IL-0327-04
ROJ-8410-01

ECOLOGY AND ENVIRONMENT, INC.

FIELD INVESTIGATION TEAM

SITE SAFETY PLAN

US EPA RECORDS CENTER REGION 5
953090
553897

A. GENERAL INFORMATION

SITE: SINCLAIR & VALENTINE CO. TDD NO: ROJ-8410-01

WSTS NO: IL0327

LOCATION: CHICAGO IL

PLAN PREPARED BY: SCOTT GREEN DATE: JULY 31, 1985

APPROVED BY: Paul D. Moss DATE: 8-5-85

OBJECTIVE (including description of work to be performed): PERFORM SITE INSPECTION - NO SAMPLES WILL BE TAKEN SINCE SITE IS RCRA PERMITTED

PROPOSED DATE OF INVESTIGATION: AUGUST 14, 1985

BACKGROUND REVIEW: Complete: ____ Preliminary: X

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

B. SITE/WASTE CHARACTERISTICS

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

CHARACTERISTIC(S): Corrosive ____ Ignitable X Radioactive ____ Volatile ____ Toxic ____ Reactive ____ Unknown ____ Other (Name) X SOLUBLE FLAMMABLE

FACILITY DESCRIPTION: MANUFACTURER OF PRINTING INKS AND ASSOCIATED COATINGS

Principal Disposal Method (type and location): D001 CLASS SOLVENTS IN DRUMS AND PORTABLE TANK STORAGE

Unusual Features (dike intergrity, power lines, terrain, etc.): DRUMS AND TANKS STORED OUTDOORS ON PALLETS.

Status: (active, inactive, unknown) RCRA PERMITTED

History: (Worker or non-worker injury; complaints from public; previous agency action): NONE EXCEPT IL-EPA INSPECTION AND PA.

C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.): CLASS D001 SOLVENTS CONTAINING TOLUENE N-PROPAL ALCOHOL, ETHYL ACETATE, ETHYL ALCOHOL, n-BUTANOL, BARIUM

D. SITE SAFETY WORK PLAN

PERIMETER ESTABLISHMENT: Map/Sketch Attached YES Site Secured? YES

Perimeter Identified? YES Zone(s) of Contamination Identified? NO

ASSUME ENTIRE AREA CONTAMINATED.

PERSONAL PROTECTION

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

Modifications: STORAGE OF DRUMS AND TANKS OUTDOORS SHOULD NOT REQUIRE REPIRATORY PROTECTION, BUT POSSIBLE UPGRADE TO LEVEL C IF HNU REGISTERS 1-5 PPM ABOVE BACKGROUND

Surveillance Equipment and Materials:

ACTION LEVELS: HNU - >5 PPM 1-5 PPM ABOVE BACKGROUND = ABANDON SITE; CONTACT RSC. = LEVEL C

0-1 PPM " " < LEVEL D

RAD-MINE: > BACKGROUND < ABANDON SITE; CONTACT RSC.

* OTHER SITE ENTRY EQUIPMENT NOT WARRANTED FOR THIS SITE.

DECONTAMINATION PROCEDURES: ALL SUSPECT CONTAMINATED CLOTHING & EQUIPMENT WILL BE WASHED & RINSED / DECONTAMINATED. ALL WASH & RINSE WATER WILL BE LEFT ON SITE.

Special Equipment, Facilities, or Procedures:

NONE

SITE ENTRY PROCEDURES: CONTACT OWNER / MANAGER / OPERATOR AND FOLLOW SITE SAFETY REQUIREMENTS. LOCATE ALL POSSIBLE EXITS. NO CONFINED BUILDINGS WILL BE ENTERED W/OUT CONSENT OF SITE SAFETY OFFICER OR/AND RSC

Team Member	Responsibility
ARLENE PRATT	TEAM LEADER
STEVE VEUANG	SAFETY COORDINATOR

WORK LIMITATIONS (Time of day, etc.): HEAT STRESS WILL BE MONITORED TRY TO WORK DURING DAYLIGHT HOURS ONLY

INVESTIGATION-DERIVED MATERIAL DISPOSAL: ALL INVESTIGATION-DERIVED MATERIAL WILL BE DOUBLE BAGGED, LABELED AS POTENTIALLY HAZARDOUS AND LEFT ON SITE

E. EMERGENCY INFORMATION*

LOCAL RESOURCES

Ambulance 911
Hospital Emergency Room Holy Cross Hospital - 471-8000
Poison Control Center 949-5969
Police 911
Fire Department 911
Airport MIDWAY airport
Explosives Unit N/A
EPA Contact Don Josif - 312-886-0393

SITE RESOURCES

Water Supply TO BE DETERMINED BEFORE SITE ENTRY
Telephone " " " " " "
Radio N/A
Other N/A

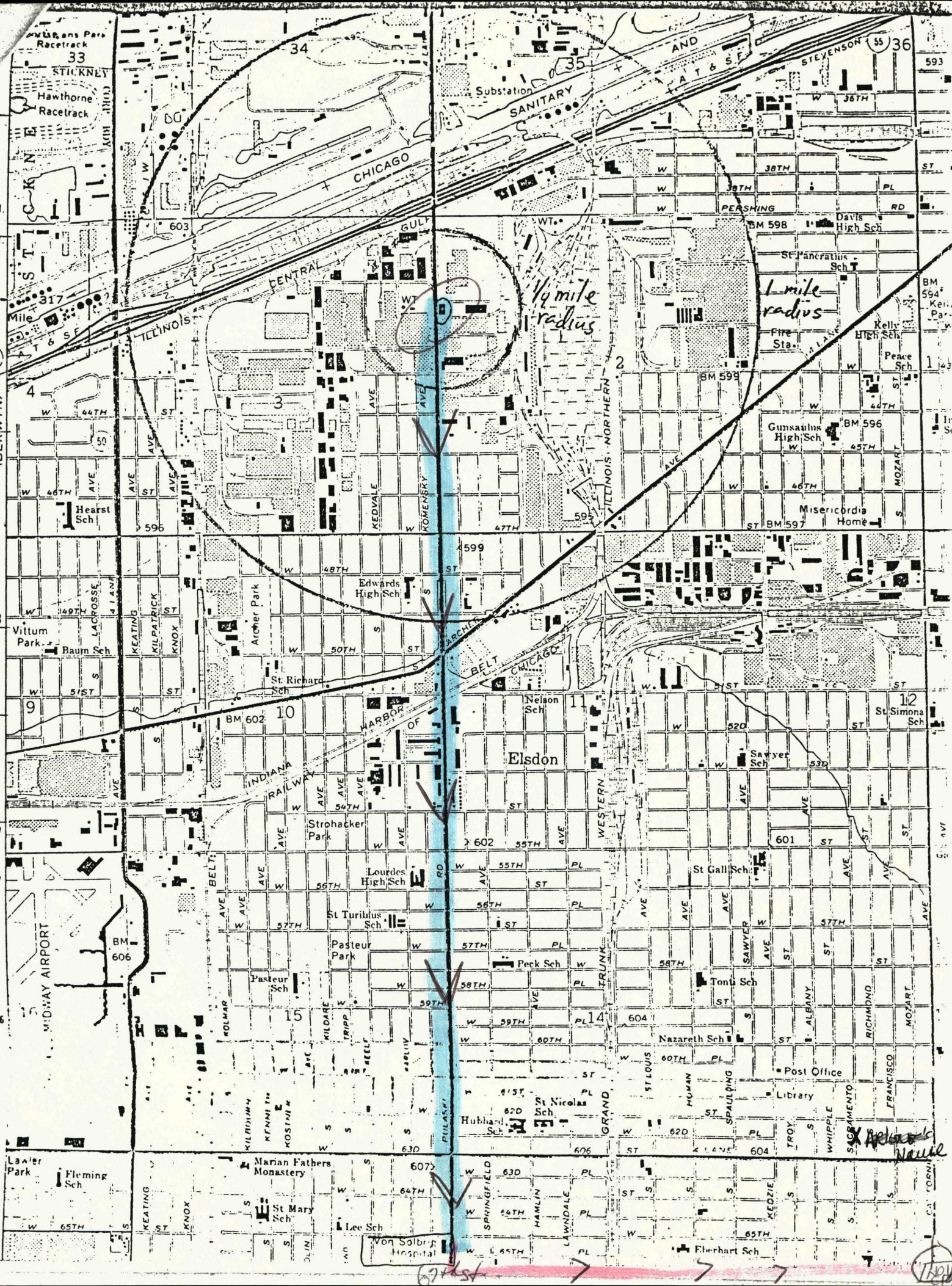
EMERGENCY CONTACTS

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 ..... (312) 358-9342 (24 hours)
3. FIT Leader - Joseph Petrilli ..... (312) 561-7639
4. FIT Office ..... (312) 663-9415
5. E & E 24 Hour Call Line ..... (716) 631-9530 (24 Hours; C Forwarding)
6. Regional Health Maintenance Program Contact ..... PMI - (312) 832-8820 8:00 a.m. - 5:00 p.m.
7. Dave Dahlstrom ..... Non-Responsive
   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: VON SOLBURG HOSPITAL - PULASKI SOUTH TO HOSPITAL OR PULASKI TO 63TH ST TO CALIFORNIA AVE. TO HOLY CROSS HOSPITAL - 68th + California


Hawthorne Racetrack
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STEVENSON
PERSHING
Davis High Sch
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1/4 mile radius
1 mile radius
Fire Sta
Kelly High Sch
Peace Sch
Gunsaulus High Sch
Misericordia Home
Hearst Sch
KEDVALE
KOMENSKY
ILLINOIS NORTHERN
Edwards High Sch
Archer Park
Vittum Park
Baum Sch
KEATING
KILPATRICK
KNOX
LACROSSE
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BELT
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WESTERN
Sawyer Sch
Strohacker Park
Lourdes High Sch
St Gall Sch
St Turibius Sch
Pasteur Park
Pasteur Sch
Peck Sch
Tonti Sch
MIDWAY AIRPORT
Nazareth Sch
Post Office
Library
St Nicolas Sch
Hubbard Sch
GRAND
TRUNK
Lawler Park
Fleming Sch
Marian Fathers Monastery
St Mary Sch
Lee Sch
Von Solbrig Hospital
Elberhart Sch
SPRINGFIELD
HAMLIN
LAWNDALE
KEDZIE
SAWYER
ALBANY
RICHMOND
MOZART
FRANCISCO
SACRAMENTO
WHIPPLE
TROY
SPAULDING
HOMAN
ST LOUIS
PULASKI
KOLMAR
KILDARE
TRIPP
KENNETH
KOSTNER
KILBOURN
BELT
Actual Name

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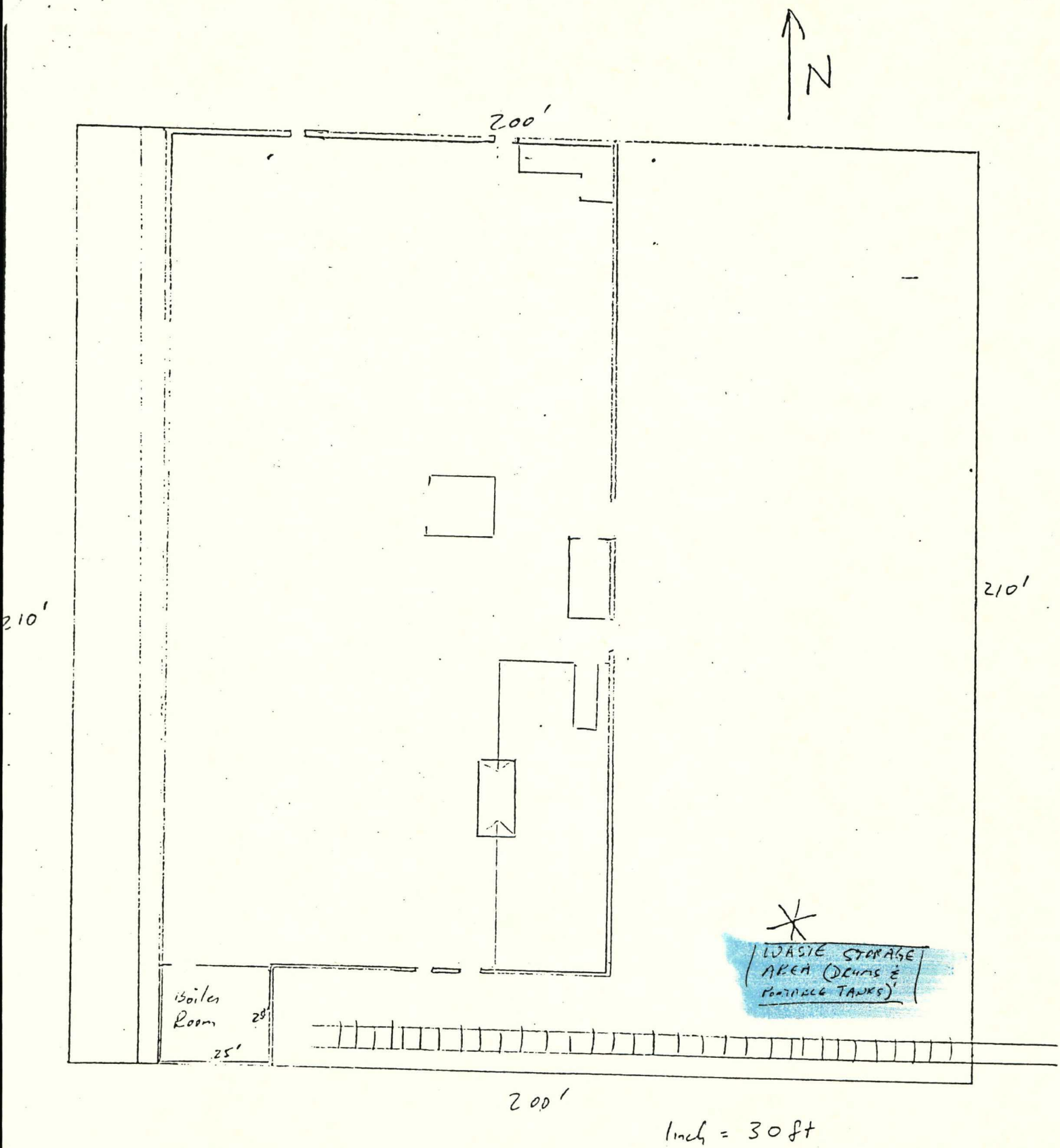

N
200'
210'
210'
Boiler Room
28'
25'
WASTE STORAGE AREA (DRUMS & PORTABLE TANKS)
200'
1 inch = 30 ft

ecology and environment, inc.

HAZARD EVALUATION OF CHEMICALS

Chemical Name TOLUENE Date 8-3-85

DOT Name TOLUENE TDD Number 05-8410-01

CAS Number 108-88-3

References Consulted (circle):

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

Toxic and Hazardous Safety Manual ACGIH Other: RTECS VOL 3

Chemical Properties: (Synonyms: Toluol, Methylbenzene, Methylbenzol)

Chemical Formula $C_6H_5CH_3$ Molecular Weight 92.14

Physical State Liquid Solubility (H_2O) 0.05% Boiling Point 231.1 °F

Flash Point 40 °F Vapor Pressure/Density 22 mm Freezing Point -139 °F

Specific Gravity 0.867 Odor/Odor Threshold 0.17 Flammable Limits 1.27% - 7%

Incompatabilities Strong oxidizers

Biological Properties:

TLV-TWA 100 ppm PEL 200 PPM

IDLH 2000 PPM Human 100 PPM Aquatic 100-10 PPM Rat/Mouse 5000 mg/kg

Route of Exposure Inhalation, Absorption, Ingestion, Contact

Carcinogen Teratogen Mutagen

Handling Recommendations: (Personal protective measures)

SCBA, FACE SHIELD, PLASTIC GLOVES

SCBA (500 PPM)

Disposal/Waste Treatment:

Absorb ~~in~~ on paper towels, and dispose of by combustion

Health Hazards and First Aid:

Eye-Irr. Immediately; Skin-Soap wash promptly;

Breathing-Artificial Respiration; Swallow-NO VOMIT

Symptoms: Acute: Irr. nose, eyes, Fatigue, weak, dizzness

Chronic: CNS, liver, kidneys, skin

375103

(12/83, DLD)

TOL	TOLUENE

Common Synonyms			
Toluol Methylbenzene Methylbenzol	Watery liquid	Colorless	Pleasant odor

Floats on water. Flammable, irritating vapor is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Avoid contact with liquid and 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 goggles and self-contained breathing apparatus.
Extinguish with dry chemical, foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled, will cause nausea, vomiting, headache, dizziness, difficult breathing, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing difficult, give oxygen.

LIQUID
Irritating to skin and eyes.
If swallowed, will cause nausea, vomiting or loss of consciousness.
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.
DO NOT INDUCE VOMITING.

Water Pollution

Dangerous to aquatic life in high concentrations.
Fouling to shoreline.
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 446-6)

Issue warning—high flammability
Evacuate area

2. LABEL

3. CHEMICAL DESIGNATIONS

3.1 **Synonyms:** Methylbenzene, Methylbenzol, Toluol

3.2 **Coast Guard Compatibility Classification:** Aromatic hydrocarbon

3.3 **Chemical Formula:** $C_6H_5CH_3$

3.4 **IMCO/United Nations Numerical Designation:** 3.2/1294

4. OBSERVABLE CHARACTERISTICS

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

4.2 **Color:** Colorless

4.3 **Odor:** Pungent; aromatic, benzene-like; distinct, pleasant

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Air-supplied mask; goggles or face shield, plastic gloves.

5.2 **Symptoms Following Exposure:** Vapors irritate eyes and upper respiratory tract, cause dizziness, headache, anesthesia, respiratory arrest. Liquid irritates eyes and causes drying of skin. If aspirated, causes coughing, gagging, distress, and rapidly developing pulmonary edema. If ingested causes vomiting, griping, diarrhea, depressed respiration.

5.3 **Treatment for Exposure:** INHALATION: remove to fresh air, give artificial respiration and oxygen if needed, call a doctor. INGESTION: do NOT induce vomiting; call a doctor. EYES: flush with water for at least 15 min. SKIN: wipe off, wash with soap and water.

5.4 **Toxicity by Inhalation (Threshold Limit Value):** 100 ppm

5.5 **Short-Term Inhalation Limits:** 600 ppm for 30 min.

5.6 **Toxicity by Ingestion:** Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 **Late Toxicity:** Kidney and liver damage may follow ingestion.

5.8 **Vapor (Gas) Irritant Characteristics:** Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 **Liquid or Solid Irritant Characteristics:** Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 **Odor Threshold:** 0.17 ppm

6. FIRE HAZARDS

6.1 **Flash Point:** 40°F C.C.; 55°F O.C.

6.2 **Flammable Limits in Air:** 1.27%—7%

6.3 **Fire Extinguishing Agents:** Carbon dioxide or dry chemical for small fires, ordinary foam for large fires.

6.4 **Fire Extinguishing Agents Not to be Used:** Water may be ineffective

6.5 **Special Hazards of Combustion Products:** Not pertinent

6.6 **Behavior in Fire:** Vapor is heavier than air and may travel a considerable distance to a source of ignition and flash back.

6.7 **Ignition Temperature:** 997°F

6.8 **Electrical Hazard:** Class I, Group D

6.9 **Burning Rate:** 5.7 mm/min.

7. CHEMICAL REACTIVITY

7.1 **Reactivity with Water:** No reaction

7.2 **Reactivity with Common Materials:** No reaction

7.3 **Stability During Transport:** Stable

7.4 **Neutralizing Agents for Acids and Caustics:** Not pertinent

7.5 **Polymerization:** Not pertinent

7.6 **Inhibitor of Polymerization:** Not pertinent

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** 1180 mg/l /96 hr/sunfish/TL_m/fresh water

8.2 **Waterfowl Toxicity:** Data not available

8.3 **Biological Oxygen Demand (BOD):** 0%, 5 days, 38% (theor.), 8 days

8.4 **Food Chain Concentration Potential:** None

9. SELECTED MANUFACTURERS

1. Exxon Chemical Co
   Houston, Tex. 77001
2. Shell Chemical Co.
   Petrochemicals Division
   Houston, Tex. 77001
3. Sun Oil Co.
   St. Davids, Pa. 19087

10. SHIPPING INFORMATION

10.1 **Grades or Purity:** Research, reagent, nitration—all 99.8+%; industrial, contains 94+%, with 5% xylene and small amounts of benzene and nonaromatic hydrocarbons, 90/120 less pure than industrial.

10.2 **Storage Temperature:** Ambient

10.3 **Inert Atmosphere:** No requirement

10.4 **Venting:** Open (flame arrester) or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-T-U

12. HAZARD CLASSIFICATIONS

12.1 **Code of Federal Regulations:** Flammable liquid

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

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

12.3 **NFPA Hazard Classifications:**

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

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

13.2 **Molecular Weight:** 92.14

13.3 **Boiling Point at 1 atm:** 231.1°F = 110.6°C = 383.8°K

13.4 **Freezing Point:** −139°F = −95.0°C = 178.2°K

13.5 **Critical Temperature:** 605.4°F = 318.6°C = 591.8°K

13.6 **Critical Pressure:** 596.1 psia = 40.55 atm = 4.108 MN/m^2

13.7 **Specific Gravity:** 0.867 at 20°C (liquid)

13.8 **Liquid Surface Tension:** 29.0 dynes/cm = 0.0290 N/m at 20°C

13.9 **Liquid-Water Interfacial Tension:** 36.1 dynes/cm = 0.0361 N/m at 25°C

13.10 **Vapor (Gas) Specific Gravity:** Not pertinent

13.11 **Ratio of Specific Heats of Vapor (Gas):** 1.089

13.12 **Latent Heat of Vaporization:** 155 Btu/lb = 86.1 cal/g = 3.61×10^5 J/kg

13.13 **Heat of Combustion:** −17,430 Btu/lb = −9686 cal/g = -405.5×10^5 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 pages 5 and 6)

NOTES

ETA

ETHYL ACETATE

Common Synonyms
Acetic acid, ethyl ester
Acetic ester
Vinegar naphtha

Watery liquid | Colorless | Pleasant fruity odor

Floats on water. Flammable, irritating vapor is produced.

Stop discharge if possible. Keep people away.
Shut off ignition sources and call fire department.
Stay upwind and use water spray to "knock down" vapor.
Avoid contact with liquid and 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.
Extinguish with dry chemical, alcohol foam, or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

VAPOR
Irritating to eyes, nose and throat.
If inhaled will cause headache, dizziness, nausea, or loss of consciousness.
Move to fresh air.
If breathing has stopped, give artificial respiration.
If breathing is difficult, give oxygen.

LIQUID
Irritating to skin and eyes.
Harmful if swallowed.
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.

Water Pollution

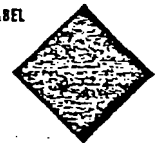
Effect of low concentrations on aquatic life is unknown.
May be dangerous if it enters water intakes.
Notify local health and wildlife officials.
Notify operators of nearby water intakes.

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook, CG 446-6)

Issue warning—high flammability
Evacuate area
Disperse and flush

2. LABEL



3. CHEMICAL DESIGNATIONS

3.1 Synonyms: Acetic acid, ethyl ester
Acetic ester
Acetic ether
Ethyl ethanoate

3.2 Coast Guard Compatibility Classification: Ester

3.3 Chemical Formula: $CH_3COOCH_2CH_3$

3.4 IMCO/United Nations Numerical Designation: 3.2/1173

4. OBSERVABLE CHARACTERISTICS

4.1 Physical State (as shipped): Liquid

4.2 Color: Colorless

4.3 Odor: Pleasant, fruity

5. HEALTH HAZARDS

5.1 Personal Protective Equipment: Organic vapor canister or air mask; goggles or face shield.

5.2 Symptoms Following Exposure: Headache, irritation of respiratory passages and eyes, dizziness and nausea, weakness, loss of consciousness.

5.3 Treatment for Exposure: INHALATION, if victim is overcome, move him to fresh air immediately and call a physician; if breathing is irregular or stopped, start resuscitation and administer oxygen. EYES: flush with water for at least 15 min.

5.4 Toxicity by Inhalation (Threshold Limit Value): 400 ppm

5.5 Short-Term Inhalation Limits: 1000 ppm for 15 min.

5.6 Toxicity by Ingestion: Grade 2; LD_{50} 0.5 to 5 g/kg

5.7 Late Toxicity: Data not available

5.8 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.

5.9 Liquid or Solid Irritant Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.

5.10 Odor Threshold: 1 ppm

6. FIRE HAZARDS

6.1 Flash Point: 24°F C.C.; 55°F O.C.

6.2 Flammable Limits in Air: 2.2% – 9.0%

6.3 Fire Extinguishing Agents: Alcohol foam, carbon dioxide or dry chemicals

6.4 Fire Extinguishing Agents Not to be Used: Not pertinent

6.5 Special Hazards of Combustion Products: Not pertinent

6.6 Behavior in Fire: Not pertinent

6.7 Ignition Temperature: 800°F

6.8 Electrical Hazard: Class I, group D

6.9 Burning Rate: 3.1 mm/min.

7. CHEMICAL REACTIVITY

7.1 Reactivity with Water: No reaction

7.2 Reactivity with Common Materials: No reaction

7.3 Stability During Transport: Stable

7.4 Neutralizing Agents for Acids and Caustics: Not pertinent

7.5 Polymerization: Not pertinent

7.6 Inhibitor of Polymerization: Not pertinent

8. WATER POLLUTION

8.1 Aquatic Toxicity: Data not available

8.2 Waterfowl Toxicity: Data not available

8.3 Biological Oxygen Demand (BOD): (Theor.) 66%, 5 days

8.4 Food Chain Concentration Potential: None

9. SELECTED MANUFACTURERS

1. Eastman Kodak Co.
Tennessee Eastman Co., Div.
Kingsport, Tenn. 37662
2. Monsanto Co.
Monsanto Industrial Chemicals Co.
800 North Lindbergh Blvd.
St. Louis, Mo. 63166
3. Union Carbide Corp.
Chemicals and Plastics Div.
270 Park Ave.
New York, N. Y. 10017

10. SHIPPING INFORMATION

10.1 Grades of Purity: 85—100%

10.2 Storage Temperature: Ambient

10.3 Inert Atmosphere: No requirement

10.4 Venting: Open (flame arrester) or pressure-vacuum

11. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook, CG 446-3)

A-P-Q

12. HAZARD CLASSIFICATIONS

12.1 Code of Federal Regulations: Flammable liquid

12.2 NAS Hazard Rating for Bulk Water Transportation:

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

12.3 NFPA Hazard Classifications:

Category	Classification
Health Hazard (Blue)	1
Flammability (Red)	3
Reactivity (Yellow)	0

13. PHYSICAL AND CHEMICAL PROPERTIES

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

13.2 Molecular Weight: 88.11

13.3 Boiling Point at 1 atm: 171°F = 77°C = 350°K

13.4 Freezing Point: −117°F = −83°C = 190°K

13.5 Critical Temperature: 482°F = 250°C = 523°K

13.6 Critical Pressure: 558 psia = 38 atm = 3.8 MN/m²

13.7 Specific Gravity: 0.902 at 20°C (liquid)

13.8 Liquid Surface Tension: 24 dynes/cm = 0.024 N/m at 20°C

13.9 Liquid-Water Interfacial Tension: 6.79 dynes/cm = 0.00679 N/m at 30°C

13.10 Vapor (Gas) Specific Gravity: 3.0

13.11 Ratio of Specific Heats of Vapor (Gas): 1.080

13.12 Latent Heat of Vaporization: 158 Btu/lb = 87.6 cal/g = 3.67 × 10⁵ J/kg

13.13 Heat of Combustion: −10,110 Btu/lb = −5616 cal/g = −235.1 × 10⁵ 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 pages 5 and 6)

NOTES

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 Non-Responsive Non-Responsive

   c. Assistant Corporate Safety Officer - Steve Sherman Non-Responsive Non-Responsive

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Regional Office

Office Phone Number: (312) 663-9415

	Name	Home
Team Leader	Joe Petrilli	Non-Responsive
Regional Safety Coordinator	Paul Moss	

PM:3F

SITE DOSIMETER LOG

TDD# R05-8410-01C SITE NAME Sexclair + Valentine

SITE SAFETY OFFICER Steve Vevang WEEK OF 8/14/85

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

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: Arlene Brace
TDD Number: R05-8410-01C
Date of Departure: 8/14/85
Date of Expected Return: 8/14/85

A. Safety Instruments (Please Circle)

	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	Radiation TLD Badges	
	Safety Glasses	
	Lifevests	
2	Hard Hats	
	Face Shields	
	Ear Plugs	

C. Respiratory Equipment

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

P.D. Moss (Rev. 4/85)

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
X	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:	X	Other _____	Qty:	
Coveralls	Qty:		Fully-encapsulated Suit	Qty:	

2) Gloves

Latex Disposable	Qty: _____	Viton	Qty: _____
Butyl Rubber	Qty: _____	Winter Drilling	Qty: _____
Nitrile	Qty: _____	Other _____	Qty: _____
Neoprene	Qty: _____		

3) Boots

Neoprene	Qty: _____
Latex Disposable	Qty: x
Steel-toe	Qty: x
Cold-weather i.e., sorrel	Qty: _____
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: _____
Sulfuric Acid	Qty: _____
Natural Gas (Methane)	Qty: _____
Arsenic Trioxide	Qty: _____
Ammonia	Qty: _____
Vinyl-chloride	Qty: _____
Other _____	Qty: _____

K. Decon Supplies

Wash Tubs	Qty:	_____
Buckets	Qty:	_____
Scrub Brushes	Qty:	_____
Pressurized Sprayer	Qty:	_____
Trash Bags	Qty:	_____
Tarps	Qty:	_____
Duct Tape	Qty:	_____
Solvent	Type:	_____
Detergent	Type:	_____
MSA Sanitizing Solution	Qty:	1 PACKAGE

P.D. Moss (Rev. 4/85)

PM:4X

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			
2.	RAD-MINE			
3.				
4.				
5.				

B. PROTECTIVE CLOTHING WORN: _____

C. SITE NAME: Sieclaw + Valentine PROJECT NUMBER: 8410-01C
DATE: 8/14/85
WEATHER CONDITIONS: _____
NAMES OF ATTENDEES AT SITE: Arlene Prestl, Steve Vevang

D. COMMENTS ON MONITORING OR PROTECTIVE CLOTHING _____

	NAME	SIGNATURE
TEAM LEADER:	Arlene Prestl	
SITE SAFETY OFFICER:	Steve Vevang	

(P.D. Moss, 1/85)