MI-0121-04
R05-8303-03C
FRD
03/04/86

FIELD INVESTIGATION TEAM

SITE SAFETY PLAN

US EPA RECORDS CENTER REGION 5
471595

## A. GENERAL INFORMATION

SITE: Albion-Sheridan Twp Landfill TDD NO: R05-8303-03C

WSTS NO: MI0121

LOCATION: 13355 29 Mile Road Albion, MI 49224

PLAN PREPARED BY: Suzanne Kozlowski DATE: 2-13-86

APPROVED BY: [signature] DATE: 3-4-86

OBJECTIVE (including description of work to be performed): perform site inspection. No sampling will be done.

PROPOSED DATE OF INVESTIGATION: March 11, 1986

BACKGROUND REVIEW: Complete: ____ Preliminary: ✓

DOCUMENTATION SUMMARY: OVERALL HAZARD: Serious: ____ Moderate: ____ Low: ✓ Unknown: ____

## B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid ____ Solid ✓ Sludge ✓ Gas ____

CHARACTERISTIC(S): Corrosive ____ Ignitable ____ Radioactive ____ Volatile ____ Toxic ✓ Reactive ____ Unknown ____ Other (Name) Persistent

FACILITY DESCRIPTION: Site is a closed capped landfill. Site accepted general refuse and industrial wastes. Some sludges were accepted. Site operated from 1969-1980

Principal Disposal Method (type and location): landfill (20 acres)

Unusual Features (dike intergrity, power lines, terrain, etc.): none - located in rural wetland area.

Status: (active, inactive, unknown) years of operation: 1969-1980

PO-1510-IN

History: (Worker or non-worker injury; complaints from public; previous agency action): Site accepted general refuse and industrial wastes. In 1980, the site was closed but is used as a transfer station currently.

## C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.): Nickel, lead, chlorides, nitrates, cyanides.

Land may be marshy. Use caution in walking.

## D. SITE SAFETY WORK PLAN

PERIMETER ESTABLISHMENT: Map/Sketch Attached Yes Site Secured? unknown

Perimeter Identified? Yes Zone(s) of Contamination Identified? No

Assume entire site to be contaminated.

PERSONAL PROTECTION

Level of Protection: A ___ B ___ C ___ D X

Modifications: If HNu reads 1-5 ppm > BKG upgrade to level C

Surveillance Equipment and Materials:

| | Action level | | |
|---|---|---|---|
| Rad-Mini | anything > Bkg | ⟹ | Leave site & contact RSC |
| Draeger Tubes | any color change | ⟹ | Leave site & contact RSC |

| HNu | Level | Action | |
|---|---|---|---|
| | D | 0 ppm > BKG | |
| | C | 1-5 ppm > BKG | |
| | B | 6-500 ppm > BKG | Leave site, contact RSC |
| | A | > 500 ppm > BKG | Leave site, contact RSC |

2/83



* O2 METER & EXPLOSIMETER NOT NEEDED FOR SITE, BASED ON HISTORY.

**DECONTAMINATION PROCEDURES:** All suspect contaminated clothing and equipment will be washed and rinsed with Alconox. All wash and rinse water will be left on site. Prior permission will be obtained

**Special Equipment, Facilities, or Procedures:** None

**SITE ENTRY PROCEDURES:** The site owner will be contacted to gain entry permission and procedures. All company safety procedures will be followed, AT A MINIMUM.

| Team Member | Responsibility |
|---|---|
| Suzanne Kozlowski | Team Leader |
| Jane Anderson | Site Safety Officer |

**WORK LIMITATIONS (Time of day, etc.):** Work daylight hours. Monitor for cold stress if necessary.

**INVESTIGATION-DERIVED MATERIAL DISPOSAL:** All investigation derived material will be double bagged, labeled potentially hazardous and left on site. Prior permission will be obtained.

## E. EMERGENCY INFORMATION*

### LOCAL RESOURCES

Ambulance (517) 629-9431 Albion Area Ambulance Service
Hospital Emergency Room (517) 629-2191 Albion Community Hospital
Poison Control Center
Police (517) 629-3933
Fire Department Albion (517) 629-3921
Airport American - 1-800-433-7300 W. K. Kellogg Airport Battle Creek
Explosives Unit NA
EPA Contact Don Josif USEPA Region V (312) 886-0393

### SITE RESOURCES

Water Supply to be determined prior to site entry
Telephone to be determined prior to site entry
Radio NA
Other NA

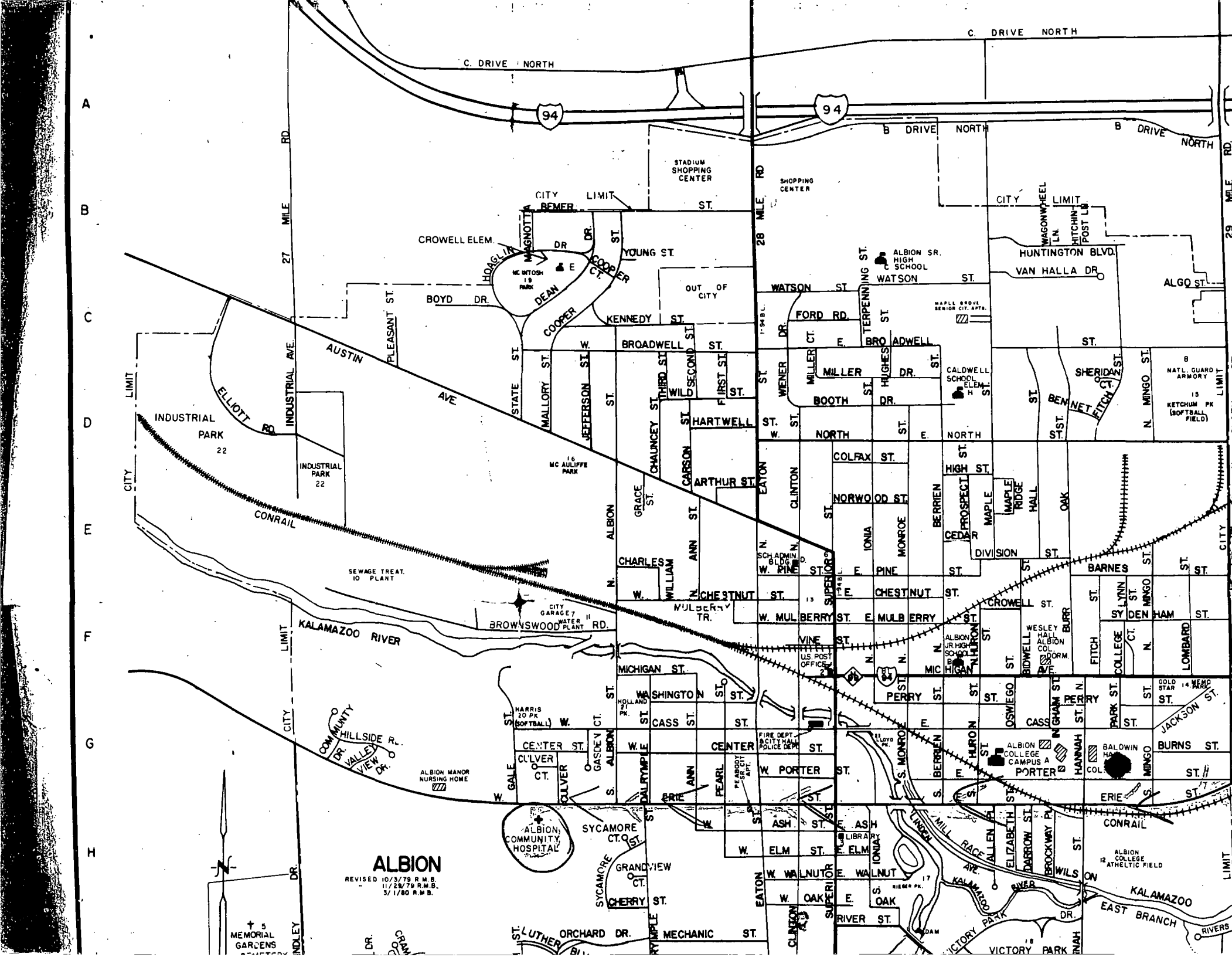
### EMERGENCY CONTACTS

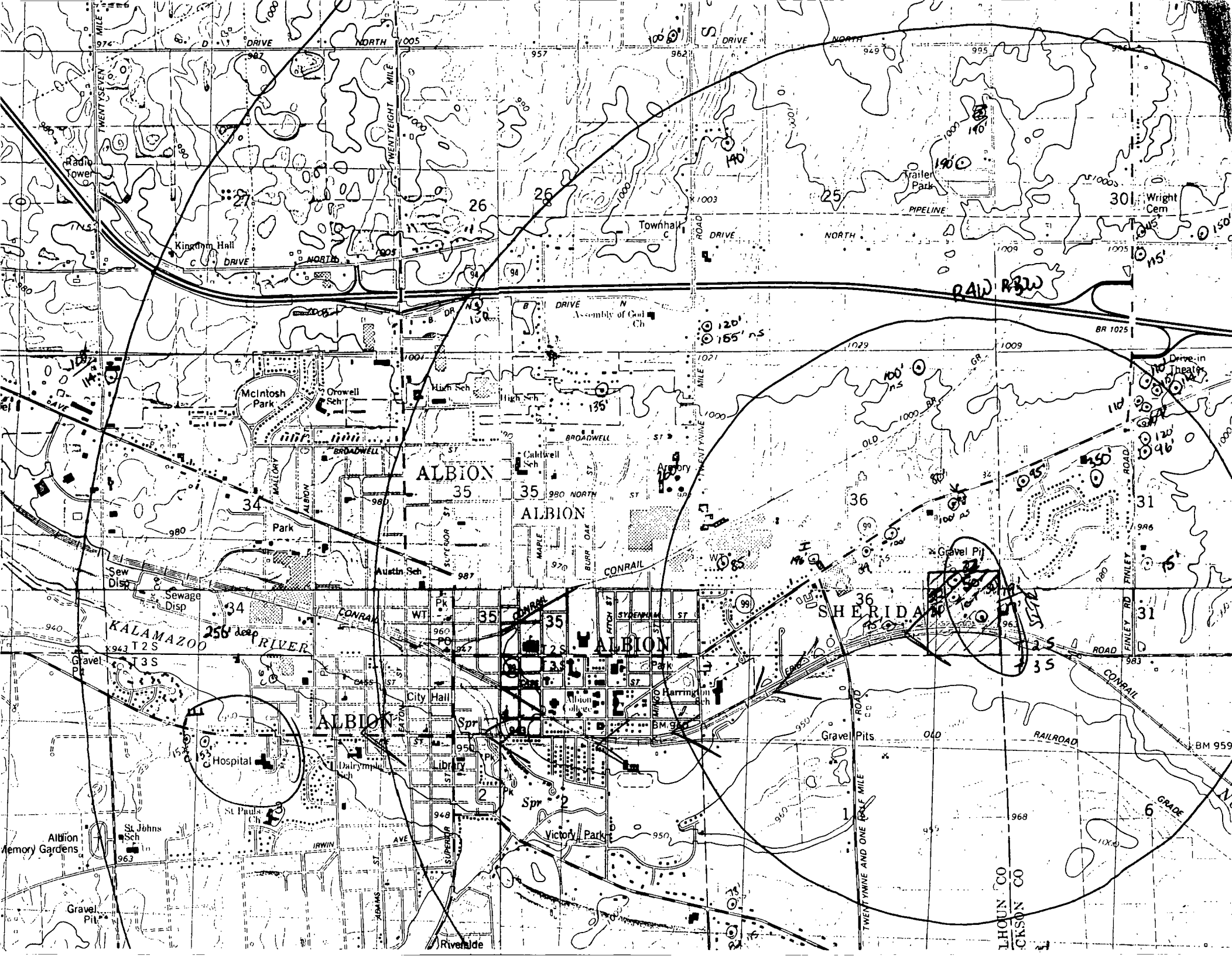
1. Mr. Raymond Harbison (University of Arkansas) ..... (501) 661-5766 or 661-5767
   MED-TOX ..... (501) 370-8263 (24 hours)
2. Regional Safety Coordinator - Paul Moss (541-6635) ..... (312) (24 hours)
3. Regional Project Manager - Rene Van Someren ..... (312) 763-7335
4. FIT Office ..... (312) 663-9415
5. E & E 24 Hour Call Line ..... (716) 631-9530 (24 Hours; Cal Forwarding)
6. Regional Health Maintenance Program Contact ..... PMI - (312) 832-8820
   8:00 a.m. - 5:00 p.m.
7. Dave Dahlstrom ..... (716) 741-2384 (home)
   Corporate Safety Director (716) 632-4491 (office)
8. Ecology and Environment, Inc. NPMO ..... (703) 522-6065

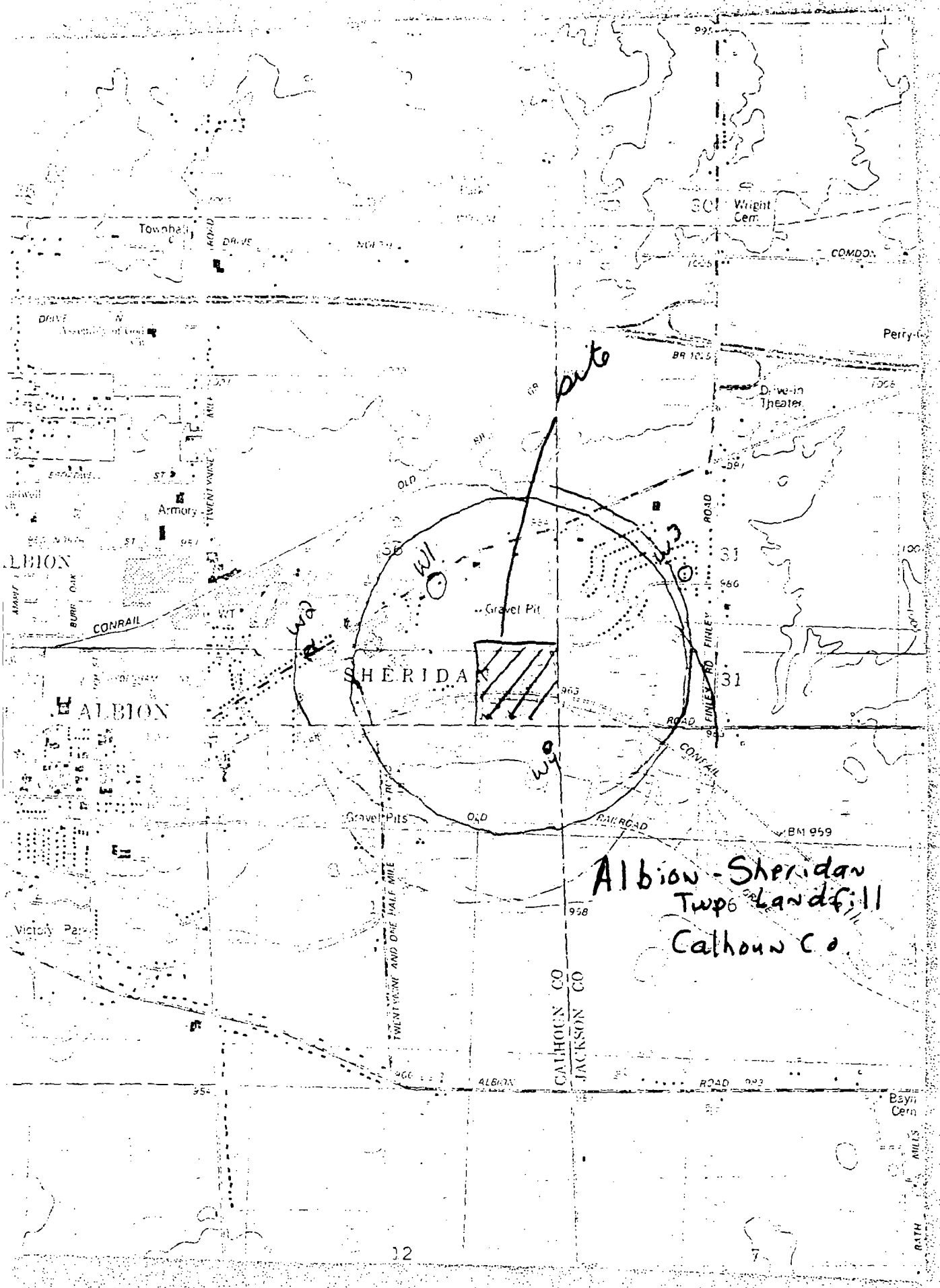
## F. EMERGENCY ROUTES

(Give road or other directions; attach map)

Hospital: Albion Community Hospital 809 W. Erie St (517) 629-2191
From site go west (right) on Erie St to hospital. Distance is about 2½ miles. Hospital is on south side of Erie street.


ALBION
REVISED 10/3/79 R.M.B.
11/29/79 R.M.B.
3/1/80 R.M.B.
C. DRIVE NORTH
B DRIVE NORTH
94
27 MILE RD.
28 MILE RD.
29 MILE RD.
CITY LIMIT
STADIUM SHOPPING CENTER
SHOPPING CENTER
CROWELL ELEM.
MC INTOSH PARK
HOAGLIN
MAGNOTTA
DR.
COOPER
DEAN
YOUNG ST.
OUT OF CITY
BOYD DR.
KENNEDY ST.
BROADWELL ST.
AUSTIN AVE
PLEASANT ST.
ELLIOTT RD.
INDUSTRIAL AVE.
INDUSTRIAL PARK 22
INDUSTRIAL PARK 22
MC AULIFFE PARK
STATE ST.
MALLORY ST.
JEFFERSON ST.
THIRD ST.
SECOND ST.
FIRST ST.
WILD ST.
HARTWELL ST.
CHAUNCEY ST.
CARSON ST.
ARTHUR ST.
GRACE ST.
ALBION
CONRAIL
SEWAGE TREAT. PLANT
CITY GARAGE & WATER PLANT
BROWNSWOOD RD.
KALAMAZOO RIVER
CHARLES ST.
WILLIAM ST.
ANN ST.
CHESTNUT ST.
MULBERRY TR.
W. MULBERRY ST.
E. MULBERRY ST.
VINE ST.
MICHIGAN ST.
WASHINGTON ST.
HOLLAND PK.
HARRIS PK (SOFTBALL)
CASS ST.
CENTER ST.
CULVER CT.
GALE
GASCEW CT.
DALRYMPLE
PEARL
ERIE
PEABODY SR. CIT. APT.
W. PORTER ST.
ALBION MANOR NURSING HOME
COMMUNITY DR.
HILLSIDE RD.
VALLEY VIEW DR.
ALBION COMMUNITY HOSPITAL
SYCAMORE CT.
SYCAMORE
GRANDVIEW CT.
CHERRY ST.
W. ASH ST.
W. ELM ST.
W. WALNUT ST.
W. OAK ST.
RIVER ST.
ORCHARD DR.
MECHANIC ST.
MEMORIAL GARDENS CEMETERY
LINDLEY DR.
EATON
CLINTON
SUPERIOR
IONIA
MONROE
BERRIEN
HURON
N. SCH. ADMIN. BLDG.
W. PINE ST.
E. PINE ST.
E. CHESTNUT ST.
COLFAX ST.
NORWOOD ST.
CEDAR
DIVISION ST.
HIGH ST.
PROSPECT
MAPLE
MAPLE RIDGE
HALL
OAK
BARNES ST.
CROWELL ST.
SYDENHAM ST.
LYNN ST.
MINGO
LOMBARD
FITCH
COLLEGE CT.
BIDWELL ST.
BURR
WESLEY HALL ALBION COL. DORM.
ALBION JR. HIGH SCHOOL
U.S. POST OFFICE
FIRE DEPT. & CITY HALL POLICE DEPT.
ALBION COLLEGE CAMPUS A
PORTER
HANNAH
BALDWIN HALL COL.
PERRY ST.
OSWEGO
INGHAM ST.
PARK ST.
JACKSON ST.
BURNS ST.
GOLD STAR MEMO. PARK
LIBRARY
MILL RACE
LINCOLN AVE.
ALLEN
ELIZABETH
DARROW ST.
BROCKWAY PL.
WILSON ST.
ALBION COLLEGE ATHLETIC FIELD
KALAMAZOO RIVER
EAST BRANCH
RIVERS
VICTORY PARK DR.
VICTORY PARK
DAM
RIEMER PK.
WATSON ST.
FORD RD.
TERPENNING ST.
ALBION SR. HIGH SCHOOL
WAGONWHEEL LN.
HITCHING POST LN.
HUNTINGTON BLVD.
VAN HALLA DR.
ALGO ST.
MAPLE GROVE SENIOR CIT. APTS.
MILLER DR.
WIENER DR.
HUGHES ST.
CALDWELL SCHOOL ELEM.
BOOTH DR.
SHERIDAN CT.
BENNETT ST.
FITCH ST.
N. MINGO ST.
NATL. GUARD ARMORY
KETCHUM PK (SOFTBALL FIELD)
I-94 BL.


Radio Tower
Kingdom Hall
Townhall
Trailer Park
Wright Cem
Assembly of God Ch
Drive-in Theatre
McIntosh Park
Orowell Sch
High Sch
Caldwell Sch
Armory
ALBION
Park
Austin Sch
Sew Disp
Sewage Disp
KALAMAZOO RIVER
256' deep
Gravel Pit
City Hall
Hospital
Dalrymple Sch
Library
St Pauls Ch
St Johns Sch
Albion Memory Gardens
Riverside
Victory Park
Albion College
Harrington Sch
Gravel Pits
SHERIDAN
CONRAIL
RAILROAD
BR 1025
PIPELINE
TWENTYSEVEN MILE
TWENTYEIGHT MILE
TWENTYNINE AND ONE HALF MILE
TWENTYNINE MILE
BROADWELL
NORTH
DRIVE
SUPERIOR
MAPLE
BURR OAK
SYDENHAM
HITCH
MINER
CASS
EATON
IRWIN
ADAMS
FINLEY RD
ROAD
GRADE
OLD
CALHOUN CO
JACKSON CO


Wright Cem.
Townhall
COMDON
Perry
Drive-in Theater
Armory
ALBION
CONRAIL
Gravel Pit
SHERIDAN
ALBION
Gravel Pits
OLD RAILROAD
BM 959
Victory Park
TWENTY-NINE AND ONE HALF MILE
CALHOUN CO
JACKSON CO
ALBION ROAD
Bayn Cem
FINLEY RD
ROAD
31
32
7
site
w1
w2
w3
Albion - Sheridan Twp6 Landfill
Calhoun Co.

ecology and environment, inc.

HAZARD EVALUATION OF CHEMICALS

Chemical Name Lead Date 3-3-86

DOT Name — ID Number 05-8303-03C

CAS Number 7439-92-1

References Consulted (circle):
NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Duis (Vol. II)
Toxic and Hazardous Safety Manual ACGIH Other: Sax, RTECs, NIOSH

Chemical Properties: (Synonyms: Plumbum )
Chemical Formula Pb Molecular Weight 207 g/m
Physical State solid Solubility ($H_2O$) insoluble Boiling Point 1740°C
Flash Point NA Vapor Pressure/Density NA Freezing Point 327°C
Specific Gravity 11.34 Odor/Odor Threshold none Flammable Limits non-flammable
Incompatibilities strong oxidizers

Biological Properties:
TLV-TWA .15 mg/m³ dust and fumes PEL .05 mg/m³ org and inorganic
IDLH variable Human $TD_{Lo}$ 450 mg/kg Aquatic unk Rat/Mouse 1000 mg/kg
Route of Exposure inhalation, ingestion, contact
Carcinogen suspected Teratogen experiment Mutagen experiment

Handling Recommendations: (Personal protective measures)
provide adequate ventilation and dust control. Filter respirator if necessary

Disposal/Waste Treatment:
sort, classify, put in labeled container
salvage or sell as scrap metal

Health Hazards and First Aid:
skin/eyes - wash with water Inhale - no recognized first aid
Refer all suspect absorption or acute attacks to physician promptly

Symptoms: Acute: weakness, insomnia, anorexia, constipation, abdominal pain, tremor, wrist paralysis
Chronic: damage to gastrointestinal tract, CNS, kidneys, blood, gingival tissue

375103
(12/83, DLD)

ecology and environment, inc.

HAZARD EVALUATION OF CHEMICALS

Chemical Name Hydrogen cyanide Date 3-3-86

DOT Name HCN TDD Number 05-8303-03C

CAS Number 74-90-8

References Consulted (circle):

NIOSH/OSHA Pocket Guide Verschueren Merck Index Hazardline Chris (Vol. II)

Toxic and Hazardous Safety Manual ACGIH Others:

Chemical Properties: (Synonyms: Hydrocyanic acid, prussic acid)

Chemical Formula HCN Molecular Weight 27.03 g/m

Physical State gas/liquid Solubility ($H_2O$) — Boiling Point 26°C

Flash Point -18°C Vapor Pressure/Density .941 Freezing Point -14°C

Specific Gravity .69 Odor/Odor Threshold almond Flammable Limits 6-41%

Incompatibilities alkalis, heating

Biological Properties:

TLV-TWA 10 ppm PEL

IDLH 50 ppm Human NA Aquatic NA Rat/Mouse $LD_{50}$ 3700 mg/kg

Route of Exposure inhale, ingest, absorb

Carcinogen no Teratogen no Mutagen no

Handling Recommendations: (Personal protective measures)

rubber gloves, SCBA, apron or impervious clothing

Disposal/Waste Treatment:

seal cylinders and return to supplier

Health Hazards and First Aid:

contact-irrigate and wash well inhale-move to fresh air, wrap in blanket, $O_2$ if necessary

Symptoms: Acute: headache, vertigo, nausea, vomiting, unconsciousness palpitation

Chronic: paralysis, respiratory arrest, convulsions and death

375103

(12/83, DLD)

# HCN — HYDROGEN CYANIDE

**Common Synonyms**
Hydrocyanic acid
Prussic acid

Watery liquid, or gas — Colorless — Bitter almond odor

Sinks and mixes with water. Poisonous, flammable vapor is produced and rises. Boiling point is 78° F.

AVOID CONTACT WITH LIQUID AND VAPOR. EVACUATE AREA.
WEAR CHEMICAL PROTECTIVE SUIT WITH SELF-CONTAINED BREATHING APPARATUS.
Stop discharge if possible. Call fire department.
Shut off ignition sources.
Stay upwind and use water spray to "knock down" vapor.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

**Fire**

FLAMMABLE.
Flashback along vapor trail may occur.
Vapor may explode if ignited in an enclosed area.
WEAR CHEMICAL PROTECTIVE SUIT WITH SELF-CONTAINED BREATHING APPARATUS.
Stop discharge if possible.
Cool exposed containers and protect men effecting shutoff with water.
Let fire burn.

**Exposure**

CALL FOR MEDICAL AID.

VAPOR
POISONOUS IF INHALED OR IF SKIN IS EXPOSED.
Irritating to eyes.
Move to fresh air.
If breathing has stopped, give artificial respiration (but NOT mouth to mouth).
If breathing is difficult, give oxygen.

LIQUID
POISONOUS IF SWALLOWED OR IF SKIN IS EXPOSED.
Irritating to eyes.
Remove contaminated clothing and shoes.
Flush affected areas with plenty of water.
IF IN EYES, hold eyelids open and flush with plenty of water.
IF SWALLOWED and victim is CONSCIOUS, have victim drink water or milk and have victim induce vomiting.
IF SWALLOWED and victim is UNCONSCIOUS OR HAVING CONVULSIONS, do nothing except keep victim warm.

**Water Pollution**

HARMFUL TO AQUATIC LIFE IN VERY LOW CONCENTRATIONS.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

## 1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-4)

Issue warning—high flammability, water contaminant
Restrict access
Evacuate area

## 2. LABELS

## 3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Hydrocyanic acid, Prussic acid

3.2 **Coast Guard Compatibility Classification:** Not applicable

3.3 **Chemical Formula:** HCN

3.4 **IMCO/United Nations Numerical Designation:** 2.0/1051

## 4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid

4.2 **Color:** Colorless to bluish white

4.3 **Odor:** Characteristic sweetish, like almond

## 5. HEALTH HAZARDS

*CAUTION—Class A poison: asphyxiation can be caused by ingestion, inhalation, or absorption of liquid or vapor through skin (particularly eyes, mucous membranes, and feet).*

5.1 **Personal Protective Equipment:** Escape purposes only—air escape mask with 5-minute air cylinder. Work purposes—vapor-proof emergency suit or vinyl-coated coveralls, plus air mask with clear-view facepiece, speaking diaphragm, demand regulator, and 30-minute air cylinder. Rubber gloves, chemical safety goggles, quick-opening safety shower.

5.2 **Symptoms Following Exposure:** Irritation of throat, palpitation, difficult breathing, reddening of eyes, salivation, nausea, headache, weakness of arms and legs, giddiness—followed by collapse and convulsions.

5.3 **Treatment for Exposure:** Call a doctor. If breathing has stopped, give artificial respiration until doctor arrives. INHALATION: remove patient to fresh air. SKIN CONTACT: remove contaminated clothing and wash skin thoroughly with copious quantities of water and soap. EYE CONTACT: hold eyelids apart and wash eye with continuous gentle stream of water for at least 15 min.
If patient is unconscious, administer amyl nitrite by crushing a pearl (ampule) in a cloth and holding this under patient's nose for 15 seconds in every minute. Do not interrupt artificial respiration. Replace amyl nitrite pearl when its strength is spent. Continue treatment until patient's condition improves or doctor arrives.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 10 ppm

5.5 **Short-Term Inhalation Limits:** 20 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 4, $LD_{50}$ less than 50 mg/kg

(Continued on page 4)

## 6. FIRE HAZARDS

6.1 **Flash Point:** 0°F C.C.

6.2 **Flammable Limits in Air:** 5.6% - 40.0%

6.3 **Fire Extinguishing Agents:** Stop flow of gas

6.4 **Fire Extinguishing Agents Not to be Used:** None

6.5 **Special Hazards of Combustion Products:** Extremely toxic vapors are generated even at ordinary temperatures.

6.6 **Behavior in Fire:** Containers may explode with ignition of contents.

6.7 **Ignition Temperature:** 1004°F

6.8 **Electrical Hazard:** Data not available

6.9 **Burning Rate:** 1.8 mm/min.

## 7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** Dissolves with a moderate reaction

7.2 **Reactivity with Common Materials:** None

7.3 **Stability During Transport:** May become unstable and subject to explosion if stored for extended time or exposed to high temp. and pressure.

7.4 **Neutralizing Agents for Acids and Caustics:** The weak acidity can be neutralized by slaked lime, but this does not destroy the poisonous property.

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

## 8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 0.16 ppm/72 hr/young bass/$TL_m$/fresh water
0.069 ppm/24 hr/pin perch/$TL_m$/salt water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** Data not available

8.4 **Food Chain Concentration Potential:** None

## 9. SELECTED MANUFACTURERS

1. E. I. duPont de Nemours & Co., Inc.
   Electrochemicals Dept.
   Wilmington, Del. 19898
2. Monsanto Polymers & Petrochemicals Co
   800 North Lindbergh Blvd.
   St. Louis, Mo. 63166
3. Rohm and Haas Co.
   Independence Mall West
   Philadelphia, Pa. 19105

## 10. SHIPPING INFORMATION

10.1 **Grades or Purity:** 96%, sometimes shipped as a water solution, or absorbed on an inert solid. All forms are extremely toxic.

10.2 **Storage Temperature:** Data not available

10.3 **Inert Atmosphere:** May be padded

10.4 **Venting:** Data not available

## 11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-B-C-K-L-M-N

## 12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Poisonous gas or liquid, Class A

12.2 **NAS Hazard Rating for Bulk Water Transportation:**

| Category | Rating |
|---|---|
| Fire | 4 |
| Health | |
| Vapor Irritant | 2 |
| Liquid or Solid Irritant | 1 |
| Poisons | 4 |
| Water Pollution | |
| Human Toxicity | 4 |
| Aquatic Toxicity | 4 |
| Aesthetic Effect | 1 |
| Reactivity | |
| Other Chemicals | 3 |
| Water | 0 |
| Self-Reaction | 3 |

12.3 **NFPA Hazard Classifications:**

| Category | Classification |
|---|---|
| Health Hazard (Blue) | 4 |
| Flammability (Red) | 4 |
| Reactivity (Yellow) | 2 |

## 13. PHYSICAL AND CHEMICAL PROPERTIES

13.1 **Physical State at 15°C and 1 atm:** Liquid

13.2 **Molecular Weight:** 27.03

13.3 **Boiling Point at 1 atm:** 78.3°F = 25.7°C = 298.9°K

13.4 **Freezing Point:** 6.1°F = −13.3°C = 259.8°K

13.5 **Critical Temperature:** 362.3°F = 183.5°C = 456.7°K

13.6 **Critical Pressure:** 735 psia = 50 atm = 5.07 MN/m²

13.7 **Specific Gravity:** 0.689 at 20°C (liquid)

13.8 **Liquid Surface Tension:** Not pertinent

13.9 **Liquid-Water Interfacial Tension:** Not pertinent

13.10 **Vapor (Gas) Specific Gravity:** 0.9

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.303

13.12 **Latent Heat of Vaporization:** 444 Btu/lb = 247 cal/g = 10.3 × 10³ J/kg

13.13 **Heat of Combustion:** −10,560 Btu/lb = −5864 cal/g = −245.3 × 10³ J/kg

13.14 **Heat of Decomposition:** Not pertinent

13.15 **Heat of Solution:** Not pertinent

13.16 **Heat of Polymerization:** Not pertinent

(Continued on page 5 and 6)

## 5. HEALTH HAZARDS (Cont'd.)

5.7 **Late Toxicity:** Data not available

5.8 **Vapor (Gas) Irritant Characteristics:** Vapor is not very irritating but is extremely poisonous.

5.9 **Liquid or Solid Irritant Characteristics:** Liquid is not irritating but is extremely poisonous if absorbed through skin or eyes.

5.10 **Odor Threshold:** 1 mg/m³



CHRIS, VOL. II

## Medtox Hotline

1. Twenty-four hour answering service - (501) 370-8263

   What to Report:

   - State: "This is an emergency."
   - Your name, region, and site
   - Telephone number to reach you
   - Name of person injured or exposed
   - Nature of emergency
   - Action taken

2. One of three toxicologists (Drs. Raymond Harbison, Richard Freeman, or Robert James) will contact you. Repeat the information given to the answering service.

3. If a toxicologist does not return your call within 15 minutes, call the following persons in order until contact is made:

   E & E Corporate Headquarters (EST 0830-1700) - (716) 632-4491

   a. Twenty-four hour line - (716) 631-9530

   b. Corporate Safety Director - David Dahlstrom (home - (716) 741-2384

   c. Assistant Corporate Safety Officer - Steve Sherman (home (716) 688-0084)

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## Regional Office

Office Phone Number: (312) 663-9415

| | Name | Home |
|---|---|---|
| Team Leader | Rene' Van Someren | (312) 763-7335 |
| Regional Safety Coordinator | Paul Moss | (312) 541-6635 |

SITE DOSIMETER LOG

TDD# 05-8303-03C SITE NAME ALBION-SHERIDAN TWP. LANDFILL

SITE SAFETY OFFICER Jane Anderson WEEK OF 3-30-86

| NAME AND DOSIM. # | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

To the nearest half-hour, record time spent downrange as "S" (e.g., S: 2.5 hrs), time spent in active PDS operation as "P", and any time spent downrange in rescue activity as "R".

ECOLOGY & ENVIRONMENT, INC.
REGION V EQUIPMENT LIST

Team Leader: Suzanne Kozlowski
TDD Number: 05-8303-03C
Date of Departure: 3-10-86
Date of Expected Return: 3-14-86

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A. Safety Instruments (Please Circle)

| | | |
|---|---|---|
| X | Drager Pump | A B C D E F |
| | MSA 2A Explosimeter | A B C D E F G |
| | MSA 260 Combustible Gas/$O_2$ Alarm | A |
| X | HNU 101 | A B C D E F |
| X | Lamp Type: 10.2 or 11.7 | |
| | MSA 245 Oxygen Indicator | A B C D E F |
| | Organic Vapor Analyses (OVA) | A B C |
| X | Radiation - Mini | A B C D E F G |
| | Radiation - Survey Meter | A B C |
| | Rad - Tad | A B |
| | Radiation - Thyac III/Probe | A B C |
| | Dust Monitor - MDA System | A |
| | Monitox Hydrogen Cyanide Detector | A |

B. First Aid Equipment

| | | |
|---|---|---|
| X | First Aid Kit | 1 2 3 4 5 6 7 8 |
| | Eyewash Bottle | |
| | Oxygen Inhalator | A B C |
| | Blood Pressure Monitor | |
| 2 X | Radiation TLD Badges | |
| X | Safety Glasses | |
| | Lifevests | |
| X | Hard Hats | |
| | Face Shields | |
| | Ear Plugs | |

C. Respiratory Equipment

| | | |
|---|---|---|
| X | Ultratwin Respirator | Qty: 2 |
| | Racal Air-powered Respirator | Qty: |
| | MSA Air-powered Respirator | Qty: |
| | Robert Shaw Escape Mask | Qty: |
| | MSA SCBA | Qty: |
| | Extra Air Cylinders | Qty: |

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D. Respirator Cartridges

| | | |
|---|---|---|
| GMC-H | Qty: | 4 |
| GM-P | Qty: | ____ |
| HEPA | Qty: | ____ |
| Other _____ | Qty: | ____ |

E. Misc. Instrumentation

| | | |
|---|---|---|
| _____ | Airdrive Pump (Geofilter) | A |
| _____ | Canon AEL Camera | A B C |
| _____ | Conductivity Meter | A B C D |
| _____ | Level/Tripod and Rod | A B C |
| _____ | Masterflex Pump and Filter | A B |
| _____ | Metal Detector | A B C |
| _____ | pH Meter | A B C D |
| _____ | Polarid One-step Camera | A B C D |
| _____ | Resistivity Meter | A |
| _____ | Robair Pump System | A |
| _____ | Water-level Indicator | A B C |
| _____ | Magnetometer | A B |
| _____ | Air Sampling Pump Kits | A B C D E |
| _____ | Buck Calibrator | A |
| _____ | HNU 301 System | A |
| _____ | Thermal Desorber | A B |
| _____ | Meteorological (Weather) Station | A |
| _____ | Binoculars | |

F. Vehicles

| | | |
|---|---|---|
| _____ | Step Van | A B C |
| _____ | Cargo Van | A |
| _____ | Suburban | A B |

G. Protective Clothing

1) Outerware

| | | | | | |
|---|---|---|---|---|---|
| Splash Aprons | Qty: | ____ | Butyl Acid Suits | Qty: | ____ |
| Saranax | Qty: | ____ | Cold-weather Suits | Qty: | ____ |
| Tyvek | Qty: | 2 | Other _____ | Qty: | ____ |
| Coveralls | Qty: | ____ | Fully-encapsulated Suit | Qty: | ____ |

2) Gloves

| | | | | | |
|---|---|---|---|---|---|
| Latex Disposable | Qty: | X | Viton | Qty: | |
| Butyl Rubber | Qty: | | Winter Drilling | Qty: | |
| Nitrile | Qty: | | Other Glove Liners | Qty: | X |
| Neoprene | Qty: | X | | | |

3) Boots

| | | |
|---|---|---|
| Neoprene | Qty: | |
| Latex Disposable | Qty: | |
| Steel-toe | Qty: | |
| Cold-weather i.e., sorrel | Qty: | X |
| Other _____ | Qty: | |

H. Sample Bottles and Equipment

| | | |
|---|---|---|
| 80 oz. | Qty: | |
| 40 ml. | Qty: | |
| 1 liter | Qty: | |
| 120 ml. | Qty: | |
| 8 oz. | Qty: | |
| 32 oz. | Qty: | |
| Metal cans, clips, and lids | Qty: | |
| Bailers | Qty: | |

I. Preservatives

NaOH _____

$HN_3$ _____

$H_2SO_4$ _____

Other _____

J. Drager Tubes

| | | |
|---|---|---|
| Hydrogen Cyanide | Qty: | 1 pack |
| Sulfuric Acid | Qty: | |
| Natural Gas (Methane) | Qty: | |
| Arsenic Trioxide | Qty: | |
| Ammonia | Qty: | |
| Vinyl-chloride | Qty: | |
| Other _____ | Qty: | |

K. Decon Supplies

| | | |
|---|---|---|
| Wash Tubs | Qty: | 1 |
| Buckets | Qty: | |
| Scrub Brushes | Qty: | 1 |
| Pressurized Sprayer | Qty: | |
| Trash Bags | Qty: | 1 BOX |
| Tarps | Qty: | |
| Duct Tape | Qty: | X |
| Solvent | Type: | |
| Detergent | Type: | ALCONOX |
| MSA Sanitizing Solution | Qty: | 1 PACKET |

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PM:4X

ECOLOGY AND ENVIRONMENT, INC.
FIELD INVESTIGATION TEAM
ON-SITE SAFETY MEETING

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ATTENDEES

| Name (Printed) | Signature |
| --- | --- |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Meeting Conducted By:

| | |
| --- | --- |
| | |

Site Safety Officer:

| | |
| --- | --- |
| | |

Team Leader:

| | |
| --- | --- |
| | |

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ECOLOGY AND ENVIRONMENT, INC.
FIELD INVESTIGATION TEAM
ON-SITE SAFETY MEETING

Project _____

Date _____ Time _____ Job No. _____

Address _____

Specific Location _____

Type of Work _____

_____

_____

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment _____

_____

Chemical Hazards _____

_____

Physical Hazards _____

_____

Emergency Procedures _____

_____

Hospital/Clinic _____ Phone _____

Special Equipment _____

_____

Other _____

_____

# ON-SITE SAFETY LOG

ECOLOGY AND ENVIRONMENT, INC.
CHICAGO

A. ON-SITE MONITORING

| EQUIPMENT USED | BACKGROUND READING IN BREATHING ZONE | CALIBRATED AT | ON-SITE READING IN BREATHING ZONE |
|---|---|---|---|
| 1. HNu + CALIB GAS | | | |
| 2. Draeger tubes | | | |
| 3. Rad Mini | | | |
| 4. | | | |
| 5. | | | |

B. PROTECTIVE CLOTHING WORN: _____

C. SITE NAME: Albion-Sheridan Twp. Landfill PROJECT NUMBER: R05-8303-03C
DATE: _____
WEATHER CONDITIONS: _____
NAMES OF ATTENDEES AT SITE: _____

D. COMMENTS ON MONITORING OR PROTECTIVE CLOTHING _____

| | NAME | SIGNATURE |
|---|---|---|
| TEAM LEADER: | SUZANNE KOZLOWSKI | |
| SITE SAFETY OFFICER: | JANE ANDERSON | |

(P.D. Moss, 1/85)