US EPA RECORDS CENTER REGION 5
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VOBYI Low Priority - F.O.

ECOLOGY AND ENVIRONMENT, INC.

FIELD INVESTIGATION TEAM

SITE INSPECTION PLAN

A. GENERAL INFORMATION

SITE: Armstrong Container

TDD NO.: F05-8705-005

LOCATION: 1440 S. Kilbourn Ave.
Chicago, Il., 60623

U.S. EPA NO.: ILD005067988

SSID NO.:

WSTS NO.: FIL0462GT

PLAN PREPARED BY: Regina Bayer

DATE: 5/8/87

APPROVED BY: C. Cusik

DATE: 5/14/87

OBJECTIVE (including description of work to be performed): site inspection with onsite interviews with site representatives, visual inspection. No sampling at this time.

DESIRED REPORT FORM: SI REPORT (2070-13) ✓ HRS REPORT

OTHER (EXPLAIN)

PROPOSED DATE OF INVESTIGATION:

BACKGROUND REVIEW: Complete: ✓ Preliminary:

HRS PRELIMINARY SCORE OF ROUTES: GW 0 SW 0 AIR 0
(NO FIELD WORK)

DIRECT CONTACT 0 FIRE AND EXPLOSION 0

TOTAL PRELIMINARY HRS SCORE VALUE (NO FIELD WORK) 0

PROJECTED HRS SCORE: GW 2.26 SW 0 AIR 0
(WITH FIELD WORK)

DIRECT CONTACT 0 FIRE AND EXPLOSION 0

TOTAL PROJECTED HRS SCORE 1.31

IF NO SAMPLING, EXPLAIN ON PAGE 3.

INSPECTION PRIORITY (BASED ON PROJECTED HRS SCORE): LOW: ✓ MEDIUM: HIGH:

B. SITE/WASTE CHARACTERISTICS

WASTE TYPE(S): Liquid ✓ Solid Sludge Gas

CHARACTERISTIC(S): Corrosive Ignitable ✓ Radioactive Volatile

Toxic Reactive Unknown ✓ Other (Name)

FACILITY DESCRIPTION: The site is a combination of vacant and active buildings, completely fenced in with a guard at the gate. It occupies 1½ blocks in an industrialized area.

Principal Disposal Method (type and location): 55 gallon drums, location on site unknown

Unusual Features (dike integrity, power lines, terrain, etc.): in heavily industrialized area which borders a residential neighborhood. A railroad yard borders site on west side.

Status: (active, inactive, unknown) active, years of operation unknown to present.

History: (worker or non-worker injury; complaints from public; previous agency action):

An inspection of the facility on August 8, 1980, by the Metropolitan Sanitary District of Greater Chicago revealed 20 drums of fuel oil. The exact constituents of the fuel oil is unknown. No other wastes were reported.

On July 23, 1983, FIT members performed a survey of the site, noting age of buildings and security system.

C. HAZARD EVALUATION

(Use Hazard Evaluation of Chemicals sheets for specific or representative chemicals present.):

fuel oil

LEVEL OF PROTECTION: A ___ B ___ C ___ D X

MODIFICATIONS: Level D with possible upgrade to level C if monitoring equipment levels for upgrade are met.

SITE SAFETY PLAN ON FILE AT E & E: YES ___ NO ✓

D. FIELD WORK REQUIRED

PERIMETER ESTABLISHMENT: MAP/SKETCH ATTACHED? YES ✓ NO ___

Perimeter Identified? YES ✓ NO ___

Zone(s) of Contamination Identified? YES ___ NO ✓

Geophysical Work: YES ___ NO ✓

Type: Magnetometry ___ Seismic Refraction ___ GPR ___ Resistivity ___ Other___

Comments: ___

Drilling: YES ___ NO ✓

Well Location Identified: YES ___ NO ___

Drill Plan/Well Installation Plan Attached: YES ___ NO ___

Sampling Required: YES ___ NO ✓

Type: GW ___ SW ___ Air ___ Soil ___ Waste ___ Other ___

Sampling Locations Identified: YES ___ NO ___

SUMMARY OF SAMPLING PROCEDURES: (Special Equipment, Facilities, or Procedures)

NON-SAMPLING TRIP

E. ANALYTICAL SERVICES REQUIRED

RAS ____ SAS ____ CRL ____

F. QAPP

REQUIRED: YES ____ NO ____

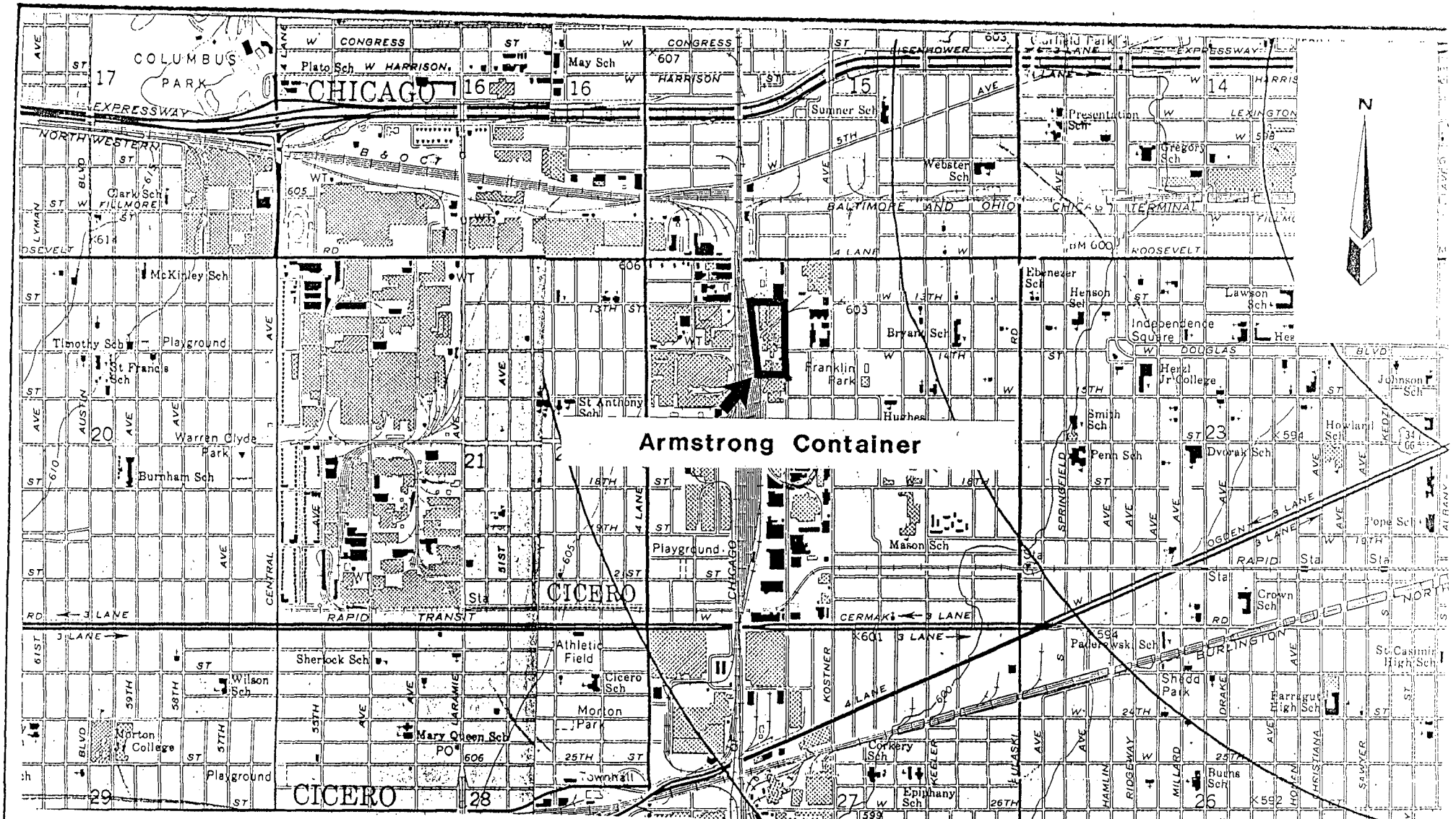
IF NO, EXPLAIN: NON-SAMPLING

G. SI WORK TEAM SIZE/LIMITATION

TEAM MEMBER	DISCIPLINE	RESPONSIBILITY
TBA		Team Leader
TBA		Site Safety Officer

WORK LIMITATIONS (Time of day, etc.): daylight hours only, observe buddy system, monitor personnel for heat and cold stress.

COMMENTS: Interviews and visual inspection will be conducted to determine the quantity, containment, and the exact constituents of the waste. If information is obtained that suggests sampling is needed, a sampling trip may be set up.



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111 WEST JACKSON BOULEVARD
CHICAGO, IL 60604

SCALE: 1:24000		DRAWN BY U.S.G.S.
DATE: 1963		REVISED 1980

Armstrong Container

Quadrangles: Berwyn, IL Englewood, IL	DRAWING NUMBER 1

OILS, FUEL: 4

OFR

Common Synonyms	Oily liquid	Dark	Lube or fuel oil odor
Residual fuel oil No. 4	Floats on water.		

Stop discharge if possible.
Call fire department.
Avoid contact with liquid.
Isolate and remove discharged material.
Notify local health and pollution control agencies.

Fire

Combustible.
Extinguish with dry chemical, foam or carbon dioxide.
Water may be ineffective on fire.
Cool exposed containers with water.

Exposure

CALL FOR MEDICAL AID.

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

DO NOT INDUCE VOMITING.

Water Pollution

Effect of low concentrations on aquatic life is unknown.
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)

Mechanical containment
Should be removed
Chemical and physical treatment

2. LABEL

2.1 **Category:** None
2.2 **Class:** Not pertinent

3. CHEMICAL DESIGNATIONS

3.1 **CG Compatibility Class:** Miscellaneous Hydrocarbon Mixtures
3.2 **Formula:** Not applicable
3.3 **IMO/UN Designation:** 3.3/1223
3.4 **DOT ID No.:** 1223
3.5 **CAS Registry No.:** Data not available

4. OBSERVABLE CHARACTERISTICS

4.1 **Physical State (as shipped):** Liquid
4.2 **Color:** Brown
4.3 **Odor:** Characteristic

5. HEALTH HAZARDS

5.1 **Personal Protective Equipment:** Protective gloves; goggles or face shield.
5.2 **Symptoms Following Exposure:** INGESTION: gastrointestinal irritation. ASPIRATION: pulmonary irritation is normally minimal but may become more severe several hours after exposure.
5.3 **Treatment of Exposure:** INGESTION: do NOT lavage or induce vomiting. ASPIRATION: treatment probably not required; delayed development of pulmonary irritation can be detected by serial chest x-rays; consider prophylactic antibioticregime if condition warrants. EYES: wash with copious quantity of water. SKIN: wipe off and wash with soap and water.
5.4 **Threshold Limit Value:** Data not available
5.5 **Short Term Inhalation Limits:** Not pertinent
5.6 **Toxicity by Ingestion:** Grade 1; LD_{50} = 5 to 15 g/kg
5.7 **Late Toxicity:** Data not available
5.8 **Vapor (Gas) Irritant Characteristics:** None
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:** Data not available
5.11 **IDLH Value:** Data not available

6. FIRE HAZARDS

6.1 **Flash Point:** >130°F C.C.
6.2 **Flammable Limits in Air:** 1.0%-5%
6.3 **Fire Extinguishing Agents:** Dry chemical, foam, or carbon dioxide
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:** Not pertinent
6.7 **Ignition Temperature:** 505°F
6.8 **Electrical Hazard:** Not pertinent
6.9 **Burning Rate:** 4 mm/min.
6.10 **Adiabatic Flame Temperature:** Data not available
6.11 **Stoichiometric Air to Fuel Ratio:** Data not available
6.12 **Flame Temperature:** Data not available

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
7.7 **Molar Ratio (Reactant to Product):** Data not available
7.8 **Reactivity Group:** 33

8. WATER POLLUTION

8.1 **Aquatic Toxicity:** Data not available
8.2 **Waterfowl Toxicity:** Data not available
8.3 **Biological Oxygen Demand (BOD):** Data not available
8.4 **Food Chain Concentration Potential:** None

9. SHIPPING INFORMATION

9.1 **Grades of Purity:** Commercial
9.2 **Storage Temperature:** Ambient
9.3 **Inert Atmosphere:** No requirement
9.4 **Venting:** Open (flame arrester)

10. HAZARD ASSESSMENT CODE

(See Hazard Assessment Handbook)

A-T-U

11. HAZARD CLASSIFICATIONS

11.1 **Code of Federal Regulations:** Combustible liquid
11.2 **NAS Hazard Rating for Bulk Water Transportation:** Not listed
11.3 **NFPA Hazard Classification:**

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

12. PHYSICAL AND CHEMICAL PROPERTIES

12.1 **Physical State at 15°C and 1 atm:** Liquid
12.2 **Molecular Weight:** Not pertinent
12.3 **Boiling Point at 1 atm:** 214 to >1092°F = 101 to >588°C = 374 to 861°K
12.4 **Freezing Point:** —20 to +15°F = —29 to —9°C = 244 to 264°K
12.5 **Critical Temperature:** Not pertinent
12.6 **Critical Pressure:** Not pertinent
12.7 **Specific Gravity:** 0.904 at 15°C (liquid)
12.8 **Liquid Surface Tension:** Data not available
12.9 **Liquid Water Interfacial Tension:** Data not available
12.10 **Vapor (Gas) Specific Gravity:** Not pertinent
12.11 **Ratio of Specific Heats of Vapor (Gas):** Not pertinent
12.12 **Latent Heat of Vaporization:** Not pertinent
12.13 **Heat of Combustion:** —17,460 Btu/lb = —9,700 cal/g = -406.1×10^6 J/kg
12.14 **Heat of Decomposition:** Not pertinent
12.15 **Heat of Solution:** Not pertinent
12.16 **Heat of Polymerization:** Not pertinent
12.25 **Heat of Fusion:** Data not available
12.26 **Limiting Value:** Data not available
12.27 **Reid Vapor Pressure:** Data not available

NOTES