US EPA RECORDS CENTER REGION 5
509057

L0310420002--Cook County
Chicago Copper & Chemical Co
ILD984774968
SF/HRS

Med-GW
3/23/90

5E0301-A0102

CERCLA
Preliminary Assessment Report

6155

Illinois Environmental
Protection Agency
P.O. Box 19276,
Springfield, IL 62794-9276

Confidential Material May be Enclosed

L0310420002--Cook County
Chicago Copper and Chemical Co.
ILD984774968

EXECUTIVE SUMMARY

Chicago Copper and Chemical Company was located on a 16.07 acre site on the northwest corner of Winchester Road and Burr Oak Avenue (127th Street) in Calumet Park, Illinois (SW 1/4 SE 1/4 Section 30, T.37N., R.14E.). The Airline Towing Company is the current operator at the site, using only the southern one-third of the site for their operations. The northern two-thirds is currently vacant, but was used as a random dump for concrete, wood, and tires. Mr. J.R. Bramlett currently owns four of the five parcels once owned by Chicago Copper and Chemical Company, while Mr. Michael Holt owns the fifth parcel.

The Chicago Copper and Chemical Company was added to CERCLIS (Comprehensive Environmental Response, Compensation and Liability Information System) in June of 1989 as the result of a request by the Illinois Environmental Protection Agency (IEPA). The request was based on the IEPA's review of Sanborn Fire Insurance Maps, which indicated that the Chicago Copper and Chemical Company may have used certain heavy metals in their processes (see Sanborn maps for the years 1886, 1897, 1911 and 1941).

The Chicago Copper and Chemical Company began operations before 1886 and was incorporated under State of Illinois laws on December 20, 1911. The company used "a secret process of manufacturing barium hydrate and processes of manufacturing other barium compounds and processes of smelting and refining metals, ores and alloys" (1911, Corporation form filed with the Illinois Secretary of States office). The main object was to buy, sell, deal, refine, manufacture and treat ores, metals, alloys, minerals and chemicals. The facility discontinued operations in 1970, with the buildings razed soon thereafter. Airline Towing took over operations at the site in 1969 and continue to operate at this time.

A citizen complaint, alleging a potential hazardous waste pile, filed in February 1986 resulted in the first IEPA inspection at the site. The inspection found some small piles of concrete and general refuse around the site, but no waste pile. A second complaint was filed in April of 1986 also indicating a waste pile on-site and that the pile was being graded down. A second inspection conducted by the IEPA on May 6, 1987 discovered a waste pile of sandy/pebble-like material consisting of white, yellow, orange, red, gray and dark green layers. Three samples were taken from the pile

and analyzed for E.P. Toxicity and Total Metals. The results revealed the following compounds:

SAMPLE POINT	COMPOUND	CONCENTRATION (PPM)
X102	Barium (Total)	10750.0
X102	Lead (Total)	137.5
X102	Copper (Total)	72.5
X103	Copper (Total)	112.5
X103	Lead (Total)	2350.0
X103	Barium (Total)	74000.0
X103	Barium (EP Tox)	1036.0

An inspection conducted two years later on May 24, 1989, indicated that the waste pile and the other debris piles had been removed to an unknown location. A compliance conference was held in September 1989 to determine the whereabouts of the waste pile. According to J.R. Bramlett, (one of the property owners), the pile was removed sometime prior to August 1988 with no indication of where the pile was taken. The conference ended with the property owners (Bramlett and Holt) agreeing to sample the area of the pile for the presence of hazardous waste as well as surrounding areas. On October 3, 1989, eight sampling locations were dug from one to two feet deep, with one sample taken from each location. Illinois EPA representatives and a contractor (Industrial Clean-Up for Environmental Protection {ICEP} from E. Chicago, IN) for the current owner split samples from the eight locations. The locations (see Reference 8) were taken in and around the area where the waste pile had been located. At this time, the IEPA results have not been completed, however preliminary results from ICEP indicate the presence of barium. Mr. J.R. Bramlett recently hired ICEP to take additional soil samples in the north portion of the property, so that he may sell the land to a local lumber company. The preliminary results from ICEP also indicate high concentrations of barium.

At this time, an enforcement case is going to be filed against the current owners of the property for the following violations: Closure/Post Closure violations 725.212(a) and 725.242(a); Other violations 725.111, 725.353(a), 725.354, 725.401(a), 725.402 and 725.409.

A site reconnaissance inspection was conducted at 1:45 p.m. on November 14, 1989 by Greg Dunn, Ken Corkill and Hernando Albarracin of the Illinois EPA. (No site representatives were contacted prior to or after the reconnaissance.) The facility is bordered by the Chicago, Rock Island and Pacific Railroad on the west, Burr Oak Avenue (127th Street) on the south and Winchester Road on the east. The large area behind Airline Towing (once used as an illegal dump) was graded and partially fenced. The fence did not surround the entire facility and was observed to be in disrepair in some places along Winchester Road. A gate deters access directly into

Airline Towing's property, with the fence (the fence in this area was in good shape) surrounding the east, south and west sides of the buildings. Run-off from the site would flow into a small ditch that runs parallel to the railroad tracks. This ditch does not flow off-site into any surface water.

The geology of the area consists of drift from the surface to 70 feet deep, with Silurian Dolomite (Niagaran and Alexandrian Series) from 70 feet to 430 feet below surface. This dolomite is underlain by the Ordivician aged rocks of the Maquoketa Shale, Galena-Platteville Limestone, St. Peter Sandstone and Prairie du Chien Limestone. The Ordivician age rocks are underlain by the Cambrian age rocks of the Potsdam Sandstone Megagroup, which is the main water-bearing formation (see well logs reference 9).

Private wells in the area of the Chicago Copper and Chemical Company obtain water from the Silurian Dolomite aquifer at depths between 70 and 220 feet deep. The private wells serve approximately 27 people, with the closest well 2.1 miles south southwest of the site. The Chicago Copper and Chemical Company did have a well on-site for use in their operations. The well was drilled in the early 1890's to a depth of 1450 feet, with the well cased to a depth of 48 feet. The location of the well has not been found and the outcome (if the well was properly abandoned) of the well has not been determined. There are no surface water routes available for the migration of contaminants, with surface water run-off flowing into a railroad ditch. Airborne contamination is a route of concern due to the results of soil samples indicating certain heavy metals on the surface. Direct contact by neighborhood children (numerous apartment buildings are on the east side of the facility) is likely because the fence does not entirely surround the facility. Due to the proximity of the private wells, the potential for airborne contaminants and the distance to a residential neighborhood, a medium priority is recommended for this site.

EPA L031042000 2

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D 984774968

II. SITE NAME AND LOCATION

01 SITE NAME (Legal, common, or descriptive name of site)	02 STREET, ROUTE NO., OR SPECIFIC LOCATION IDENTIFIER
Chicago Copper & Chemical Company	Intersection of Winchester Rd. and Burr Oak Ave.

03 CITY	04 STATE	05 ZIP CODE	06 COUNTY	07 COUNTY CODE	08 CONG DIST
Calumet Park	IL	60643	Cook	031	IL-02

09 COORDINATES LATITUDE	LONGITUDE	
41 39 48.8	087 40 13.2	Blue Island, ILL Quad (55a)

10 DIRECTIONS TO SITE (Starting from nearest public road)
Take Interstate 57 to Burr Oak Ave. (127th street). Go west on 127th street. Site is on Northwest corner of 127th and Winchester Road. Now called Airline Towing.

III. RESPONSIBLE PARTIES

01 OWNER (If known)	02 STREET (Business, mailing, residential)
J.R. Bramlett	12658 Winchester

03 CITY	04 STATE	05 ZIP CODE	06 TELEPHONE NUMBER
Calumet Park	IL	60643	(708) 597-0990

07 OPERATOR (If known and different from owner)	08 STREET (Business, mailing, residential)

09 CITY	10 STATE	11 ZIP CODE	12 TELEPHONE NUMBER
			( )

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 05/06/87 (MONTH DAY YEAR)
☐ NO
05/24/89

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
≈ 1885 (BEGINNING YEAR) | _____ (ENDING YEAR) ☐ UNKNOWN

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

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

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
J.R. Bramlett	Airline Towing	(708) 597-0990

04 PERSON RESPONSIBLE FOR ASSESSMENT	05 AGENCY	06 ORGANIZATION	07 TELEPHONE NUMBER	08 DATE
Gregory W. Dunn	IEPA	RPMS	(217) 782-6761	01/08/90 (MONTH DAY YEAR)

EPA FORM 2070-12 (7-81)

EPA

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT
PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D984774968

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 0

CUBIC YARDS ≈ 1800

NO OF DRUMS 0

03 WASTE CHARACTERISTICS (Check all that apply)

- [x] A TOXIC
- B CORROSIVE
- C RADIOACTIVE
- [x] D PERSISTENT
- E SOLUBLE
- F INFECTIOUS
- 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	CY	
OLW	OILY WASTE			
SOL	SOLVENTS			
PSD	PESTICIDES			
OCC	OTHER ORGANIC CHEMICALS			
IOC	INORGANIC CHEMICALS			
ACD	ACIDS			
BAS	BASES			
MES	HEAVY METALS	UNKNOWN	CY	

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
MES	Barium	7440-39-3	PL	74000	mg/kg
MES	Lead	17439-92-1	PL	2350	mg/kg
MES	Copper	7440-50-8	PL	112.5	mg/kg

V. FEEDSTOCKS (See Appendix for CAS Numbers)

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)

Illinois EPA Land Division Files
Visual Site Inspection Conducted 11-14-89
USGS Blue Island, IL 7.5 Minute Quadrangle

EPA

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

I. IDENTIFICATION

01 STATE	02 SITE NUMBER
IL	D 984774968

II. HAZARDOUS CONDITIONS AND INCIDENTS

01 ■ A. GROUNDWATER CONTAMINATION — 02 ☐ OBSERVED (DATE _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ≈30 — 04 NARRATIVE DESCRIPTION

Groundwater is obtained from the Niagaran Limestone, St. Peter Sandstone, Prairie Du Chien limestone and "Potsdam" group. Most wells are cased to the limestone (Niagaran) and are open to the formation used for withdrawing water. Chicago Copper and Chemical did have a well that may not be abandoned properly, creating a conduit for contaminants.

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

None documented or observed.

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

None documented or observed.

01 ☐ D. FIRE/EXPLOSIVE CONDITIONS — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ — 04 NARRATIVE DESCRIPTION

None documented or observed

01 ■ E. DIRECT CONTACT — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: 10,511 — 04 NARRATIVE DESCRIPTION

Site is not entirely fenced, thus allowing direct contact by nearby residents to waste on-site.

01 ■ F. CONTAMINATION OF SOIL — 02 ■ OBSERVED (DATE: 1987) ☐ POTENTIAL ☐ ALLEGED
03 AREA POTENTIALLY AFFECTED: 0.10 (Acres) — 04 NARRATIVE DESCRIPTION

A waste pile approximately 30 yards by 15 yards was found on the southeast corner of the site. The samples taken indicated Copper, Lead and Barium in excess of background or E.P. Tox concentrations

01 ■ G. DRINKING WATER CONTAMINATION — 02 ☐ OBSERVED (DATE: _____) ■ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: ≈30 — 04 NARRATIVE DESCRIPTION

See "A" above. Approximately 11 homes with four miles obtain water from the Niagaran Limestone ranging from 17 feet to 220 feet. The rest of the people obtain water from Lake Michigan.

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

None documented or observed

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

None documented or observed.

EPA

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

I. IDENTIFICATION	
01 STATE	02 SITE NUMBER
IL	D 984774968

II. HAZARDOUS CONDITIONS AND INCIDENTS *(Continued)*

01 ☐ J. DAMAGE TO FLORA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed.

01 ☐ K. DAMAGE TO FAUNA — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION *(Include name(s) of species)*

None documented or observed.

01 ☐ L. CONTAMINATION OF FOOD CHAIN — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed.

01 ☐ M. UNSTABLE CONTAINMENT OF WASTES *(Spills, runoff, standing liquids, leaking drums)* — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED: _____ 04 NARRATIVE DESCRIPTION

None documented or observed.

01 ☐ N. DAMAGE TO OFFSITE PROPERTY — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed

01 ☐ O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs — 02 ☐ OBSERVED (DATE: _____) ☐ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

None documented or observed.

01 ☒ P. ILLEGAL/UNAUTHORIZED DUMPING — 02 ☐ OBSERVED (DATE: _____) ☒ POTENTIAL ☐ ALLEGED
04 NARRATIVE DESCRIPTION

See "F".

05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEGED HAZARDS

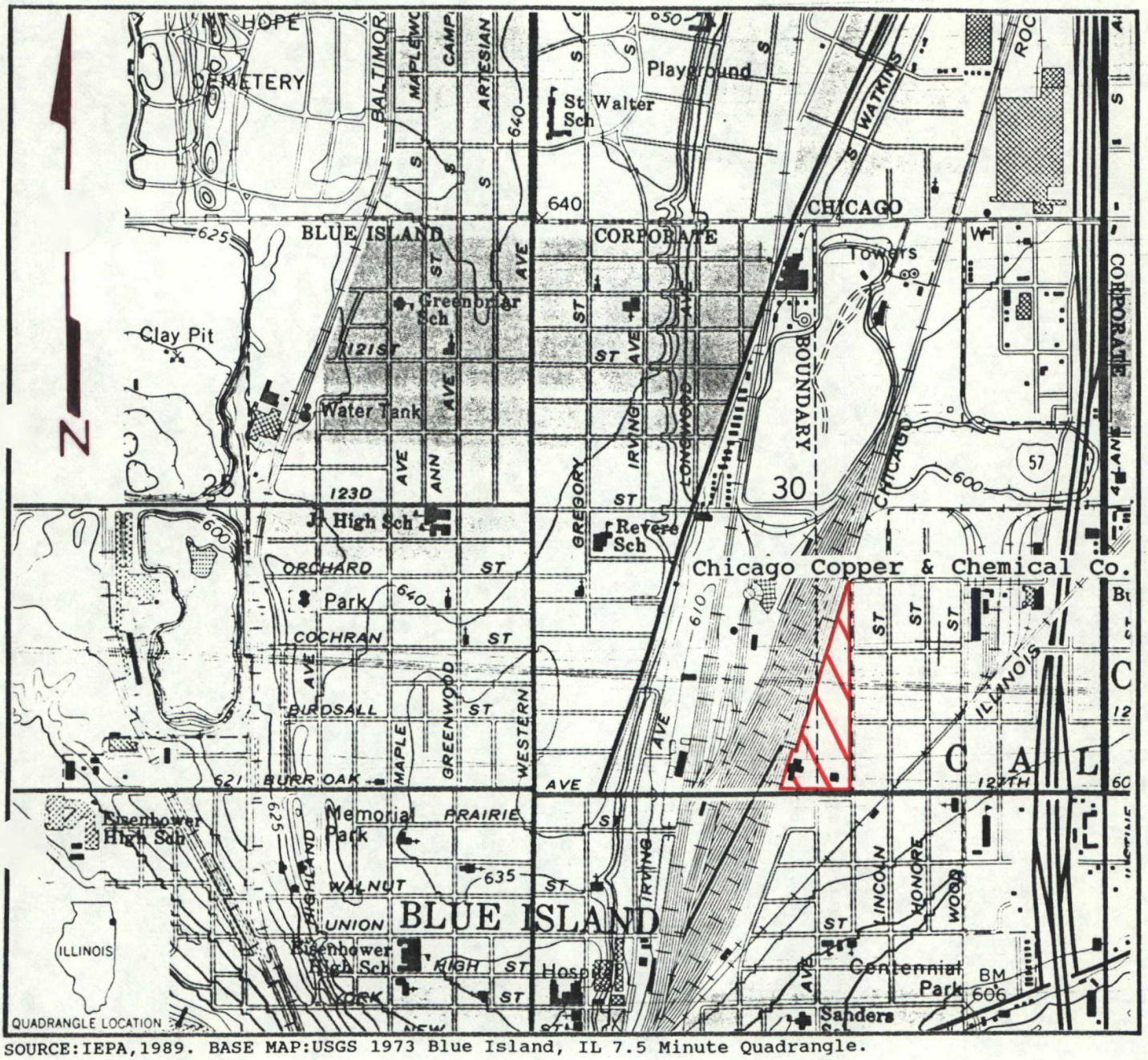
III. TOTAL POPULATION POTENTIALLY AFFECTED: 10,511

IV. COMMENTS

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

Illinois EPA Land Files
Visual Site Inspection on 11-14-89
ISWS Well Logs
ISGS Bulletin 34

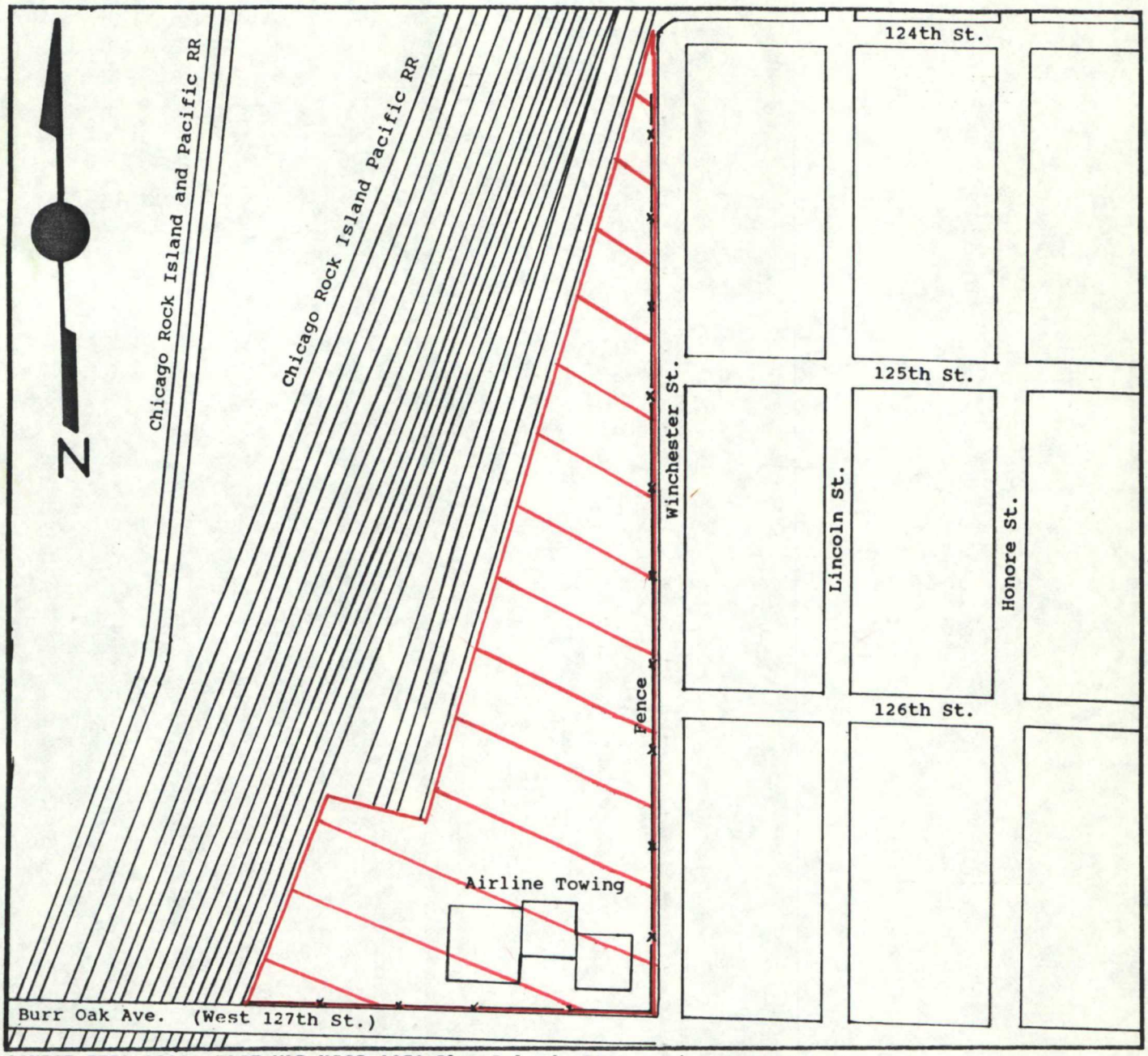
SITE LOCATION



SOURCE:IEPA,1989. BASE MAP:USGS 1973 Blue Island, IL 7.5 Minute Quadrangle.

0 1 MILE

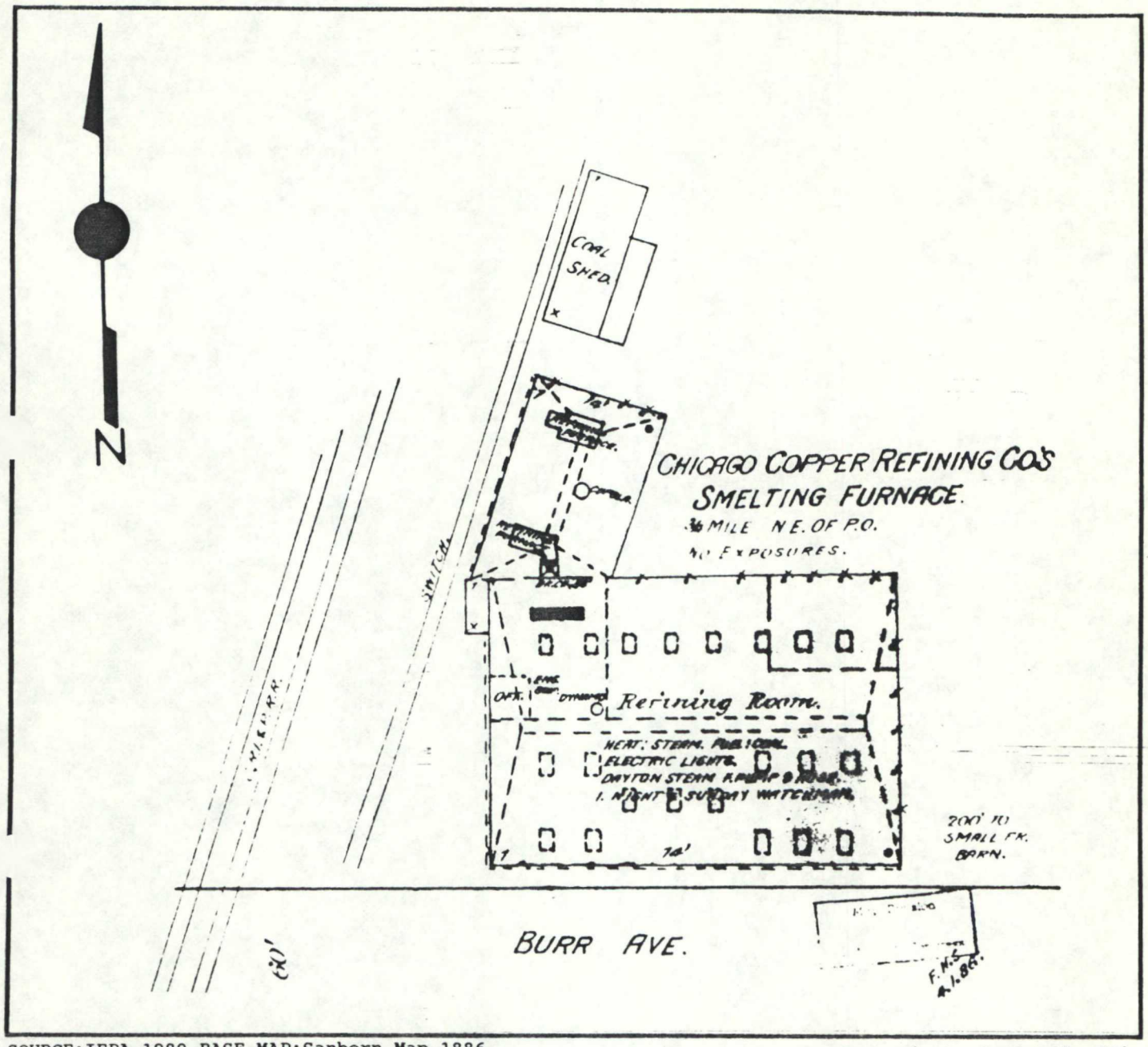
SITE FEATURES



SOURCE:IEPA,1989. BASE MAP:USGS 1973 Blue Island, IL 7.5 Minute Quadrangle.

Approximate Scale 1"= 300'

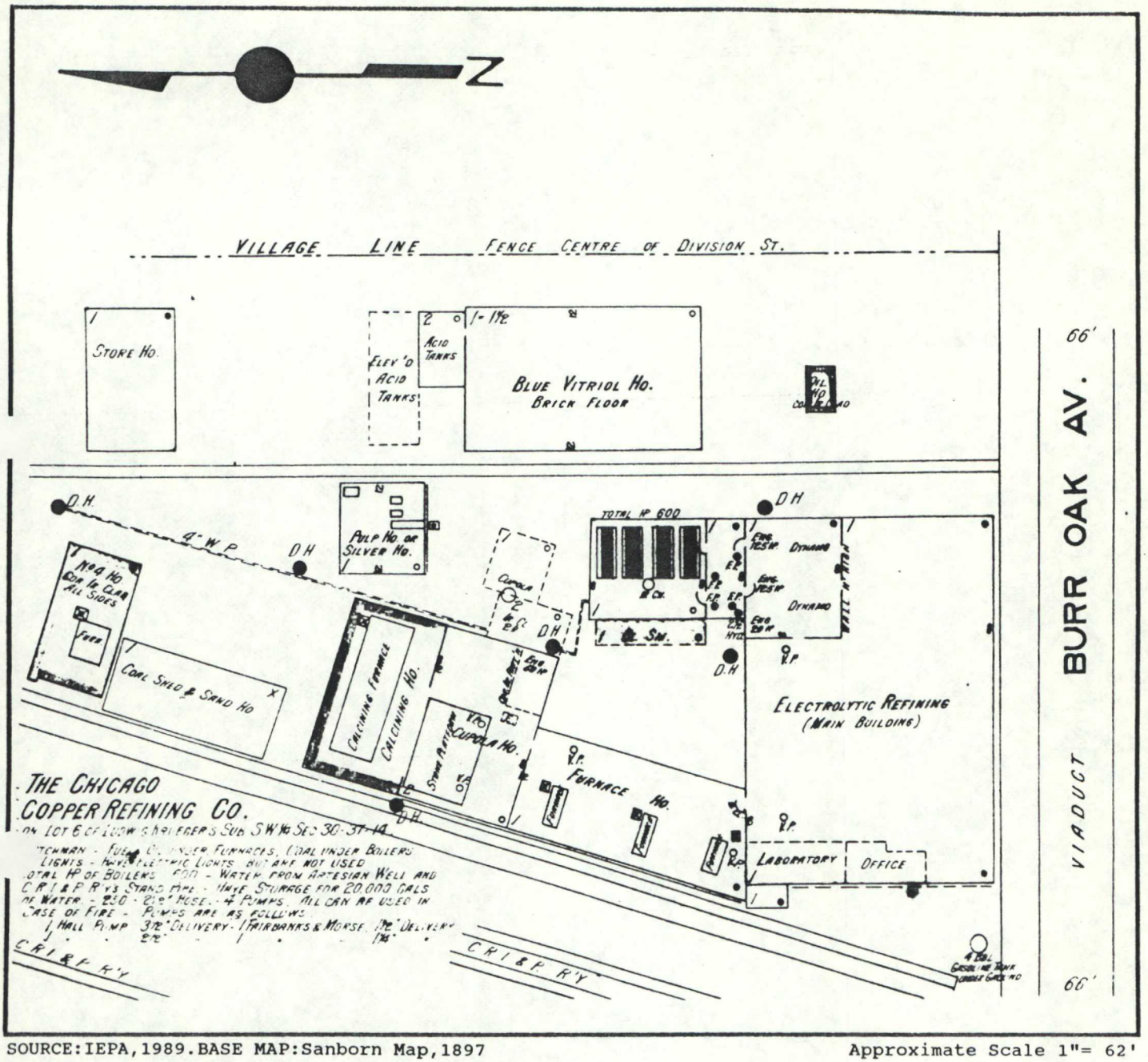
SITE MAP



SOURCE:IEPA,1989.BASE MAP:Sanborn Map,1886.

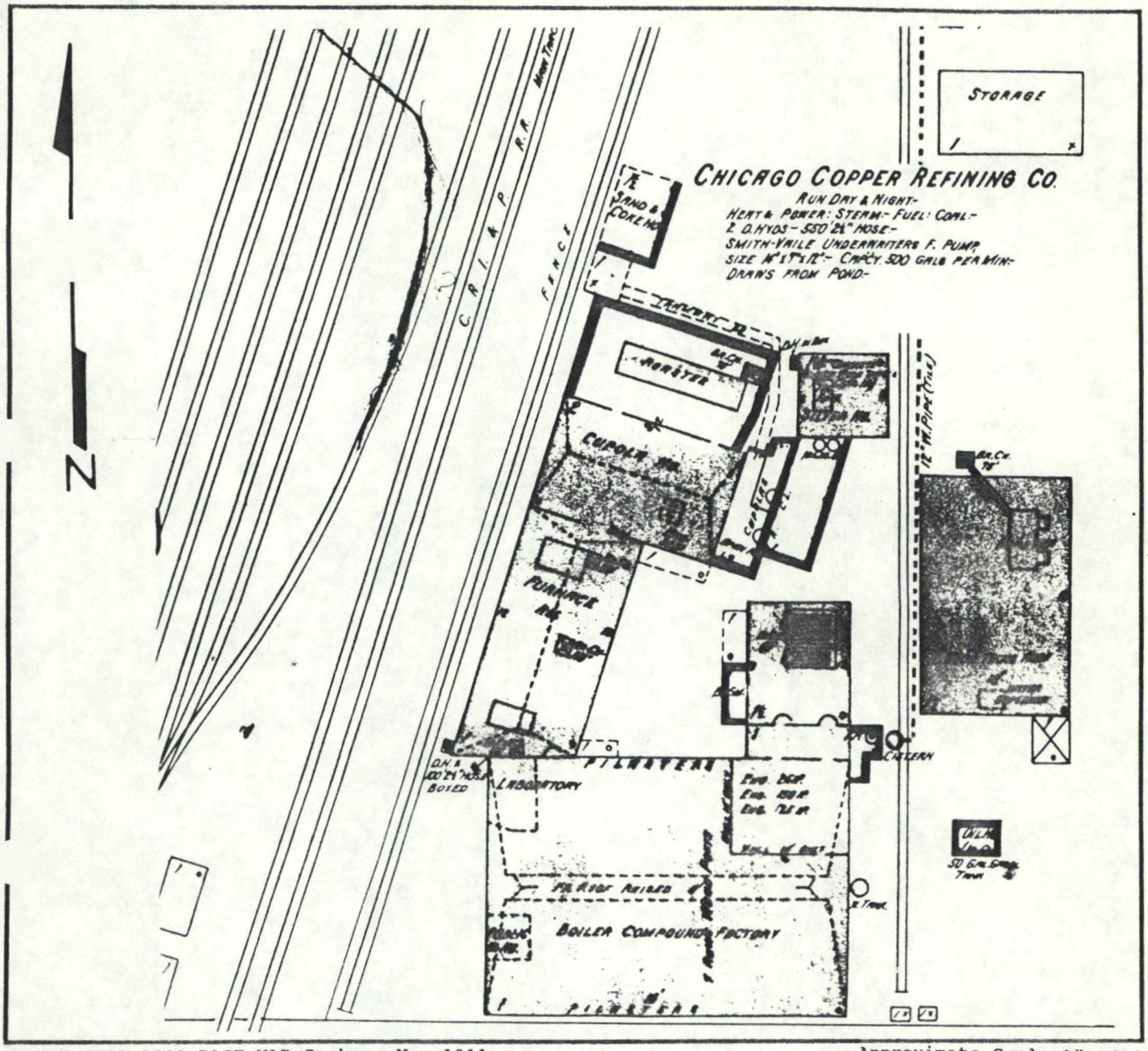
Approximate Scale 1"= 60'

1886 SANBORN FIRE INSURANCE MAP



SOURCE:IEPA,1989.BASE MAP:Sanborn Map,1897 Approximate Scale 1"= 62'

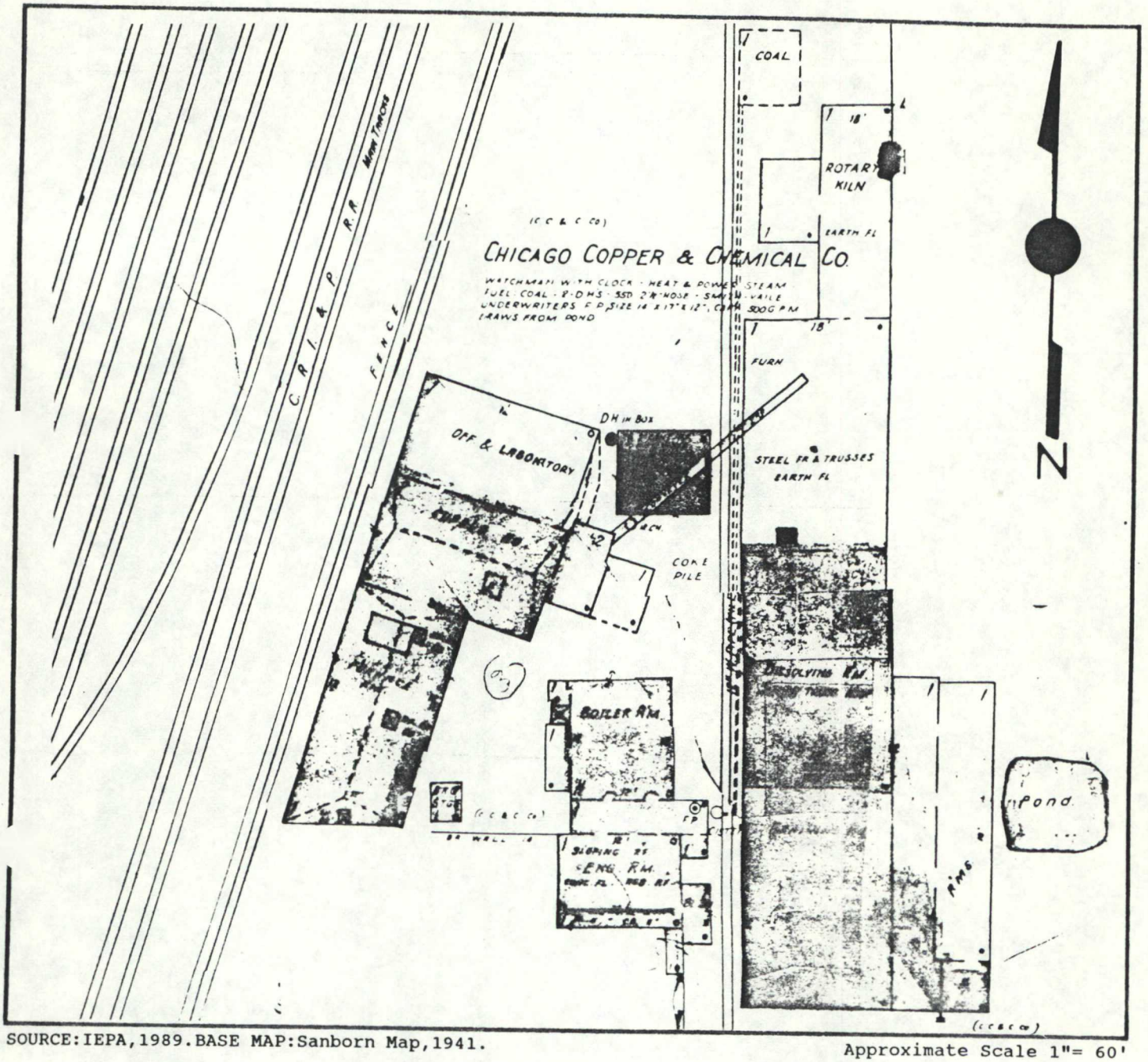
1897 SANBORN FIRE INSURANCE MAP



SOURCE:IEPA,1989.BASE MAP:Sanborn Map,1911.

Approximate Scale 1"= 60'

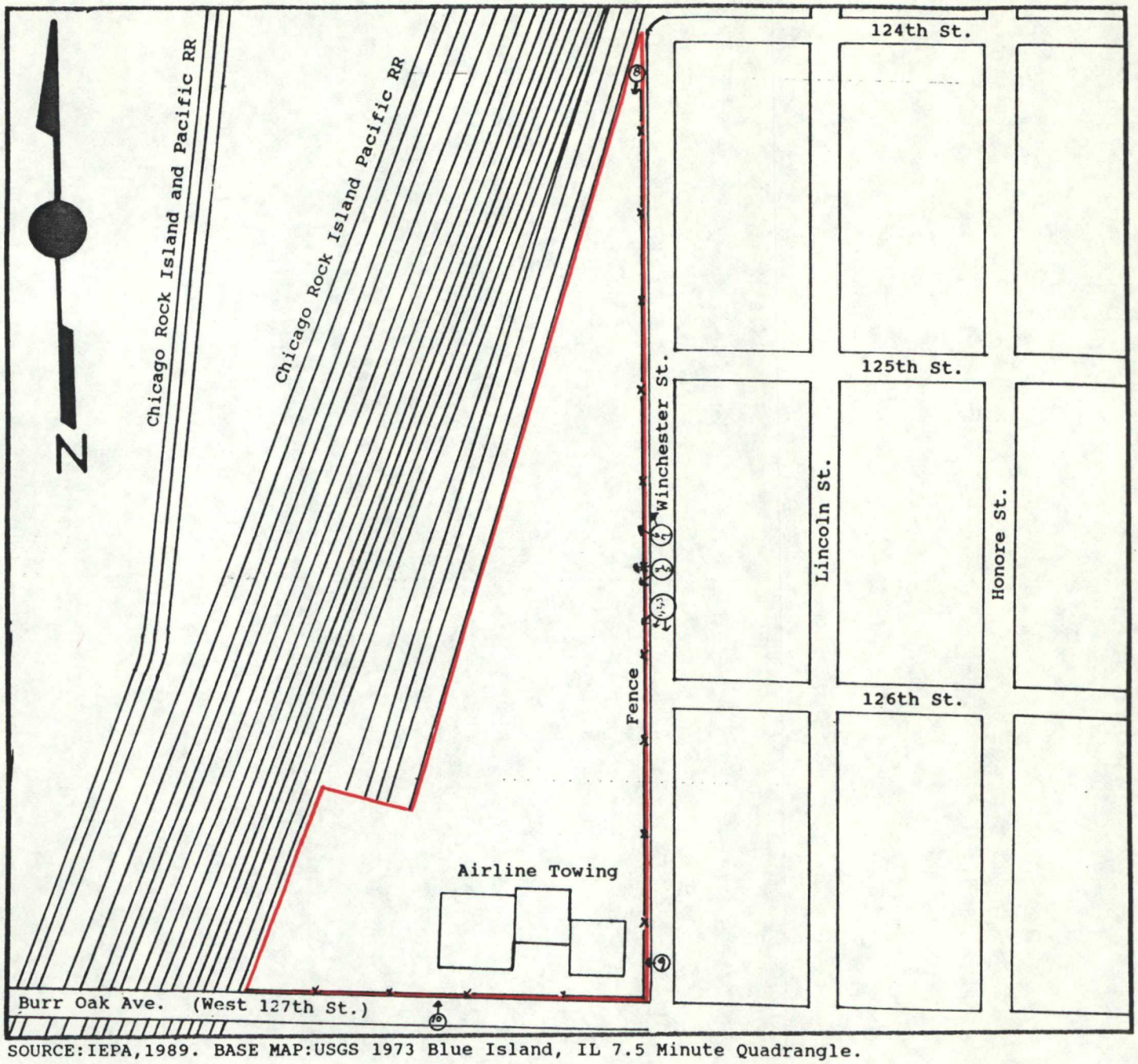
1911 SANBORN FIRE INSURANCE MAP



SOURCE:IEPA,1989.BASE MAP:Sanborn Map,1941.

Approximate Scale 1"= 60'

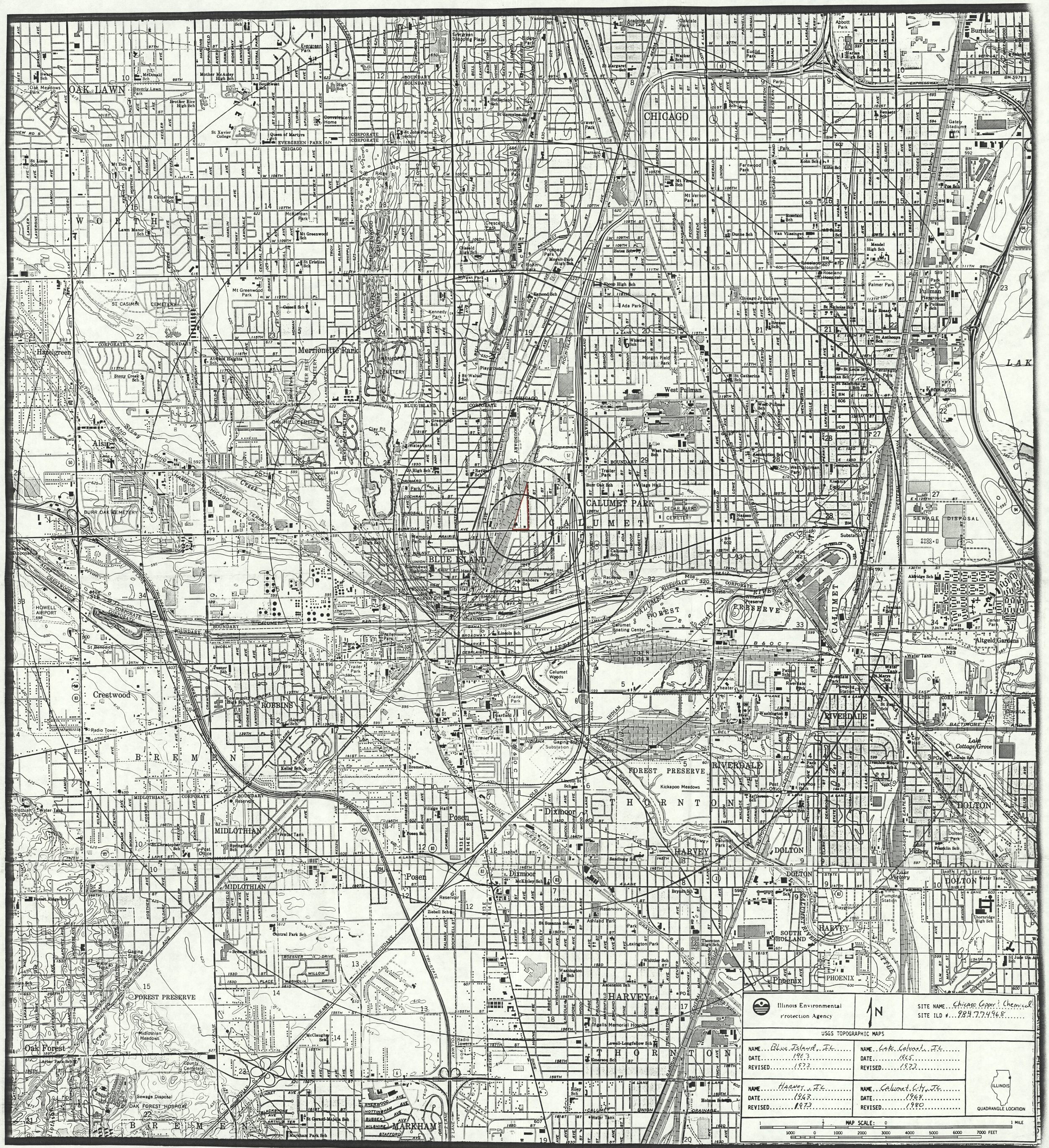
1941 SANBORN FIRE INSURANCE MAP



SOURCE:IEPA,1989. BASE MAP:USGS 1973 Blue Island, IL 7.5 Minute Quadrangle.

Approximate Scale 1"= 300'

PHOTOGRAPH LOCATION MAP


OAK LAWN
CHICAGO
WORTH
Merrionette Park
Hazelgreen
Alsip
BLUE ISLAND
CALUMET PARK
CALUMET
Crestwood
ROBBINS
BREMEN
MIDLOTHIAN
Posen
Dixmoor
FOREST PRESERVE
THORNTON
HARVEY
DOLTON
RIVERDALE
SOUTH HOLLAND
Phoenix
PHOENIX
Oak Forest
MARKHAM
Kensington
West Pullman
Burnside
Altgeld Gardens
Lake Cottage Grove
SEWAGE DISPOSAL
HOWELL AIRPORT
Illinois Environmental Protection Agency
N
SITE NAME Chicago Copper & Chemical
SITE ILD # 984774968
USGS TOPOGRAPHIC MAPS
NAME Blue Island, Ill.
DATE 1963
REVISED 1973
NAME Lake Calumet, Ill.
DATE 1965
REVISED 1972
NAME Harvey, Ill.
DATE 1963
REVISED 1973
NAME Calumet City, Ill.
DATE 1968
REVISED 1980
ILLINOIS
QUADRANGLE LOCATION
MAP SCALE: 1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

DATE: November 14, 1989

TIME: 1:45 p.m.

Photograph by:

Greg Dunn

Location: L031042 0002 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward

south, southsouthwest and

Southwest at the area behind

facility

1, 2, 3

DATE:

TIME:

Photograph by:

Location:

Comments: Picture taken toward

DATE: November 14, 1989

TIME: 1:45 pm

Photograph by:

Greg Dunn

Location: 1031042000 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward

west and west northwest

at the area behind the

city.

4,5

DATE:

TIME:

Photograph by:

Location:

Comments: Picture taken toward

DATE: November 14, 1989

TIME: 1:45 pm

Photograph by:

Greg Dunn

Location: L0310420002 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward

Northwest and north at

the area behind the facility.

6,7

DATE:

TIME:

Photograph by:

Location:

Comments: Picture taken toward

DATE: November 14, 1989

TIME: 1:50 pm

Photograph by:

Greg Dunn

Location: L0310420002 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward south at the area behind the facility, where pond and old waste pile were located

8

DATE: November 14, 1989

TIME: 1:55 pm

Photograph by:

Greg Dunn

Location: L0310420002 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward west at front gate of current owner of property.

9

DATE: November 14, 1989

TIME: 2:00 pm

Photograph by:

Greg Dunn

Location: L0310420002 -- Cook Co.

Chicago Copper & Chemical

ILD 984774968

Comments: Picture taken toward

North at the garage area

of the current owner

10

DATE:

TIME:

Photograph by:

Location:

Comments: Picture taken toward

NO

Picture

Supporting Documentation

REFERENCE SHEET

Reference 1 Statement of Incorporation filed December 23, 1911.

Reference 2 Articles of Incorporation filed January 8, 1912.

Reference 3 Illinois State Water Survey, 1943 Bulletin 35, Ground Water Supplies of the Chicago-Joliet-Chicago Heights Area, p.102.

Reference 4 IEPA Inspection conducted May 6, 1987.

Reference 5 Soil analyses from May 6, 1987 sampling.

Reference 6 Title Search on Chicago Copper and Chemical Company, October 10, 1988.

Reference 7 IEPA Inspection conducted May 24, 1989.

Reference 8 IEPA Inspection conducted on October 3, 1989.

Reference 9 Well logs from the area.

Reference 10 Telephone conversation with Gary Kozlowski, water operator for Blue Island, Illinois on January 16, 1990.

REFERENCE NUMBER 1

State of Illinois, } ss.
Cook County.

45.00 pd 12/53/11 150

To JAMES A. ROSE, Secretary of State:

We, the undersigned, Winthrop Coolidge, Charles R. Foster and Frank A. Simmons

propose to form a corporation under an act of the General Assembly of the State of Illinois entitled "An Act Concerning Corporations," approved April 18, 1872, and all acts amendatory thereof: and that for the purposes of such organization we hereby state as follows, to-wit:

1. The name of such corporation is Chicago Copper and Chemical Company

2. The object for which it is formed is the buying, selling, dealing in, refining, manufacturing, and treatment of ores, metals, alloys, minerals and chemicals

3. The capital stock shall be one hundred and fifty thousand dollars

4. The amount of each share is one hundred dollars

5. The number of shares fifteen hundred

6. The location of the principal office is in Chicago in the County of Cook State of Illinois.

7. The duration of the Corporation shall be Ninety-nine years.

Winthrop Coolidge
Charles R. Foster
Frank A. Simmons

STATE OF ILLINOIS, } ss.
County of Cook

I, John P. Ahrens, *a Notary Public in and for the* ——— *County and State aforesaid, do hereby certify that on this* 20th *day of* December *A. D. 19*11, *personally appeared before me* Winthrop Coolidge, Charles R. Foster and Frank Simmons

to me personally known to be the same persons who executed the foregoing statement, and severally acknowledged that they had executed the same for the purposes therein set forth.

In Witness Whereof, *I have hereunto set my hand and seal, the day and year above written.*

John P. Ahrens
Notary Public.

Chicago Copper
Chemical Company

TEMENT OF INCORPORATION

FILED
DEC 23 1911
James A. Rose
SECRETARY OF STATE

...S. Cole & Co., Stationers and Printers, Chicago
John P. Ahrens
710 # 74 W Wash.
Chicago Ill

REFERENCE NUMBER #2

Articles of Incorporation

of

Chicago Copper and Chemical Company Mfg

Box 1188 No. 72856

FILED
JAN 8 1912
James A. Rose
SECRETARY OF STATE

415

(1358-3M) 2 G2216

STATE OF ILLINOIS

Department of State

JAMES A. ROSE, Secretary of State

To All to Whom these Presents Shall Come.—GREETING:

WHEREAS, a **STATEMENT,** duly signed and acknowledged, has been filed in the office of the Secretary of State, on the 22nd day of December A. D. 1911, for the organization of the Chicago Copper and Chemical Company

under and in accordance with the provisions of "AN ACT CONCERNING CORPORATIONS," approved April 18, 1872, and in force July 1, 1872, and all acts amendatory thereof, a copy of which statement is hereunto attached:

AND WHEREAS, a **LICENSE** having been issued to Winthrop Coolidge, Charles R. Foster and Frank R. Simmons

as Commissioners to open books for subscription to the Capital Stock of said Company;

AND WHEREAS, the said Commissioners have, on the 8th day of January A. D. 1912, filed in the office of the Secretary of State, a report of their proceedings under the said License, a copy of which report is hereunto attached:

Now, Therefore, I, JAMES A. ROSE, Secretary of State of the State of Illinois, by virtue of the powers vested in me by law, do hereby certify that the said Chicago Copper and Chemical Company

is a legally organized Corporation under the laws of this State

In Testimony Whereof, I hereto set my hand and cause to be affixed the Great Seal of State.

Done at the City of Springfield, this 8th day of January A. D. 1912, and of the Independence of the United States the one hundred and 36th

(Seal)

James A. Rose
Secretary of State.

(004)

(122 5M 11 10)

STATE OF ILLINOIS

Department of State

JAMES A. ROSE, Secretary of State

To All To Whom These Presents Shall Come.---Greeting:

Whereas, *It being proposed by the persons hereinafter named to form a Corporation under an Act of the General Assembly of the State of Illinois, entitled, "An Act Concerning Corporations," approved April 18, 1872, in force July 1, 1872, and the amendments thereto, the object and purposes of which corporation are set forth in a statement duly signed and acknowledged according to law, and this day filed in the office of the Secretary of State.*

Now, Therefore, *I, James A. Rose, Secretary of State of the State of Illinois, by virtue of the power vested in and the duties imposed upon me by law, do hereby authorize, empower and license*

WINTHROP COOLIDGE,
CHARLES R. FOSTER and
FRANK A. SIMMONS,

the persons whose names are signed to the before-mentioned statement, as Commissioners to open books for subscription to the Capital Stock of

CHICAGO COPPER AND CHEMICAL COMPANY,

such being the name of the proposed corporation, as contained in the statement, at such times and places as the said Commissioners may determine.

In Testimony Whereof, *I hereto set my hand and cause to be affixed the Great Seal of State.*

Done at the City of Springfield, this 23rd *day of* December *A. D. 19*11*, and of the Independence of the United States the one hundred and* 36th.

(SEAL)

JAMES A. ROSE,
Secretary of State.

(002)

102-13M-11-10

To JAMES A. ROSE,

Secretary of State of the State of Illinois:

The Commissioners, duly authorized to open Books of Subscription to the Capital Stock of Chicago Copper and Chemical Company pursuant to license heretofore issued, bearing date the 23rd day of December A. D. 19 11, do hereby report that they opened books of Subscription to the Capital Stock of said Company, and that the said Stock was fully subscribed; that the following is a true copy of such subscription, viz:

We, the undersigned, hereby severally subscribe for the number of shares set opposite our respective names, to the Capital Stock of Chicago Copper and Chemical Company and we severally agree to pay the said Company, for each share, the sum of ~~XXXXX~~ Dollars One Hundred Dollars.

NAME	SHARES	AMOUNT
Winthrop Coolidge	948	$94800 00
F. H. Griggs: Thomas W. Griggs	550	$55000 00
Charles R. Foster	1	$ 100 00
Frank A. Simmons	1	$ 100. 00
	1500	150000

Amount or capital stock actually paid in - - $ 150000.00

Amount of capital stock not paid in -None - - $

Stock subscribed and not paid, disposed of as follows: None

Amount of Capital Stock actually paid in in cash 200.00

Capital paid in property appraised as follows:-

A secret process of manufacturing Barium Hydrate and processes of manufacturing other Barium Compounds and processes of smelting and refining metals, ores and alloys and materials on hand possessed by Winthrop Coolidge, and the good will of the said Winthrop Coolidge in the business of manufacturing, selling and dealing in the products thereof, appraised at - - - - - - - - - - - - - - $94800.00

The undivided one half of that certain tract or parcel of real estate situated in the County of Cook and State of Illinois, particularly described as follows, to wit: The undivided one half of that part of Lot Six (6) lying East of the Chicago Rock Island & Pacific Railroad ground in Ludwig Krueger's Subdivision of the East half of the South west quarter and Lots Five (5) and Six (6) of the west Half of the south West quarter of Section Thirty (30) Township Thirty-Seven (37) North, of Range Fourteen (14) East of the Third (3rd) Principal Meridian, together with an undivided half of all the buildings, machinery, smelting furnaces, electrical apparatus and other appliances and fixtures, comprising a copper refining plant and a plant for manufacturing Barium Hydrate and other Barium Compounds and for smelting and refining, treating and manufacturing ores, metals, alloys, minerals and chemicals, erected and situated on said real estate, said undivided half appraised at - - - - - - - - - $55000.00

That on the 6th day of January A. D. 1912, at Room No. 810 No. 74 W. Washington Street, Chicago Illinois, at the hour of 10 o'clock A M., they convened a meeting of the subscribers aforesaid, pursuant to notice required by law, which said notice was deposited in the postoffice, properly addressed to each subscriber, ten days before the time fixed therein, a copy of which said notice is as follows, to-wit:

To

You are hereby notified that the Capital Stock of Chicago Copper and Chemical Company has been fully subscribed, and that a meeting of the subscribers of such stock will be held at Room No. 810 No. 74 W. Washington Street, Chicago, Illinois, on the 8th day of January A. D. 19 12, at 10 o'clock A M., for the purpose of electing a Board of Directors for said Company and for the transaction of such other business as may be deemed necessary.

Signed,

Winthrop Coolidge
Charles R. Foster
Frank A. Simmons
} Commissioners.

That said subscribers met at the time and place in said notice specified, and proceeded to elect Directors and that the following persons were duly elected for the term of one year, viz:

Thomas W. Griggs	Charles R. Foster
W. G. Coolidge	Frank A. Simmons
Winthrop Coolidge	

And that the postoffice address of the business office of said Company is at Room Number 614 No. 111 W. Jackson Boulevard ~~Street~~ in the City of Chicago in the County of Cook and State of Illinois.

Winthrop Coolidge
Charles R. Foster
Frank A. Simmons
} Commissioners.

STATE OF ILLINOIS,

County of Cook } ss.

On this 6th day of January A. D. 1912, personally appeared before me, a Notary Public, in and for said County, in said State, Winthrop Coolidge, Charles R. Foster and Frank A. Simmons.

and made oath that the foregoing report by them subscribed is true in substance and in fact.

John P. Thomas, Notary Public.

FILED
JAN 3
1912

REFERENCE NUMBER 3

COOK COUNTY
TOWNSHIP 37 NORTH; RANGE 14 EAST

Section	29	30	32	33
Owner	Whitman & Barnes Mfg. Co.	Chicago Copper & Chemical Co.	Calumet Park	Riverdale-City Well
Location	1210'W-810'S of NE. Sec. Cor. 120th St. between Morgan & Racine	2500'E-250'N of SW. Sec. Cor.	2050'W-1130'S of NE. Sec. Cor.	
Driller	J. P. Miller Co.		C. E. Kramer	
Date Drilled	1893	1891		1902
Depth	1308'	1449'	99'	430'
Diameter		6"		12" top-8" bottom
Status		In use	In use	Retired ('21)
S. L. Elevation				
Ground		608'	601'	601'
Static Max			579*	568 ('21)
Static Min				586 ('10)
Av. G. P. D.				
Yield g. p. m.				120 (test)
Drawdown				
Date				1902
Use				City water
Analysis No.		27954		30853
Remarks		48' of casing (6") Rock at 40'	*(256)	(257)

102

TOWNSHIP 38 NORTH; RANGE 12 EAST

Section	1	1	1	1	1	1	1
Owner		McBride Woods	McBride Woods	Cermak Park	Lyons Village Well 1	Lyons Village Well 2	L. H. Warren & Son
Location	450'W-2350'N of SE. Sec. Cor.	600'W-2000'S of NE. Sec. Cor.	1150'W-2400'N of SE. Sec. Cor.	2150'E-700'S of NW. Sec. Cor.	50' S. of No. 2 well	NE. Cor. Collins & Joliet Road	7700 Joliet Road, Lyons
Driller	Ed Gutzler	Ed Gutzler	Ed Gutzler	Ed Gutzler		Wm. Cater	
Date Drilled					1908 (?)	1929	
Depth	176'	66'	80'	200'	1595'	2020'	50'
Diameter							
Status	In use	In use	In use	In use	Retired ('29)	In use	In use
S. L. Elevation							
Ground	608'	608'	606'	603'	618'	618'	
Static Max					513 ('08)		
Static Min					362 ('28)	313 ('36)	
Av. G. P. D.	400	400	400	400		200,000*	500
Yield g. p. m.							
Drawdown							
Date							
Use	General	General	General	General	City water	City water	Greenhouse
Analysis No.					*	67100	90021
Remarks	26' of casing	25' of casing	68' of casing	2' of casing	*(258)	*(259)	

TOWNSHIP 38 NORTH; RANGE 12 EAST—Continued

Section	1	4	4	4	4	4	4
Owner	L. H. Warren & Son	LaGrange City Well No. 1	LaGrange City Well No. 2	LaGrange City Well No. 3	LaGrange City Well No. 4	North Shore Electric Co.	Western United Gas & Electric Co.
Location	7700 Joliet Road, Lyons	Elm St., between Brainard & Stone	Elm St., between Brainard & Stone	Elm St., between Brainard & Stone	1200'W-2600'S of NE. Sec. Cor.	130 S. Stone St., LaGrange	200'W-450'N of SE. Sec. Cor.
Driller			J. P. Miller Co.	Repaired by F. M. Gray, Jr. (1924)	Wm. Cater		
Date Drilled		1889	1890	1889	1928		
Depth	100'	2014'	2014'	1962'	2008'	2024'	790'
Diameter		16" top-4" bottom	16" top-4" bottom	15" top-7" bottom			
Status	In use	Retired	Retired	Retired	In use	In use	In use
S. L. Elevation							
Ground		640'	640'	640'	629'*		628'
Static Max				593 ('10)			
Static Min				505 ('24)			
Av. G. P. D.	500	370,000 ('12)			1,000,000 ('25)	50,000	50,000
Yield g. p. m.			900	700			
Drawdown			6	18			
Date			1910	1925			
Use	Greenhouse	City water	City water	City water	City water		Boilers
Analysis No.	90022	39919-94269	27953	27955-94270	68994	15475	
Remarks				(260)	*Top of casing 631.50 Rock at 20'		

103

TOWNSHIP 38 NORTH; RANGE 12 EAST—Continued

Section	5	5	6	6	6	6	6
Owner	Nazareth Academy New H. S. Bldg.	Jim Masck	Western Springs Well No. 1	Western Springs Well No. 2	Western Springs Test Well No. 1	Bowler Gravell Wall Well	Western Springs Well No. 4
Location	200 N. Brainard, LaGrange	2500'E-1200'N of SW. Sec. Cor.	Near Springs	Wolf Road Pump Sta.	Hilgrove St.	Near Test Well No. 1	Johnson & Hilgrove
Driller	J. P. Miller Well Co.			S. B. Geiger	Ayers & France		D. L. Showalter
Date Drilled	1926		1914	1924			1930
Depth	1902'	125'	2046'	385'	70'		312'
Diameter	15" top-8" bottom		16" top-7" bottom	16"	30" top-10" bottom		
Status	In use	In use	Retired ('24)	In use	Not in use	Not in use	In use
S. L. Elevation							
Ground		667'	648'	675'	640'		630'
Static Max			633 ('14)	635 ('24)			568 ('31)
Static Min				616 ('31)			
Av. G. P. D.	3,000	400		160,000			100,000
Yield g. p. m.	450		110	500			500
Drawdown			150	11			22.5
Date			1914	1925			1930
Use	School	Farm	City water	City water	City water	City water	City water
Analysis No.	65370		25298-27280-27379-30698*	66434*	62476		82579
Remarks		56' of casing Rock at 56'	*(261)	*See 82578 Casing (16") Rock at 40'	Drift		Rock at 35'

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
INSPECTION REPORT

REFERENCE NUMBER #4

USEPA Number: NON-NOTIFIER IEPA Number: 031042000

Facility Name: AIRLINE TOWING INC.

Street: 12658 WINCHESTER
City: CALUMET PARK Telephone: (312) 597-0990
County: COOK State: IL Zip Code: 60643

Type of Facility: Notified As: ~~NON-NOTIFIER~~ NON FILER Regulated As: TBD (Gen/TSD/Disposal/Storage)
LDF? yes TBD no __ HPV? yes TBD no __ 90 Day Follow-up Required? yes TBD no __

Region: II Date of Inspection: 5/6/87 From: 2:15 P.M. to 3:30 P.M.
Weather (LDF Only): 65°, SUNNY

Type of Inspection
ISS: ✓ Sampling: __ Citizen Complaint: __ Closed: __ Withdrawal: __
Record Review: __ Follow-up to Inspection of _____: __ Other: __

Non Regulated Status
Small Quant. Gen:: __ Claimed Nonhandler: __ Other(Specify in narrative): __

Notified As/Regulated As Matrix Number: 44 Key Letter: E

Notification date, ~~NON-NOTIFIER~~ from initial __ or subsequent __ notification.

Part A date, NONE, from initial __ or amended __ Part A.

Part B permit application submitted? yes __ no ✓

Has the firm been referred to: USEPA? yes __ no ✓; IAG? yes __ no ✓; County States Attorney? yes __ no ✓. Date of referral to USEPA: NA, IAG: NA, County States Attorney: NA.

Federal Court Order Issued: NA State Court Order Issued: NA

USEPA Compliance Order Issued: NA Illinois PCB Order Issued: NA

TSD Facility Activity Summary

Activity(By Process Code)	On Pt A	Activity Conducted Prior to 1980	Was Activity Ever Done	Closed	Being Done at Time of Inspection	Exempt From Regulation per 35 IAC, Section:	On Annual Report For 86	85	84
S03	N	N?	Y	N	Y	N	N	N	N
D80	N	?	Y	N	Y	N	N	N	N

RECEIVED
MAY 30 1987
IEPA-DLPC

E

Operator: J.R. BRAMLETT Telephone #: 597-0990

Street: 12658 WINCHESTER

City: CALUMET PARK State: IL Zip Code: 60643

Owner: J.R. BRAMLETT Telephone #: 597-0990

Street: 12658 WINCHESTER

City: CALUMET PARK State: IL Zip Code: 60643

Person Interviewed	Title	Telephone #
J.R. BRAMLETT		597-0990

Inspection Participants	Agency/Title	Telephone #
GINO BRUNI	IEPA/EPS	345-9780
TODD MARVEL	IEPA/LSCT	345-9780

Prepared By	Agency/Title	Telephone #
GINO BRUNI/TODD MARVEL	IEPA/EPS	345-9780

Summary of Apparent Violations

Area	Class	Section
OTH	I	722.111

Area	Class	Section

Area	Class	Section

RECEIVED
[illegible] 0 1987
IEPA-DLPC

WASTE DISPOSITION FORM

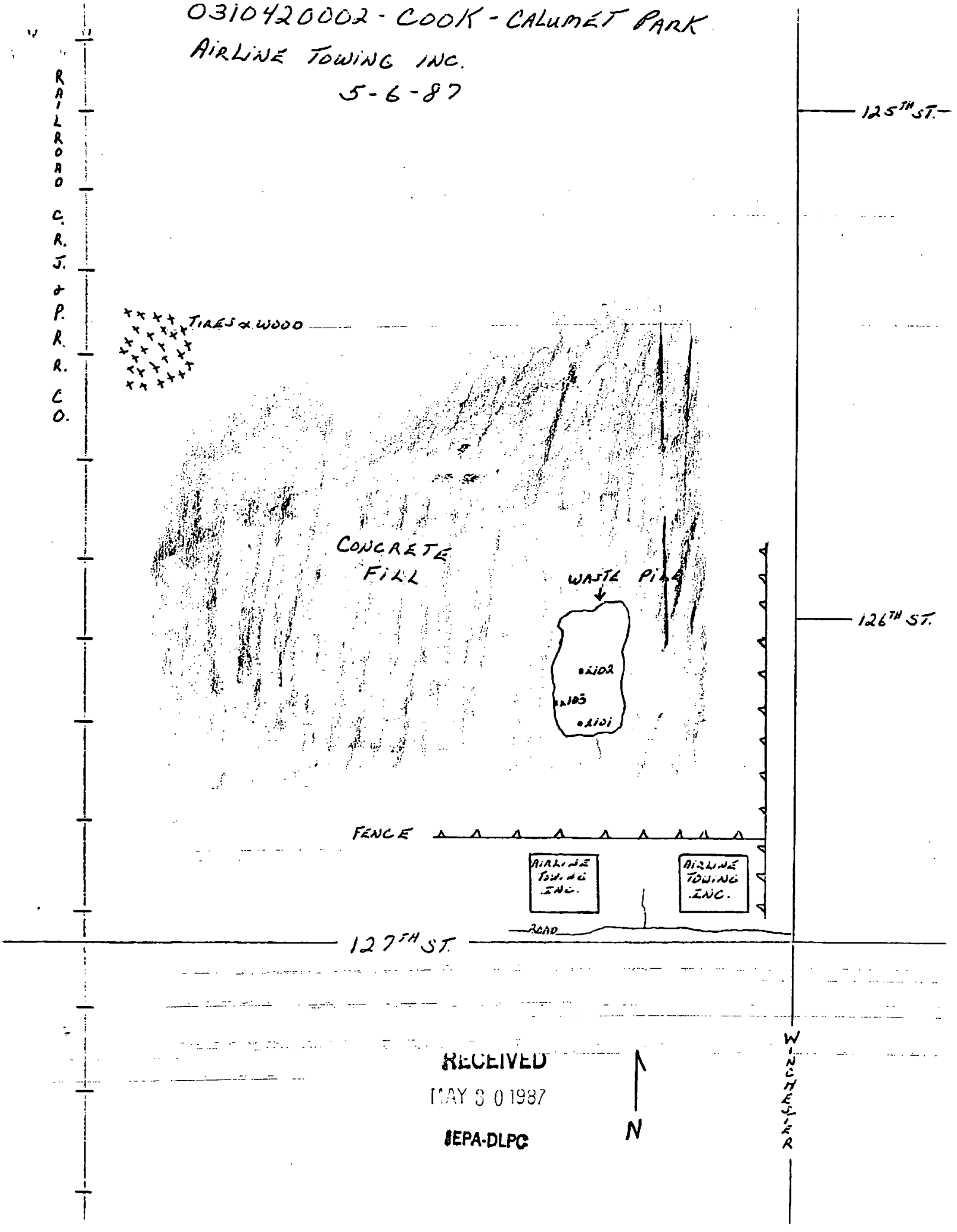
Facility Name: AIRLINE TOWING INC. USEPA #: NON-NOTIFIER IEPA #: 0310420007

Waste Name (Include haz & non-haz special & waste for which no determination has been made)	Generating Process (For waste gen. on site. N/A for TSD)	Date of Last Analysis	USEPA Haz Waste #	On 8700-12 *	On 3510-3 *	On Annual Rpt For 86 *	85 *	84 *	Amount On Site	Rate of Generation	Last Manifested Shipment	Dispsition
UNKNOWN	UNKNOWN	UNKNOWN	UNKNOWN	N	N	N	N	N	30x15x12 (YDS.)	UNKNOWN	NOT MANIFESTED	UNKNOWN

RECEIVED MAY 0 0 1987 IEPA-DLPC

* All "no" responses must be explained in the narrative

0310420002 - COOK - CALUMET PARK
AIRLINE TOWING INC.
5-6-87



RECEIVED
MAY 30 1987
IEPA-DLPC

RECEIVED
MAY 30 1987
IEPA-DLPC

NARRATIVE

STOPPED AT SITE TO INVESTIGATE COMPLAINT(CB7-199) CONCERNING WASTE PILE OF POSSIBLY HAZARDOUS WASTE BEING GRADED DOWN. THIS IS THE FORMER LOCATION OF COPPE CHEMICAL COMPANY. THE BUILDING NO LONGER EXISTS AND THE FOUNDATION AND VACANT PROPERTY IS BEING COVERED WITH DEBRIS. NO ONE WAS ON SITE AND THE AREA WAS ONLY PARTIALLY ENCLOSED. WE PROCEEDED ON SITE AND OBSERVED CONCRETE, WOOD AND TIRES. LARGE SLABS OF CONCRETE WERE OBSERVED UNCOVERED OVER THE MAJORITY THE SITE. SEVERAL TIRES WERE OBSERVED NEAR THE NORTHWEST CORNER ALONG WITH PIECES OF WOOD (SEE DIAGRAM AND PHOTOS).

A LARGE WASTE PILE OF SANDY/PEBBLE-LIKE MATERIAL WAS OBSERVED CONSISTING OF LAYERS OF COLORE MATERIALS (WHITE, YELLOW, ORANGE, RED, GRAY AND DARK GREEN). THIS PILE WAS APPROXIMATELY 30YDS. X 15YDS AND APPROXIMATELY 12 FT. HIGH. THREE SAMPLES ERE TAKEN OF THE WASTE PILE AT VARIOUS LOCATIONS (SEE DIAGRAM AND PHOTOS). TESTS REQUESTED INCLUDE E.P. TOXICITY, TOTAL METALS (INCLUDING COPPER), pH AND THE RESULTS ARE PENDING AT THE CHICAGO LAB.

THE OWNER OF THE PROPERTY, WHEN CONFRONTED WITH QUESTIONS REGARDING THE SITE, BECAME VERBALLY ABUSIVE AND STATED: "NOW GET THE [redacted] OUT."

SEE SOLID WASTE INSPECTION REPORT (5/16/87) FOR ORIGINAL PHOTOS.

NARRATIVE

THE FOLLOWING VIOLATIONS WERE OBSERVED:

1) 722.111 - REQUIRED DETERMINATION HAS NOT BEEN MADE.

IF THE DETERMINATION DISCLOSES THAT THE WASTE IS HAZARDOUS, AIRLINE TOWING WOULD BE IN VIOLATION OF APPLICABLE GENERATOR STANDARDS AND THE REQUIREMENTS OF PART 725.

RECEIVED
MAY 30 1987
IEPA-DLPC

(1) Soil
(2) Waste
(3) Other

Sampling Purpose 04
Program Code LP 42

Unit Code K

01 - Special Request
02 - Criminal Enforcement
03 - Emergency response
04 - Routine Sampling

C702273

REFERENCE NUMBER #5

Time Collected: ~3:00pm

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 5-6-87

Date Received 5-7-87, 10:30Am

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

X 101

COUNTY: COOK

FILE HEADING: C87-199N-COOK-CALUMET PARK/AIRLINE TOWING INC

FILE NUMBER: C87-199N

SOURCE OF SAMPLE: (Exact Location) WASTE PILE LOCATED WEST OF WINCHESTER Rd. NORTH OF 127TH STREET. NORTH OF AIRLINE TOWING INC. 12658 WINCHESTER, CALUMET PARK. (597-0990)

PHYSICAL OBSERVATIONS, REMARKS: WHITE & YELLOW SANDY/PEBBLE LIKE MATERIAL.

TESTS REQUESTED: E.P. TOX, TOT. METALS INCLUDE COPPER, PH USE S.W. 846

COLLECTED BY: GINO BRUNI

TRANSPORTED BY: TODD MARUEL

LABORATORY

RECEIVED BY: LJ Pabs

DATE COMPLETED:

DATE FORWARDED: 7-17-87 P. Mokarchuk

pH final 5.0 initial 6.5

Pb - <0.05

Ba - 0.2

Cr - <0.01

Cd - <0.005

Cu - <10 ~~<0.01~~ ppm

Ag - <0.01

Hg - <0.0001

Se - <0.01

RESULTS EXPRESSED IN MG/LITER UNLESS OTHERWISE SPECIFIED.

RECEIVED
JUL 21 1987
IEPA/DLPC

FB

IL 532-0314
LPC 8A 4/77

C702273

(NOT FOR DATA PROCESSING)

Environmental Protection Agency
Division of Laboratory Services
2121 W. Taylor Street
Chicago, Illinois 60612

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C702273
SAMPLING POINT DESC. : COOK CO. CALUMET PK/AIRLINE TOWING X101

SUBMITTING SOURCE # : SITE # : C87-199N
DATE COLLECTED : 870506 TIME COLLECTED : 1500 SAMPLING PROGRAM :

COLLECTED BY : GINO BRUNI DELIVERED BY : TM
COMMENTS :
FUNDING CODE : LP42 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPEP SAMPLE PURPOSE CODE : 0

DATE RECEIVED : 870507 TIME RECEIVED : 1030 RECEIVED BY : LJP
LAB OBSERVATIONS : REPORTING INDICATOR :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000	PH,FINAL TOX EXT	UNITS :	5.0
A10000	PH,INITIAL TOX EX	UNITS :	6.5
A14400	ARSENIC,EP TOX.	MG/L :	0.01K
A14500	BARIUM,EP TOX	MG/L :	0.2
600	CADMIUM,EP TOX.	MG/L :	0.005K
A14700	CHROMIUM,EP TOX.	MG/L :	0.01K
A14900	COPPER,EP TOXICITY	MG/L :	10K
A15100	LEAD,EP TOXICITY	MG/L :	0.05K
A15300	MERCURY,EP TOX.	MG/L :	.0001K
A15500	SELENIUM,EP TOX.	MG/L :	0.01K

(1) Soil
(2) Waste
(3) Other

Sampling Purpose 04
Program Code LP 42

Unit Code K

C702274

01 - Special Request
02 - Criminal Enforcement
03 - Emergency response
04 - Routine Sampling

Time Collected: ~3:00 P.M.

Lab #

SPECIAL ANALYSIS FORM

Date Collected: 5-6-87

Date Received 5-7-87, 10:30 AM

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL

X102

0310000000

COUNTY:	FILE HEADING:	FILE NUMBER:
COOK	C87-199N - COOK CALUMET PARK/AIRLINE TOWING INC.	C87-199N

SOURCE OF SAMPLE: (Exact Location) WASTE PILE LOCATED WEST OF WINCHESTER RD. NORTH OF 127th ST. NORTH OF AIRLINE TOWING INC. 12658 WINCHESTER, CALUMET PARK (597-0990)

PHYSICAL OBSERVATIONS, REMARKS: RUST + RED/ORANGE SANDY/PEBBLE-LIKE MATERIAL

TESTS REQUESTED: E.P. TOX., TOT. METALS INCLUDE COPPER, PH USE S.W. 846

COLLECTED BY: GINO BRUNI TRANSPORTED BY: TODD MARVEL

LABORATORY

RECEIVED BY: AJ Parks DATE COMPLETED: DATE FORWARDED: OCT. 27 1987

pH final 5.1 initial 4.8 J Daugherty

E.P. Toxicity R1:

Pb - <0.05 As

Ba - 0.4 Se

Cd - <0.005 Hg

Cr - <0.01 Cd <1.25

Please refer to LIMS Cr ~~<0.01~~ BP 22.25

report sheet for Ba - 10750.0

Complete results listing. Pb - 137.5 mg/kg

Cu - 72.50 mg/kg

RECEIVED
OCT 28 1987
IEPA/DLPC

JB

IL 532-0314
LPC 8A 4/77

C702274

(NOT FOR DATA PROCESSING)

Environmental Protection A
Division of Laboratory S
2121 W. Taylor Street
Chicago, Illinois 6061

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C702274
SAMPLING POINT DESC. : COOK-CAL. PARK/AIRLINE TOWING INC X102

SUBMITTING SOURCE # : SITE # : C87-199N
DATE COLLECTED : 870506 TIME COLLECTED : 1500 SAMPLING PROGRAM :

COLLECTED BY : GINO BRUNI DELIVERED BY : TM
COMMENTS :
FUNDING CODE : LP42 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPEP SAMPLE PURPOSE CODE : 0 REPORTING INDICATOR :

DATE RECEIVED : 870507 TIME RECEIVED : 1030 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000	PH/FINAL TOX EXT	UNITS :	5.1	A10000	PH/INITIAL TOX EX	UNITS :	4.3
A14400	ARSENIC/EP TOX.	MG/L :	0.01K	A14400	ARSENIC/SW846 MET	MG/KG :	8.2
A14500	BARIUM/EP TOX	MG/L :	0.4	A14500	BARIUM/SW846 MET	MG/KG :	10750
A14600	CADMIUM/EP TOX.	MG/L :	0.005K	A14600	CADMIUM/SW846 MET	MG/KG :	1.25K
A14700	CHROMIUM/EP TOX.	MG/L :	0.01K	A14700	CHROMIUM/SW846	MG/KG :	22.25
A14900	COPPER/SW846 MET.	MG/KG :	72.50	A15100	LEAD/EP TOXICITY	MG/L :	0.05K
A15100	LEAD/SW846 MET.	MG/KG :	137.5	A15300	MERCURY/EP TOX.	MG/L :	.0001K
A15300	MERCURY/SW846 EQ.	MG/KG :	11.4	A15500	SELENIUM/EP TOX.	MG/L :	0.01K
A15500	SELENIUM/SW846	MG/KG :	1.0K				

Sampling Purpose 24 C702275
Program Code LP42
Time Collected: ~3:00 p.m. Lab #
SPECIAL ANALYSIS FORM
Date Collected: 5-6-87 Date Received 5-7-87, 10:30 AM

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF LAND/NOISE POLLUTION CONTROL 0310000000

X 103

COUNTY:	FILE HEADING: C87-199N - COOK CALUMET PARK/AIRLINE TOWING INC.	FILE NUMBER:
COOK		C87-199N

SOURCE OF SAMPLE: (Exact Location) WASTE PILE LOCATED WEST OF WINCHESTER RD. NORTH OF 127TH ST. NORTH OF AIRLINE TOWING INC. 12658 WINCHESTER, CALUMET PARK (597-0990)

PHYSICAL OBSERVATIONS, REMARKS: GRAY + DARK GREEN SANDY/PEBBLE-LIKE MATERIAL

TESTS REQUESTED: E.P. TOX., TOT. METALS INCLUDE COPPER, PH USE S.W. 846

COLLECTED BY: GINO BRUNI TRANSPORTED BY: TODD MARUEL

LABORATORY

RECEIVED BY: L.J. Parks DATE COMPLETED: DATE FORWARDED: OCT. 27 1987

pH final 5.2 initial 9.6 J Daugherty

E.P. Toxicity:
Pb - <0.05
Cd - <0.005
Cr - <0.01
Ba - 1036 mg/L

R:
Pb - 2350.0 mg/kg
Cd - <1.25 mg/kg
Ba - 74000.0 mg/kg
Cu - 112.50 mg/kg
Cr - 11.25 mg/kg

RECEIVED OCT 28 1987 IEPA

Please refer to LIMS report sheet for complete results listing.

IL 532-0314
LPC 8A 4/77

C702275

(NOT FOR DATA PROCESSING)

Environmental Protection Agency
Division of Laboratory Services
2200 W. Taylor Street
Chicago, Illinois 60612

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

SAMPLE NUMBER : C702275
SAMPLING POINT DESC. : COOK CO./CAL.PK./AIRLINE TOWING X103

SUBMITTING SOURCE # : SITE # : C87-199N
DATE COLLECTED : 870506 TIME COLLECTED : 1500 SAMPLING PROGRAM :

COLLECTED BY : GINO BRUNI DELIVERED BY : TM
COMMENTS :
FUNDING CODE : LP42 AGENCY ROUTING : 00 UNIT CODE :
SAM TYPE CODE : LPEP SAMPLE PURPOSE CODE : 0 REPORTING INDICATOR :

DATE RECEIVED : 870507 TIME RECEIVED : 1030 RECEIVED BY : LJP
LAB OBSERVATIONS : TRIP BL SAM# :
SUPERVISORS INITIALS : JWD NOTE : K = LESS THAN VALUE

A10000	PH/FINAL TOX EXT	UNITS :	5.2	A10000	PH/INITIAL TOX EX	UNITS :	9.6
A14400	ARSENIC/EP TOX.	MG/L :	0.01K	A14400	ARSENIC/SW846 MET	MG/KG :	3.6
A14500	BARIUM/EP TOX	MG/L :	1036.0	A14500	BARIUM/SW846 MET	MG/KG :	74000
A14600	CADMIUM/EP TOX.	MG/L :	0.005K	A14600	CADMIUM/SW846 MET	MG/KG :	1.25K
A14700	CHROMIUM/EP TOX.	MG/L :	0.01K	A14700	CHROMIUM/SW846	MG/KG :	11.25
A14900	COPPER/SW846 MET.	MG/KG :	112.50	A15100	LEAD/EP TOXICITY	MG/L :	0.05K
A15100	LEAD/SW846 MET.	MG/KG :	2550.0	A15300	MERCURY/EP TOX.	MG/L :	.0001K
A15300	MERCURY/SW846 EQ.	MG/KG :	92.0	A15500	SELENIUM/EP TOX.	MG/L :	0.05K
A15500	SELENIUM/SW846	MG/KG :	5.0K				

REFERENCE NUMBER #6

MID AMERICA TITLE COMPANY®

123 W. MADISON ST. • CHICAGO, ILLINOIS 60602
TELEPHONE (312) 853-1191

OWNERSHIP REPORT INVOICE

3365A0
FISCAL SERVICES****
2200 CHURCHILL ROAD
P. O. BOX 19276
SPRINGFIELD, IL 62794

DATE 10-Oct-88

FILE NO. 312671

RECEIVED
OCT 13 1988
ILL. E.P.A. - D.L.P.C.
STATE OF ILLINOIS

CUSTOMER REFERENCE 031042002 COOK COUNTY

OWNERS POLICY

LOAN POLICY

DESCRIPTION	BUYERS CHARGES (CUSTOMARILY)	SELLERS CHARGES (CUSTOMARILY)	BALANCE
OWNERSHIP SEARCH	200.00		
	200.00		

BALANCE DUE $200.0

RECEIVED
APR 21 1989
IEPA-DLPC

WHEN DEED IS PRESENTED FOR RECORDING PAYMENT FOR REVENUE STAMPS AND ALL OPEN FEES IS APPRECIATED.

41960

TRACT AND JUDGMENT SEARCH

MID AMERICA
TITLE COMPANY
123 WEST MADISON STREET
CHICAGO, ILLINOIS 60602
312/853-1191

RECEIVED
OCT 13 1988
ILL. E.P.A. - D.
STATE OF ILL.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
1701 FIRST AVENUE
MAYWOOD, ILLINOIS 60153

FILE NUMBER: 312671 EFFECTIVE DATE: SEPTEMBER 29, 1988

DEAR MR. OR MS. :

IN ANSWER TO YOUR REQUEST, WE GIVE YOU THE FOLLOWING INFORMATION:

1. THE LAND REFERRED TO HEREIN IS DESCRIBED AS FOLLOWS:

   PARCEL 1:
   BLOCK 8 IN REXFORD AND BELLAMY'S SUBDIVISION OF PART OF THE WEST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 37 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, (EXCEPT THE SOUTH 179.11 FEET THEREOF) IN COOK COUNTY, ILLINOIS.

   PARCEL 2:
   THAT PART OF LOT 6 IN LUDWIG KRUEGER'S SUBDIVISION OF THE EAST 1/2 OF THE SOUTHWEST QUARTER AND PART OF THE WEST HALF OF THE SOUTHWEST QUARTER LYING SOUTHWESTERLY OF THE CHICAGO ROCK ISLAND RAILROAD RIGHT OF WAY IN SECTION 30, TOWNSHIP 37 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

   PARCEL 3:
   BLOCK 7 OF REXFORD AND BELLANMY'S SUBDIVISION OF PART OF THE WEST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 37 NORTH RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, (EXCEPT THE SOUTH 179.11 FEET THEREOF) IN COOK COUNTY, ILLINOIS.

   PARCEL 4:
   BLOCK 6 OF REXFORD AND BELLAMY'S SUBDIVISION OF PART OF THE WEST HALF OF THE WEST HALF OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 37 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, (EXCEPT THE SOUTH 179.11 FEET THEREOF) IN COOK COUNTY, ILLINOIS.

   PARCEL 5:
   THE WEST 143 FEET OF THE SOUTH 179.11 FEET OF THE WEST 243.2 FEET OF THE SOUTHEAST QUARTER OF SECTION 30, TOWNSHIP 37 NORTH, RANGE 14, EAST OF THE THIRD PRINCIPAL MERIDIAN, IN COOK COUNTY, ILLINOIS.

2. THE LAST DEED(S) OF RECORD FOR THE ABOVE PROPERTY:

   GRANTOR(S) : CHICAGO COPPER AND CHEMICAL

GRANTEE	:	SOUTH CHICAGO SAVINGS BANK, AS TRUSTEE UNDER TRUST
	:	AGREEMENT DATED DECEMBER 15, 1986 AND KNOWN AS TRUST
	:	NUMBER 11-2482
DATED	:	12-24-86
TYPE OF DEED	:	WARRANTY DEED IN TRUST
RECORDED/FILED	:	1-16-17
DOCUMENT	:	87 033 326
AFFECTS	:	25 30 400 012

GRANTOR(S)	:	CHICAGO COPPER AND CHEMICAL
GRANTEE	:	SOUTH CHICAGO SAVINGS BANK, AS TRUSTEE UNDER TRUST
	:	AGREMENT DATED DECEMBER 15, 1986 AND KNOWN AS TRUST
	:	NUMBER 11-2483
DATED	:	12-24-86
TYPE OF DEED	:	DEED IN TRUST
RECORDED/FILED	:	1-16-87
DOCUMENT	:	87 033 330
AFFECTS	:	25 30 315 008

GRANTOR(S)	:	CHICAGO COPPER AND CHEMICAL
GRANTEE	:	SOUTH CHICAGO SAVINGS BANK, AS TRUSTEE UNDER TRUST
	:	AGREEMENT DATED DECEMBER 15, 1986 AND KNOWN AS TRUST
	:	NUMBER 11-2481
DATED	:	12-24-86
TYPE OF DEED	:	WARRANTY DEED IN TRUST
RECORDED/FILED	:	1-16-87
DOCUMENT	:	87 033 327
AFFECTS	:	25 30 400 005

GRANTOR(S)	:	CHICAGO COPPER AND CHEMICAL
GRANTEE	:	SOUTH CHICAGO SAVINGS BANK, AS TRUSTEE UNDER TRUST
	:	AGREEMENT DATED DECEMBER 15, 1986 AND KNOWN AS TRUST
	:	NUMBER 11-2480
DATED	:	12-24-86
TYPE OF DEED	:	WARRANTY DEED IN TRUST
RECORDED/FILED	:	1-16-87
DOCUMENT	:	87 033 329
AFFECTS	:	25 30 400 004

GRANTOR(S)	:	CHICAGO COPPER AND CHEMICAL
GRANTEE	:	SOUTH CHICAGO SAVINGS BANK, AS TRUSTEE UNDER TRUST
	:	AGREEMENT DATED DECEMBER 15, 1986 AND KNOWN AS TRUST
	:	NUMBER 11-2479
DATED	:	1-24-86
TYPE OF DEED	:	WARRANTY DEED IN TRUST
RECORDED/FILED	:	1-16-87
DOCUMENT	:	87 033 328
AFFECTS	:	25 30 400 007 AND 25 30 400 008

THE PARTY ORDERING THIS REPORT WILL BE REIMBURSED FOR ALL OUT OF POCKET LOSSES UP TO A MAXIMUM OF $5,000.00 FOR A DIRECT MONETARY LOSS WHICH IS THE PROXIMATE RESULT OF THE COMPANY'S ERROR OR OMISSION IN REPORTING ON THE STATUS OF TITLE AND/OR LIENS, PROVIDED THE COMPANY IS GIVEN PROMPT WRITTEN NOTICE OF THE ERROR OR OMISSION. THIS IS NOT A POLICY OF TITLE INSURANCE.

SINCERELY,

MID AMERICA TITLE COMPANY

REFERENCE NUMBER #7

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
INSPECTION REPORT

USEPA Number: Non-notifier IEPA Number:: 031042 0002

Facility Name: Chicago Copper and Chemical Co

Street: 12658 Winchester
City: Calumet Park Telephone: 312/597-0990
County: Cook State: IL ZipCode: 60643

Type of Facility: Notified as: Non-notifier Non-filer Regulated as: S,D
LDF? Yes HPV? No 90 Day Follow-up required? Yes: ___ No: X

Region: II Date of Inspection: 05/24/89 From: 10:30A to: 11:30A
Weather (LDF Only): ___

Type of Inspection
ISS: X Sampling: ___ Citizen Complaint: ___ Closed: ___ Other: ___
Record Review: ___ Follow-up to Inspection of: ___ Withdrawal: ___

Non Regulated Status
SQG: ___ Claimed Nonhandler: ___ Other (Specify in Narrative): ___

Notification date, Non-notifier from (initial) or (subsequent) Notif.

Part A Non-filer
Initial Part A date: ___ Ammended: ___
Part A Withdrawal requested: ___ Approved by (US)(IL)EPA: ___

Part B Permit Application NA
Part B Permit called by (US)(IL)EPA on: ___ Permit Due: ___
Part B Permit Submitted: ___ Draft Permit Issued: ___

Enforcement
Has the firm been referred to: USEPA? No IAG? Yes County SA? No
Date(s) of initial referral: 4/88
USEPA CACO: ___ CAFO: ___ ALJ Decision: ___
Referral to DOJ by USEPA: ___ Federal Court Order Issued: ___
PCB Order Issued: ___ State Court Order Issued: ___

TSD Facility Activity Summary

Activity By Process Code	On Pt A?	Activity Conducted Prior to 1980?	Was Activity Ever Done?	Closed	Being Done at Time of Insp?	Exempt per 35 IAC, Sec.	On Annual Report 88	87	86
S03	No	?	Yes	No	No	No	No	No	No
D80	No	?	Yes	No	No	No	No	No	No
	S03 - Hazardous waste pile storage								
	D80 - Landfill disposal								

RECEIVED
JUN 27 1989
IEPA-DLPC

Operator: Chicago Copper and Chemical Company Telephone #: 312/597-0990

Street: 12658 Winchester

City: Calumet Park State: IL Zip Code: 60643

Owner: South Chicago Savings Bank, Trustee #11-2483, 11-2482, 11-2481, 11-2480, 11-2479 Telephone #: 768-1400

Street: 9200 S. Commercial Avenue

City: Chicago State: IL Zip Code: 60617

Person Interviewed	Title	Telephone #

Inspection Participants	Agency/Title	Telephone #
Gino Bruni	IEPA/EPS	312/345-9780
Phyllis Reed	↓	↓

Noted By	Agency/Title	Telephone #
Phyllis Reed	IEPA/EPS	312/345-9780

Summary of Apparent Violations

Area	Class	Section
OTH	I	725.111
CLO	I	725.212a
CLO	I	725.242a
OTH	I	725.353a
OTH	I	725.354
OTH	I	725.401a
OTH	I	725.402
OTH	II	725.409

Area	Class	Section

Area	Class	Section

0310420002 - Cook County
/Chicago Copper and Chemical Company
May 24, 1989

NARRATIVE

On May 24, 1989, Gino Bruni and Phyllis Reed (representing IEPA) went to observe the status of the site in regards to the hazardous waste pile, tires, concrete and wood. This waste was initially discovered during the 5/6/87 investigation.

During the 5/6/87 investigation, the vacant lot was covered with debris (i.e. tires, concrete and wood) and a waste pile. Samples were collected from the waste pile. The lab analysis indicated that waste pile contained 1036 ppm of barium (E.P. Toxicity hazardous waste metal).

The hazardous waste pile, tires, concrete and wood were not observed on the vacant lot during the 5/24/89 inspection. Some parts of this area are now covered with gravel. The disposition of this waste has not been determined.

APPARENT VIOLATIONS:

725.111	-	No USEPA identification number.
725.212a	-	No closure plan submitted to the Agency before the waste pile was removed from the site.
725.242a	-	No written estimate of the cost of closing the facility.
725.353a	-	No containment for controlling leachate or runoff from the hazardous waste pile.
725.354	-	No liner or leachate collection system.
725.401a	-	Facility has not met the design requirements for a landfill.
725.402	-	Facility has not designed, constructed or operated and maintained a control system capable of preventing run-on and run-off.
725.409	-	No operating record.

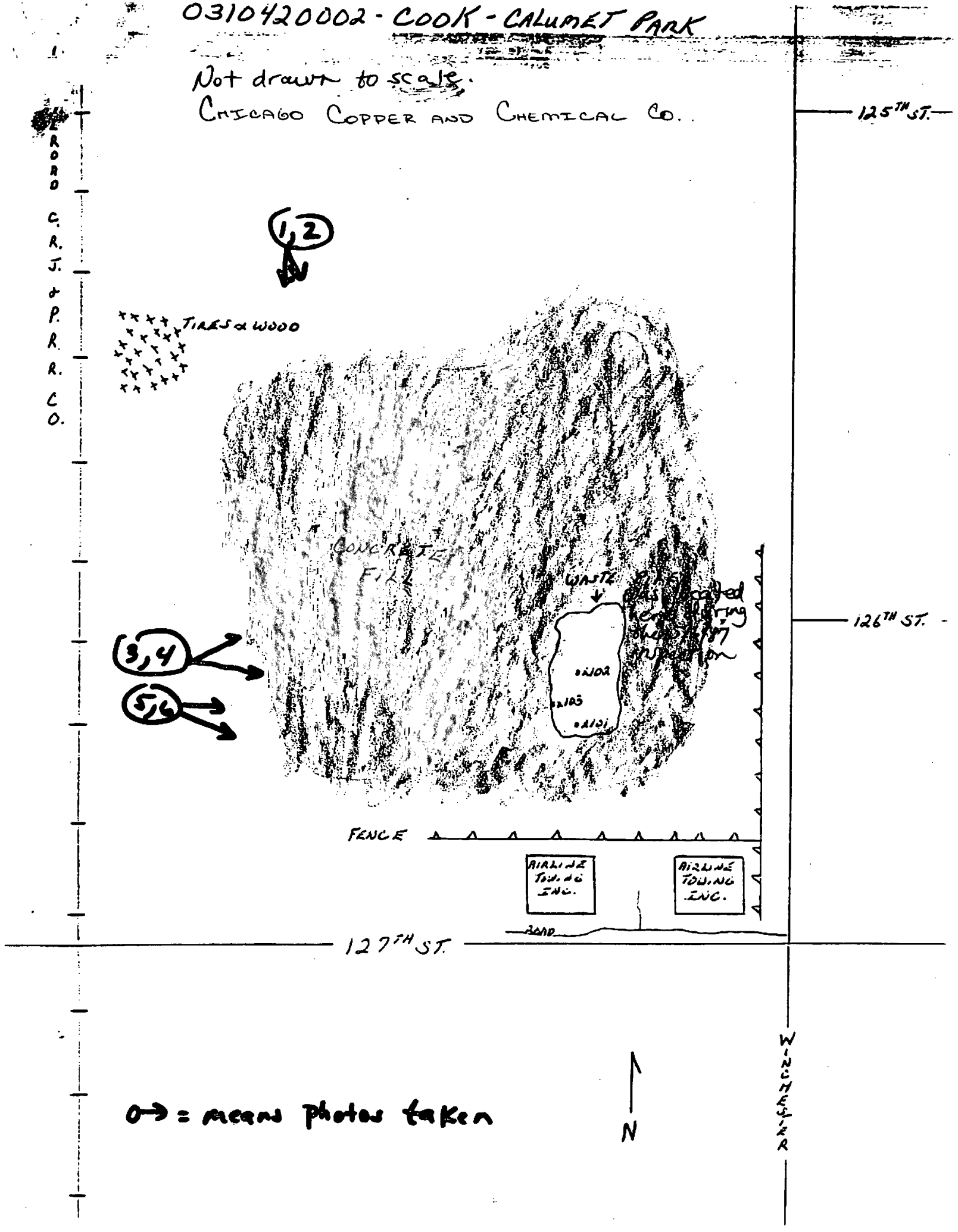
PR:bh:3804B

RECEIVED
JUN 27 1989
IEPA-DLPC

0310420002 - COOK - CALUMET PARK

Not drawn to scale.

CHICAGO COPPER AND CHEMICAL CO.



O→ = means photos taken

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
INSPECTION REPORT

REFERENCE NUMBER №8

USEPA Number: NON-NotiFier IEPA Number:: 0310420002

Facility Name: Chicago Copper & Chemical Company

Street: 12658 Winchester
City: Calumet Park Telephone: 312-597-0990
County: Cook State: Il ZipCode: 60643

Type of Facility: Notified as: Non-NotiFier Non-Filer Regulated as: Storage, Disposal
LDF? Y HPV? ___ 90 Day Follow-up required? Yes: ___ No: ✓

Region: 2 Date of Inspection: 10-03-89 From: 9:00Am to: 3:30pm
Weather (LDF Only): Sunny 68°F

Type of Inspection
ISS: ___ Sampling: ✓ Citizen Complaint: ___ Closed: ___ Other: ___
Record Review: ___ Follow-up to Inspection of: ___ Withdrawal: ___

Non Regulated Status
SQG: ___ Claimed Nonhandler: ___ Other (Specify in Narrative): ___

Notification date, Non-Notifier from (initial) or (subsequent) Notif.

Part A Non-Filer
Initial Part A date: ___ Ammended: ___
Part A Withdrawal requested: ___ Approved by (US)(IL)EPA: ___

Part B Permit Application N/A
Part B Permit called by (US)(IL)EPA on: ___ Permit Due: ___
Part B Permit Submitted: ___ Draft Permit Issued: ___

Enforcement
Has the firm been referred to: USEPA? No IAG? Yes County SA? No
Date(s) of initial referral: 4/88
USEPA CACO: ___ CAFO: ___ ALJ Decision: ___
Referral to DOJ by USEPA: ___ Federal Court Order Issued: ___
PCB Order Issued: ___ State Court Order Issued: ___

TSD Facility Activity Summary

Activity By Process Code	On Pt A?	Activity Conducted Prior to 1980?	Was Activity Ever Done?	Closed	Being Done at Time of Insp?	Exempt per 35 IAC, Sec.	On Annual Report 88	87	86
S03	N	?	Y	N	N	N	N	N	N
D80	N	?	Y	N	N	N	N	N	N

RECEIVED
DEC 26 1989
IEPA/DLPC

Operator: Airline Towing Inc. Telephone #: 312-597-099

Street: 12658 Winchester

City: Calumet Park State: IL Zip Code: 60643

Owner: Airline Towing Inc Telephone #: 312-597-099

Street: 12658 Winchester

City: Calumet Park State: IL Zip Code: 60643

Person Interviewed	Title	Telephone #
J. R. Bramlett	Owner of Airline Towing Inc.	312-597-099
Pat Soliday	Project Manager-ICEP	219-397-5823

Inspection Participants	Agency/Title	Telephone #
Gino S. Bruni	IEPA/EPS III	312-345-978

Prepared By	Agency/Title	Telephone #
Gino S. Bruni	IEPA/EPS III	312-345-978

Summary of Apparent Violations

Area	Class	Section

Area	Class	Section

Area	Class	Section

SAMPLING INSPECTION

On October 3, 1989 I took eight soil samples at the Chicago Copper and Chemical Company. The following individuals were present: J. R. Bramlett (owner/operator), Pat Soliday (Project Manager for ICEP) and myself.

This sampling inspection was a result of a compliance conference held September 20, 1989. During this conference J. R. Bramlett agreed to sample the area of the pile for the presence of hazardous waste, as well as the area around the pile to insure that it was not spread out.

Presently the pile is gone and there is no way to trace where it went. If no hazardous waste is present, the RCRA violations should be dropped since we cannot "prove" them. If hazardous waste is found they have to go thru RCRA closure. If hazardous waste constituents are present then the site should still be considered for RPM's action.

A backhoe was used to dig each of the eight sampling locations. Each hole was approximately 1 to 2 feet deep. Pat and I took one sample from each of the eight sampling locations. A stainless steel short handled spade was used to shovel the soil sample into a glass jar. A paper towel was used to wipe the spade between each sample. EP toxicity was requested for all Agency samples.

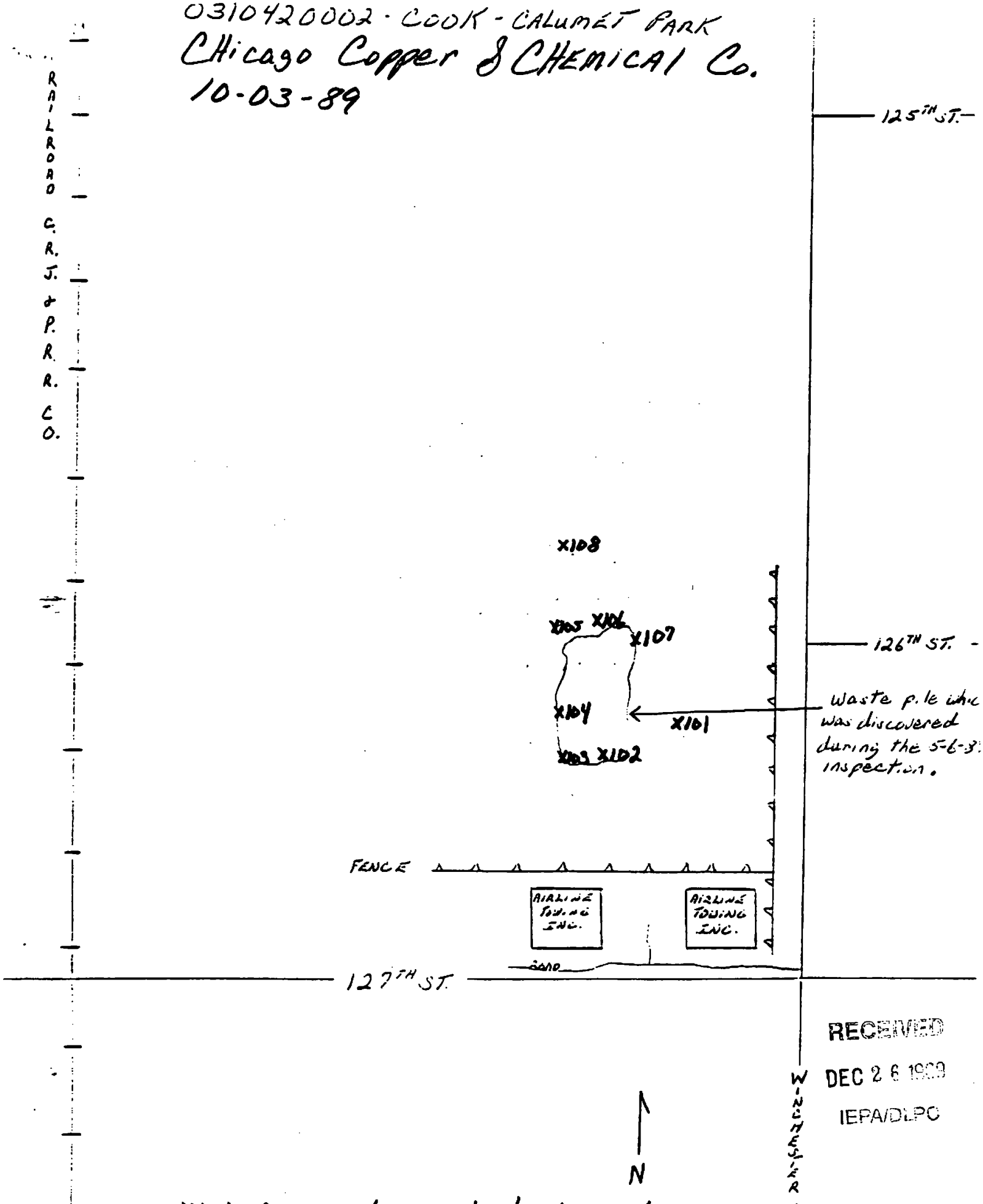
GB:bh:4511B

cc: Maywood Region

0310420002 - COOK - CALUMET PARK

Chicago Copper & Chemical Co.

10-03-89



RECEIVED
DEC 26 1989
IEPA/DLPC

X101 - Approximate sample location and NUMBER.

PHOTOGRAPHS WERE TAKEN AT EACH SAMPLE LOCATION

REFERENCE NUMBER 9

Bl 13

Chicago Copper & Chem Co.

City Blue Island County Cook

Section 30, 5a Twp. No. 37 N. Range 14 E

Location (in feet from section corner) 2500' E & 250' N of S. W. Cor of Sec 30

Owner Smelter Well. Authority Chicago Tribune p 2, fig 2

Contractor Address

Date drilled 1891 or 2 Elev. above sea level top of well

Depth 1449 (1450' according to I.S.G.S. Bull 34, p 253.

Log over

Were drill cuttings saved Where filed

Size hole 6" If reduced, where and how much

Casing record 98'

Distance to water when not pumping Distance to water is

feet after pumping at G. P. M. for hours.

Reference point for above measurements

Type of pump Distance to cylinder

Length of cylinder Length of suction pipe below cylinder

Length stroke Speed

Hours used per day Type of power

Rating of motor Rating of pump in G. P. M.

Can following be measured: (1) Static water level

(2) Pumping level (3) Discharge

(4) Influence on other wells

Temperature of water Was water sample collected

Date Effect of water on meters, hot water coils, etc.

Date of Analysis Analysis No.

Recorder

Date

2807-22617 12

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILL

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 220 ft.
   Curb material _____. Buried Slab: Yes____ No X
   b. Driven _____. Drive Pipe Diam. 5 in. Depth 38 ft.
   c. Drilled _____. Finished in Drift _____. In Rock X.
   Tubular _____. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 9 Ft. Seepage Tile Field 84
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) 34
   Septic Tank 57 Barnyard _____
   Leaching Pit _____ Manure Pile _____
3. Well furnishes water for human consumption? Yes X No____
4. Date well completed June 20, 1978
5. Permanent Pump Installed? Yes X Date 7/78 No____
   Manufacturer Sta-Rite Type Sub. Location _____
   Capacity 11 gpm. Depth of Setting 120 Ft.
6. Well Top Sealed? Yes X No____ Type Water tight cap
7. Pitless Adapter Installed? Yes X No____
   Manufacturer Baker Monitor Model Number Snappy
   How attached to casing? Clamp on type
8. Well Disinfected? Yes X No____
9. Pump and Equipment Disinfected? Yes X No____
10. Pressure Tank Size 82 gal. Type Ve-X-Trol
    Location Basement
11. Water Sample Submitted? Yes X No____

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [illegible] Well No. 1
    Address [illegible]
    Driller J.R. STINNETT License No. 102-10[illegible]
11. Permit No. 75337 Date June 13, 1973
12. Water from Limestone (Formation) 13. County Cook
    at depth 38 to 220 ft. Sec. 1
    14. Screen: Diam. _____ in. Twp. 35[illegible]
    Length: _____ ft. Slot _____ Rge. 13E
    Elev. _____

SHOW LOCATION IN SECTION PLAT
lot 5 block 6 Sunset Manor Sub
SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Steel 15#	0	38

16. Size Hole below casing: 4 3/4 in.
17. Static level 10 ft. below casing top which is 12" ft. above ground level. Pumping level 30 ft. when pumping at 30 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Top soil removed Clay & rocks	12	#12
Gravel bloders & sand	22	34
Very fine gravel heavy with water	4	38
Limestone	182	220
Redrock at 38 ft.		

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED J.R. Stinnett DATE June 3, 1980

IDPH 4.065
1/74 – KNB-1

White Copy – Ill. Dept. Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 61[illegible] STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 140 ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 10-18-67
5. Permanent Pump Installed? Yes X No ____
   Manufacturer [illegible] Type Suction
   Capacity 20 gpm. Depth of setting 24 ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 3727 Year 1967
11. Property owner ____ Well No. ____
    Address ____
    Driller [illegible] License No. [illegible]
12. Water from [illegible] (Formation) 13. County [illegible]
    at depth 17 to 140 ft. 2 Sec. [illegible]
14. Screen: Diam. ____ in. 36 Twp. [illegible]
    Length: ____ ft. Slot ____ 13 Rng. 13[illegible]
    Elev. ____

SHOW LOCATION IN SECTION PLAT
SE SW NW

15. Casing and Liner Pipe

Diam. (In.)	Kind and Weight	From (Ft.)	To (Ft.)
5"		0	41

16. Size Hole below casing: 5 in.
17. Static level 17 ft. below casing top which is [illegible] ft. above ground level. Pumping level 84 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Mixed Clay & Gravel	0	41
White Limestone	41	140
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Paul Knoering DATE 10-25-67

White Copy – Ill. Dept. o[illegible]lic Health
Yellow Copy – [illegible]ell Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERT[illegible]T INFORMATION REQU[illegible]ED AND MAIL OR[illegible]AL TO STATE DEPARTMENT OF PUBL[illegible] HEALTH, ROOM 616, [illegible]TATE OFFICE BU[illegible]ING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled ✓. Finished in Drift____. In Rock ✓.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 10 Ft. Seepage Tile Field 25
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50 Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes ✓ No____
4. Date well completed 9/22/68
5. Permanent Pump Installed? Yes ✓ No____
   Manufacturer REDA Type SUBM
   Capacity 12 gpm. Depth of setting 42 ft.
6. Well Top Sealed? Yes ✓ No____
7. Pitless Adaptor Installed? Yes ✓ No____
8. Well Disinfected? Yes ✓ No____
9. Water Sample Submitted? Yes____ No ✓

REMARKS: Lot 5 in W. B. Egans Subd. located in the NW

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals permit No. 5825 Year 1968
11. Property owner HOBLUN BLDRS Well No.____
    Address 13152 SPRINGFIELD CRESTWOOD
    Driller R. FOYLE License No. 92-106
12. Water from ROCK (Formation) 13. County COOK
    at depth 24 to 80 ft.
    Sec. 2
    Twp. 36N
    Rng. 13E
    Elev.____
14. Screen: Diam.____in.
    Length:____ft. Slot____

SHOW LOCATION IN SECTION PLAT

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	A-53 SEAMLESS 14.81 lb	0	24

16. Size Hole below casing: 5 in.
17. Static level 10 ft. below casing top which is 1 ft. above ground level. Pumping level 15 ft. when pumping at 12 gpm for 6 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	4	4
CLAY + GRAVEL + ROCKS	15	19
MIXED		
GRAVEL	5	24
ROCK	56	80
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED R. Foyle DATE 10-28-68

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM [illegible], STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 4 in. Depth 75 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven _____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled ✓. Finished in Drift _____. In Rock ✓.
   Tubular ✓. Gravel Packed _____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 25 Ft. Seepage Tile Field _____
   Cess Pool None Sewer (non Cast iron) _____
   Privy None Sewer (Cast iron) _____
   Septic Tank 80' Barnyard None
   Leaching Pit None Manure Pile None
3. Is water from this well to be used for human consumption?
   Yes ✓ No _____
4. Date well completed August 22, 1969
5. Permanent Pump Installed? Yes ✓ No _____
   Manufacturer _____ Type _____
   Capacity _____gpm. Depth of setting _____ ft.
6. Well Top Sealed? Yes _____ No _____
7. Pitless Adaptor Installed? Yes _____ No _____
8. Well Disinfected? Yes _____ No _____
9. Water Sample Submitted? Yes _____ No _____

REMARKS:

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Minerals Permit No. 8086 Aug. 11 Year 196[illegible]
    Well No.
11. Property owner _____
    Address _____
    Driller Frank Potrykus License No. 92-458
12. Water from Rock (Formation) 13. County Cook
    at depth 42 to 75 ft.
    Sec. 32
    Twp. 36N
    Rng. 13E
    Elev. _____
14. Screen: Diam. None in.
    Length: _____ft. Slot _____
15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4	1/4" thick	Top of	47
	galvanize	soil	
	steel		

SHOW LOCATION IN SECTION PLA[illegible]
SW SE N

16. Size Hole below casing: 4 in.
17. Static level 14 ft. below casing top which is 2 1/2 ft. above ground level. Pumping level 18 ft. when pumping at 25 gpm for 2 1/2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Black soil	1'	1'
clay - yellow	20'	21'
clay - blue	12'	33'
gravel - coarse	12'	45'
gravel - fine	2'	47'
Limestone gray	47'	75'
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Frank Potrykus DATE Aug. 22, 196[illegible]

White Copy – Ill. Dept. of Pu[illegible] Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT [illegible]ORMATION REQUEST AND MAIL ORIGINA[illegible]O STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, ST[illegible]E OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ____. In Rock ✓.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

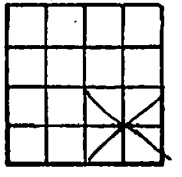
2. Distance to Nearest:
   Building 25 Ft. Seepage Tile Field 87
   Cess Pool ✓ Sewer (non Cast iron) ✓
   Privy ✓ Sewer (Cast iron) ✓
   Septic Tank 60 Barnyard ✓
   Leaching Pit ✓ Manure Pile ✓
3. Is water from this well to be used for human consumption?
   Yes ✓ No ____
4. Date well completed 10/27/70
5. Permanent Pump Installed? Yes ____ No ✓
   Manufacturer ____ Type ____
   Capacity ____ gpm. Depth of setting ____ ft.
6. Well Top Sealed? Yes ✓ No ____
7. Pitless Adaptor Installed? Yes ____ No ____
8. Well Disinfected? Yes ✓ No ____
9. Water Sample Submitted? Yes ____ No ✓

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ____ Well No. ____
    Address ____
    Driller A. Foyle & Dond License No. 92-106
11. Permit No. 10803 Date 10/31/70
12. Water from Rock (Formation) at depth 52 to 65 ft.
13. County Cook
    Sec. 3
    Twp. 36N
    Rge. 13E
    Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____
15. Casing and Liner Pipe



Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
4"	SEAMLESS 14.81 52/9	0	52

SHOW LOCATION IN SECTION PLAT
Lot 10, Block 5 in Arthur T. McIntosh & Co. Midlothian Highlands Di[illegible]
SE

16. Size Hole below casing: 4 in.
17. Static level 5 ft. below casing top which is 1 ft. above ground level. Pumping level 20 ft. when pumping at 10 gpm for 3 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
BLACK DIRT	1	1
YELLOW CLAY & ROCKS	15	16
GRAVEL & ROCKS	36	52
LIMESTONE	13	65

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Richard Foyle DATE 10/31/70

White Copy – Ill. Dept. of Publ[illegible] Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam.____in. Depth____ft.
   Curb material_____. Buried Slab: Yes____No____
   b. Driven____. Drive Pipe Diam.____in. Depth____ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
None		

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field 75 ft.
   Cess Pool____ Sewer (non Cast iron)____
   Privy____ Sewer (Cast iron)____
   Septic Tank 50 ft. Barnyard____
   Leaching Pit____ Manure Pile____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed June 10, 1969
5. Permanent Pump Installed? Yes X No____
   Manufacturer Vacuzzi Type Submersible
   Capacity 12 gpm. Depth of setting 42 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [illegible] Well No. 144
    Address____
    Driller W. Hallemann License No. 401
11. Permit No. 7145 Date April 8, 1964
12. Water from Limestone (Formation) 13. County Cook
    at depth 24 to 107 ft. Sec. 12
    14. Screen: Diam.____in. Twp. 36N
    Length:____ft. Slot____ Rge. 13E
    Elev.____

SHOW LOCATION IN SECTION PLAT
Lot A8, B14 in Sunset Manor Sub in SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Standard Steel	0	24
	Galv pipe, 15 lbs		
	per ft.		

16. Size Hole below casing: 5 in.
17. Static level 7 ft. below casing top which is 1 ft. above ground level. Pumping level 12 ft. when pumping at 15 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Soil	1	1
Yellow Clay	12	13
Sand	7	20
Gravel	4	24
Limestone	83	107

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED W. Hallemann DATE July 14, 1969

White Copy – Ill. Dept. of Pu[illegible] Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINEN[illegible] IFORMATION REQUEST[illegible] AND MAIL ORIGI[illegible] TO STATE DEPARTMENT OF PUBLIC [illegible]EALTH, ROOM 616, STA[illegible]E OFFICE BUILDIN[illegible], SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

1/67

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 160 ft.
   Curb material_____. Buried Slab: Yes_____ No_____
   b. Driven_____. Drive Pipe Diam._____in. Depth_____ft.
   c. Drilled X. Finished in Drift_____. In Rock X.
   Tubular_____; Gravel Packed_____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 30 Ft. Seepage Tile Field_____
   Cess Pool_____ Sewer (non Cast iron)_____
   Privy_____ Sewer (Cast iron)_____
   Septic Tank 80 Ft. Barnyard_____
   Leaching Pit_____ Manure Pile_____
3. Is water from this well to be used for human consumption?
   Yes X No_____
4. Date well completed June 12, 1967
5. Permanent Pump Installed? Yes X No_____
   Manufacturer Webtrol Type Submersible
   Capacity 15 gpm. Depth of setting 84 ft.
6. Well Top Sealed? Yes X No_____
7. Pitless Adaptor Installed? Yes X No_____
8. Well Disinfected? Yes X No_____
9. Water Sample Submitted? Yes_____ No X

REMARKS:

Exact well location - West 50 feet of the SW¼ of the SW¼ of the above described section.

GEOLOGICAL WATER SURVEYS WATER WELL RECORD

10. Dept. Mines and Mineral[illegible] Permit No. 2645 Year 1967
11. Property owner [illegible] Well No._____
    Address_____
    Driller Knierim Bros. License No. 92-517
12. Water from Limestone Formation 13. County Cook
    at depth 90 to 160 ft.
    Sec. 12
    Twp. ~~33N~~ 36N
    Rng. ~~12N~~ 13E
    Elev._____
14. Screen: Diam._____in.
    Length:_____ft. Slot_____

SHOW LOCATION IN SECTION PLAT

Permit: West 50 of SW/4 SW/4

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	Galv. 15lb. per ft.	0	90

16. Size Hole below casing: 5 in.
17. Static level 60 ft. below casing top which is 1 ft. above ground level. Pumping level 60 ft. when pumping at 20 gpm for 1 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Over Burden	105 ft.	
Limestone		160
(CONTINUE ON SEPARATE SHEET IF NECESSARY)		

SIGNED Phil Knierim DATE July 8, 1967

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. 5 in. Depth 180 ft.
   Curb material ____. Buried Slab: Yes ____ No X
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled X. Finished in Drift ____. In Rock X.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)
CUTTINGS		

2. Distance to Nearest:
   Building ____ Ft. Seepage Tile Field 75
   Cesspool ____ Sewer (non Cast iron) ____
   Privy ____ Sewer (Cast iron) ____
   Septic Tank 50 Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Is water from this well to be used for human consumption?
   Yes X No ____
4. Date well completed 9/17/73
5. Permanent Pump Installed? Yes X No ____
   Manufacturer BARNES Type SUBM.
   Capacity 20 gpm. Depth of setting 42 ft.
6. Well Top Sealed? Yes X No ____
7. Pitless Adaptor Installed? Yes X No ____
8. Well Disinfected? Yes X No ____
9. Water Sample Submitted? Yes ____ No X

REMARKS:

Owner Instructed

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ____ Well No. ____
    Address ____
    Driller Kay K Well Drilling License No. 102-29
11. Permit No. 25227 Date 9/5/73
12. Water from LIMESTONE (Formation) 13. County COOK
    at depth 20 to 180 ft.
    Sec. 33 Twp. 37N Rge. 13E Elev. ____
14. Screen: Diam. ____ in.
    Length: ____ ft. Slot ____

SHOW LOCATION IN SECTION PLAT

SESESE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5	BLACK IRON	0	42

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 1½ ft. above ground level. Pumping level 42 ft. when pumping at 20 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
OVER BURDEN	0	42
ROCK FORMATION	42	180

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Knuesing DATE 9/17/73

White Copy – Ill. Dept. of P. Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILLERS

FILL IN ALL PERTINEN .IFORMATION REQUEST AND MAIL ORIGIN. TO STATE DEPARTMENT OF PUBLIC HEALTH, ROOM 616, STATE OFFICE BUILDING, SPRINGFIELD, ILLINOIS, 62706. DO NOT DETACH GEOLOGICAL / WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH
WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug____. Bored____. Hole Diam. 5 in. Depth 150 ft.
   Curb material _____. Buried Slab: Yes____ No____
   b. Driven____. Drive Pipe Diam. ____in. Depth ____ft.
   c. Drilled X. Finished in Drift____. In Rock X.
   Tubular ____. Gravel Packed____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building _____ Ft. Seepage Tile Field 75 ft.
   Cess Pool _____ Sewer (non Cast iron) _____
   Privy _____ Sewer (Cast iron) _____
   Septic Tank 50 ft. Barnyard _____
   Leaching Pit / Manure Pile _____
3. Is water from this well to be used for human consumption?
   Yes X No____
4. Date well completed 4-18-70
5. Permanent Pump Installed? Yes X No____
   Manufacturer Subm Type 1½ HP.
   Capacity 30 gpm. Depth of setting 84 ft.
6. Well Top Sealed? Yes X No____
7. Pitless Adaptor Installed? Yes X No____
8. Well Disinfected? Yes X No____
9. Water Sample Submitted? Yes____ No X

REMARKS:

IDPH 4.065
10/68

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner [illegible] Well No. _____
    Address [illegible]
    Driller R+K Well Drill. License No. 192-517
11. Permit No. 9457 Date 4-21-70
12. Water from Limestone (Formation) 13. County Cook
    at depth 140 to 150 ft. Sec. 34
    14. Screen: Diam. _____in. Twp. 37 N
    Length: _____ft. Slot _____ Rge. 13 E
    Elev. _____

X			

SHOW LOCATION IN SECTION PLAT
Lot 23 in Mathew Sub. NW SW

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	15 lb.	0	40
	Seamless		

16. Size Hole below casing: 5 in.
17. Static level 3 ft. below casing top which is 2 ft. above ground level. Pumping level 84 ft. when pumping at 30 gpm for 4 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
Overburden	0	20
Limestone - Cement Grouted	20	40
Limestone	40	150

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Paul Luerim DATE 4-27-70

White Copy – Ill. Dept. of Public Health
Yellow Copy – Well Contractor
Blue Copy – Well Owner

INSTRUCTIONS TO DRILL

FILL IN ALL PERTINENT INFORMATION REQUESTED AND MAIL ORIGINAL TO STATE DEPARTMENT OF PUBLIC HEALTH, CONSUMER HEALTH PROTECTION, 535 WEST JEFFERSON, SPRINGFIELD, ILLINOIS, 62761. DO NOT DETACH GEOLOGICAL/WATER SURVEYS SECTION. BE SURE TO PROVIDE PROPER WELL LOCATION.

ILLINOIS DEPARTMENT OF PUBLIC HEALTH WELL CONSTRUCTION REPORT

1. Type of Well
   a. Dug ____. Bored ____. Hole Diam. ____ in. Depth ____ ft.
   Curb material ____. Buried Slab: Yes ____ No ____
   b. Driven ____. Drive Pipe Diam. ____ in. Depth ____ ft.
   c. Drilled ✓. Finished in Drift ____. In Rock ✓.
   Tubular ____. Gravel Packed ____.
   d. Grout:

(KIND)	FROM (Ft.)	TO (Ft.)

2. Distance to Nearest:
   Building 25 Ft. Seepage Tile Field ____
   Cess Pool ____ Sewer (non Cast iron) 100
   Privy ____ Sewer (Cast iron) 50
   Septic Tank ____ Barnyard ____
   Leaching Pit ____ Manure Pile ____
3. Well furnishes water for human consumption? Yes ✓ No ____
4. Date well completed 7/2/75
5. Permanent Pump Installed? Yes ✓ Date 7/3/75 No ____
   Manufacturer REDA Type SUBM Location ____
   Capacity 10 gpm. Depth of Setting 100 Ft.
6. Well Top Sealed? Yes ✓ No ____ Type ____
7. Pitless Adapter Installed? Yes ✓ No ____
   Manufacturer ____ Model Number ____
   How attached to casing? ____
8. Well Disinfected? Yes ✓ No ____
9. Pump and Equipment Disinfected? Yes ✓ No ____
10. Pressure Tank Size 42 gal. Type Galv.
    Location ____
11. Water Sample Submitted? Yes ____ No ✓

REMARKS:

GEOLOGICAL AND WATER SURVEYS WELL RECORD

10. Property owner ____ EH Well No. ____
    Address ____
    Driller FOYLE & SONS License No. 102-66
11. Permit No. 28920 Date 2/2/75
12. Water from Rock (Formation) 13. County LOGAN
    at depth 112 to 120 ft. Sec. 34
14. Screen: Diam. ____ in. Twp. 32N
    Length: ____ ft. Slot ____ Rge. 13E
    Elev. ____

		X	

SHOW LOCATION IN SECTION PLAT
Lot 6
Powtow's Industrial Park Subd
SWSE

15. Casing and Liner Pipe

Diam. (in.)	Kind and Weight	From (Ft.)	To (Ft.)
5"	BLACK A-53	0	112

16. Size Hole below casing: 5 in.
17. Static level 20 ft. below casing top which is 1 ft. above ground level. Pumping level 100 ft. when pumping at 3 gpm for 2 hours.

18. FORMATIONS PASSED THROUGH	THICKNESS	DEPTH OF BOTTOM
YELLOW CLAY	30	30
BLUE CLAY	50	80
GRAVEL & BOULDERS	32	112
LIMESTONE	58	120

(CONTINUE ON SEPARATE SHEET IF NECESSARY)

SIGNED Terry Hale DATE 2/2/75

IDPH 4.065
1/74 – KNB-1
(59571—12½M Sets—6-74)

REFERENCE NUMBER #10

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE CONVERSATION RECORD

Cook
COUNTY

LPC
DIVISION

Calumet Park / Chicago Copper & Chemical Co. I. D. or FILE NO. L 0310420002

Re: Any Residential Wells in Area

Conversation with: Mr. Gary Kozlowski Blue Island Water Operator (708) 597-8605

( ) I Called Party (X) Party Called Me DATE 01/16/90 TIME 1:55P

( ) Complainant ( ) Violator ( ) Public Inquiry ( ) Partitioner

What I Said:	What Other Party Said:
(1) Is the City of Blue Island on Lake Michigan water?	(2) Yes.
(3) Are there any residential wells within the city limits.	(4) About a handful that have not been hooked up to the main water line.
(5) Where are these wells located?	(6) On 141st Place, near the Blue Island border.
(7) Thank You.	

use reverse side if necessary

Gregory W. D
Signature

EPS II
Title

IL 532-0727
EPA 129 (Rev. 1/81)

Over