[redacted]

Illinois Environmental Protection Agency

147088

L 0990300031
Matthiessen & Hegeler Zinc Co.
ILO 000064782
SF/HRS

CERCLA

PRESCORE

SCORESHEET

Printed on Recycled Paper

NPL Characteristics Data Collection Form
Matthiessen and Hegeler Zinc Company - 09/16/94

Record Information

1. Site Name: Matthiessen and Hegeler Zinc Company
   (as entered in CERCLIS)

2. Site CERCLIS Number: ILO 000064782

3. Site Reviewer:

4. Date:

5. Site Location: La Salle, La Salle, Illinois
   (City/County,State)

6. Congressional District: IL-14

7. Site Coordinates: Single

   Latitude: 41 20'29.7" Longitude: 089 05'02.1"

Site Description

1. Setting: Suburban

2. Current Owner: Private - Industrial

3. Current Site Status: Inactive

4. Years of Operation: Inactive Site,from and to dates: 1858-1978

5. How Initially Identified: State/Local Program

6. Entity Responsible for Waste Generation:

   - Manufacturing
     - Primary Metal Industries
   - Mining
     - Coal

7. Site Activities/Waste Deposition:

   - Waste Piles

Waste Description

8. Wastes Deposited or Detected Onsite:

- Organic Chemicals
- Pesticides/Herbicides
- Metals
- Smelting Waste
- Lead

Response Actions

9. Response/Removal Actions:

RCRA Information

10. For All Active Facilities, RCRA Site Status:

- Not Applicable

Demographic Information

11. Workers Present Onsite: Yes

12. Distance to Nearest Non-Worker Individual: > 10 Feet - 1/4 Mile

13. Residential Population Within 1 Mile: 9881.0

14. Residential Population Within 4 Miles: 26941.0

Water Use Information

15. Local Drinking Water Supply Source:

- Ground Water (within 4 mile distance limit)

16. Total Population Served by Local Drinking Water Supply Source: 26893.0

17. Drinking Water Supply System Type for Local Drinking

Water Supply Sources:

- Municipal (Services over 25 People)
- Private

18. Surface Water Adjacent to/Draining Site:

- Stream
- Wetland
- Pond

HRS DOCUMENTATION RECORD
Matthiessen and Hegeler Zinc Company - 09/16/94

1. Site Name: Matthiessen and Hegeler Zinc Company
   (as entered in CERCLIS)

2. Site CERCLIS Number: ILO 000064782

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5. Site Location: La Salle, La Salle, Illinois
   (City/County,State)

6. Congressional District: IL-14

7. Site Coordinates: Single

   Latitude: 41 20'29.7" Longitude: 089 05'02.1"

	Score
Ground Water Migration Pathway Score (Sgw)	42.34
Surface Water Migration Pathway Score (Ssw)	100.00
Soil Exposure Pathway Score (Ss)	100.00
Air Migration Pathway Score (Sa)	11.25

Site Score	74.03

NOTE

EPA uses the terms "facility," "site," and "release" interchangeably. The term "facility" is broadly defined in CERCLA to include any area where hazardous substances have "come to be located" (CERCLA Section 109(9)), and the listing process is not intended to define or reflect boundaries of such facilities or releases. Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Slag & waste piles

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Slag & waste piles	
b. Source Type	Waste Pile	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	363820.00
e. Source Volume/Area Value	2.80E+04	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	2.80E+04	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Arsenic	< 2	NO	1.1E+02	ppm
Barium	< 2	NO	4.1E+02	ppm
Benzo(j,k)fluorene	< 2	NO	9.6E-02	ppm
Beryllium	< 2	NO	1.2E+01	ppm
Cadmium	< 2	NO	1.8E+02	ppm
Chromium	< 2	NO	4.3E+01	ppm
Cobalt	< 2	NO	4.6E+01	ppm
Copper	< 2	NO	4.3E+03	ppm
DDD	< 2	NO	5.0E-03	ppm
DDE	< 2	NO	7.0E-03	ppm
DDT	< 2	NO	1.4E-02	ppm
Endrin	< 2	NO	1.4E-02	ppm
Hexachlorobenzene	< 2	NO	7.3E+00	ppm
Lead	< 2	NO	1.4E+03	ppm
Manganese	< 2	NO	5.4E+03	ppm
Mercury	< 2	NO	2.1E+00	ppm
Methylene chloride	< 2	NO	1.0E-01	ppm
Nickel	< 2	NO	1.2E+02	ppm
PCBs	< 2	NO	2.2E-01	ppm
Pentachlorobenzene	< 2	NO	3.6E-01	ppm
Phenanthrene	< 2	NO	8.3E-02	ppm

Pyrene	< 2	NO	9.9E-02	ppm
Selenium	< 2	NO	2.7E+01	ppm
Silver	< 2	NO	1.8E+01	ppm
Toxaphene	< 2	NO	2.2E-01	ppm
Vanadium	< 2	NO	1.1E+02	ppm
Zinc	< 2	NO	4.2E+04	ppm

Documentation for Source Type:

Observations made during the November, 1991 Screening Site Inspection of Carus Chemical Company and the December, 1993 Screening Site Inspection of Matthiessen and Hegeler Zinc Company by the Illinois EPA.

Reference: 3

Documentation for Secondary Source Type:

Reference: 3

Documentation for Source Hazardous Substances:

See analytical data from November, 1993 SSI of the Matthiessen and Heheler Zinc Company site conducted by the Illinois EPA.

Reference: 3

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

Documentation for Source Area:

Area approximated by measuring waste piles from aerial photographs obtained from the Illinois Department of Transportation.

Scale: 1 inch equals 200 feet. Area of pile was calculated with a planimeter and estimated to be approximately 363,820 square feet.

Reference: 6,17

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Contaminated soil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Contaminated soil	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	6286311.00
e. Source Volume/Area Value	1.85E+02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.85E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Acetone	< 2	NO	2.5E-02	ppm
Aldrin	< 2	NO	3.6E-02	ppm
Arsenic	< 2	NO	9.5E+01	ppm
Barium	< 2	NO	3.5E+02	ppm
Benz(a)anthracene	< 2	NO	2.1E+00	ppm
Benzo(a)pyrene	< 2	NO	1.2E+00	ppm
Benzo(j,k)fluorene	< 2	NO	3.9E+00	ppm
Benzofluoranthene, 3,4-	< 2	NO	2.9E+00	ppm
Beryllium	< 2	NO	1.4E+00	ppm
Cadmium	< 2	NO	1.3E+03	ppm
Chromium	< 2	NO	6.9E+01	ppm
Chrysene	< 2	NO	2.4E+00	ppm
Cobalt	< 2	NO	9.5E+01	ppm
Copper	< 2	NO	3.6E+03	ppm
Dibenzofuran	< 2	NO	1.5E+00	ppm
Endrin	< 2	NO	7.6E-02	ppm
Lead	< 2	NO	4.3E+03	ppm
Mercury	< 2	NO	8.6E+01	ppm
Methyl Napthalene, 2-	< 2	NO	3.4E+00	ppm
Methylene chloride	< 2	NO	1.3E-01	ppm
Naphthalene	< 2	NO	1.5E+00	ppm

Nickel	< 2	NO	2.5E+03	ppm
PCBs	< 2	NO	2.2E+00	ppm
Pentachlorophenol	< 2	NO	3.6E+01	ppm
Phenanthrene	< 2	NO	5.4E+00	ppm
Pyrene	< 2	NO	4.0E+00	ppm
Silver	< 2	NO	2.8E+01	ppm
Zinc	< 2	NO	7.1E+04	ppm

Documentation for Source Type:

Reference: 3

Documentation for Secondary Source Type:

Reference: 3

Documentation for Source Hazardous Substances:

Sample concentrations based on the analytical results from samples collected during the December, 1993 Screening Site Inspection of the Matthiessen and Hegeler site.

Reference: 3

Documentation for Source Area:

Source area was calculated with a planimeter from an aerial photo with a map scale of 1 inch = 200 feet.

Reference: 6,17

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Cont. res. soil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID	Cont. res. soil	
b. Source Type	Contaminated Soil	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	6419491.00
e. Source Volume/Area Value	1.89E+02	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	1.89E+02	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Aluminum	< 2	NO	2.0E+04	ppm
Arsenic	< 2	NO	2.6E+01	ppm
Barium	< 2	NO	3.0E+02	ppm
Beryllium	< 2	NO	1.8E+00	ppm
Cadmium	< 2	NO	1.1E+02	ppm
Chromium	< 2	NO	3.3E+01	ppm
Copper	< 2	NO	1.5E+02	ppm
Lead	< 2	NO	1.0E+03	ppm
Manganese	< 2	NO	4.3E+03	ppm
Mercury	< 2	NO	4.5E-01	ppm
Selenium	< 2	NO	2.2E+00	ppm
Silver	< 2	NO	3.0E+00	ppm
Vanadium	< 2	NO	4.6E+01	ppm
Zinc	< 2	NO	1.4E+04	ppm

Documentation for Source Type:

Samples collected in residential and school yards were contaminated with heavy metals.

Reference: 3

Documentation for Secondary Source Type:

No secondary sources noted.

Reference: 7

Documentation for Source Hazardous Substances:

Analytical results from soil collected at a depth of 0 to 1 inch during the site inspection of 12-14 & 15, 1993.

Reference: 3

Documentation for Source Area:

Area calculated with a planimeter from an aerial photo taken on 4-16-88.

Reference: 6,17

WASTE QUANTITY

Matthiessen and Hegeler Zinc Company - 09/16/94

1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE:

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs.)	0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs.)	0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a. Source ID		
b. Source Type	Drums	
c. Secondary Source Type	N.A.	
d. Source Vol.(yd3/gal) | Source Area (ft2)	0.00	0.00
e. Source Volume/Area Value	0.00E+00	
f. Source Hazardous Constituent Quantity (HCQ) Value (sum of 1b)	0.00E+00	
g. Data Complete?	NO	
h. Source Hazardous Wastestream Quantity (WSQ) Value (sum of 1f)	0.00E+00	
i. Data Complete?	NO	
k. Source Hazardous Waste Quantity (HWQ) Value (2e, 2f, or 2h)	0.00E+00	

3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No.	Source ID	Migration Pathways	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1	Slag & waste piles	GW-SW-SE-A	2.80E+04	0.00E+00	2.80E+04
2	Contaminated soil	GW-SW-SE-A	1.85E+02	0.00E+00	1.85E+02
3	Cont. res. soil	GW-SW-SE-A	1.89E+02	0.00E+00	1.89E+02
4			0.00E+00	0.00E+00	0.00E+00

4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Values		HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	2.00E+03	10000	56
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10000	100
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+08	10000	1000
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+08	10000	1000
SW: GW to SW, DW	Tox./Persistence	2.00E+03	10000	56
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+07	10000	560
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+06	10000	320
Soil Exposure:Resident	Toxicity	1.00E+04	10000	100
Soil Exposure: Nearby	Toxicity	1.00E+04	10000	100
Air	Toxicity/Mobility	2.00E+00	10000	10

* Hazardous Waste Quantity Factor Values
** Waste Characteristics Factor Category Values

Note: SW = Surface Water
GW = Ground Water
DW = Drinking Water Threat
HFC = Human Food Chain Threat
Env = Environmental Threat

GROUND WATER MIGRATION PATHWAY SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer: Deep bedrock		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	1
2c. Depth to Aquifer	5	1
2d. Travel Time	35	5
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	70
3. Likelihood of Release	550	70
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+03
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	56
Targets		
7. Nearest Well	50	3.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	3.48E+02
8d. Population (lines 8a+8b+8c)	**	3.48E+02
9. Resources	5	5.00E+00
10. Wellhead Protection Area	20	5.00E+00
11. Targets (lines 7+8d+9+10)	**	3.61E+02
12. Targets (including overlaying aquifers)	**	8.91E+02
13. Aquifer Score	100	42.34
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	42.34

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	550
2. Potential to Release by Overland Flow		
2a. Containment	10	10
2b. Runoff	25	1
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)]	500	260
3. Potential to Release by Flood		
3a. Containment (Flood)	10	10
3b. Flood Frequency	50	7
3c. Potential to Release by Flood (lines 3a x 3b)	500	70
4. Potential to Release (lines 2d+3c)	500	330
5. Likelihood of Release	550	550
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10000
8. Waste Characteristics	100	100
Targets		
9. Nearest Intake	50	0.00E+00
10. Population		
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	**	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources	5	5.00E+00
12. Targets (lines 9+10d+11)	**	5.00E+00
13. DRINKING WATER THREAT SCORE	100	3.33

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation	*	5.00E+08
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	1000	1000
Targets		
18. Food Chain Individual	50	4.50E+01
19. Population		
19a. Level I Concentrations	**	0.00E+00
19b. Level II Concentrations	**	3.00E-02
19c. Pot. Human Food Chain Contamination	**	3.00E-07
19d. Population (lines 19a+19b+19c)	**	3.00E-02
20. Targets (lines 18+19d)	**	4.50E+01
21. HUMAN FOOD CHAIN THREAT SCORE	100	100.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	550
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc.	*	5.00E+08
24. Hazardous Waste Quantity	*	10000
25. Waste Characteristics	1000	1000
Targets		
26. Sensitive Environments		
26a. Level I Concentrations	**	0.00E+00
26b. Level II Concentrations	**	2.50E+01
26c. Potential Contamination	**	0.00E+00
26d. Sensitive Environments (lines 26a+26b+26c)	**	2.50E+01
27. Targets (line 26d)	**	2.50E+01
28. ENVIRONMENTAL THREAT SCORE	60	60.00
29. WATERSHED SCORE	100	100.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	100.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer: sand & gravel		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	1
2c. Depth to Aquifer	5	5
2d. Travel Time	35	5
2e. Potential to Release [lines 2a(2b+2c+2d)]	500	110
3. Likelihood of Release	550	110
Waste Characteristics		
4. Toxicity/Mobility/Persistence	*	2.00E+03
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	56
Targets		
7. Nearest Intake	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	5.00E+00
10. Targets (lines 7+8d+9)	**	5.00E+00
11. DRINKING WATER THREAT SCORE	100	0.37

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550	110
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc.	*	1.00E+07
14. Hazardous Waste Quantity	*	10000
15. Waste Characteristics	1000	560
Targets		
16. Food Chain Individual	50	0.00E+00
17. Population		
17a. Level I Concentrations	**	0.00E+00
17b. Level II Concentrations	**	0.00E+00
17c. Pot. Human Food Chain Contamination	**	0.00E+00
17d. Population (lines 17a+17b+17c)	**	0.00E+00
18. Targets (lines 16+17d)	**	0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550	110
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc.	*	1.00E+06
22. Hazardous Waste Quantity	*	10000
23. Waste Characteristics	1000	320
Targets		
24. Sensitive Environments		
24a. Level I Concentrations	**	0.00E+00
24b. Level II Concentrations	**	0.00E+00
24c. Potential Contamination	**	0.00E+00
24d. Sensitive Environments (lines 24a+24b+24c)	**	0.00E+00
25. Targets (line 24d)	**	0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.37
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.37

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

SOIL EXPOSURE PATHWAY SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550	550
Waste Characteristics		
2. Toxicity	*	1.00E+04
3. Hazardous Waste Quantity	*	10000
4. Waste Characteristics	100	100
Targets		
5. Resident Individual	50	5.00E+01
6. Resident Population		
6a. Level I Concentrations	**	1.19E+03
6b. Level II Concentrations	**	1.34E+03
6c. Resident Population (lines 6a+6b)	**	2.53E+03
7. Workers	15	1.00E+01
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments	***	0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	2.59E+03
11. RESIDENT POPULATION THREAT SCORE	**	1.43E+08

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.

SOIL EXPOSURE PATHWAY SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility	100	2.50E+01
13. Area of Contamination	100	1.00E+02
14. Likelihood of Exposure	500	2.50E+02
Waste Characteristics		
15. Toxicity	*	1.00E+04
16. Hazardous Waste Quantity	*	10000
17. Waste Characteristics	100	100
Targets		
18. Nearby Individual	1	0.00E+00
19. Population Within 1 Mile	**	1.40E+01
20. Targets (lines 18+19)	**	1.40E+01
21. NEARBY POPULATION THREAT SCORE	**	3.50E+05
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	100.00

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.

AIR PATHWAY SCORESHEET
Matthiessen and Hegeler Zinc Company - 09/16/94

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release		
2a. Gas Potential to Release	500	0
2b. Particulate Potential to Release	500	340
2c. Potential to Release	500	340
3. Likelihood of Release	550	340
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+00
5. Hazardous Waste Quantity	*	10000
6. Waste Characteristics	100	10
Targets		
7. Nearest Individual	50	2.00E+01
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	2.45E+02
8d. Population (lines 8a+8b+8c)	**	2.45E+02
9. Resources	5	5.00E+00
10. Sensitive Environments		
10a. Actual Contamination	***	0.00E+00
10b. Potential Contamination	***	3.00E+00
10c. Sens. Environments(lines 10a+10b)	***	3.00E+00
11. Targets (lines 7+8d+9+10c)	**	2.73E+02
AIR MIGRATION PATHWAY SCORE (Sa)	100	1.13E+01

* Maximum value applies to waste characteristics category.
** Maximum value not applicable.
*** No specific maximum value applies, see HRS for details.