type: 262.A Determined Date: 05/01/1995 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 05/16/1995 Actual Compliance Date: 05/24/1995 RTC Qualifier: OBSERVED Sequence Number: 11

NRR Evaluation 05/24/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CSE Evaluation 05/02/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CEI Evaluation 05/01/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 05/01/1995 Identifier: 000
Docket: Agency: State Responsible Person: NJBF Branch: N
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 05/01/1995 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 05/16/1995 Actual Compliance Date: 05/24/1995 RTC Qualifier: OBSERVED Sequence Number: 12

NRR Evaluation 05/24/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CSE Evaluation 05/02/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CEI Evaluation 05/01/1995 Activity Location: NJ By: State Identifier: 000 Person: NJBF Branch: N Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 05/01/1995 Identifier: 000
Docket: Agency: State Responsible Person: NJBF Branch: N
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 266.A Determined Date: 11/12/1992 Determined by Agency: EPA Responsible Agency: EPA
Scheduled Compliance Date: 12/12/1992 Actual Compliance Date: 12/02/1992 RTC Qualifier: OBSERVED Sequence Number: 1

CEI Evaluation 07/15/1992 Activity Location: NJ By: State Identifier: 000 Person: R2DEP Branch: NJ Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

* Note: Penalty amount may not reflect all violations cited.

METEM CORP, NJD002139244, PARSIPPANY, NJ, continued -

Enforcement: Activity Location: NJ Type: 120 Action Date: 11/12/1992 Identifier: 000
Docket: Agency: EPA Responsible Person: R2KL Branch: RCB
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 5

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 6

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 7

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 8

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

* Note: Penalty amount may not reflect all violations cited.

METEM CORP, NJD002139244, PARSIPPANY, NJ, continued *

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 9

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/02/1990 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 04/23/1990 Actual Compliance Date: 05/04/1990 RTC Qualifier: OBSERVED Sequence Number: 10

CEI Evaluation 04/02/1990 Activity Location: NJ By: State Identifier: 009 Person: R2DEP Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/02/1990 Identifier: 005
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 04/22/1985 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 05/03/1985 Actual Compliance Date: 06/25/1985 RTC Qualifier: OBSERVED Sequence Number: 4

CEI Evaluation 04/22/1985 Activity Location: NJ By: State Identifier: 004 Person: Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 04/22/1985 Identifier: 004
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 07/27/1984 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: Actual Compliance Date: 04/22/1985 RTC Qualifier: UNVERIFIABLE Sequence Number: 1

NRR Evaluation 07/27/1984 Activity Location: NJ By: State Identifier: 002 Person: Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

No Linked Enforcements

Violation: Activity Location: NJ Type: 262.A Determined Date: 06/06/1984 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 07/02/1985 Actual Compliance Date: 04/04/1985 RTC Qualifier: OBSERVED Sequence Number: 2

CEI Evaluation 06/06/1984 Activity Location: NJ By: State Identifier: 003 Person: Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

* Note: Penalty amount may not reflect all violations cited.

METEM CORP, NJD002139244, PARSIPPANY, NJ, continued -

Enforcement: Activity Location: NJ Type: 310 Action Date: 01/02/1985 Identifier: 001
Docket: Agency: State Responsible Person: R2DEP Branch:
Penalty Information: Proposed $250 Final Monetary: $250 Collected: Total Final: $250
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Enforcement: Activity Location: NJ Type: 120 Action Date: 06/06/1984 Identifier: 002
Docket: Agency: State Responsible Person: R2DEP Branch
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Violation: Activity Location: NJ Type: 262.A Determined Date: 06/06/1984 Determined by Agency: State Responsible Agency: State
Scheduled Compliance Date: 06/21/1984 Actual Compliance Date: 04/04/1985 RTC Qualifier: OBSERVED Sequence Number: 3

CEI Evaluation 06/06/1984 Activity Location: NJ By: State Identifier: 003 Person: Branch: Found Violation: YES
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Enforcement: Activity Location: NJ Type: 120 Action Date: 06/06/1984 Identifier: 002
Docket: Agency: State Responsible Person: R2DEP Branch:
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Evaluations With No Violations:

CEI Evaluation 05/18/2011 Activity Location: NJ By: State Identifier: 001 Person: TOPHT Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: YES Sampling: NO Not Subtitle C: NO Day Zero: 05/16/2011 Focus Area:

CDI Evaluation 07/24/2008 Activity Location: NJ By: State Identifier: 001 Person: NOSDS Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: YES Sampling: NO Not Subtitle C: NO Day Zero: 07/24/2008 Focus Area:

CEI Evaluation 04/17/2006 Activity Location: NJ By: State Identifier: 001 Person: NOSDS Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CDI Evaluation 09/29/1999 Activity Location: NJ By: State Identifier: 000 Person: NJMM Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

FCI Evaluation 04/28/1999 Activity Location: NJ By: State Identifier: 000 Person: NJTB Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area: V3

CEI Evaluation 06/06/1997 Activity Location: NJ By: State Identifier: 000 Person: NJRA Branch: N Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CSE Evaluation 05/04/1993 Activity Location: NJ By: State Identifier: 010 Person: R2DEP Branch: Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

NRR Evaluation 03/29/1988 Activity Location: NJ By: State Identifier: 007 Person: R2DEP Branch: Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero Focus Area:

NRR Evaluation 03/05/1986 Activity Location: NJ By: State Identifier: 006 Person: R2DEP Branch: Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

* Note: Penalty amount may not reflect all violations cited.

METEM CORP, NJD002139244, PARSIPPANY, NJ, continued -

NRR Evaluation 04/22/1995 Activity Location: NJ By: State Identifier: 005 Person: Branch: Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

CEI Evaluation 06/13/1994 Activity Location: NJ By: State Identifier: 001 Person: Branch: Found Violation: NO
Citizen Complaint: NO Multimedia Inspection: NO Sampling: NO Not Subtitle C: NO Day Zero: Focus Area:

Orphan Enforcement Actions:

Enforcement: Activity Location: NJ Type: 120 Action Date: 06/22/1995 Identifier: 000
Docket: Agency: EPA Responsible Person: R2RJL Branch: RCB
CA Component: N Disposition Status: Appeal Initiated: Appeal Resolved:

Total Number of Handlers: 1
Total Number of Activity Locations: 1

*** End of Report ***

* Note: Penalty amount may not reflect all violations cited.

Description of codes used on the report:

Universes	Description of Universes
Generator	Indicates that the facility is a Large Quantity Generator (LQG), Small Quantity Generator (SQG), Conditionally Exempt Small Quantity Generator (CEG), or not a generator (N).
Transporter	Indicates that the facility Transports waste subject to RCRA regulations. ('Y' indicates that the facility is in this universe).
Operating TSDF	Indicates that the facility is a Treatment, Storage or Disposal facility subject to any type of enforcement. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
IC In Place	Indicates that the facility has Institutional Controls in place. ('Y' indicates that the facility is in this universe).
EI Indicator (HE / GW)	Indicates that the facility has controls in place for Environmental Indicators. HE - Human Exposures ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist) GW - Groundwater Release ('+' indicates the exposure exists and is under control; '-' indicates the exposure exists and is not under control; 'N' indicates the exposure does not exist)
Short-Term Gen	Indicates that the facility is a short term or one time event generator and not generating from ongoing processes.
Transfer Facility	Indicates that the facility transfers hazardous waste.
Offsite Receiver	Indicates that the facility, whether public or private, currently accepts hazardous waste from another site (site identified by a different EPA ID).
HSM	Indicates that the facility manages hazardous secondary material(s) (e.g. spent material, by-product or sludge) that when discarded, would be identified as hazardous waste.
Subpart K	Indicates that the facility has opted into the subpart K laboratory rule. It then specifies the type of facility (C - College or University; H - Teaching Hospital; N - Non-profit Research Institute; W - withdrawal from the rule)
Full Enforcement	Indicates that the facility is a Treatment, Storage or Disposal facility which is part of the Full Enforcement Universe. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
CA Workload	Indicates that the facility is part of the Corrective Action Workload universe. ('Y' indicates that the facility is in this universe).
Active State Gen	Indicates that the facility is an Active State Generator. ('Y' indicates that the facility is in this universe).
Converter	Indicates that the facility is a Converter Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
State TSDF	Indicates that the facility is a State Treatment, Storage or Disposal facility. It then specifies the type of facility (L - Land Disposal; I - Incinerator; B - BIF; S - Storage; T - Treatment)
State Unaddressed SNC	Indicates that the facility is a State Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe)
State Addressed SNC	Indicates that the facility is a State Addressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
State SNC w/ Compl. Sched	Indicates that the facility is a State Significant Non-Complier with a Compliance Schedule. ('Y' indicates that the facility is in this universe).
EPA Unaddressed SNC	Indicates that the facility is an EPA Unaddressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
EPA Addressed SNC	Indicates that the facility is an EPA Addressed Significant Non-Complier. ('Y' indicates that the facility is in this universe).
EPA SNC w/ Compl. Sched	Indicates that the facility is a EPA Significant Non-Complier with a Compliance Schedule. ('Y' indicates that the facility is in this universe)

* Note: Penalty amount may not reflect all violations cited.

Description of codes used on the report:

ACCESSIBILITY - indicates the reason why the handler is not accessible for normal RCRA tracking and processing (previously called Bankrupt Indicator):

Code	Description
B	ndicates that the handler has filed for bankruptcy and bankruptcy litigation is in process.
C	ndicates that all RCRA responsibilit es for permitting/closure, correct ve action, and compliance monitoring and e nforcement at the facility have been formally transferred to the CERCLA program or state equivalent.
F	ndicates that all responsible parties (owners/operators) for the handler have fled the country or are otherwise not availab e for prosecution.
L	indicates that the handler's case is tied up in litigation to the extent that further progress in achieving RCRA compliance through normal enforcement is not possible.

NON-NOTIFIER - Indicates that the handler has been identified through a source other than Notification and is suspected of conducting RCRA-regulated activities without proper authority:

Code	Description
E	indicates that the handler was initially a non-notifier, subsequently determined to be exempt from requirements to notify.
O	indicates that the handler is a former non-notifier.
X	indicates that the handler is a non-notifier.

Violation Type	Description
262.A	GENERATORS - GENERAL
268.A	LDR - GENERAL

Evaluation Type	Type Description
CDI	CASE DEVELOPMENT INSPECTION
CEI	COMPLIANCE EVALUATION INSPECTION ON-SITE
CSE	COMPLIANCE SCHEDULE EVALUATION
FCI	FOCUSED COMPLIANCE INSPECTION
NRR	NON-FINANCIAL RECORD REVIEW

Focus Area	Description
V3	CONVERTED FROM V2 RCRAINFO

* Note: Penalty amount may not reflect all violations cited

Description of codes used on the report:

Enforcement Type	Enforcement Description
120	WRITTEN INFORMAL
310	FINAL 3008(A) COMPLIANCE ORDER

* Note: Penalty amount may not reflect all violations cited.