EPA Region 5 Records Ctr.

305183

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 1 - SITE INFORMATION AND ASSESSMENT

...NTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980677694

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER				
CTO: Kingery Development Corp.	2600 E 176th Street				
03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Lansing	IL	60438	Cook	031	03
09 COORDINATES LATITUDE	LONGITUDE		Quadrangle: Calumet City, IL-IN		
41° 34' 45.0"	087° 33' 45.0"				

10 DIRECTIONS TO SITE (Starting from nearest public road)
From the Chicago Loop take 94 South to 80-94, (The Kingery Expressway) Exit east. At Torrence Avenue exit South. Take the First left and

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)		
Waste Management, Inc.	900 Jorie Boulevard		
03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Oak Brook	IL	60521	(312) 218-1500
07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)		
Waste Management, Inc.	7300 College Drive		
09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
Palos Heights	IL	60463	(312) 821-8100

13 TYPE OF OWNERSHIP (Check one)
■ A. PRIVATE ☐ B. FEDERAL: _____ (Agency name) ☐ C. STATE ☐ D. COUNTY ☐ E. MUNICIPAL
☐ F. OTHER: _____ (Specify) ☐ G. UNKNOWN

14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)
☐ A. RCRA 3001 DATE RECEIVED: / / (MONTH DAY YEAR) ☐ B. UNCONTROLLED WASTE SITE (CERCLA 103 c) DATE RECEIVED: / / (MONTH DAY YEAR) ■ C. NONE

IV. CHARACTERIZATION OF POTENTIAL HAZARD

01 ON SITE INSPECTION
■ YES DATE 7/15/80 (MONTH DAY YEAR)
☐ NO 8/5/81, 5/7/82, 10/2/81, 11/8/83

BY (Check all that apply)
☐ A. EPA ☐ B. EPA CONTRACTOR ■ C. STATE ☐ D. OTHER CONTRACTOR
☐ E. LOCAL HEALTH OFFICIAL ☐ F. OTHER: _____ (Specify)
CONTRACTOR NAME(S): _____

02 SITE STATUS (Check one)
☐ A. ACTIVE ■ B. INACTIVE ☐ C. UNKNOWN

03 YEARS OF OPERATION
1974 (BEGINNING YEAR) | 1980 (ENDING YEAR) ☐ UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN, OR ALLEGED
Heavy Metals (Toxic / Persistant)

05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION
Groundwater (environment)
Direct Contact

V. PRIORITY ASSESSMENT

01 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2 - Waste Information and Part 3 - Description of Hazardous Conditions and Incidents)
☐ A. HIGH (Inspection required promptly) ☐ B. MEDIUM (Inspection required) ☐ C. LOW (Inspect on time available basis) ☐ D. NONE (No further action needed, complete current disposition form)

VI. INFORMATION AVAILABLE FROM

01 CONTACT	02 OF (Agency/Organization)	03 TELEPHONE NUMBER
Cliff Gould	IL EPA, D.L.P.C.	(312) 345-9780

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Ruth Ann Jacquette	U.S. EPA	E&E (FIT)	(312) 663-9415	9/12/86 (MONTH DAY YEAR)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D980677694

II. WASTE STATES, QUANTITIES, AND CHARACTERISTICS

01 PHYSICAL STATES (Check all that apply)

- [x] A SOLID
- [ ] B POWDER, FINES
- [x] C SLUDGE
- [ ] D OTHER _____ (Specify)
- [ ] E SLURRY
- [ ] F LIQUID
- [ ] G GAS

02 WASTE QUANTITY AT SITE (Measures of waste quantities must be independent)

TONS Unknown
CUBIC YARDS Unknown
NO. OF DRUMS Unknown

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A TOXIC
- [ ] B CORROSIVE
- [ ] C RADIOACTIVE
- [x] D. PERSISTENT
- [ ] E SOLUBLE
- [ ] F. INFECTIOUS
- [x] G FLAMMABLE
- [ ] H IGNITABLE
- [ ] I HIGHLY VOLATILE
- [ ] J EXPLOSIVE
- [ ] K REACTIVE
- [ ] L. INCOMPATIBLE
- [ ] M. NOT APPLICABLE

III. WASTE TYPE

CATEGORY	SUBSTANCE NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS
SLU	SLUDGE	unknown	unknown	(See Below)
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS			

IV. HAZARDOUS SUBSTANCES (See Appendix for most frequently cited CAS Numbers)

01 CATEGORY	02 SUBSTANCE NAME	03 CAS NUMBER	04 STORAGE/DISPOSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
SLU	Cadmium	7440-43-9	Landfarm	104	mg/Kg
SLU	Lead	7439-92-1	Landfarm	469	mg/Kg
SLU	Mercury	7439-97-6	Landfarm	3270	mg/Kg

The landfill accepted solid building material debries and industrial paper.

MSD sludge was dried and deposited into the Landfill. Sludge was also incorporated into the final Cover at the landfill, to be used as a vegetative base. The MSD Sludge originated at the West Southwest Sewage Plant. The Analysis above is of MSD Sludge from the West Southwest facility.

V. FEEDSTOCKS (See Appendix for CAS Numbers) None

CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTOCK NAME	02 CAS NUMBER
FDS			FDS		
FDS			FDS		
FDS			FDS		
FDS			FDS		

VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)

See Attached Source Sheets.

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D980677694

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ☐ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Geology consists of lacustrine sediments - clay and silt which overlie the Silurian Dolomite Aquifer. Groundwater can be found within 2 feet of the ground surface. Groundwater flows eastward.

01 ☐ B. SURFACE WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Intervening terrain and Roads prevent contaminants from reaching surface water. Inadequate berming onsite has caused runoff to carry MSD sludge offsite.

01 ☐ C. CONTAMINATION OF AIR — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

13 methane probes were installed to monitor gas conditions on-site and off-site.

01 ☒ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: 3/9/78) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 50,876 — 04 NARRATIVE DESCRIPTION

Underground fires were reported by the IEPA. (See C above)

01 ☒ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 19,762 — 04 NARRATIVE DESCRIPTION

A potential for direct contact existed in the past for the site was sited for inadequate daily cover and it is unknown if the site is completely fenced. Currently the site is closed and covered.

01 ☐ F. CONTAMINATION OF SOIL — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 38 (Acres) — 04 NARRATIVE DESCRIPTION

The site is currently closed and properly covered and a vegetation base established. In the past runoff carried sludge offsite to neighboring yards.

01 ☐ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 0 — 04 NARRATIVE DESCRIPTION

Population within a 3-mile radius of the site obtains drinking water from Lake Michigan. Intakes for this system are at a distance greater than three miles from the site.

01 ☐ H. WORKER EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 WORKERS POTENTIALLY AFFECTED: unknown — 04 NARRATIVE DESCRIPTION

A potential existed in the past for MSD sludge contains high levels of heavy metals.

01 ☐ I. POPULATION EXPOSURE/INJURY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 19,762 — 04 NARRATIVE DESCRIPTION

A potential exists as it is unknown if the site is completely fenced. (See E above)

EPA

POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
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II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ■ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
A potential exists due to Metal Build up in vegetation. Currently vegetation does not appear to be stressed.

01 ■ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*
A potential exists due to ingestion of vegetation by animals. (See J above)

01 ■ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
(See J and K above)

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills/runoff/standing liquids/leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 19,762 — 04 NARRATIVE DESCRIPTION
It is unknown if the landfill is lined. In the past runoff has carried sludge offsite.

01 ■ N. DAMAGE TO OFFSITE PROPERTY — 02 ■ OBSERVED (DATE: 7/28/81) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
Heavy rains caused a large amount of Runoff from the site to flood residential areas. After the water receded the yards have 1-2" of sludge and soil.

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
None observed or documented.

01 ■ F. ILLEGAL/UNAUTHORIZED DUMPING — 02 ■ OBSERVED (DATE: 3/9/86) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION
MSD sludge was disposed of at the landfill without a permit.

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS
No other Known, Potential or Alleged Hazards.

III. TOTAL POPULATION POTENTIALLY AFFECTED: 50,876

IV. COMMENTS

None

V. SOURCES OF INFORMATION *(Cite specific references, e.g., state files, sample analysis, reports)*

See Attached Source Sheets.

PA DOCUMENTATION SHEET

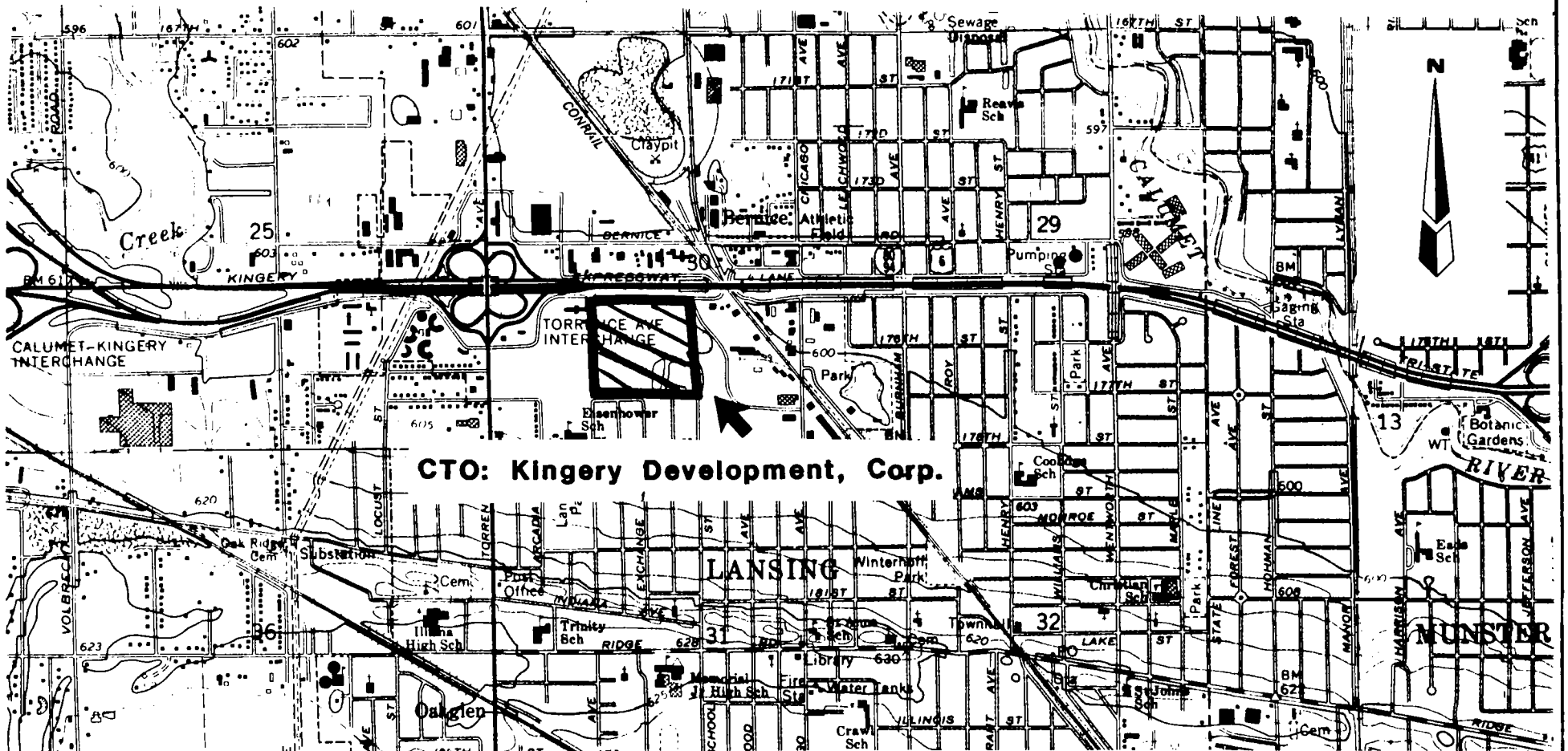
SITE CTO: Kingery Development Corp.
IDENTIFICATION NUMBER ILD 980677694

SOURCE NUMBER	DESCRIPTION OF SOURCE
1A, 1B, 1C, 1D	1A) QUAD NAME Calumet City, IL-IN 1B) QUAD NAME Highland - IN SIZE: 7.5 or 15 SIZE: 7.5 or 15 YEAR 1968 PR 1980 YEAR 1968, PR 1980 1C) QUAD NAME - 1D) QUAD NAME SIZE: 7.5 or 15 SIZE: 7.5 or 15 YEAR YEAR
2	LETTER: TO: Mr. Rama Chaturvedi, Manager, Special
	Waste Permit Unit, IEPA, From: William Rauch,
	District Manager, CID, Division of Waste Management
	9/10/81.
3	Chemical Properties of Sludges from MSDGC - Source:
	West-Southwest Plant,
4	LETTER: TO: Mr Francis Lewis, Waste Management,
	INC., FROM: LAWRENCE A. DuBose, Testing
	Service Corp., 11/25/84.
5	LETTER: TO: WASTE Management of Illinois,
	FROM: Joe Petrilli, Northern Region Manager,
	IEPA, 3/24/78
6	LETTER: TO: Mr Cavanagh, Manager, Land
	Permit Section, IEPA, From: Bert Fowler,
	Waste Management, Inc. 1-16-80.
7	LETTER: TO: Kenneth Bechely, Northern Region
	Manager, IEPA, From: Bert Fowler, Waste Manage

PA DOCUMENTATION SHEET

SITE CTO: Kingery Development Corp.
IDENTIFICATION NUMBER ILD980677694

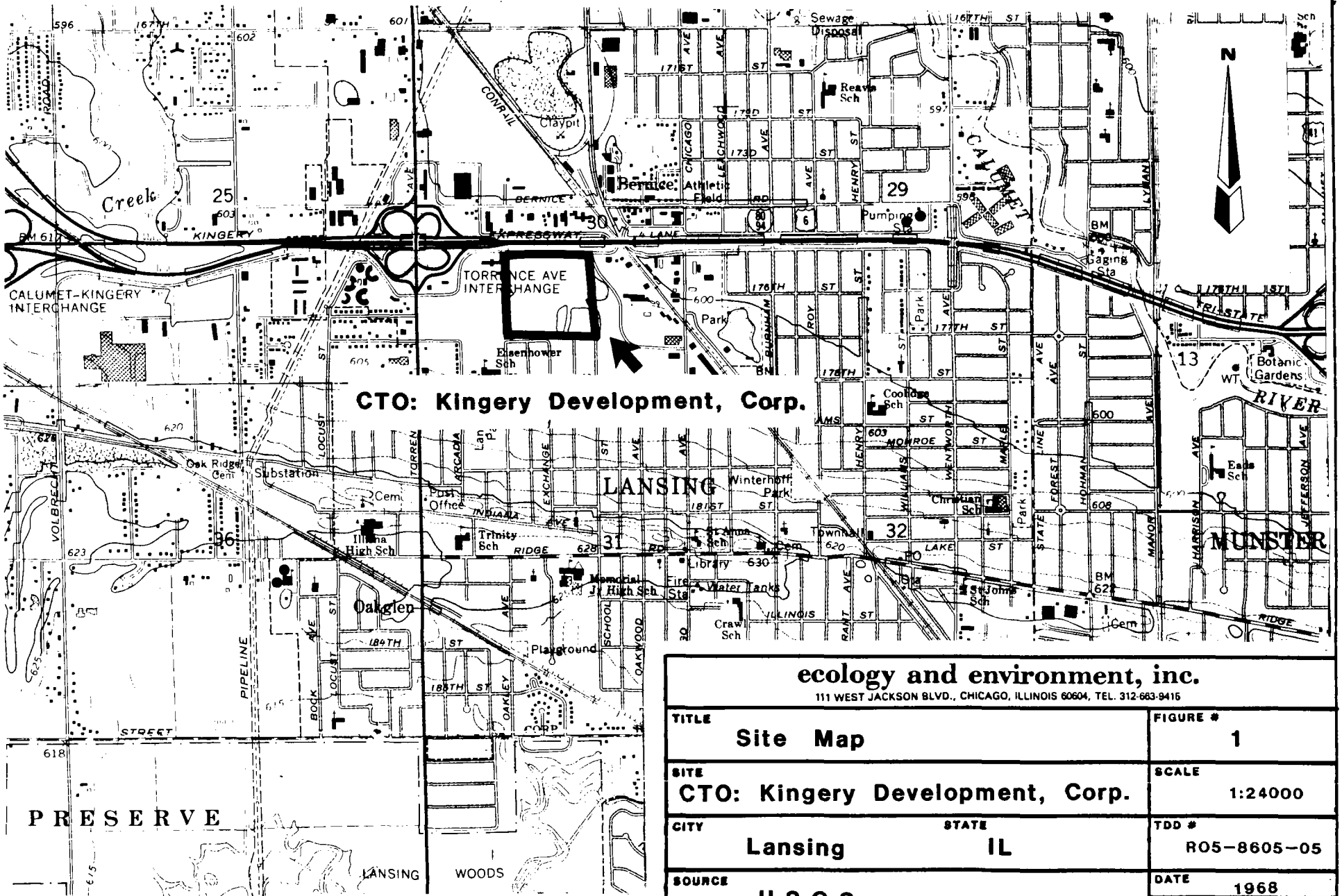
SOURCE NUMBER	DESCRIPTION OF SOURCE
	Mut, Inc 1-24-79.
8	D.L.P.C Complaint Investigation Form.
	7/29/81 B. Elder.
9	Population Census of IN, 1980, U.S. Dept of
	Commerce, Bureau of the Census.
10	Population Census of IL, 1980, U.S. Dept of
	Commerce, Bureau of the Census.
11	Memo: To: File, From: Cynthia Pugh, Environmental scientist, E&E (FIT), 9/9/86.
12	LETTER: TO: Waste Management, From Kenneth
	Bechly, D.L.P.C., IEPA. 11-1-78.
13	IEPA Enforcement Notice, IEPA No. 4894, 11-27-78.
14	Soil Investigation No. 7205-0005-1, Proposed
	Solid Waste Disposal Site, Walter H. Flood & Co.,
	Inc., June 30, 1972.
15	IEPA Public Water Supply Division - Public
	Water Sources.



ecology and environment, inc.

111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: Site Map	FIGURE #: 1
SITE: CTO: Kingery Development, Corp.	SCALE: 1:24000
CITY: Lansing STATE: IL	TDD #: R05-8605-05
SOURCE: U.S.G.S.	DATE: 1968 REVISED: 1980



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111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: Site Map	FIGURE #: 1
SITE: CTO: Kingery Development, Corp.	SCALE: 1:24000
CITY: Lansing STATE: IL	TDD #: R05-8605-05
SOURCE: U.S.G.S.	DATE: 1968 REVISED: 1980

FIELD PHOTOGRAPHY LOG SHEET

DATE 9/9/86

TIME 3:15 **A.M.** **P.M.**

DIRECTION: N NNE NE ENE
E ESE SE SSE
S SSW SW WSW
W WNW NW NNW

WEATHER Cloudy, 68°F

SITE CTO: Kingery Development, Corp.

TDD# R05-8605-05

PHOTOGRAPHED BY: Ruth Ann JACQuette

SAMPLE ID# (if applicable) NA

DESCRIPTION:

Gate entrance to CTO: Kingery Development, Corp. Landfill.

RS-8605-05 IL-0036-08

ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415
International Specialists in the Environment

EXECUTIVE SUMMARY

CTO: KINGERY DEVELOPMENT CORP.
2600 E. 176th Street
Lansing, IL 60438

ILD980677694

The site is a landfill which operated from 1974 until 1980. According to IEPA records, only solid building material debris and industrial paper wastes were disposed of in the landfill. Sludge from the West Southwest Sewage Treatment Plant of the Metroplitan Sanitary District of Greater Chicago (M.S.D.G.C.) was dried onsite and then deposited into the landfill. M.S.D.G.C. sludge was also incorporated into the final cover. The landfill utilized area fill and trench methods.

The site has been inspected on numerous occasions from 1978 until 1983 by the IEPA. An Enforcement Notice was issued in November of 1978 by the IEPA for the lack of daily cover, underground fires and for receiving M.S.D.G.C. sludge without a permit. In July of 1978, heavy rains caused a large amount of runoff from the site to flood neighboring yards. As the water receded the yards were left with a one to two inch layer of sludge and soil.

In 1983 a final cover was applied to the site and a vegetative base established. Also at this time, thirteen methane probes were installed to monitor gas conditions onsite and offsite. Based on this information a medium priority is recommended to conduct a site inspection.

29K:2F

recycled paper