June 25, 1982

DOCUMENTATION RECORDS
FOR
HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: [illegible] / TARAMOOR

LOCATION: _____

EPA Region 5 Records Ctr.
257711

GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum): Lead

Ref. 2

Rationale for attributing the contaminants to the facility: Samples collected by IEPA personnel 11/16/82. Downgradient well (G 104) showed lead level exceeding upgradient well (G 101). Lead levels were: G 101 < 0.015, G 104 0.06 (all results in ppm)

* * *

2 ROUTE CHARACTERISTICS

N/A

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

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

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

Net Precipitation

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

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

Net precipitation (subtract the above figures):

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

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

* * *

3 CONTAINMENT N/A

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated: lead

Compound with highest score: lead

Ref. 1 persistence 3
toxicity 3

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum): pile is estimated at 3 acres by 30 feet deep. 1 acre = 4840 sq yds. 30' = 10 yds

4840 x 10 x 3 = 145,200 cu yds

Basis of estimating and/or computing waste quantity:

Ref. 3 Aug 16, 1982 memo from Tom Bierma to Dan Goodwin re. Teracorp

* * *

5 TARGETS

Ground Water Use

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

Industrial usage by Granite City Steel, Nestle Company and Archer Daniels Midland pumping respectively, 3.6, 0.78 and 0.11 million gallons/day

Distance to Nearest Well

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

see note attached to back of score sheets.

Distance to above well or building:

same as above

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

same as above

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

N/A

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

see note referenced above

SURFACE WATER ROUTE

1 OBSERVED RELEASE

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

none

Rationale for attributing the contaminants to the facility:

N/A

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2 ROUTE CHARACTERISTICS

Ref. 4

Facility Slope and Intervening Terrain

Average slope of facility in percent: Change in elevation = 10'
distance over which change occurs = 1500'

10/1500 = .007 = 0.7%

Name/description of nearest downslope surface water:

Mississippi River (Chain of Rocks Canal) approximately 6000' northwest of facility

Average slope of terrain between facility and above-cited surface water body in percent: Change in elevation = 420 - 398 = 22'

22'/6000 = .004 = 0.4%

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

no

Is the facility completely surrounded by areas of higher elevation?

no

1-Year 24-Hour Rainfall in Inches 3 inches

Ref. 5

Distance to Nearest Downslope Surface Water

According to p. 6 6000' to Canal (part of Mississippi)
>5280' (or 1 mile)
Scores a (1) not a (3)

Physical State of Waste - Materials in the pile consist of both powder (fine material) and unconsolidated solids.
- Materials are primarily slag, dusts and battery casings

Ref 6

* * * Fine material or powder
Scores a (2) not (3)

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

Compound with highest score:

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

Basis of estimating and/or computing waste quantity:

* * *

5 TARGETS

Surface Water Use

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

Is there tidal influence?

Distance to a Sensitive Environment

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

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

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

Population Served by Surface Water

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

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

Total population served:

Name/description of nearest of above water bodies:

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

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

Date and location of detection of contaminants

Methods used to detect the contaminants:

Rationale for attributing the contaminants to the site:

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2 WASTE CHARACTERISTICS

<u>Reactivity and Incompatibility</u>

Most reactive compound:

Most incompatible pair of compounds:

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

Basis of estimating and/or computing waste quantity:

* * *

3 TARGETS

Population Within 4-Mile Radius

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

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

Distance to a Sensitive Environment

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

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

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

Land Use

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

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

Distance to residential area, if 2 miles or less:

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

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

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