Facility Name: Synkote Paint Company

Location: Elmwood Park, Bergen Co. NJ

EPA Region: II

Person(s) in Charge of the Facility: NJDEP Metro Bureau of Enforcement, D.N. Haz Waste Mgt.

Name of Reviewer: Robert Raisch Date: 1/2/89 revised 4/4/90

General Description of the Facility:

(For example: landfill, surface impoundment, pile, container; types of hazardous substances; location of the facility; contamination route of major concern; types of information needed for rating; agency action, etc.)

Site consist of abandoned paint and coating manufacturing facility. Approximately 300 drums of paints, pigments and solvents were left on site when the company stopped production and went bankrupt in 1985. Soil on site is contaminated by solvents and metals. There is a high potential for groundwater contamination. A potential for fire and/or explosion exists.

Scores:

HRS S_M = 36.73 (S_{gw} = 63.08 S_{sw} = 7.63 S_a = 0)

PRO S_M = 48.86 (S_{gw} = 67.58 S_{sw} = 8.81 S_a = 50.0)

HRS COVER SHEET

*Note: this is a corrected scoring package, sent on April 12, 1990.

253720

Ground Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	45
If observed release is given a score of 45, proceed to line 4. If observed release is given a score of 0, proceed to line 2.					
2 Route Characteristics					
Depth to Aquifer of Concern	0 1 2 3	2	6	6	
Net Precipitation	0 1 2 3	1	2	3	
Permeability of the Unsaturated Zone	0 1 2 3	1	3	3	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			14	15	
3 Containment	0 1 2 3	1	3	3	
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 18 (Aroclor 1254)	1	18	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	3	8	3
Total Waste Characteristics Score			21	26	21
5 Targets					
Ground Water Use	0 1 2 3	3	6	9	6
Distance to Nearest Well/Population Served	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	35	40	35
Total Targets Score			41	49	41
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			36,162	57,330	38,245
7 Divide line 6 by 57,330 and multiply by 100			S_{gw} = 63.08		67.58

Surface Water Route Work Sheet

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	45
If observed release is given a value of 45, proceed to line 4. If observed release is given a value of 0, proceed to line 2.					
2 Route Characteristics					
Facility Slope and Intervening Terrain	0 1 2 3	1	2	3	
1-yr. 24-hr. Rainfall	0 1 2 3	1	2	3	
Distance to Nearest Surface Water	0 1 2 3	2	6	6	
Physical State	0 1 2 3	1	3	3	
Total Route Characteristics Score			13	15	
3 Containment	0 1 2 3	1	3	3	
4 Waste Characteristics					
Toxicity/Persistence	0 3 6 9 12 15 18	1	18	18	18
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1	3	8	3
Total Waste Characteristics Score			21	26	21
5 Targets					
Surface Water Use	0 1 2 3	3	6	9	6
Distance to a Sensitive Environment	0 1 2 3	2	0	6	0
Population Served/Distance to Water Intake Downstream	0 4 6 8 10 / 12 16 18 20 / 24 30 32 35 40	1	0	40	0
Total Targets Score			6	55	6
6 If line 1 is 45, multiply 1 x 4 x 5 / If line 1 is 0, multiply 2 x 3 x 4 x 5			4914	64,350	5670
7 Divide line 6 by 64,350 and multiply by 100		S_{sw} =	7.63		8.81

AIR ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Multi-plier	HRS	Max. Score	PRO
1 Observed Release	0 45	1	0	45	45
Date and Location:					
Sampling Protocol:					
If line 1 is 0, the S = 0. Enter on line 5. If line 1 is 45, then proceed to line 2.					
2 Waste Characteristics					
Reactivity and Incompatibility	0 1 2 3	1		3	1
Toxicity	0 1 2 3	3		9	9
Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	1		8	3
	Total Waste Characteristics Score			20	13
3 Targets					
Population Within 4-Mile Radius	0 9 12 15 18 21 24 27 30	1		30	27
Distance to Sensitive Environment	0 1 2 3	2		6	0
Land Use	0 1 2 3	1		3	3
	Total Targets Score			39	30
4 Multiply 1 x 2 x 3				35,100	17550
5 Divide line 4 by 35,100 and multiply by 100 = S_a =			0		50

HRS

	S	S^2
Groundwater Route Score (S_{gw})	63.08	3978.70
Surface Water Route Score (S_{sw})	7.63	58.22
Air Route Score (S_a)	0	0
$S_{gw}^2 + S_{sw}^2 + S_a^2$		4036.92
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		63.54
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		36.73

WORKSHEET FOR COMPUTING S_M

PRO

	S	S^2
Groundwater Route Score (S_{gw})	67.58	4567.06
Surface Water Route Score (S_{sw})	8.81	76.62
Air Route Score (S_a)	50.00	2500.00
$S_{gw}^2 + S_{sw}^2 + S_a^2$		7143.68
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2}$		84.52
$\sqrt{S_{gw}^2 + S_{sw}^2 + S_a^2} / 1.73 = S_M =$		48.86

WORKSHEET FOR COMPUTING S_M