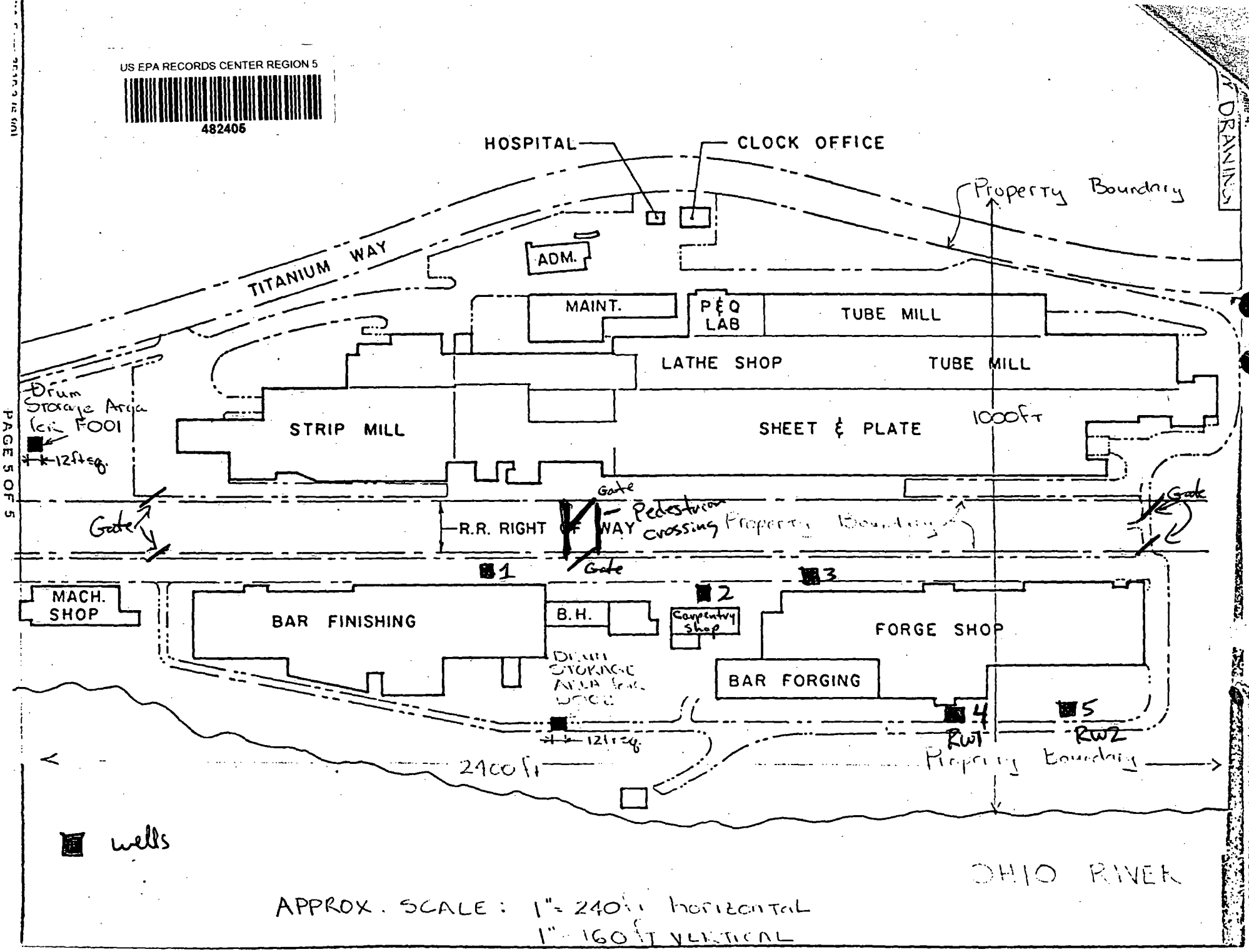
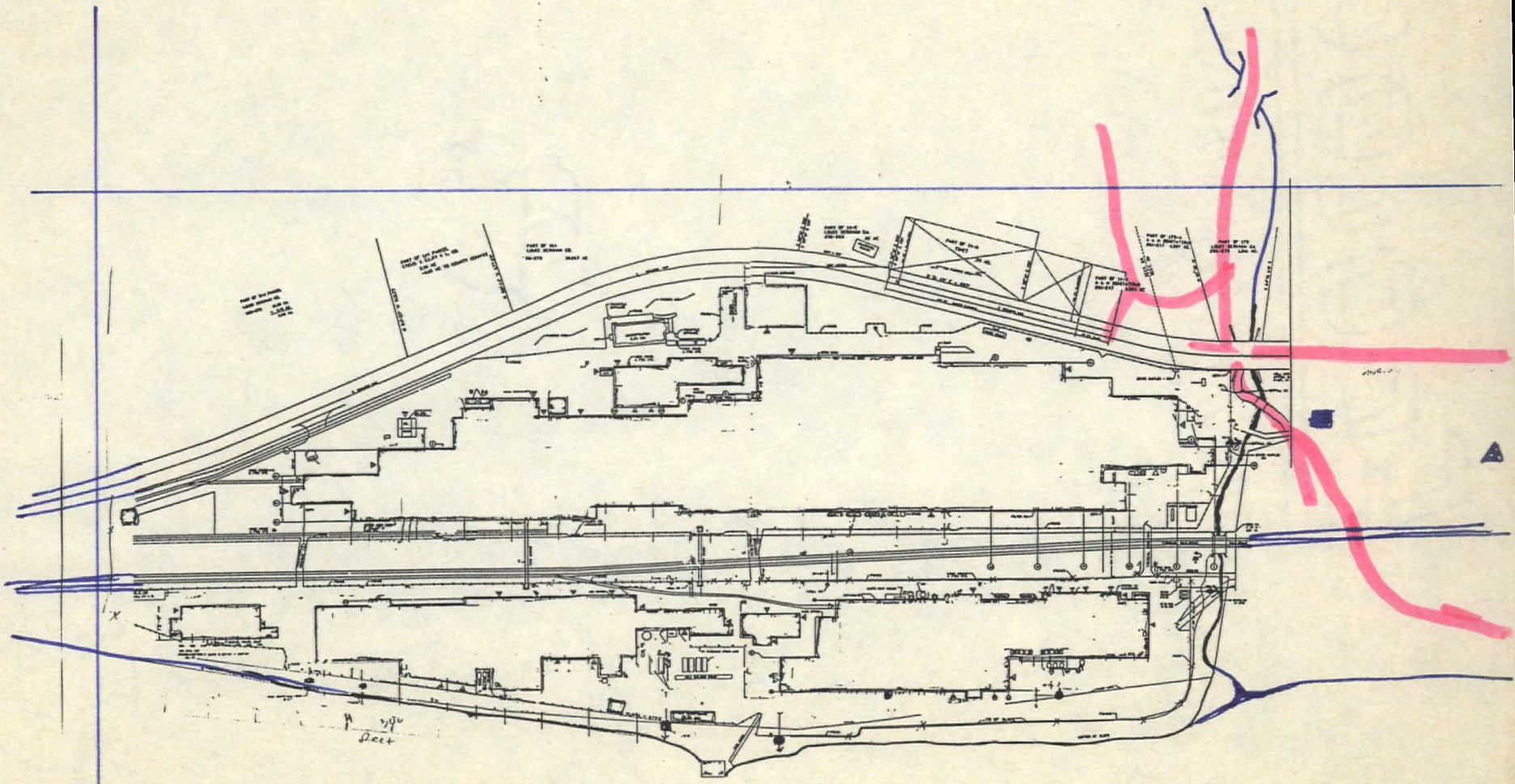
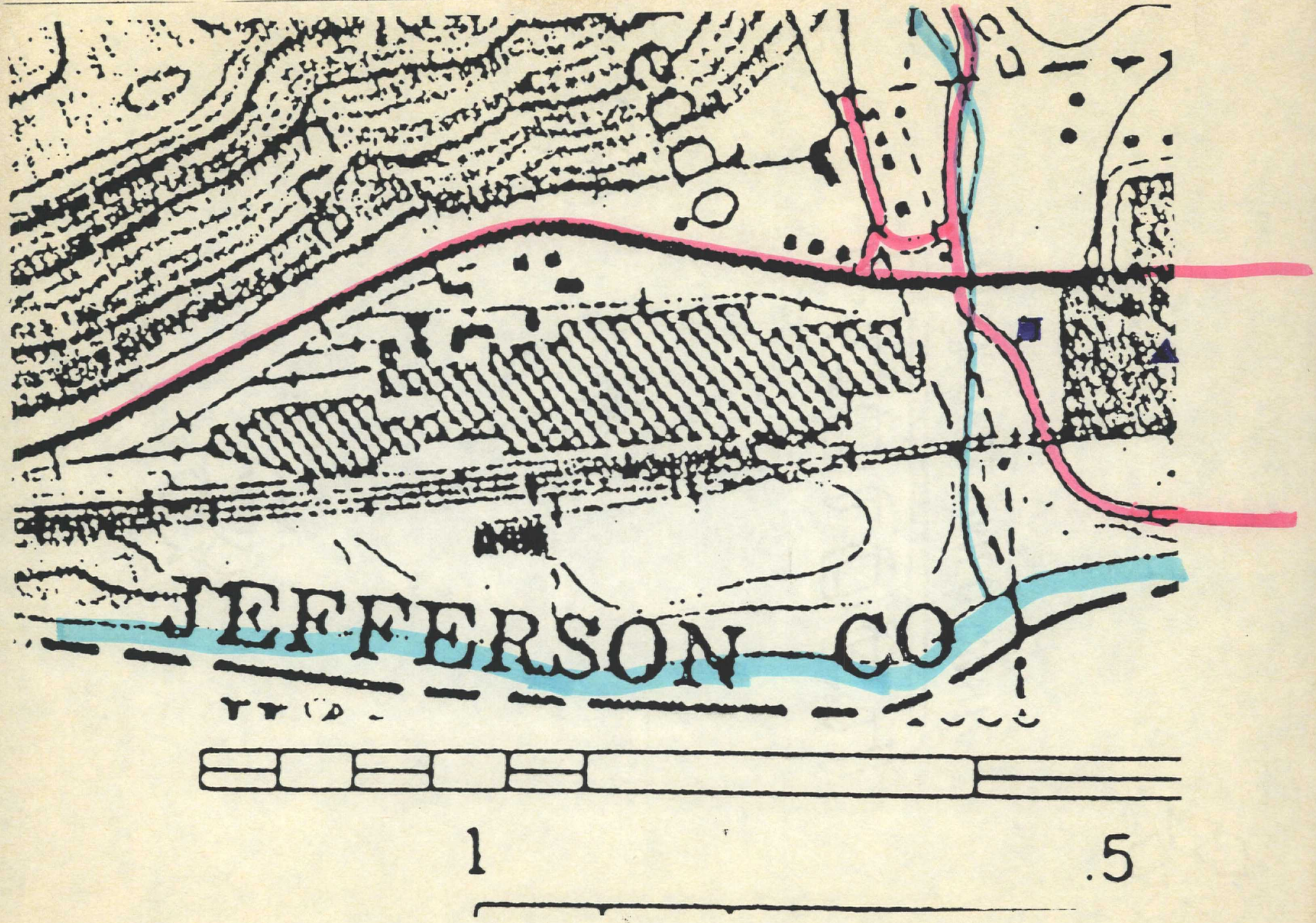
US EPA RECORDS CENTER REGION 5
482405





recycled paper

ecology and environment


JEFFERSON CO
1
.5

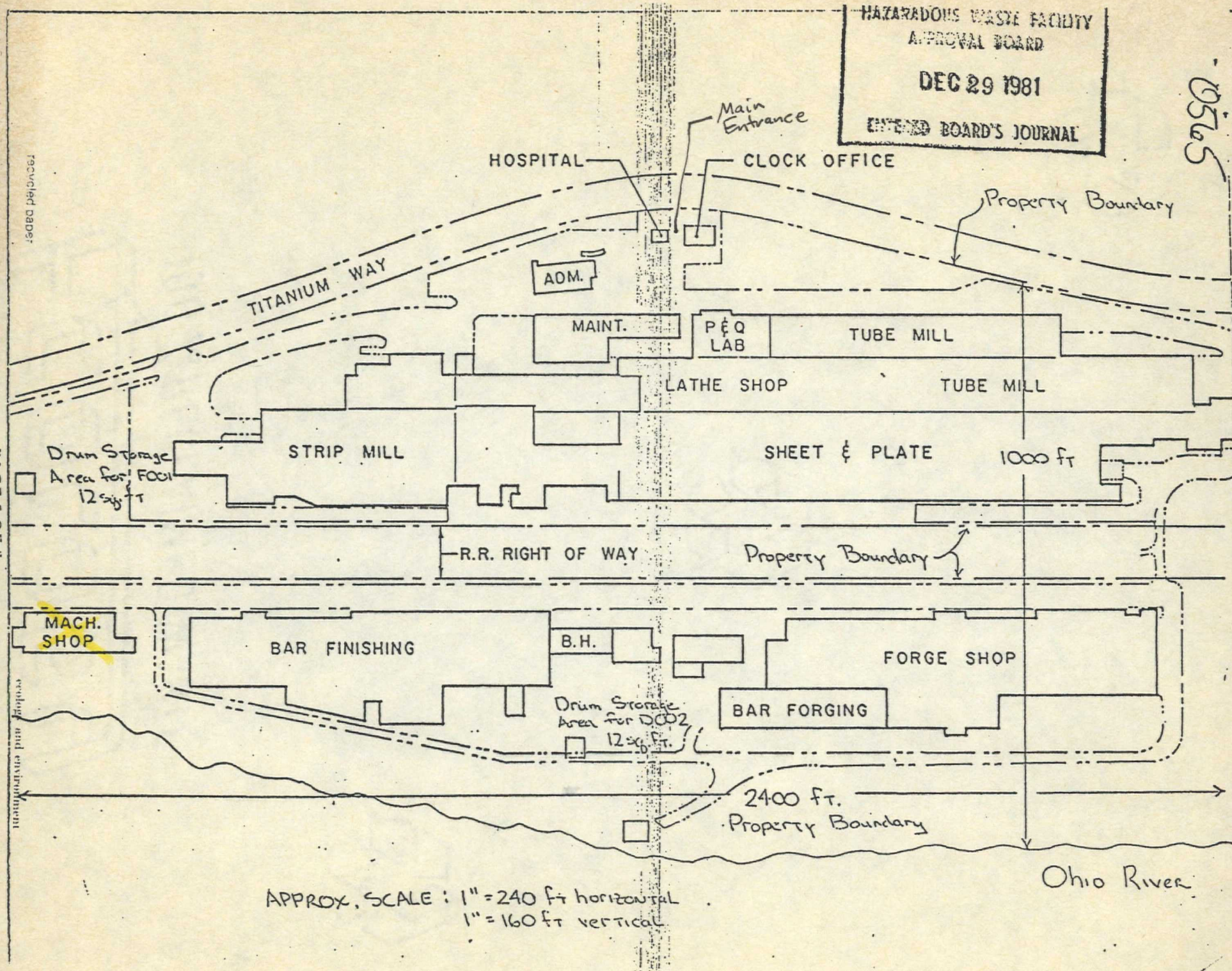
recycled paper

ecology and environment

HAZARADOUS WASTE FACILITY
APPROVAL BOARD
DEC 29 1981
ENTERED BOARD'S JOURNAL

-0565

V. FACILITY DRAWING (see page 4)

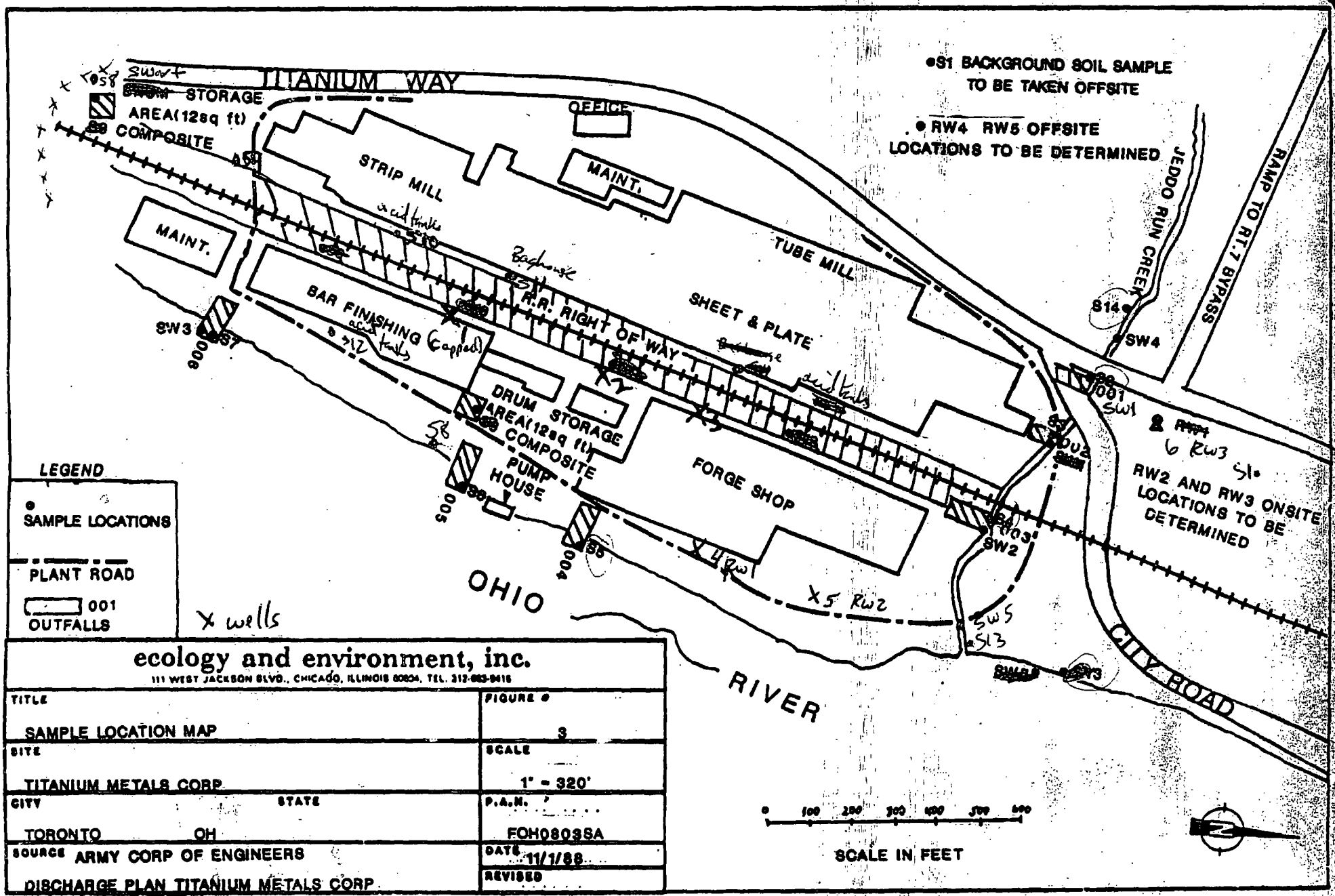


Form Approved OMB No. 158-S8

Recycled Paper

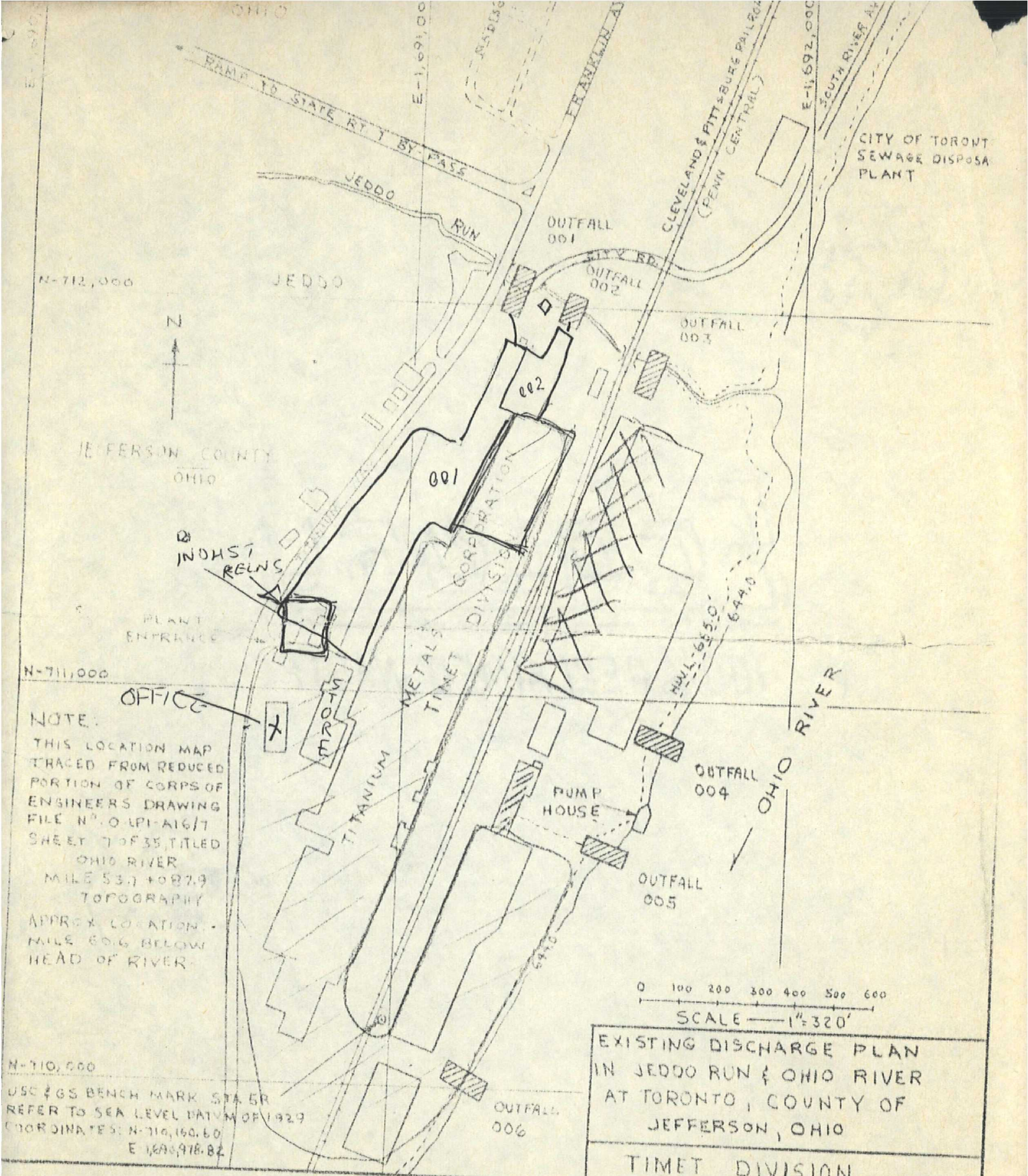
recycled paper

ecology and environment



ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: SAMPLE LOCATION MAP	FIGURE #: 3
SITE: TITANIUM METALS CORP	SCALE: 1" = 320'
CITY: TORONTO STATE: OH	P.A.N.: FOH0803SA
SOURCE: ARMY CORP OF ENGINEERS DISCHARGE PLAN TITANIUM METALS CORP	DATE: 11/1/88 REVISED:



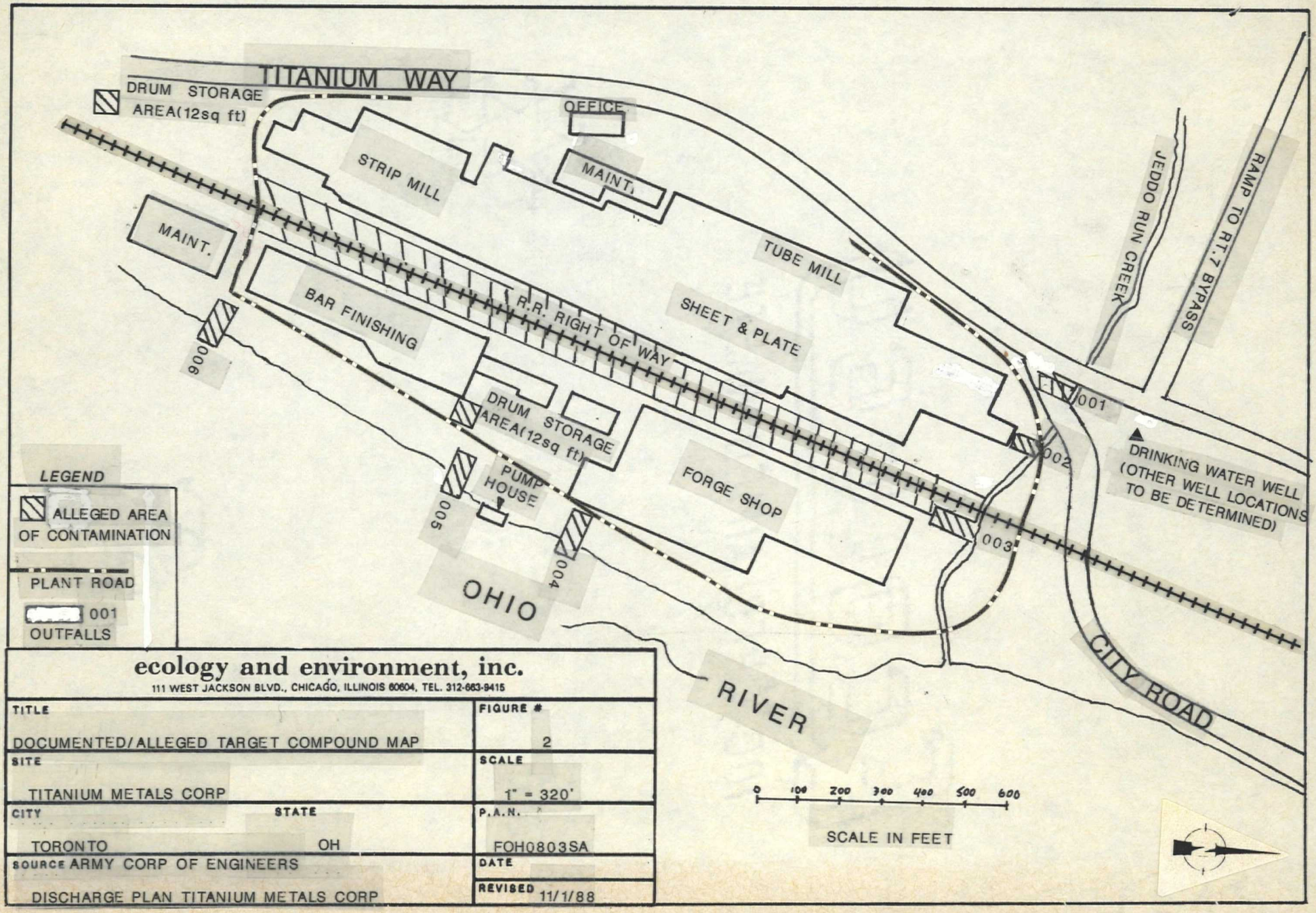
NOTE:
THIS LOCATION MAP TRACED FROM REDUCED PORTION OF CORPS OF ENGINEERS DRAWING FILE Nº. O-LPI-A16/7 SHEET 7 OF 35, TITLED OHIO RIVER MILE 53.7 TO 87.9 TOPOGRAPHY
APPROX LOCATION - MILE 60.6 BELOW HEAD OF RIVER

EXISTING DISCHARGE PLAN IN JEDDO RUN & OHIO RIVER AT TORONTO, COUNTY OF JEFFERSON, OHIO

TIMET DIVISION

S:

INGOTS ARE CONVERTED INTO SHEETS, STRIP, BILLETS, BARS, TUBES AND WIRE OF TITANIUM SHAPES AFTER PICKLING IN BATHS OF SULPHURIC, NITRIC, AND HYDROFLUORIC ACIDS. SHAPES ARE RINSED AFTER DESCALING IN MOLTEN POTASSIUM HYROXIDE SALT

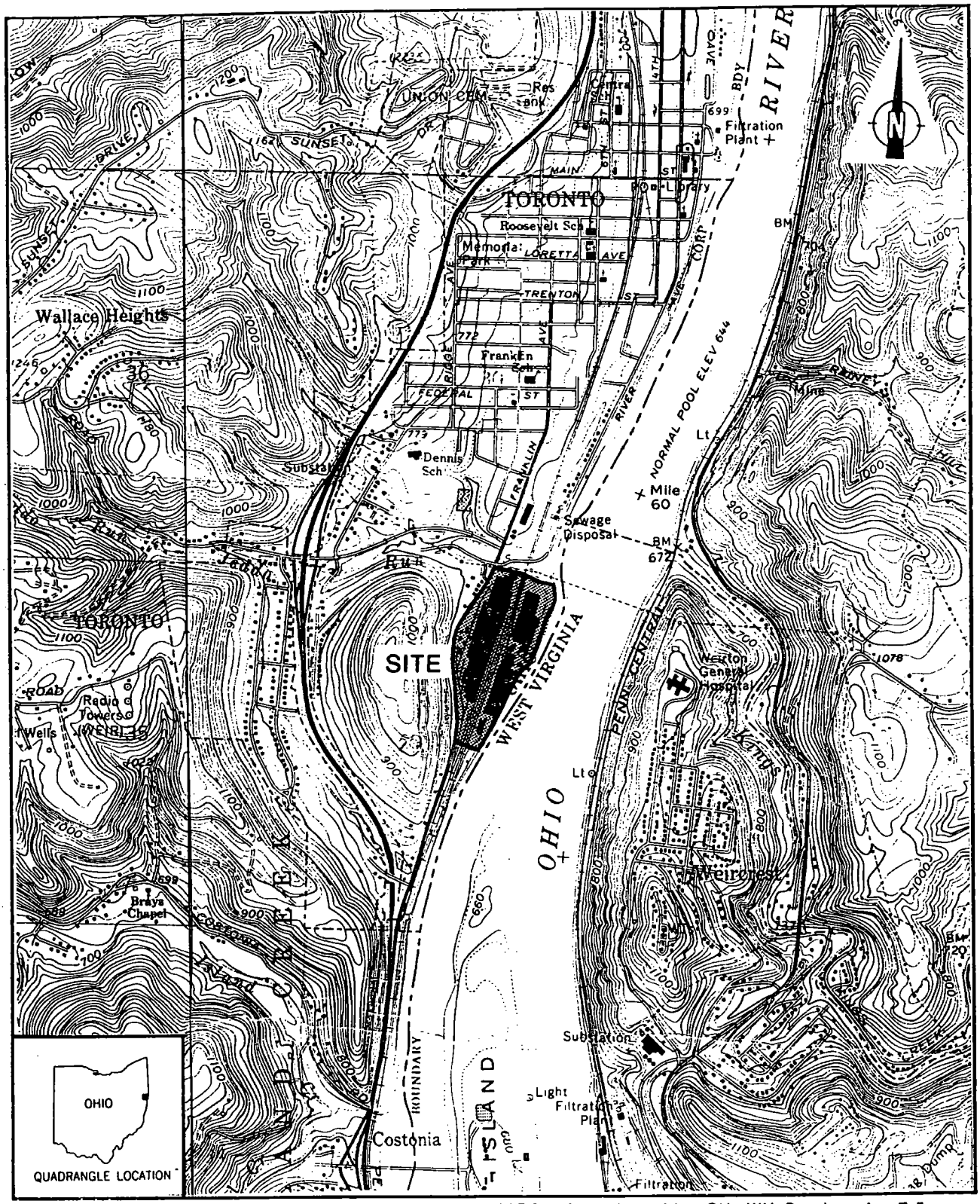


ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: DOCUMENTED/ALLEGED TARGET COMPOUND MAP	FIGURE #: 2
SITE: TITANIUM METALS CORP	SCALE: 1" = 320'
CITY: TORONTO STATE: OH	P.A.N.: FOH0803SA
SOURCE: ARMY CORP OF ENGINEERS	DATE:
DISCHARGE PLAN TITANIUM METALS CORP	REVISED: 11/1/88

recycled paper

ecology and environment

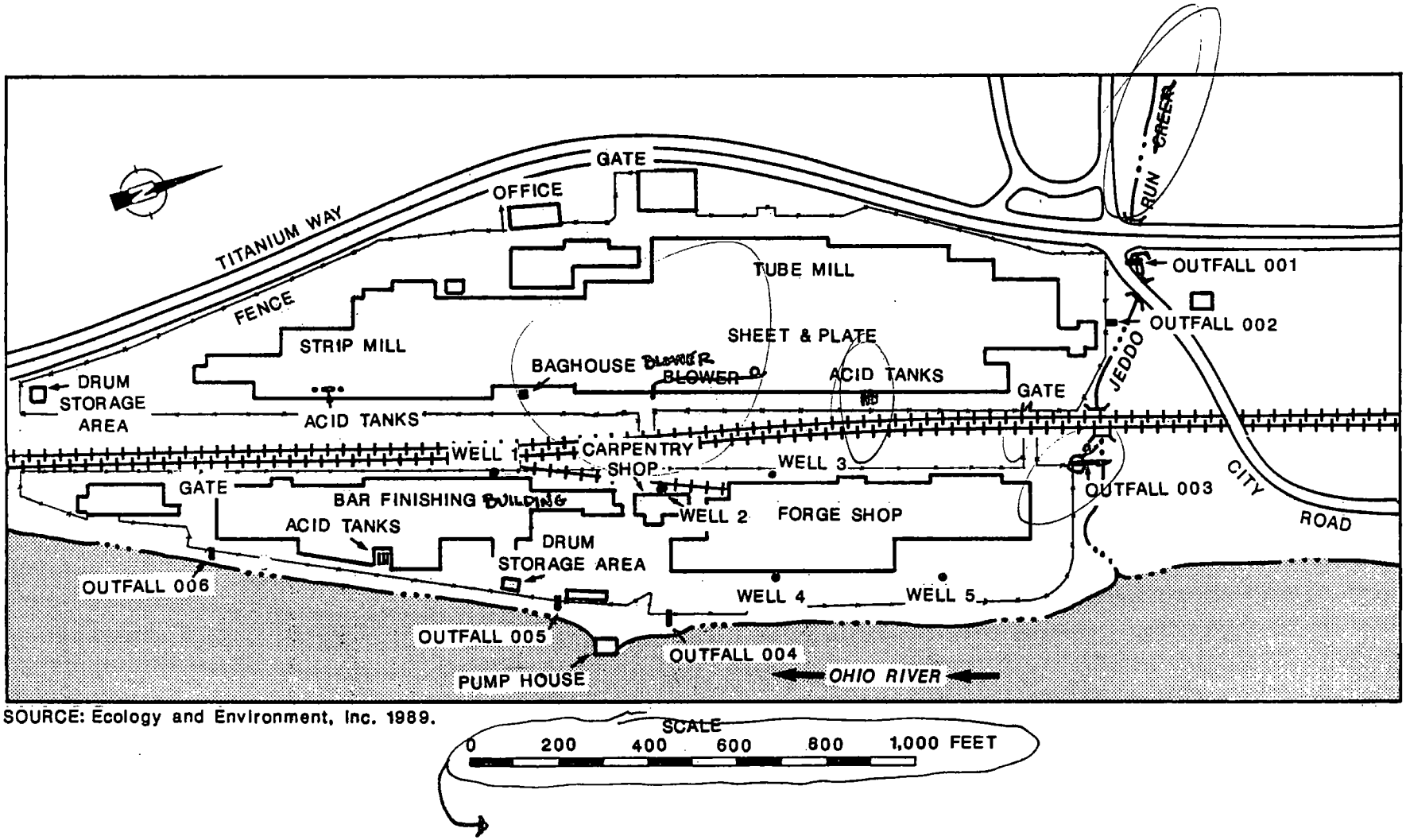


SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968

SCALE

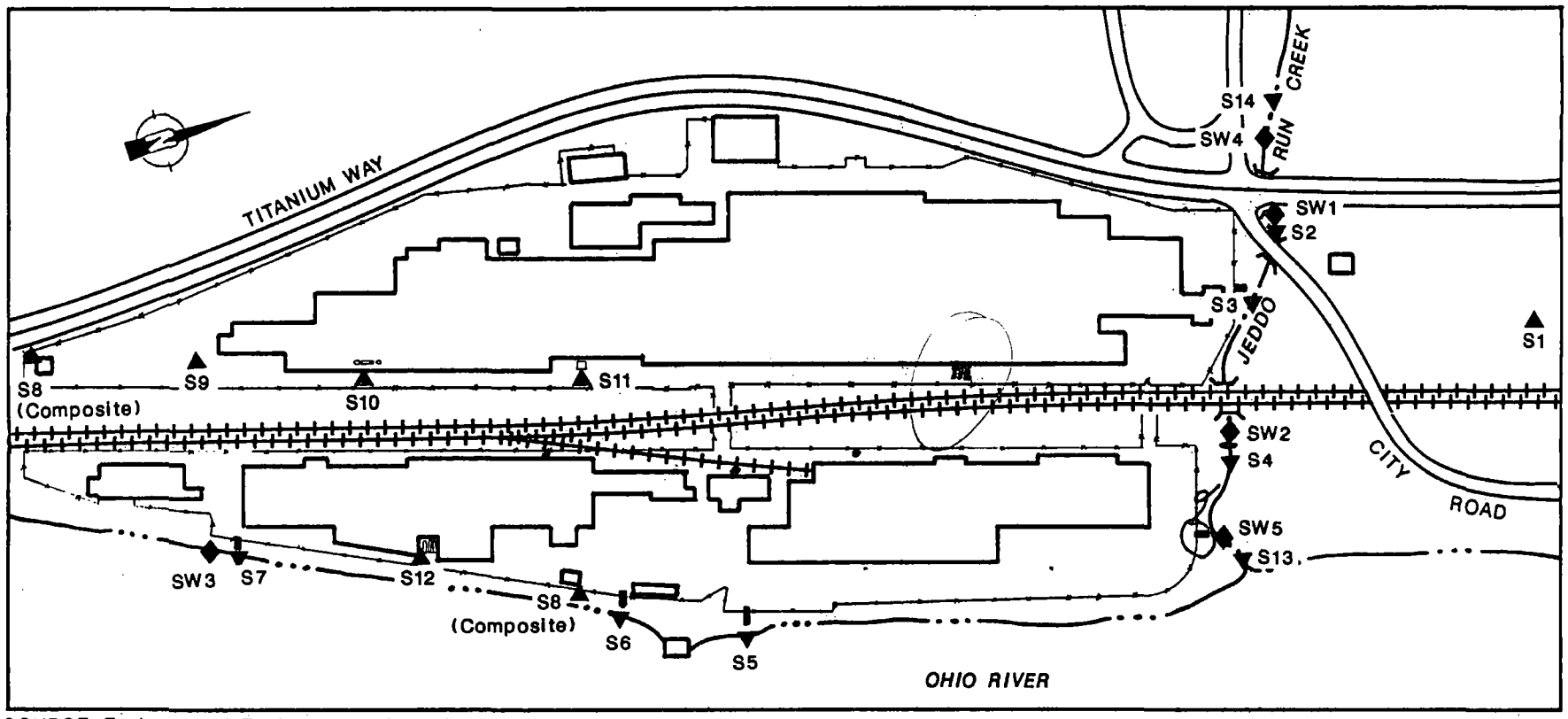
0 ½ 1 MILE

FIGURE 2-1 SITE LOCATION



SOURCE: Ecology and Environment, Inc. 1989.

FIGURE 3-1 SITE FEATURES



SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1,000 FEET

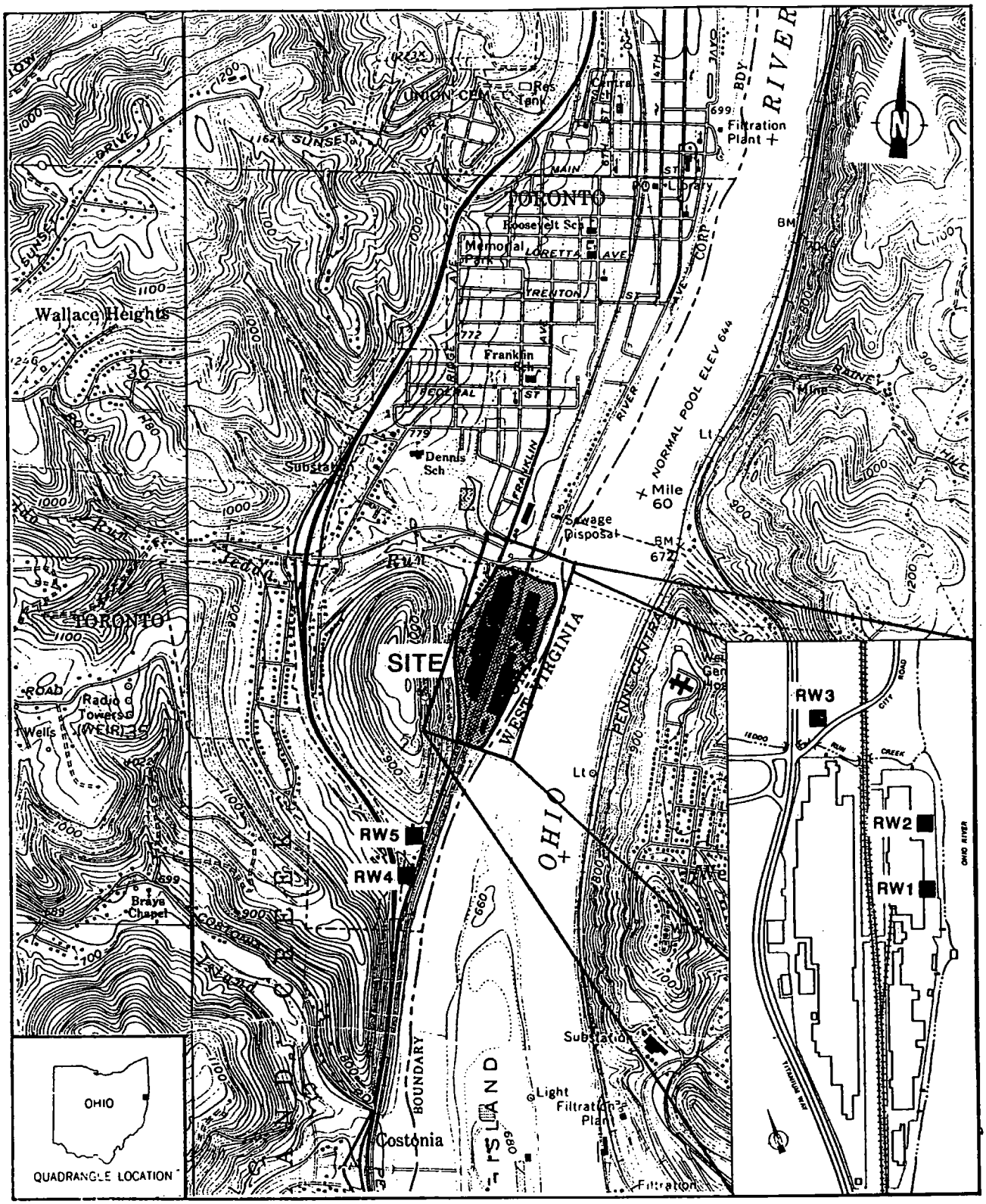
LEGEND

▲ SOIL SAMPLE

▼ SEDIMENT SAMPLE

◆ SURFACE WATER SAMPLE

FIGURE 3-2 SOIL, SEDIMENT, AND SURFACE WATER SAMPLING LOCATIONS

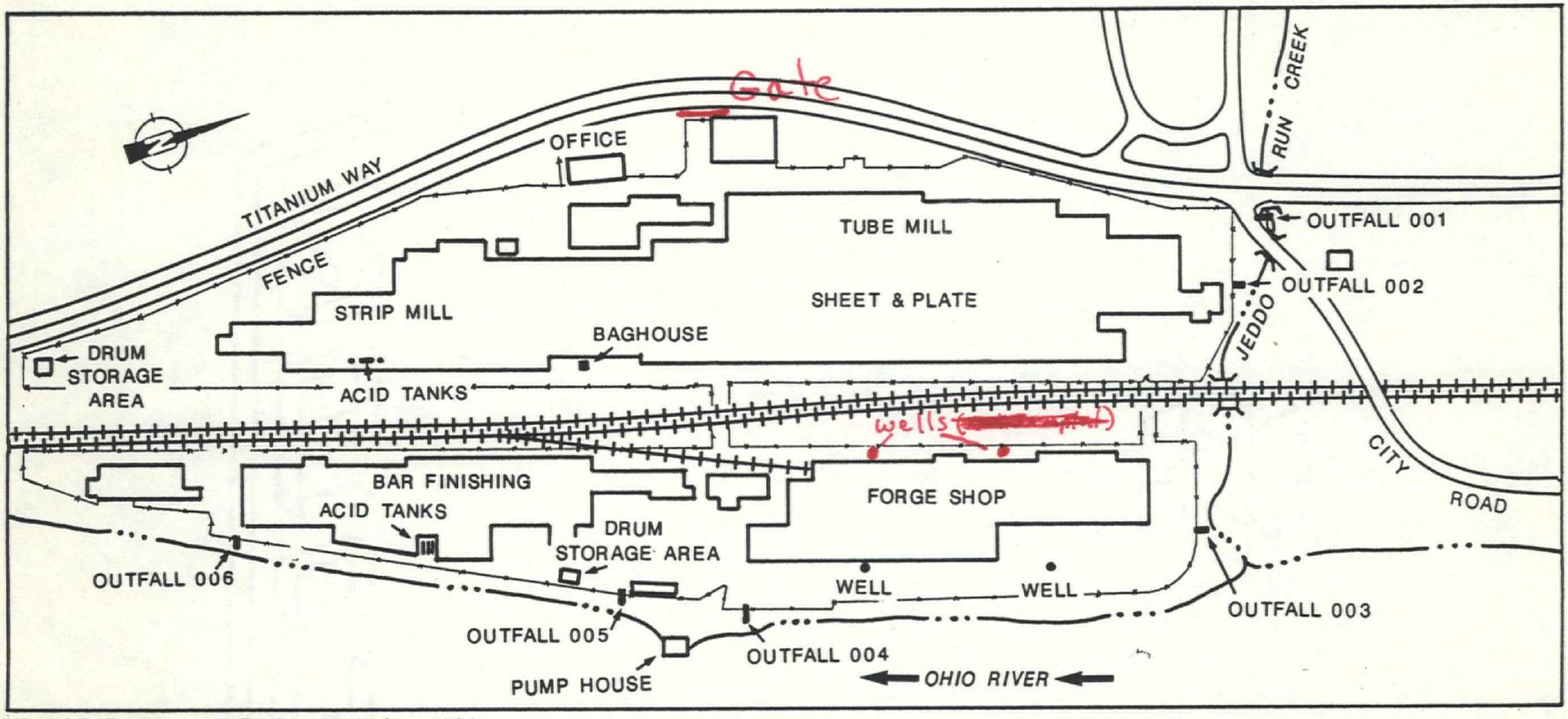


SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968

SCALE

0 ½ 1 MILE

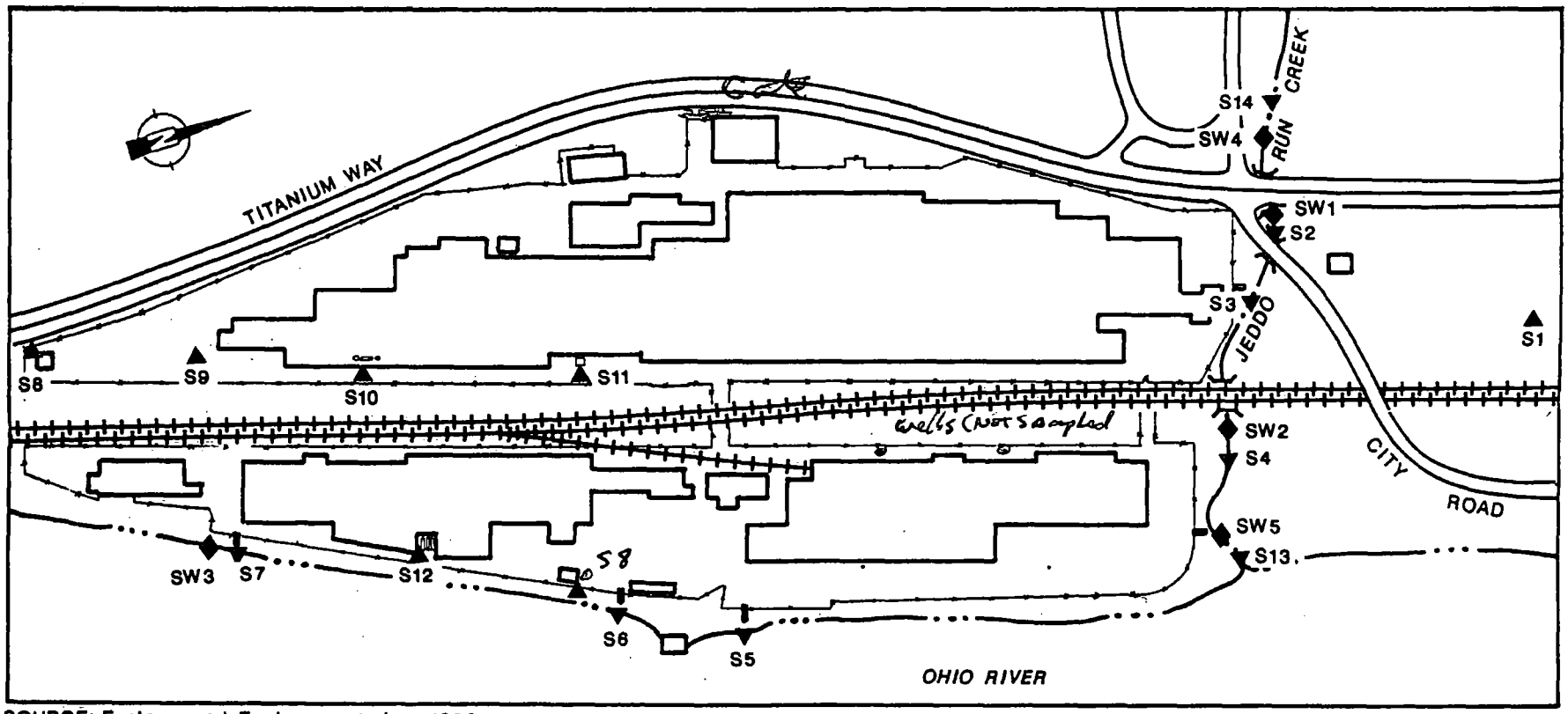
FIGURE 3-3 GROUNDWATER SAMPLING LOCATIONS



SOURCE: Ecology and Environment, Inc. 1989.

SCALE
0 200 400 600 800 1000 FEET

FIGURE 3-1 SITE FEATURES



SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1000 FEET

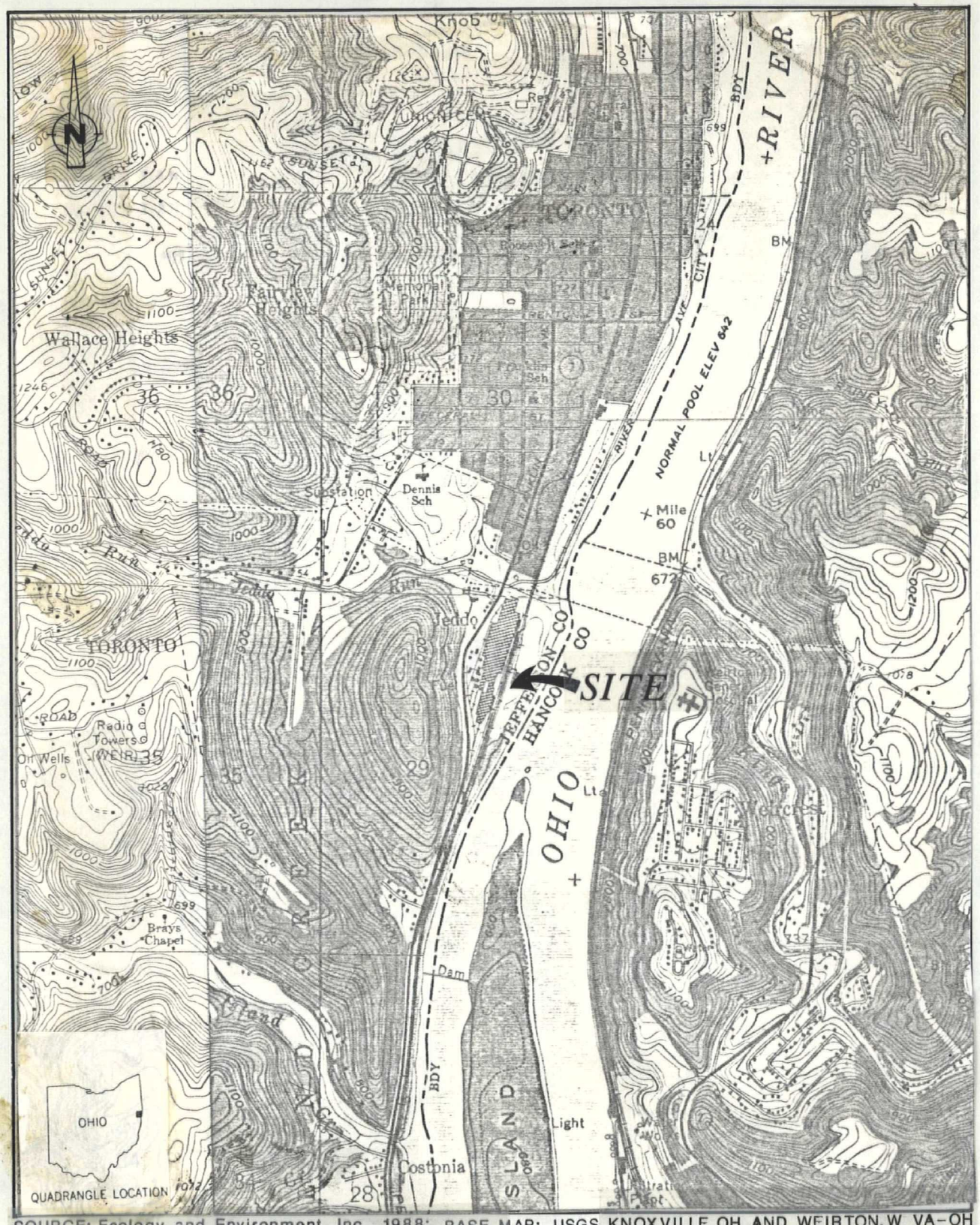
LEGEND

▲ SOIL SAMPLE

▼ SEDIMENT SAMPLE

◆ SURFACE WATER SAMPLE

FIGURE 3-2 SOIL, SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS

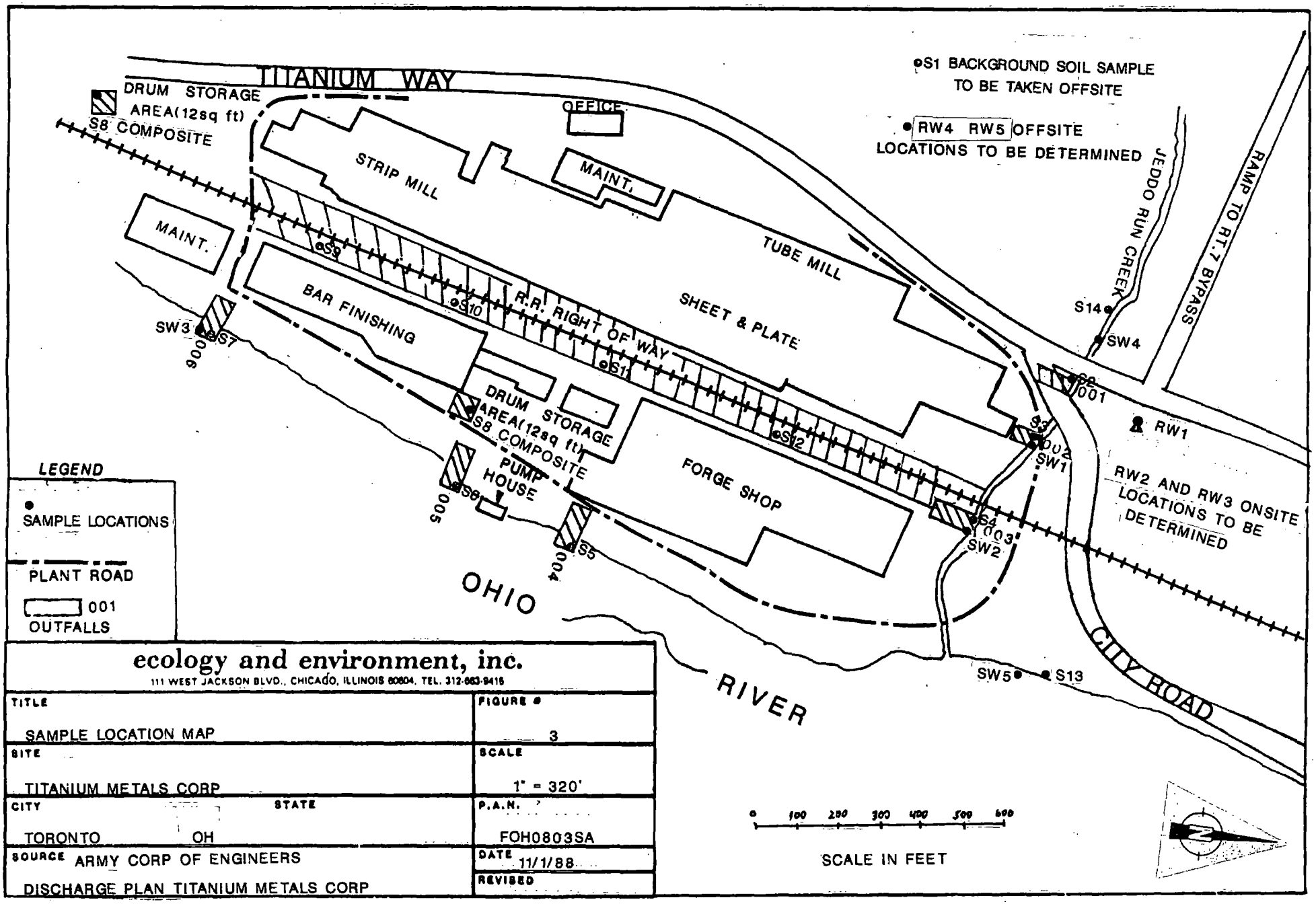


SOURCE: Ecology and Environment, Inc., 1988; BASE MAP: USGS KNOXVILLE, OH AND WEIRTON, W VA-OH QUADRANGLES, 7.5 MINUTE SERIES, 1984, 1958

SCALE

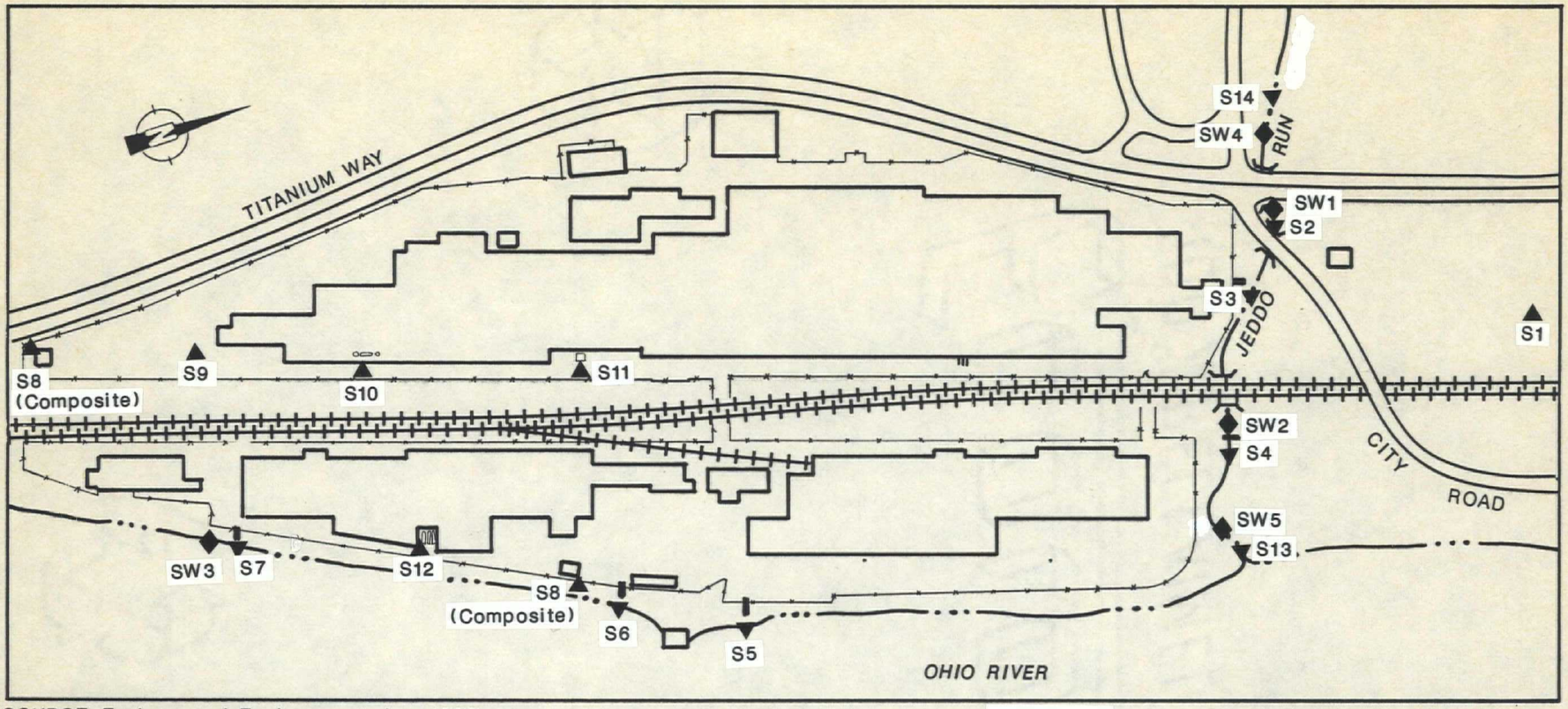
0 0.5 1 MILE

FIGURE 2-1 SITE LOCATION



ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: SAMPLE LOCATION MAP	FIGURE #: 3
SITE: TITANIUM METALS CORP	SCALE: 1" = 320'
CITY: TORONTO STATE: OH	P.A.N.: FOH0803SA
SOURCE: ARMY CORP OF ENGINEERS	DATE: 11/1/88
DISCHARGE PLAN TITANIUM METALS CORP	REVISED:



SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1,000 FEET

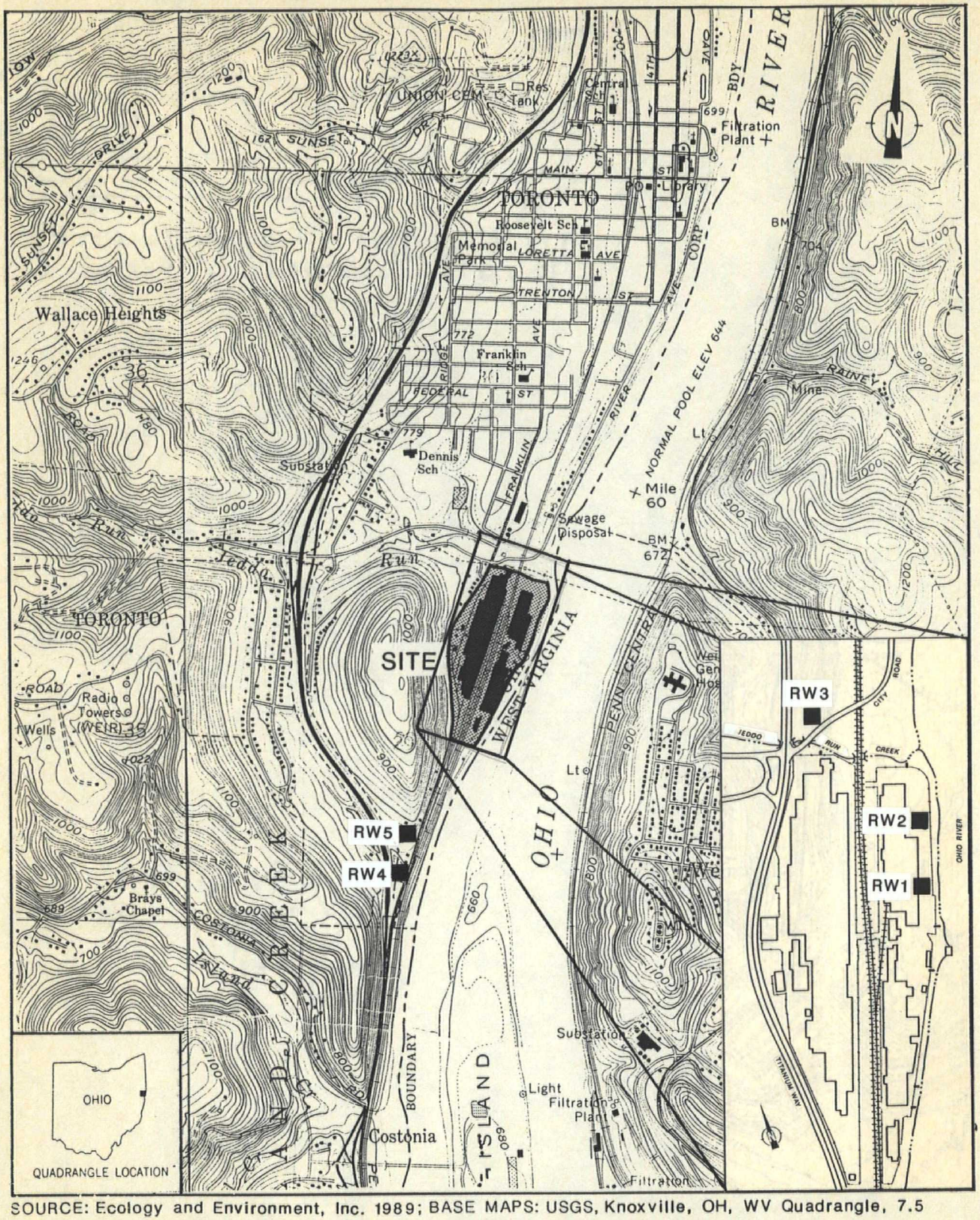
LEGEND

▲ SOIL SAMPLE

▼ SEDIMENT SAMPLE

◆ SURFACE WATER SAMPLE

FIGURE 3-2 SOIL/SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968.

SCALE

0 ½ 1 MILE

FIGURE 3-3 GROUNDWATER SAMPLING LOCATIONS

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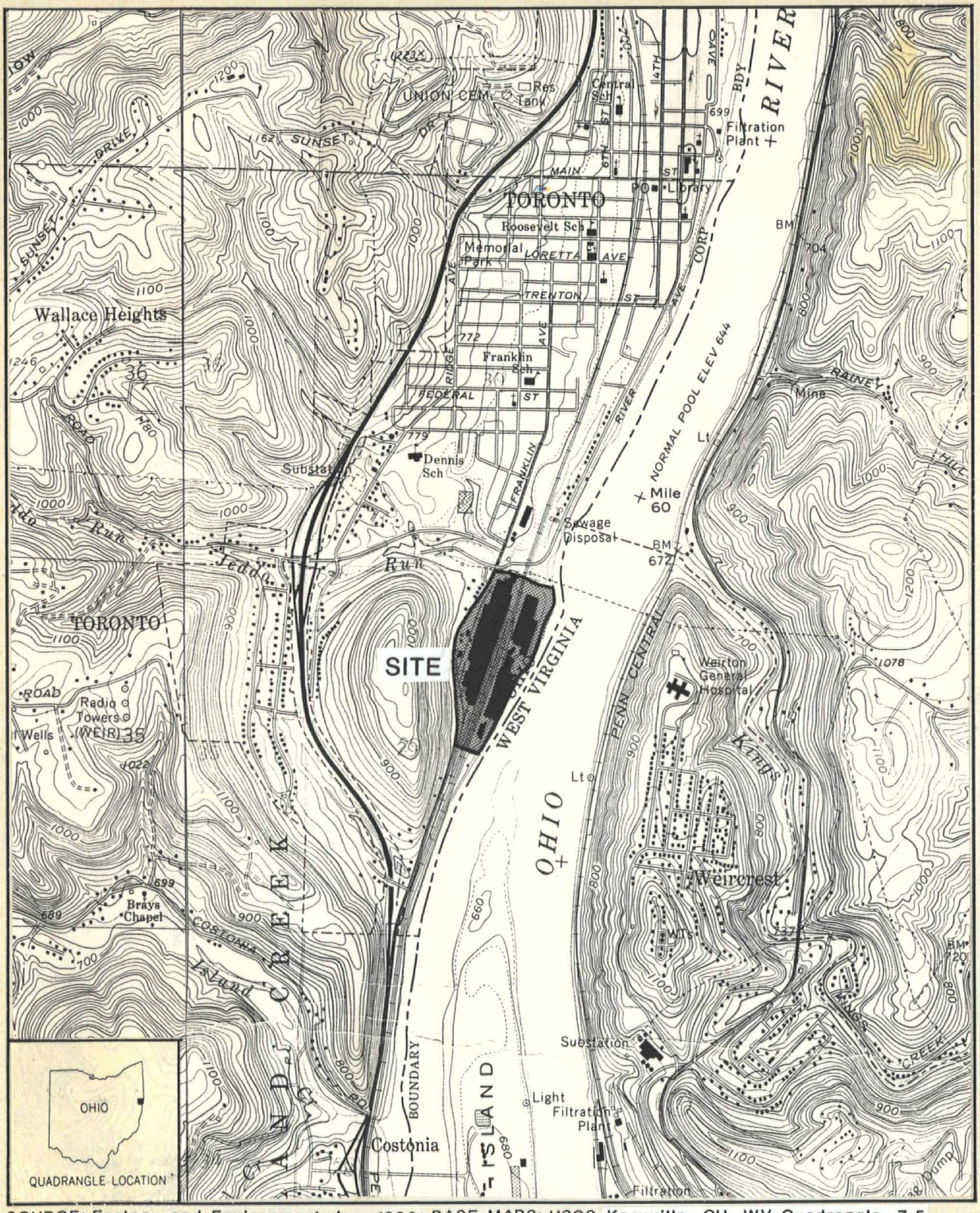
ecology and environment



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968.

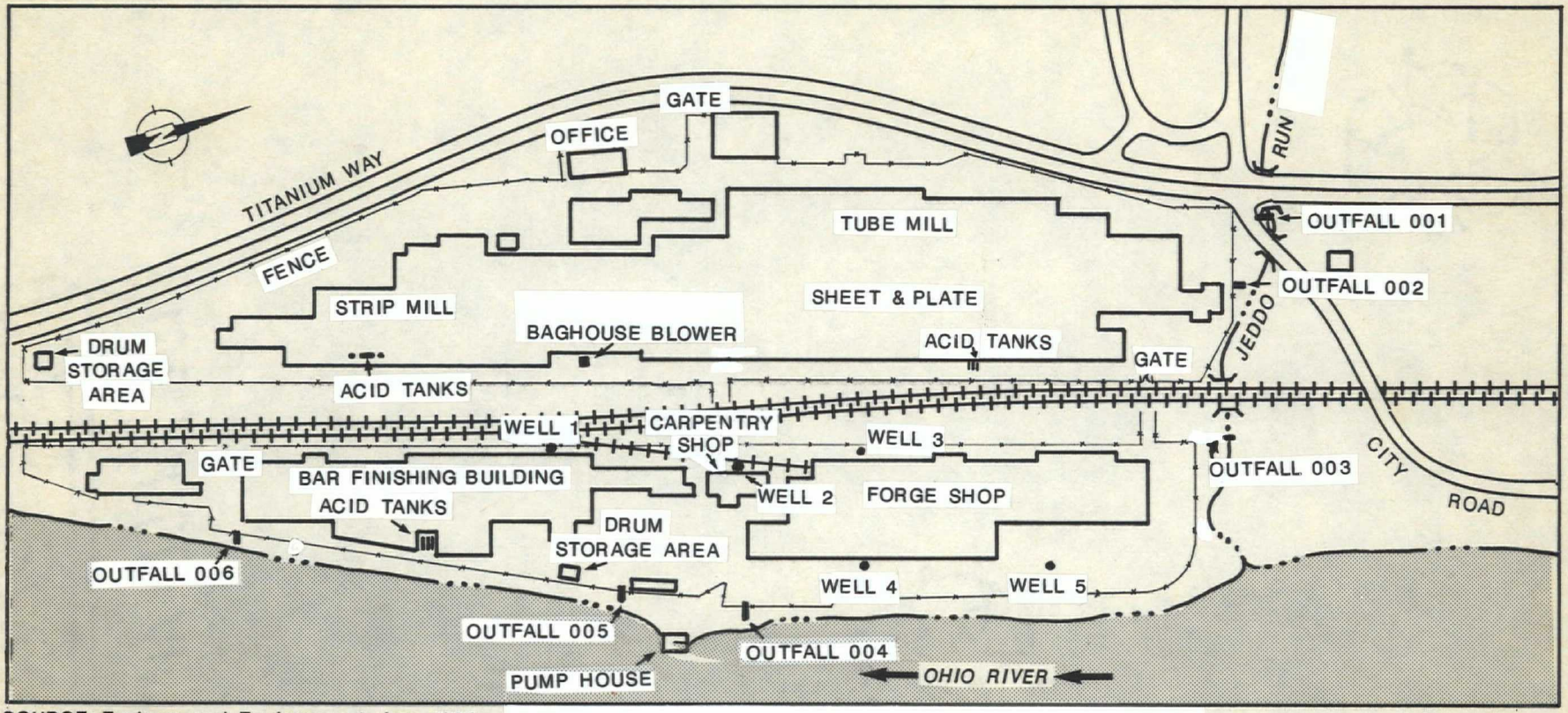
SCALE

0 ½ 1 MILE

FIGURE 2-1 SITE LOCATION

recycled paper

ecology and environment

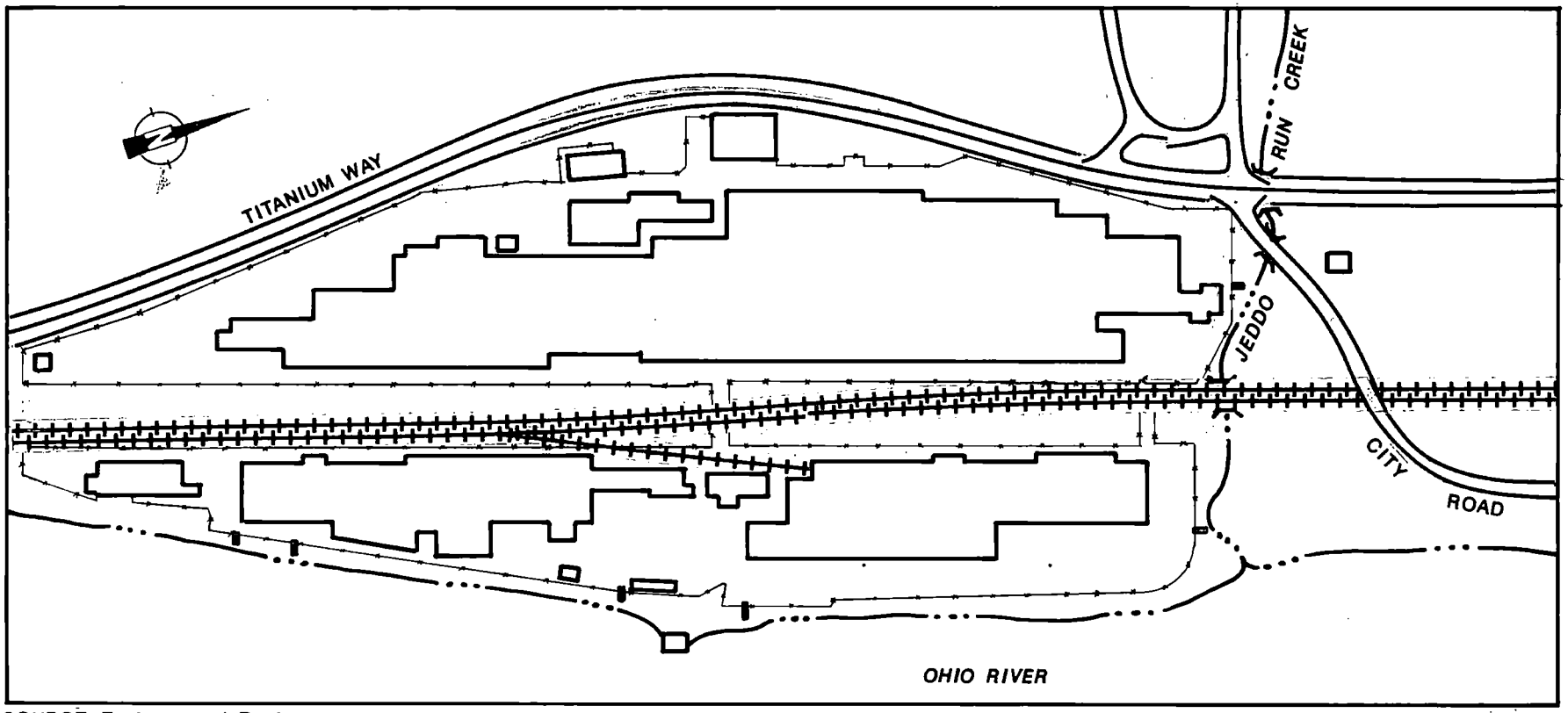


SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1,000 FEET

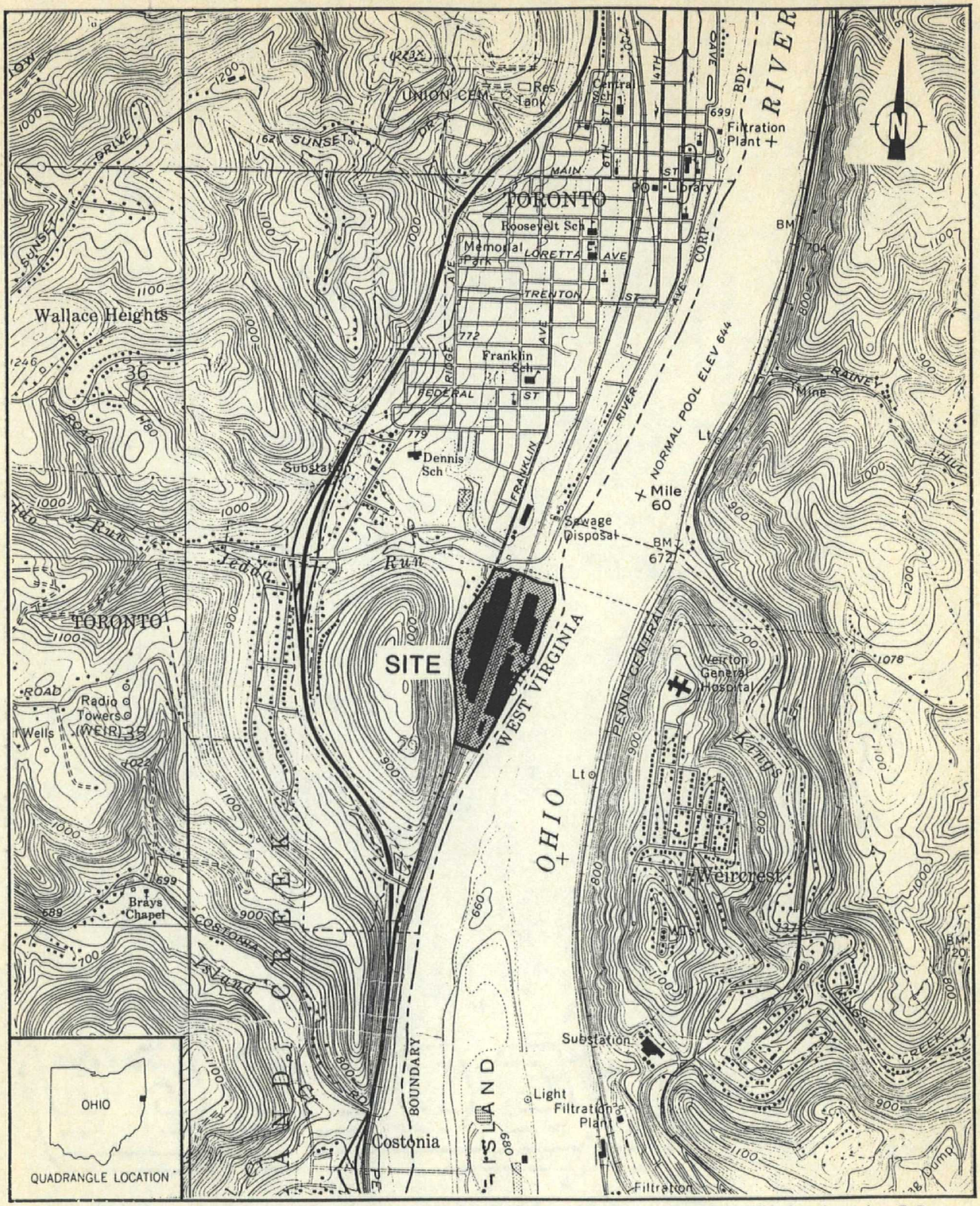
FIGURE 3-1 SITE FEATURES



SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1000 FEET



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968.

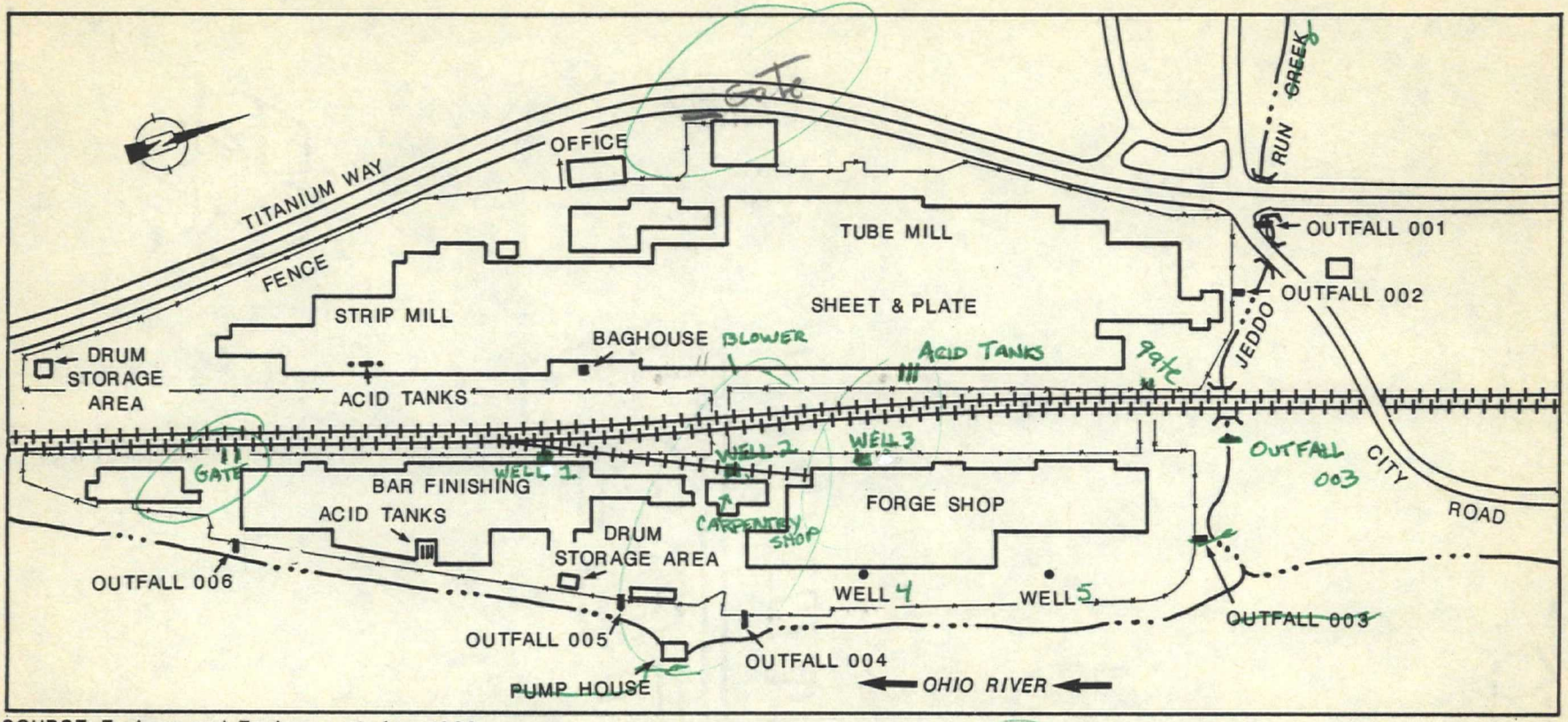
SCALE

0 ½ 1 MILE

FIGURE 2-1 SITE LOCATION

recycled paper

ecology and environment



SOURCE: Ecology and Environment, Inc. 1989.

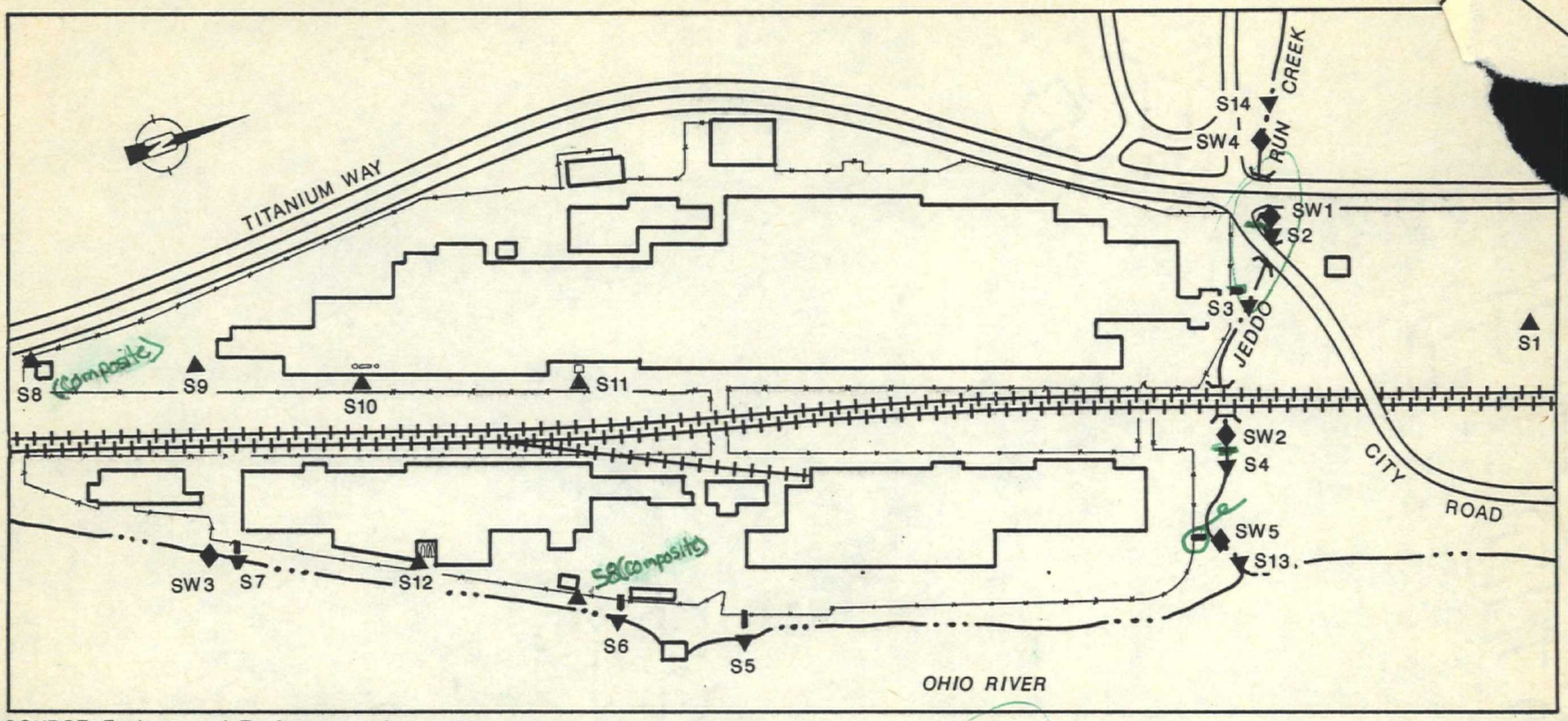
SCALE
0 200 400 600 800 1000 FEET

OHIO RIVER NEEDS TO LOOK MORE LIKE RIVER

FIGURE 3-1 SITE FEATURES

recycled paper

ecology and environment



SOURCE: Ecology and Environment, Inc. 1989.

SCALE

0 200 400 600 800 1000 FEET

LEGEND

▲ SOIL SAMPLE

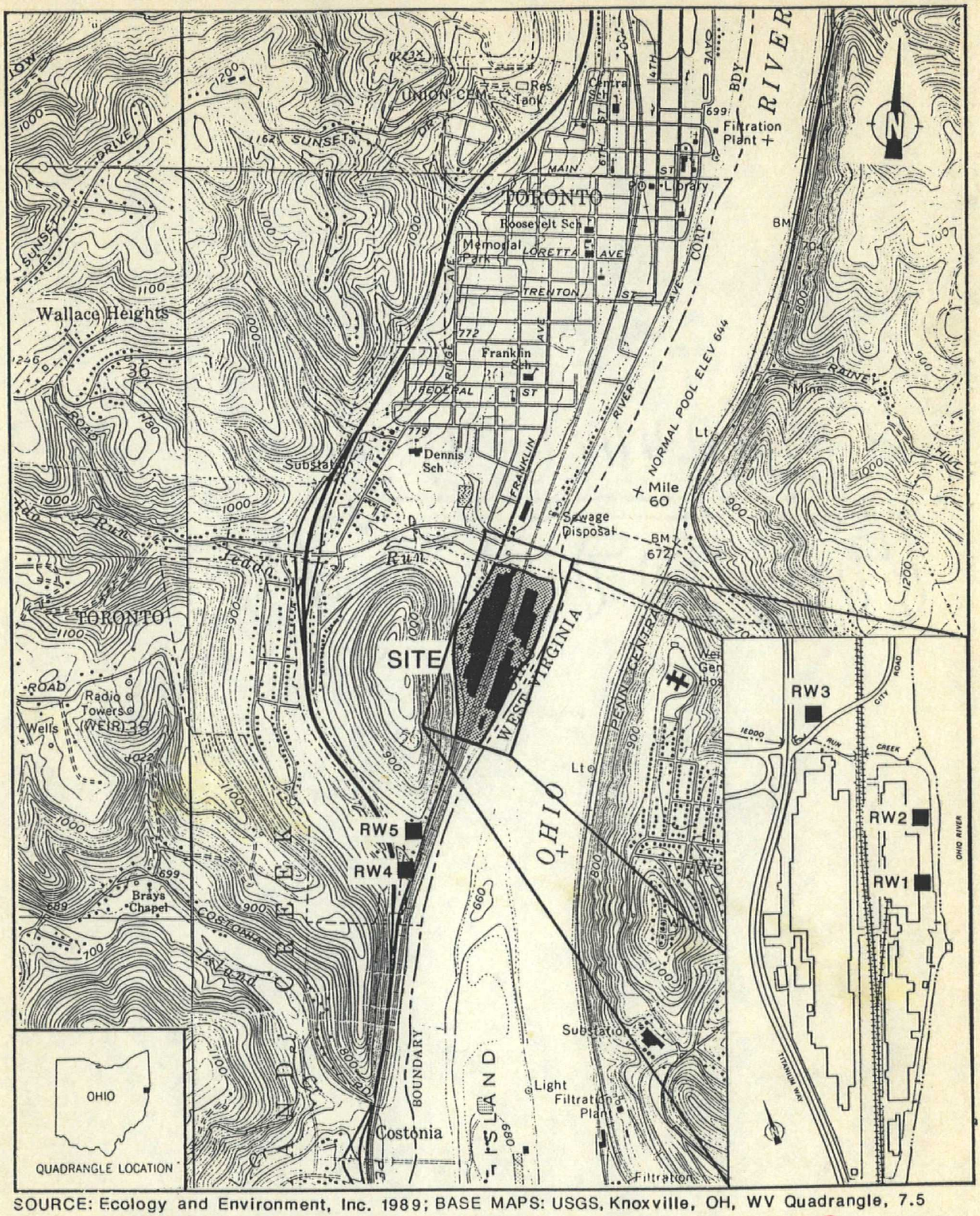
▼ SEDIMENT SAMPLE

◆ SURFACE WATER SAMPLE

FIGURE 3-2 SOIL/SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS

recycled paper

ecology and environment



SOURCE: Ecology and Environment, Inc. 1989; BASE MAPS: USGS, Knoxville, OH, WV Quadrangle, 7.5 Minute Series, 1968; Weirton WV, PA, OH Quadrangle, 7.5 Minute Series, 1968

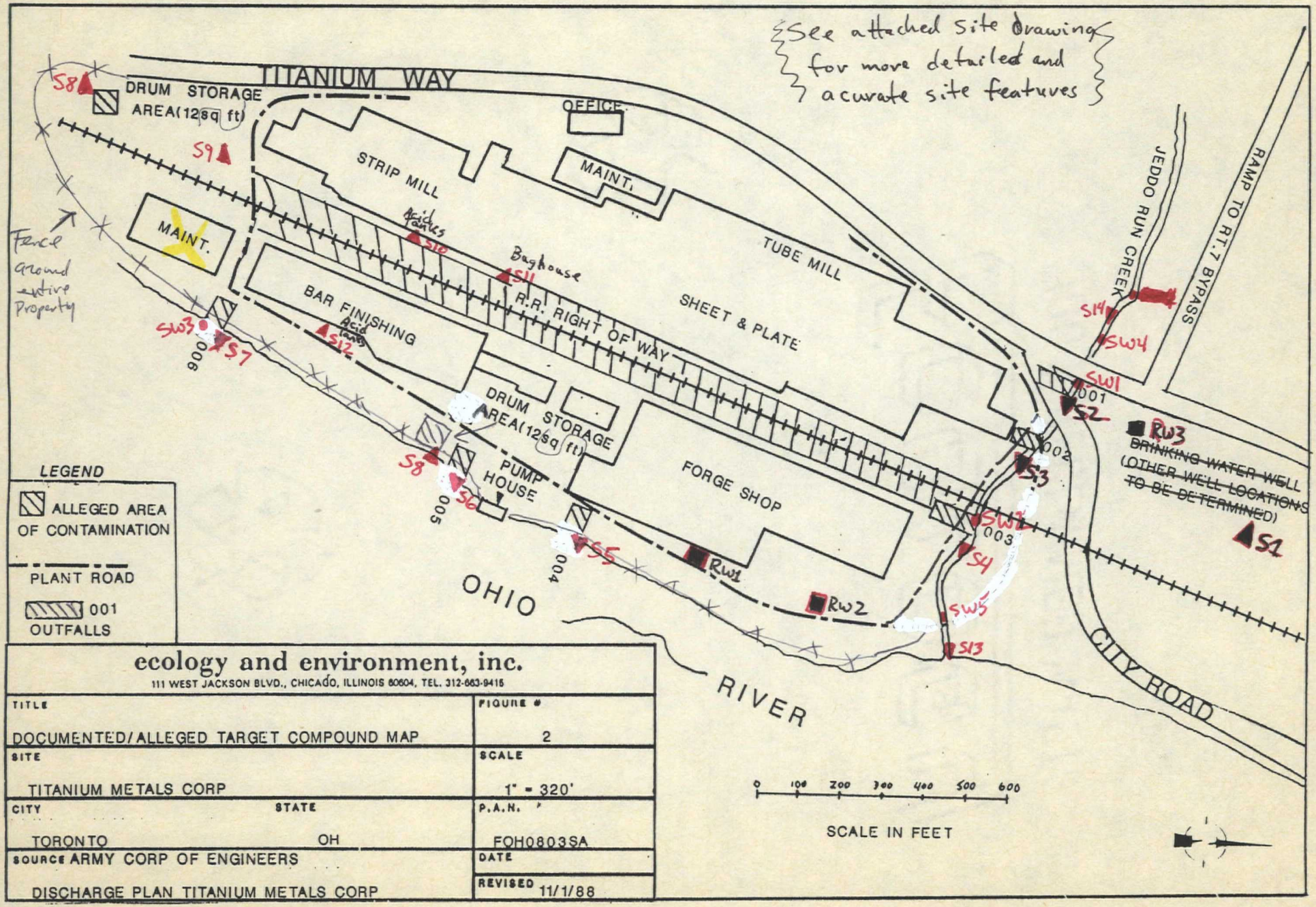
SCALE

0 ½ 1 MILE

FIGURE 3-3 ~~RESIDENTIAL WELL~~ GROUNDWATER SAMPLING LOCATIONS

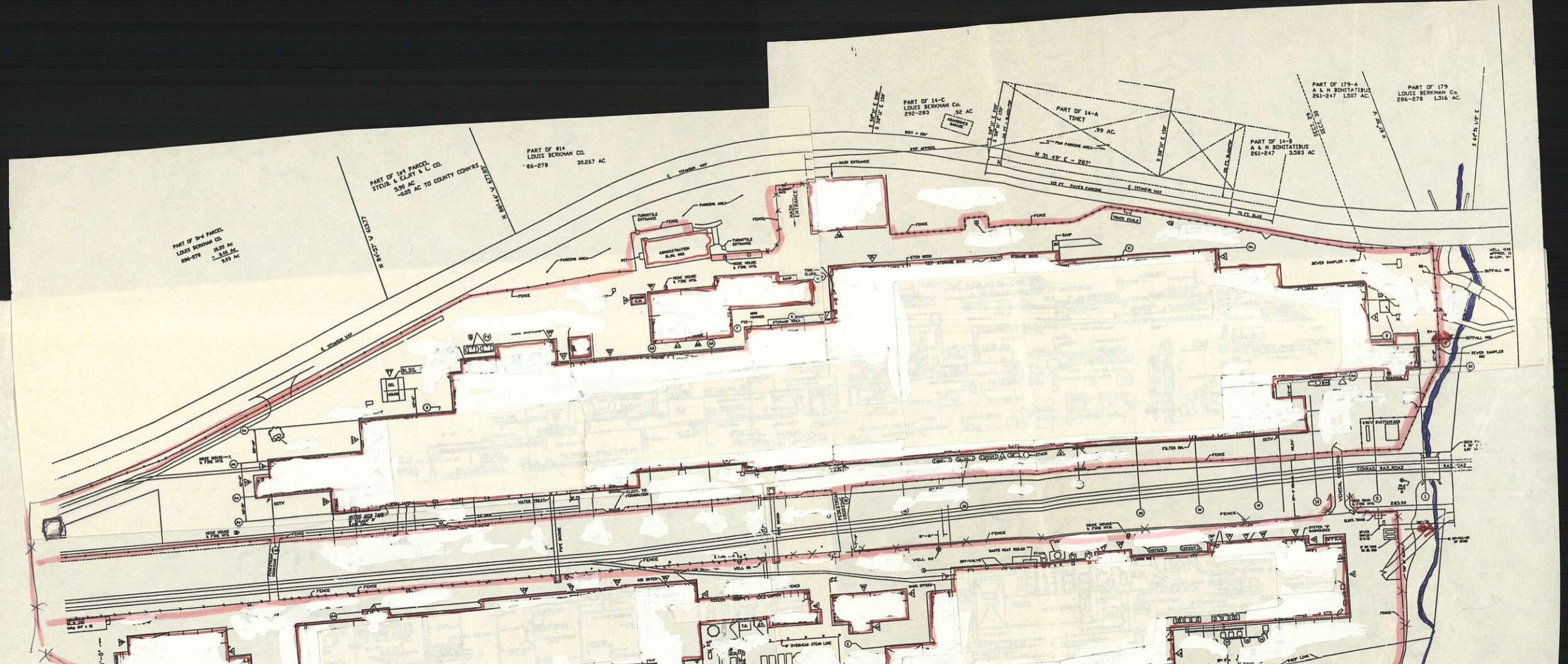
recycled paper

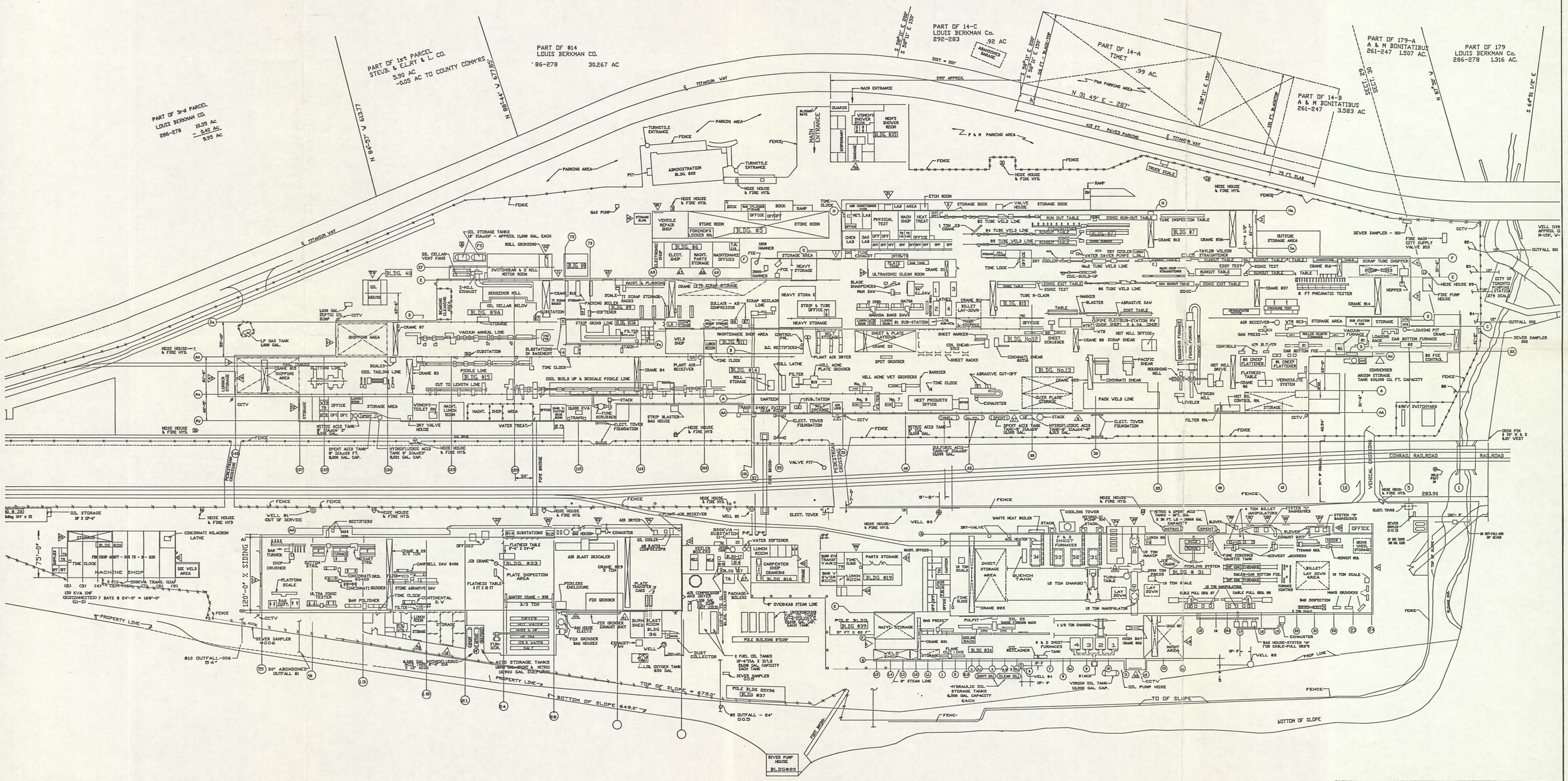
ecology and environment



ecology and environment, inc.
111 WEST JACKSON BLVD., CHICAGO, ILLINOIS 60604, TEL. 312-663-9415

TITLE: DOCUMENTED/ALLEGED TARGET COMPOUND MAP	FIGURE #: 2
SITE: TITANIUM METALS CORP	SCALE: 1" = 320'
CITY: TORONTO STATE: OH	P.A.N.: FOH0803SA
SOURCE: ARMY CORP OF ENGINEERS DISCHARGE PLAN TITANIUM METALS CORP	DATE: REVISED 11/1/88


PART OF 3rd PARCEL
LOUIS BERKMAN CO.
286-278
PART OF 1st PARCEL
STEUB. & C.L.RY & L. CO.
5.90 AC
-0.05 AC TO COUNTY COMM'RS
PART OF 814
LOUIS BERKMAN CO.
86-278
30.267 AC
PART OF 14-C
LOUIS BERKMAN Co.
292-283
.92 AC
PART OF 14-A
TIMET
.99 AC.
PART OF 14-B
A & M BONITATIBUS
261-247
3.583 AC
PART OF 179-A
A & M BONITATIBUS
261-247
1.507 AC.
PART OF 179
LOUIS BERKMAN Co.
286-278
1.316 AC.
N 31 49' E - 287'
MAIN ENTRANCE
ADMINISTRATION
TURNSTILE ENTRANCE
PARKING AREA
FENCE
TRUCK SCALE
RAMP
CONRAIL RAILROAD
VEHICAL CROSSING
OFFICE
WATER TREAT
FILTER RM.
SEWER SAMPLER
OUTFALL
CCTV
HOSE HOUSE & FIRE HYD.
WASTE HEAT BOILER
STACK
INSTRUCT
IMPORT
SWITCHYARD
283.99



TITANIUM METALS CORP. OF AMERICA TORONTO, OHIO	
TITLE BUILDINGS AND GROUNDS PLANT MAP - EQUIPMENT ARRANGEMENT PLANT - PLAN	
SCALE: 1" = 80'-0"	DWG. NO. 75-R-475
	REV. 13

ecology and environment, inc.

REFERENCE
SITE NAME
SITE ID

USGS TOPOGRAPHIC MAPS:

NAME Wellsville, OH-WVA	NAME E. Liverpool S., OH-WVA
DATE 1960	DATE 1960
REVISED 1985	REVISED 1978
NAME Steubenville, OH	NAME Weirton W.VA.-OH
DATE 1968	DATE 1958
REVISED 1984	REVISED

SCALE

0 ½ 1 MILE

QUADRANGLE LOCATION

Jeff Co - 2.76/household Toronto - 4120 Weirton - 24,736

REFERENCE ....
SITE NAME Titanium Metals Corp
SITE ID OHD 098435134

ecology and environment, inc.

USGS TOPOGRAPHIC MAPS:

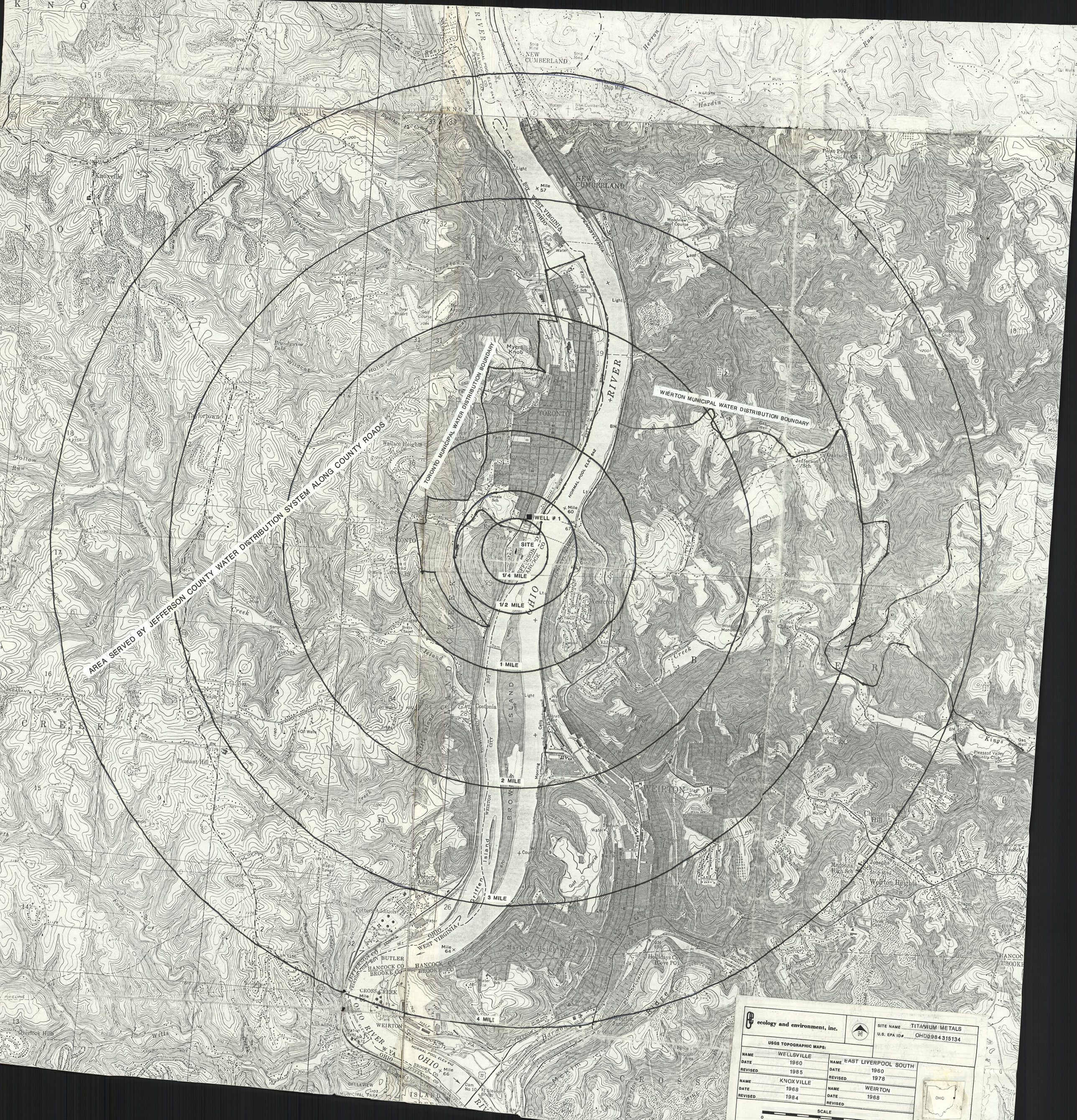
NAME Knoxville, Ohio-W.VA
DATE 1968
REVISED 1984
NAME
DATE
REVISED

NAME Weirton, W.VA-PA-OHIO
DATE
REVISED
NAME
DATE
REVISED

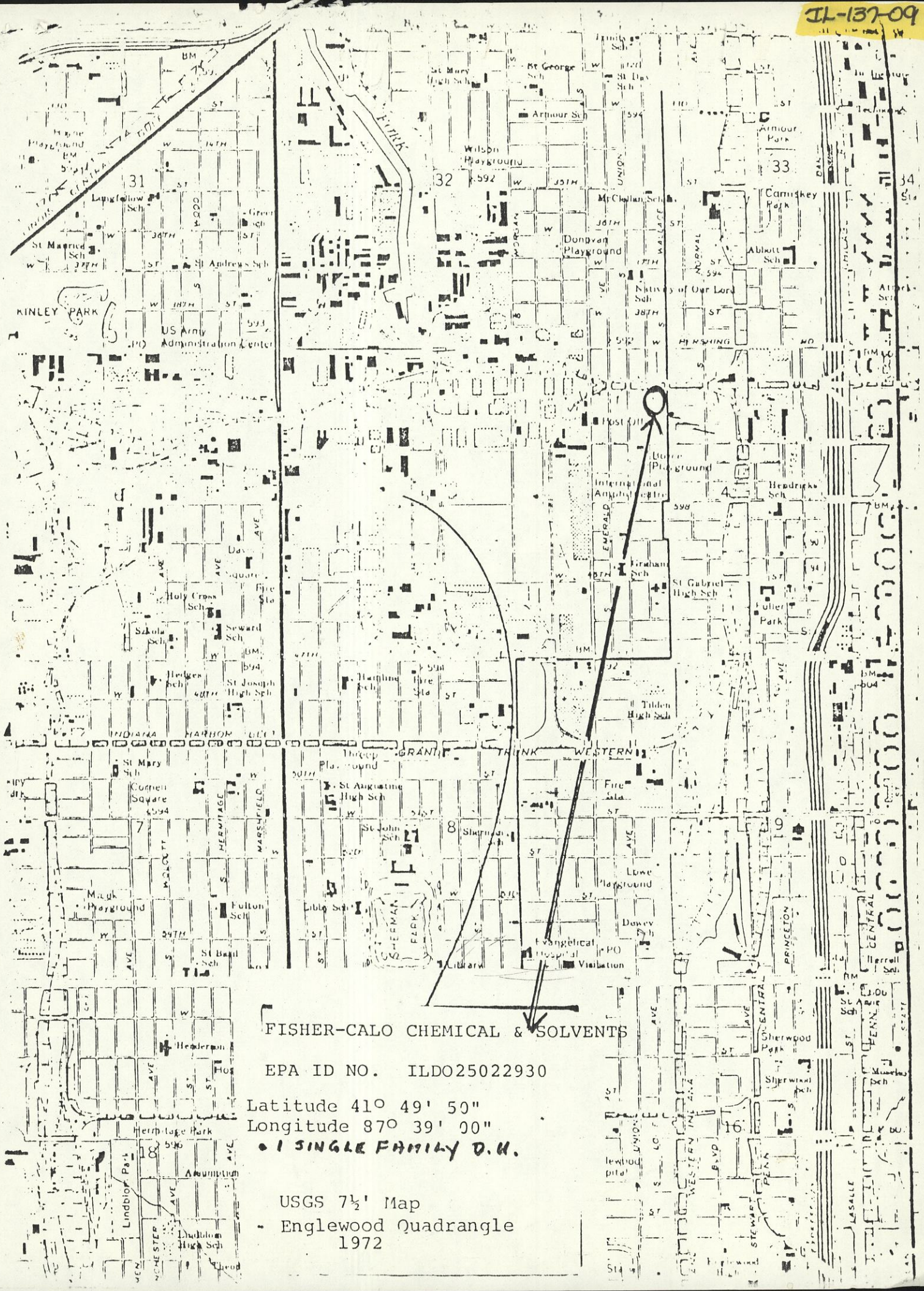
SCALE
0 ½ 1 MILE

QUADRANGLE LOCATION
OHIO

ecology and environment, inc.
USGS TOPOGRAPHIC MAPS:
NAME Knoxville, Ohio-W.VA
DATE 1968
REVISED 1984
NAME Weirton, W.VA-PA-OHIO
REFERENCE
SITE NAME [redacted]
SITE ID OHD098435134
SCALE
0 ½ 1 MILE
QUADRANGLE LOCATION
OHIO
OHIO RIVER
OHIO
WEST VIRGINIA
RIVER
TORONTO
Griffen Island
BROWNS ISLAND
WEIRTON CORPORATE BOUNDARY
JEFFERSON CO
HANCOCK CO
BROOKE CO
CROSS CREEK
BUTLER
PENN CENTRAL
NORMAL POOL ELEV 644
Pleasant Hill
Pekin
Pottery Addition
Alikanna
Costonia
ISLAND CREEK
Taylortown
Wallace Heights
Shady Glen
Wildcat Hollow
Dyer Airport
Golf Course
Myers Knob
Weircrest
Williams Country Club
Madonna High Sch
54


AREA SERVED BY JEFFERSON COUNTY WATER DISTRIBUTION SYSTEM ALONG COUNTY ROADS
TORONTO MUNICIPAL WATER DISTRIBUTION BOUNDARY
WIERTON MUNICIPAL WATER DISTRIBUTION BOUNDARY
WELL # 1
SITE
1/4 MILE
1/2 MILE
1 MILE
2 MILE
3 MILE
4 MILE
OHIO RIVER
NEW CUMBERLAND
TORONTO
WEIRTON
Knoxville
Shady Glen
Taylortown
Wallace Heights
Pekin
Pleasant Hill
Costonia
Pottery Addition
Marland Heights
Holidays Cove (Cove PO)
Weirton Junction
Weirton Heights
Chestnut Hill
Point Pleasant
Pleasant Valley
Kings
Overlook Hills
Alkanna
Wills
Brown Island
Clifton Island
Mill Creek
Cross Creek
Buffalo Creek
Harrison Co
Jefferson Co
Brooke Co
Hancock Co
Butler Co
Ohio
West Virginia
Pennsylvania
Normal Pool Elev 642
Mile 57
Mile 60
Mile 64
Mile 66
Dam No 10
Ft Steuben Bridge
Myers Knob
Woodview Golf Course
County Sportsmen Club
Pleasant Valley Country Club
Madonna High Sch
Broadview Sch
Chapel Hill Cem
Three Springs Cem
Historical Monument
Kirk Creek Chapel
Slag Dump
Stadium
Golf Course
Water
Oil Wells
Gas Well
Radio Tower
Pipeline
Ecology and environment, inc.
SITE NAME TITANIUM METALS
U.S. EPA ID# OHD984315134
USGS TOPOGRAPHIC MAPS:
NAME WELLSVILLE
DATE 1960
REVISED 1985
NAME EAST LIVERPOOL SOUTH
DATE 1960
REVISED 1978
NAME KNOXVILLE
DATE 1968
REVISED 1984
NAME WEIRTON
DATE 1968
REVISED
SCALE
OHIO

IL-137-09



FISHER-CALO CHEMICAL & SOLVENTS

EPA ID NO. ILDO25022930

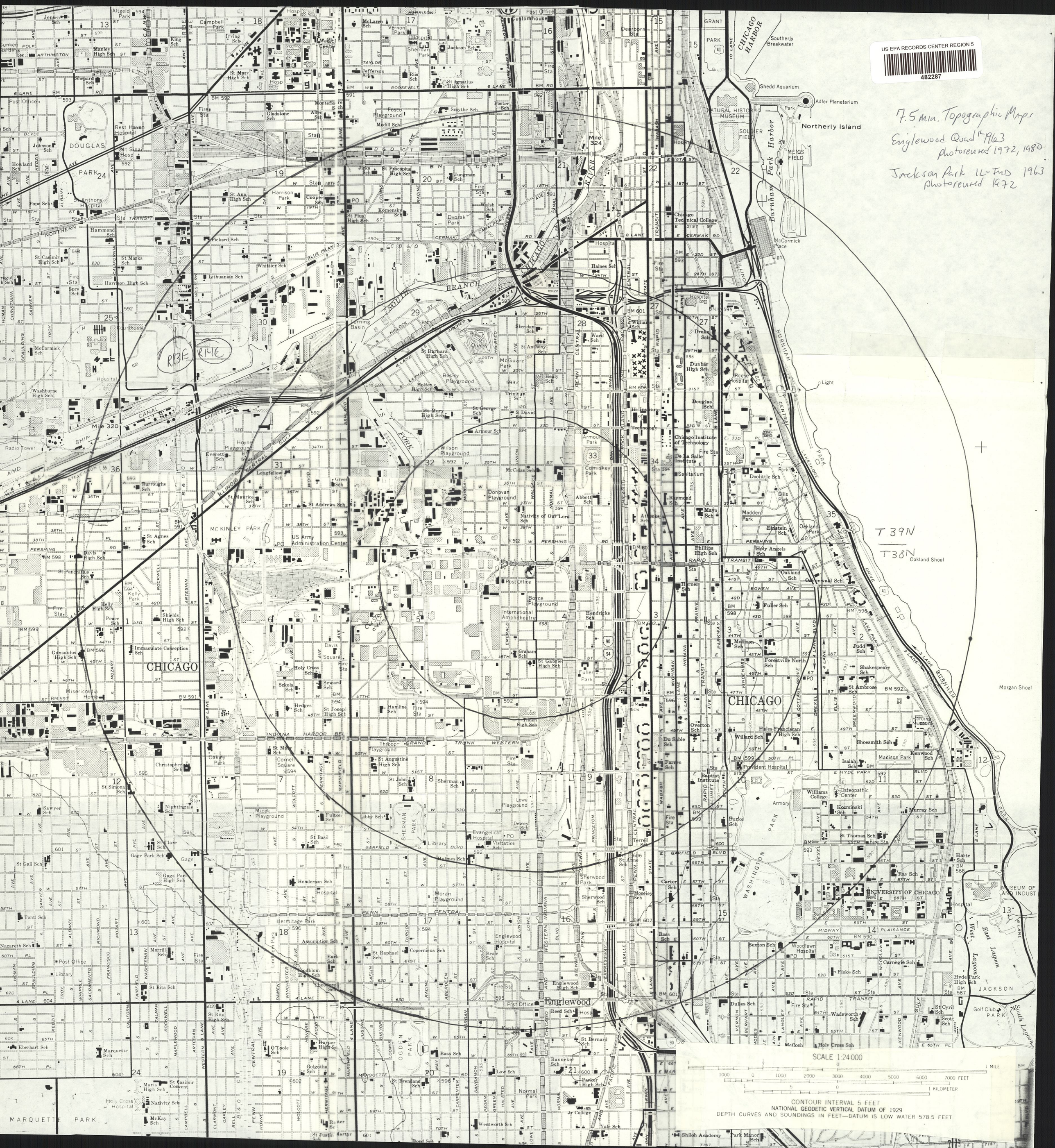
Latitude 41° 49' 50"
Longitude 87° 39' 00"

• 1 SINGLE FAMILY D.W.

USGS 7½' Map
- Englewood Quadrangle
1972

US EPA RECORDS CENTER REGION 5
482287

7.5 min. Topographic Maps
Englewood Quad 1963
photorevised 1972, 1980
Jackson Park IL-IND 1963
photorevised 1972



SCALE 1:24 000

1 MILE — 1000 0 1000 2000 3000 4000 5000 6000 7000 FEET — 1 KILOMETER

CONTOUR INTERVAL 5 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS LOW WATER 578.5 FEET