

SUMMARY

Monarch Chemical Company

Prentice Road, Town of Vestal,
Broome County, New York 13850

Monarch is located on an 1/4 acre lot. The firm, has been in business for about 10 years and is neither a generator nor does it have an inactive landfill on its property, as erroneously stated on the 2 page State Report. The firm repackages bulk chemicals into containers, mainly 55 gallon drums. It is located in a large building with a bulk chemical storage in the rear of the lot. It has several above ground tanks. Monarch has a scavenger permit, as part of its parent company, Jones Chemical (100 Sunnysol Blvd, Caledonia, Livingston County, New York 14423), which has a fleet of about 28 trucks. The firm also picks up spent solvents for resale. It has about 6000 gallons of various solvents on its premises all the time.

The property is located in an industrial area, adjacent to the commercial section of the Town of Vestal. The distance to the nearest home is about 30 feet. The nearby residences have private wells, which, are not being used for drinking water. The potable water comes from a public water supply line. The distance to the nearest surface water, the Susquehanna River, is about 1000 feet.

The Town of Vestal Water District draws water from contaminated wells in the neighborhood. The water passes through an activated charcoal system to eliminate contamination. Static water level in the Vestal area is approximately 20 feet. The depth to the "saturated zone" is 100 feet. It is 40 feet wide.

Static water in the vicinity of the Monarch area is approximately 60 feet. This is due to the influence of Vestal well "4-2", contaminated with 200 ppb of 1,1,1-trichloroethane, (methylchloroform=MCF) and with 50 ppb of trichloroethylene (TCE), which is now being pumped out. Well "4-2" is within 200 feet of the Monarch plant. Three miles downstream from well "4-2" is well "1-1", which had to be closed due to its high contamination of 1400 ppb of MCF and 300 ppb of TCE.

There is no evidence linking Monarch to the dangerous pollution of the Vestal wells. However, the firm handles and repackages many chemicals, among them chlorinated solvents, including MCF and TCE. The company has an SPDES permit which covers the discharge of waste materials from a leachfield and a surface water drain on its property.

NYS DEC had a pre-hearing conference with Monarch. As a result of negotiation and DEC enforcement action, Monarch has hired a groundwater hydrologist, to develop a plan subject to approval by DEC for well cleanup in the area. Under the consultant's supervision, two monitoring test wells were installed in July 1980. One goes into the groundwater, the other reaches into the Vestal aquifer, which is part of the Susquehanna River Basin.

At this time, DEC visits the Monarch lot 2 to 3 times per month, compared to once a year prior to the discovery of the problems. DEC Region 7 is evaluating the contamination of groundwater in the general Vestal area. The Broome County Health Department and DEC Region 7, Binghamton office are working with Monarch to assess the impact of contamination on Public Health and the Environment around Vestal Water District #4.

On August 29, 1978, samples were collected from Water Districts 1 and 4, by SRI International under contract with EPA. It included analyses for halocarbons, aromatics and total organic carbon. Samples were analyzed by GC with later confirmation by GC/MS showing high levels of organic contamination (data enclosed).

Details on contamination of the Vestal wells are in the enclosed DEC Information Dossier, dated July 2, 1980. Any additional information will be supplied by NY State contact, Mr. Mike Nirchi, Sr. Sanitary Engineer, NYS DEC Region 7, Binghamton office, FTS 8 882-2611/(607) 773-7763.

Based on the above facts, the Task Force considers the site as high priority and recommends an inspection. Mr. Nirchi said the State would appreciate our cooperation and help.



POTENTIAL HAZARDOUS WASTE SITE
IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION

II

SITE NUMBER (to be assigned by HQ)

NY000010034

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GENERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME MONARCH CHEMICAL COMPANY		B. STREET (or other identifier) PRENTICE ROAD	
C. CITY VESTAL (TOWN OF)	D. STATE NEW YORK	E. ZIP CODE 13850	F. COUNTY NAME BROOME
G. OWNER/OPERATOR (if known) 1. NAME JONES CHEMICAL, 100 SUNNYSOL BLVD, CALEDONIA, NY 14423 (LIVINGSTON COUNTY)		2. TELEPHONE NUMBER MONARCH, VESTAL: 607 729-3443 716 538-2311	
H. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE <input type="checkbox"/> 6. UNKNOWN			
I. SITE DESCRIPTION THIS IS NEITHER A GENERATOR NOR AN UNLAWFUL INACTIVE LANDFILL SITE AS INDICATED ON THE 2 PAGE STATE FORM. THE FIRM IS LOCATED IN A LARGE BLDG WITH WAREHOUSE, IT IS A REPACKAGER OF CHEMICALS			
J. HOW IDENTIFIED (i.e., citizen's complaints, OSHA citations, etc.) AFTER DISCOVERY OF CONTAMINATION IN VESTAL'S WATER WELLS, IN PARTICULAR WELL #4-2, ABOUT 200 FEET AWAY FROM THE MONARCH PLANT BLDG. (HOWEVER, WAS KNOWN ALREADY IN 1978)		K. DATE IDENTIFIED (mo., day, & yr.) 3/10/1980	
L. PRINCIPAL STATE CONTACT 1. NAME MARIO/MIKE NIRCHI, SR. SANITARY ENG., SUB-OFFICE, 44 HAWLEY ST. NY 13902		2. TELEPHONE NUMBER NYS DEC REGION 7 BINGHAMTON FTS 8 882-2611 / (607) 773-7763	

II. PRELIMINARY ASSESSMENT (complete this section last)

A. APPARENT SERIOUSNESS OF PROBLEM <input checked="" type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE <input type="checkbox"/> 5. UNKNOWN			
B. RECOMMENDATION <input type="checkbox"/> 1. NO ACTION NEEDED (no hazard) <input type="checkbox"/> 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY:		<input checked="" type="checkbox"/> 2. IMMEDIATE SEE INSPECTION NEEDED FOR VESTAL WELLS a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: <input type="checkbox"/> 4. SITE INSPECTION NEEDED (low priority)	

C. PREPARER INFORMATION		
1. NAME GEORGE B. RADAN	2. TELEPHONE NUMBER 212 264-1576	3. DATE (mo., day, & yr.) 9/3/1980

III. SITE INFORMATION

A. SITE STATUS <input checked="" type="checkbox"/> 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.) <input type="checkbox"/> 2. INACTIVE (Those sites which no longer receive wastes.) <input type="checkbox"/> 3. OTHER (specify):		
B. IS GENERATOR ON SITE? <input checked="" type="checkbox"/> 1. NO <input type="checkbox"/> 2. YES (specify generator's four-digit SIC Code):		
C. AREA OF SITE (in acres) 1/4 ACRE	D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES 1. LATITUDE (deg.-min.-sec.) 2. LONGITUDE (deg.-min.-sec.)	
E. ARE THERE BUILDINGS ON THE SITE? <input type="checkbox"/> 1. NO <input checked="" type="checkbox"/> 2. YES (specify): 1 LARGE BUILDING, BULK CHEMICAL STORAGE IN REAR OF LOT.		

IV. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

<input checked="" type="checkbox"/> X	A. TRANSPORTER	<input checked="" type="checkbox"/> X	B. STORER	<input checked="" type="checkbox"/> X	C. TREATER	<input checked="" type="checkbox"/> X	D. DISPOSER
<input checked="" type="checkbox"/> X	1. RAIL	<input checked="" type="checkbox"/> X	1. FILE	<input checked="" type="checkbox"/> X	1. FILTRATION	<input checked="" type="checkbox"/> X	1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE	<input checked="" type="checkbox"/> X	3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
<input checked="" type="checkbox"/> X	4. TRUCK	<input checked="" type="checkbox"/> X	4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS. TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER (specify):
					<input checked="" type="checkbox"/> X 9. OTHER (specify):		
					REPACKAGER OF BULK CHEMICALS		

E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED

FIRM HAS A SCAVENGER PERMIT. IT BUYS CHEMICALS IN BULK AND REPACKAGES IT INTO CONTAINERS, 55 GAL. DRUMS ETC. THE FIRM ALSO PICKS UP SPENT SOLVENTS FOR RESALE, AS PART OF JONES CHEMICAL, WHICH HAS A FLEET OF ABOUT 20 TRUCKS.

V. WASTE RELATED INFORMATION

A. WASTE TYPE

1. UNKNOWN 2. LIQUID 3. SOLID 4. SLUDGE 5. GAS

B. WASTE CHARACTERISTICS

1. UNKNOWN 2. CORROSIVE 3. IGNITABLE 4. RADIOACTIVE 5. HIGHLY VOLATILE
 6. TOXIC 7. REACTIVE 8. INERT 9. FLAMMABLE

10. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

NONE (TO EPA)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE	b. OIL	c. SOLVENTS	d. CHEMICALS	e. SOLIDS	f. OTHER
AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT	AMOUNT
		6000 (APPROX)			
UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE	UNIT OF MEASURE
		GALS / DAY			
<input checked="" type="checkbox"/> X (1) PAINT, PIGMENTS	<input checked="" type="checkbox"/> X (1) OILY WASTES	<input checked="" type="checkbox"/> X (1) HALOGENATED SOLVENTS	<input checked="" type="checkbox"/> X (1) ACIDS	<input checked="" type="checkbox"/> X (1) FLYASH	<input checked="" type="checkbox"/> X (1) LABORATORY PHARMACEUT.
(2) METALS SLUDGES	(2) OTHER (specify):	<input checked="" type="checkbox"/> X (2) NON-HALOGENATED SOLVENTS	(2) PICKLING LIQUORS	(2) ASBESTOS	(2) HOSPITAL
(3) POTW		(3) OTHER (specify):	(3) CAUSTICS	(3) MILLING/ MINE TAILINGS	(3) RADIOACTIVE
(4) ALUMINUM SLUDGE		ON PREMISES AT ALL TIMES, FOR RESALE IN 55 GAL DRUMS (AND OTHER CONTAINERS)	(4) PESTICIDES	(4) FERROUS SMLTG. WASTES	(4) MUNICIPAL
(5) OTHER (specify):			(5) DYES/INKS	(5) NON-FERROUS SMLTG. WASTES	(5) OTHER (specify):
			(6) CYANIDE	(6) OTHER (specify):	
			(7) PHENOLS		
			(8) HALOGENS		
		(9) PCB			
		(10) METALS			
		(11) OTHER (specify):			

V. WASTE RELATED INFORMATION (continued)

3. LIST SUBSTANCES OF GREATEST CONCERN WHICH MAY BE ON THE SITE (place in descending order of hazard).

FLAMMABLE SOLVENTS; CHLORINATED SOLVENTS

4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

THE SITE, PER SE, IS OF LESS IMPORTANCE THAN THE VERY HIGH CONTAMINATION OF NEARBY WATER WELLS, SOME OF WHICH HAD TO BE CLOSED

VI. HAZARD DESCRIPTION

A. TYPE OF HAZARD	B. POTENTIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo., day, yr.)	E. REMARKS
1. NO HAZARD				
2. HUMAN HEALTH				
3. NON-WORKER INJURY/EXPOSURE				
4. WORKER INJURY				
5. CONTAMINATION OF WATER SUPPLY	X			
6. CONTAMINATION OF FOOD CHAIN				
7. CONTAMINATION OF GROUND WATER	X			VERY STRONG CONTAMINATION, AS PROVEN BY SAMPLES TAKEN. RESULTS SHOW
8. CONTAMINATION OF SURFACE WATER	X			200 PPB OF 1,1,1 TRICHLOROETHANE, 200 PPB OF TRICHLOROETHYLENE
9. DAMAGE TO FLORA/FAUNA				200 PPB OF PERCHLOROETHYLENE - FAR ABOVE GROUNDWATER STANDARDS.
10. FISH KILL				⊕ SURFACE WATER CONTAMINATION IS DUE TO WELLS BEING PUMPED OUT AND
11. CONTAMINATION OF AIR				DUMPED INTO SUSQUEHANNA RIVER (A SIDE PROBLEM!)
12. NOTICEABLE ODORS	X			SOLVENT ODORS IN PLANT
13. CONTAMINATION OF SOIL	X			FROM SPILLED SOLVENTS
14. PROPERTY DAMAGE				
15. FIRE OR EXPLOSION				
16. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS				
17. SEWER, STORM DRAIN PROBLEMS				
18. EROSION PROBLEMS				
19. INADEQUATE SECURITY				
20. INCOMPATIBLE WASTES				
21. MIDNIGHT DUMPING				
22. OTHER (specify):				

VII. PERMIT INFORMATION

A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE.

1. NPDES PERMIT 2. SPCC PLAN 3. STATE PERMIT (specify): SPDEC (# 0088871)
 4. AIR PERMITS 5. LOCAL PERMIT 6. RCRA TRANSPORTER
 7. RCRA STORER 8. RCRA TREATER 9. RCRA DISPOSER
 10. OTHER (specify): _____

B. IN COMPLIANCE?

1. YES 2. NO 3. UNKNOWN

4. WITH RESPECT TO (list regulation name & number): _____

VIII. PAST REGULATORY ACTIONS

- A. NONE B. YES (summarize below)

DEC HAD A PRE-HEARING CONFERENCE WITH MONARCH. AS A RESULT OF NEGOTIATION AND DEC ENFORCEMENT ACTION MONARCH HAS HIRED A GROUNDWATER HYDROLOGIST AS CONSULTANT TO DEVELOP A PLAN FOR WELL CLEANUP, SUBJECT TO APPROVAL BY DEC.

IX. INSPECTION ACTIVITY (past or on-going)

- A. NONE B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
SITE VISITATION	8/1980	STATE	WAS 1X/YEAR - BUT AT PRESENT TIME 2 TO 3X/MONTH.

X. REMEDIAL ACTIVITY (past or on-going)

- A. NONE B. YES (complete items 1, 2, 3, & 4 below)

1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yr.)	3. PERFORMED BY: (EPA/State)	4. DESCRIPTION
DRILLED 2 TEST WELLS	7/1980	MONARCH	MONITORING WELLS INSTALLED UNDER THE CONSULTANT'S SUPERVISION; ONE GOES INTO THE GROUNDWATER, THE OTHER REACHES INTO THE VESTAL AQUIFER, WHICH IS PART OF SUSQUEHANNA RIVER BASIN. <input checked="" type="checkbox"/>

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

THE DEC OFFICES ARE EVALUATING THE ASSESSMENT ON GROUNDWATER IN THE GENERAL VESTAL AREA. THE BROOKE COUNTY HEALTH DEPARTMENT AND DEC, REGION 7, SUBOFFICE IN BINGHAMPTON ARE WORKING WITH MONARCH CHEMICAL TO ASSESS THE IMPACT UPON VESTAL WATER DISTRICT #4.