OhioEPA
State of Ohio Environmental Protection Agency
Central District Office

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George V. Voinovich
Governor
Donald R. Schregardus
Director

EPA Region 5 Records Ctr.
330326

February 3, 1992

RE: COLUMBUS SCRAP CORP.
FRANKLIN COUNTY, OHIO
OHD131884348
PRELIMINARY ASSESSMENT

RECEIVED
FEB 7 . 1992
SITE ASSESSMENT SECTION

Ms. Jeanne Griffin
Pre-Remedial unit
U.S. EPA, Region V
HSM-5J
77 West Jackson Boulevard
Chicago, Illinois 60604

Dear Ms. Griffin:

Enclosed please find the Preliminary Assessment for Columbus Scrap Corp. in Columbus, Ohio. This report presents the site narrative and the PA score sheets.

Please feel free to contact me at (614) 771-7505 if you have any questions.

Sincerely,

Jeffrey W. Reynolds
Emergency & Remedial Response
Central District Office

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JWR/sc

Enclosures

cc: Laura Fay, DERR, CO
CDO File

DERR/9

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1/30/92

PRELIMINARY ASSESSMENT
COLUMBUS SCRAP CORPORATION
FRANKLIN COUNTY, OHIO
USEPA ID# OHD131884348

JANUARY 30, 1992

OHIO ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF EMERGENCY AND REMEDIAL RESPONSE

Prepared By:
Jeffrey W. Reynolds
Site Coordinator

Reviewed By:
Deborah Strayton
Unit Supervisor

Date: January 30, 1992

Site: Columbus Scrap Corporation
580 Furnace Street
Franklin County, Ohio

EPA ID No.: OHD131884348

1. INTRODUCTION

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the U.S. Environmental Protection Agency (EPA), Waste Management Division, Region V conducted a preliminary assessment at the Columbus Scrap Corporation site in Franklin County, Ohio. The purpose of this investigation was to collect information concerning conditions at Columbus Scrap sufficient to assess the threat posed to human health and the environment and to determine the need for additional CERCLA/SCIRRHI or other appropriate action. The scope of the investigation included review of available file information, a comprehensive target survey, and an onsite reconnaissance survey (December 6, 1991).

2. SITE DESCRIPTION, OPERATIONAL HISTORY, AND WASTE CHARACTERISTICS

2.1 Location

Columbus Scrap Corporation is located at 580 Furnace Street in the southwest area of downtown Columbus. The geographic coordinates are 39° 56' 51" N latitude and 83° 00' 17" W longitude (Refs. 1 & 2). To reach the site, travel south of downtown Columbus on High Street approximately 1.6 miles (2.6 km) and turn right on Whittier Street. Follow Whittier approximately 1.5 miles (2.4 km) and turn right on Furnace Street. Then follow the signs to the Columbus Scrap site (Refs. 1 & 3).

Columbus has a continental climate characterized by moderate extremes of temperature and precipitation. The annual temperature averages 51.6° F (11° C) and annual precipitation averages 36.97 inches (94 cm) (Ref. 4 - pg. 659).

The summers are warm and humid. July is the hottest month with an average daily maximum temperature of 84.4° F (29° C). The highest temperature ever recorded in Columbus was 102° F (39° C) during June 1944 (Ref. 4 - pg. 659).

The winters are cold with an average of five days with subzero

temperatures per year. January is the coldest month with an average daily minimum temperature of 19.4° (-7° C). The lowest temperature ever recorded in Columbus was -19° F (-28° C) during January 1985 (Ref. 4 - pg. 659).

The property is mostly surrounded by the Scioto River, which curves around in a semicircle to the west and then heads south (Ref. 1). The property is in a mixed commercial and industrial area. Residential neighborhoods are within a four mile radius in all directions but are closest to the northwest and the east (Refs. 1 & 3).

2.2 Site Description

Columbus Scrap leases 6.2 acres of an 11 plus acre property from CSX Transportation. Contamination (with PCBs) is mostly confined to the Columbus Scrap portion of the property and covers most of that portion (Refs. 3, 5, 6, & 7). The site is relatively flat and located in an urban area. The Columbus Scrap facility is triangular in shape with the two longest sides "pointing" to the southeast (Refs. 3, & 6).

The site is largely covered with piles of scrap metal of varying sizes and contents. Operations at the site include segregating metals, shearing into pieces, and baling them for sale and shipment off site to steel mills and smelters. The metals are separated into ferrous and non-ferrous (copper, brass, aluminum, stainless steel) categories. The shearer is in a building on the northwest corner of the facility near the entrance. The baler is located in a small building in the center of the site. There is a truck weighing scale at the north edge of the site next to the office (Refs. 3 & 6).

Columbus Scrap is surrounded by a variety of industrial/commercial properties. They include two warehouses located to the north and west of Columbus Scrap (the road to the facility passes between these buildings), a concrete company to the southwest, several sets of railroad tracks to the east/northeast, and the city of Columbus Impound Lot and Recreation Department Buildings to the south (Refs. 1, 3, & 8).

The site is approximately in the center of a piece of land located on an inside curve of the Scioto River. A strip of city park land (containing a bike path) follows the inside curve of the river and then continues south on the west side of the river. The river is approximately 1300 feet from the site at its closest point. The center of downtown Columbus is approximately one mile to the northeast (Refs. 1 & 9).

The site is currently not fenced in. There is some fencing to the north and west but there is access to the facility from the southwest, south, and east. Access is particularly open to the east

in the area of the railroad tracks. A representative of Columbus Scrap indicated, "there is also security on site at all hours when the facility is not operating (Refs. 3 & 10)".

Clear drainage patterns were not observed on the site visit or evident on topographic maps. Gary Reynolds, Columbus Scrap Vice-President, indicated that he thought the site was in a low area and storm water did not drain away from the site (Refs. 3 & 11). City storm sewers are located around the area of the site but do not appear to extend onto the site (Ref. 12). The site is located within the 500 year floodplain of the Scioto River which eventually drains to the Ohio River (Refs. 1 & 13).

2.3 Operational History and Waste Characteristics

Columbus Scrap Corporation operates a commercial scrap yard at 580 Furnace Street, southwest of downtown Columbus. They have leased the approximately six acre property from CSX Transportation since 1985 when they purchased the Summer Company. Previous to July 1985 Summer Company also operated this facility as a scrap yard. The Handler Compressed Steel Corporation used the site as a scrap yard from 1951 to 1981. Prior to that, CSX and its predecessors used the site for railroad operations (Refs. 5, 6, 11, 14, & 15).

Columbus Scrap is owned fifty percent by Cohen Brothers in Middletown, Ohio and fifty percent by Muskingum Iron and Metal in Zanesville, Ohio (Ref. 14).

On-site sampling was done May 25, 1989 and February 23, 1990 as part of federal PCB inspections performed by Ohio EPA Division of Emergency and Remedial Response personnel, who are authorized Toxic Substances Control Act (TSCA) representatives. The 1989 sampling found up to 1,000 ppm PCBs in soil surrounding eight leaking capacitors. The 1990 sampling found PCBs in soils at levels up to 8,700 ppm (Refs. 16 & 17).

These inspections were performed following an incident in which Columbus Scrap provided a roll-off box for an individual who put three PCB transformers in the box (Refs. 3, 16, & 17). The capacitors were removed, along with approximately 40 cubic yards of soil, from three different pits by Chem Waste Management under contract with Columbus Scrap (Refs. 3, 6, & 11).

PCB violations cited as a result of these TSCA inspections resulted in a Consent Agreement And Final Order with the USEPA dated January 8, 1991. Under this Consent Agreement Columbus Scrap was fined $8,000 (Refs. 16, 17, & 18).

Extensive additional sampling has been done under the terms of an Administrative Order by Consent (AOC) signed on April 10, 1991 with USEPA Region V, Emergency Response. This order requires Columbus Scrap Corporation and CSX Transportation to investigate the extent

of contamination and remediate the site. The cleanup level is expected to be 25 ppm of PCBs. This level was established with the assumption that the site will be fenced, totally limiting access (Refs. 7, 15, 19, & 20).

Phase I of the above investigation has been completed. Under this portion of the investigation the USEPA OSC, Steve Renninger (Westlake Office), first divided the site into fifty sectors. Kemron Environmental Services (Marietta, Ohio) then sampled the sectors for Columbus Scrap and CSX. Samples were composited within each sector, each sample containing five portions. Ecology and Environment personnel, as USEPA's Technical Assistance Team, split samples at some locations (Refs. 6 & 7).

Samples were all tested for PCBs and some were tested for total metals (no metals problems were found). Phase I of the investigation determined approximately five acres of the site are contaminated (with PCBs) at levels above 5 ppm. This level may convert to 25 ppm 'hot spots' when one aliquot (out of five) of a sample contributes 100% of a sample's PCB content (Refs. 6, 7, & 9).

Phase II work will include sampling of the five acres of the site (mostly on the Columbus Scrap portion of the property but some is on other CSX property, to the west and southwest of Columbus Scrap) potentially above cleanup levels- including sampling at depth. Original depth sampling will be at 12 inches and 24 inches. If "hits" at these depths are found then samples will be taken at 36 inches and 48 inches. Additional sampling completed in August 1991 did not find contamination outside CSX property (Refs. 7 & 19). The final report, including sample results, is not available yet.

3. GROUND WATER PATHWAY

3.1 Hydrogeologic Setting

Excluding the urban fill common in the area, the site is likely covered with alluvium overlying the Devonian bedrock. This alluvium could be expected to be poorly sorted, poorly bedded silt and sand, generally less than 25 feet thick. Individual layers are thin, lenticular, and nearly horizontal. This includes all detrital material deposited in valleys or undrained depressions since the last glacier (Refs. 21, 22, 23, & 24).

To the west of the site groundwater may be obtained from Devonian and Silurian limestone at yields up to 175 gpm. To the east and north of the site less groundwater is available via lenses of sand and gravel interbedded in clayey till overlying shale bedrock. To the south, extensive sand and gravel deposits may yield up to 500 or 1,000 gpm (Ref. 22).

3.2 Ground Water Targets

The majority of the population within a four mile radius of the site relies on municipal water supplies taken from a wellfield south of the city (outside the four mile radius), the Scioto River (upstream of the site), and the Hoover Reservoir on Big Walnut Creek (Ref. 25). Residents not connected to municipal water have been identified through the use of Ohio Department of Natural Resources (ODNR) well log maps (Ref. 26).

There are approximately 281 homes within four miles which are thought to use private wells for drinking water (Ref. 26). The average number of persons per household in Franklin County is 2.47 (Ref. 28). This equates to 696 residents (when rounded up by distance ring, according to HRS guidance). The nearest known residence relying on a private drinking well is approximately 9700 feet to the southwest (Refs. 1 & 26).

The nearest residences are located in a neighborhood southwest of the site. Depths of the five closest wells range from 27 to 64 feet deep with static water levels mostly less than 10 feet. These wells are set in a limestone layer that starts 11 to 20 feet below the ground surface (well logs attached w/ Ref. 26).

3.3 Ground Water Conclusions

Given Columbus Scrap's location, groundwater is probably very shallow under the site. The contaminated soil has made a release to groundwater likely. Although the suspected release of PCBs is not thought to endanger the local use of ground water. PCBs are not considered to be very mobile in soils and the nearest residential use of ground water is some distance from the site (Refs. 1, 26, & 27).

4. SURFACE WATER PATHWAY

4.1 Hydrologic Setting

The Scioto River surrounds the site to the north, the west and the south. Surface drainage from the site to the river is not known and was not determined during the site visit (Refs. 1 & 3). Gary Reynolds, Columbus Scrap Vice-President, indicated that storm water did not drain off of the site because it is in a low area (Ref. 11).

A map of Columbus storm sewers in the area shows two lines in the area leading west to the Scioto River and several lines heading south along the railroad tracks. However these lines do not appear to extend beneath the Columbus Scrap property (Ref. 12).

Because of the uncertainty about site drainage, the possible point

of entry to the Scioto River is also unknown. The river passes, at its closest point, within about 1300 feet of the site (at approximately river mile 130) to the south by southwest (Ref. 1). Scioto River flow rate for 1989 averaged 1,518 cubic feet per second (Ref. 29).

4.2 Surface Water Targets

There are no drinking water intakes located within 15 downstream miles of the site. Most local residents are served by the city of Columbus municipal water system as mentioned in section 3.2 above. Those not on municipal water are served by private wells (Refs. 25 & 26).

The Scioto River is used for recreational fishing all along its length including downtown (Ref. 30). Fish tissue sample results show levels of PCBs in fish just downstream (RM 129, at Greenlawn Avenue dam) of the site at levels up to 899 ppb (Ref. 31). Levels north of Columbus at RM 140 are considerably lower (10 ug/Kg). Other PCB sources along this stretch of the Scioto are unknown, but given the lack of PCB contamination in samples taken off CSX property and the lack of a known surface water drainage route, it is difficult to assume an observed release from this information (Refs. 1, 7, 12, 31, & 33). The site investigation should attempt to determine a surface water route (if there is one) between the site and the river and if there is sediment contamination attributable to the site in the river (which may have led to the PCB contaminated fish).

No wetlands have been identified within one half mile of the site or along the Scioto River within 15 miles downstream. The US Fish and Wildlife wetlands inventory maps have not been completed for this area of the state so there may be wetlands present but not identified. Soil maps of Franklin and Pickaway indicate areas along the Scioto (> 1/2 mile downstream) that could potentially have hydric soil components (Refs. 23 & 24).

Other uses of this section of the Scioto include agricultural, industrial, and recreational (Ref. 32).

4.3 Surface Water Conclusions

A Columbus Scrap employee has indicated stormwater does not drain away from the site. The site visit and a Columbus Storm sewers map also showed no obvious drainage pathway from the site to the river (Refs. 3, 11, & 12). Fish tissue analysis of Scioto River species has shown PCB contamination of individuals sampled one mile downstream at levels up to 899 ug/Kg. The nearest potential background sample is about 10 miles upstream (fish samples at that location contained 10 ug/Kg PCBs). Other potential sources of PCB contamination along this stretch of the Scioto are unknown (Refs. 32 & 33).

5. SOIL EXPOSURE AND AIR PATHWAYS

5.1 Physical Conditions

The site is currently covered by many large piles of scrap metal (Ref. 3). To make sampling possible in some quadrants, Columbus Scrap is moving piles of scrap so Kemron can get access to sample (Refs. 15 & 16). The perimeter of the site is currently unfenced except for a couple areas to the north and west (Ref. 3). As part of the ongoing investigation/ remediation they plan to fence the entire site. This will allow them to claim limited access to the site and use a 25 ppm cleanup level for the PCBs instead of 10 ppm (Refs. 3 & 16). Columbus Scrap personnel have indicated there is security on site at all hours when the facility is not operating (Ref. 10).

5.2 Soil and Air Targets

There are approximately 30 employees at Columbus Scrap. Fences separate the facility from the Lazarus warehouses to the north and west (Refs. 3 & 11). There are approximately 410 other people employed within one-fourth mile of the site (Ref. 35). The total population of residents within a four mile radius is estimated as 89,129 (Refs. 26 & 30). The nearest house is approximately one quarter mile to the east (Refs. 1 & 3). Estimates of workers (large numbers of targets downtown especially, about 95,000) and students (Ohio State University has over 50,000 students and is within four miles, Columbus State has about 16,000 and is within two miles) add approximately 300,000 more targets (Refs. 1 & 35).

5.3 Soil Exposure and Air Pathway Conclusions

Given current conditions of open site access and several acres of surface soil contamination, soil exposure may be of some threat to employees of Columbus Scrap or someone who may wander onto the site (Ref. 3 & 19). A release to air is possible (due to blowing dust over the basically unvegetated site) despite the relatively low volatility of PCBs (Ref. 27).

6. SUMMARY AND CONCLUSIONS

PCB contamination was discovered at Columbus Scrap Corporation during a 1989 TSCA inspection by Ohio EPA DERR personnel (Ref. 13). The sources of PCBs discovered during this inspection have since been removed but the subsequent investigation has documented remaining soil contamination (Refs. 6, 17, & 18). The soil is contaminated over virtually all six acres of the site and five acres of that has been determined to be potentially above 25 ppm and in need of remediation (Refs. 7 & 19). This investigation and forthcoming remediation are being done under an Administrative

Order on Consent between Columbus Scrap and the owner of the property, CSX Transportation, and USEPA Region V Emergency Response (Ref. 20).

The site is located near to the Scioto River and in a fairly low area so the soil contamination makes for a suspected release to groundwater. However due to the relative lack of mobility of PCBs and the distance to the nearest known residential well (almost two miles) groundwater contamination is unlikely to affect current drinking water sources (Refs. 1, 13, 26, & 27).

Surface water may have a potential for contamination due to the proximity of the Scioto River (within 1300 feet) and the presence of the site within the 500 year floodplain (Refs. 1 & 13). So far, however, a surface water connection between the contaminated area and the river has not been found (Refs. 1, 3 & 11). Also sampling under the AOC around the perimeter of the facility property has not shown contamination (Ref. 7). The site investigation should attempt to determine if this surface water route exists and if it has contributed to PCB contamination in the Scioto (by sampling sediments).

Soil contamination has potential for exposure due to the openness of the site. A release to the air is possible due to the nearly site wide surface soil contamination and the lack of vegetation to keep the dust down. This is despite the relatively non-volatile characteristics of PCBs (Refs. 3 & 27).

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1. U.S. Geological Survey, 7.5 minute topographic quadrangle maps of Ohio: Southwest Columbus, 1965, photorevised 1982; Southeast Columbus, 1964, photorevised 1985; Northwest Columbus, 1965, photorevised 1982; Northeast Columbus, 1964, photorevised 1982.

2. U.S. Environmental Protection Agency, "Standard Operating Procedure to Determine Site Latitude and Longitude Coordinates," 1991. Calculation worksheet for Columbus Scrap.

3. Jeffrey W. Reynolds, Ohio EPA, DERR/CDO, Field Report for Preliminary Assessment Site Visit, December 6, 1991 (with 23 photographs and site map).

4. Gale Research Company, The Weather Almanac. 1987. Gale Research Company, Book Tower, Detroit Michigan. 811 pp.

5. Gary Reynolds, Columbus Scrap Vice-President, telephone call with Jeff Reynolds, Ohio EPA, December 5, 1991. Re: Planning Site Visit 12/6/91 and PA Questions.

6. Kemron Environmental Services, Revised Workplan, Site Characterization, Columbus Scrap Facility, Columbus, Ohio, June 7, 1991.

7. Steve Renninger, USEPA, Emergency Response Branch, Response Section #1, Telephone Conversation with Jeff Reynolds, Ohio EPA. Re: Update on USEPA Work at Columbus Scrap.

8. Ohio Department of Transportation, 1989 Aerial Photo of Columbus Scrap Area.

9. John Circle, Franklin County Engineer, Franklin County Map, 1991.

10. Kirk Guy, Bricker & Eckler Law Firm, Letter to Louise Gross, USEPA, June 8, 1990.

11. Gary Reynolds, Columbus Scrap Vice-President, Telephone Call with Jeff Reynolds, Ohio EPA, November 22, 1991. Re: PA Questions.

12. City of Columbus Public Utilities and Aviation Department, Division of Sewerage and Drainage, Sewers Map for Columbus Scrap Area.

13. Federal Emergency Management Agency, Flood Insurance Rate Map for City of Columbus, Community Panel Number 390170 0015 B. July 5, 1983.

14. Gary Reynolds, Columbus Scrap Vice-President, Telephone Call with Jeff Reynolds, Ohio EPA, August 29, 1991. Re: PA Questions/Ownership.

15. Mark Murphy, CSX Transportation, Telephone Call with Jeff Reynolds, Ohio EPA, December 4, 1991. Re: Columbus Scrap PA Questions.

16. Kelly Sherman, Ohio EPA, DERR/PCB Compliance Group, PCB Compliance Inspection Report for May 25, 1989 Inspection of Columbus Scrap Corporation.

17. Kelly Sherman, Ohio EPA, DERR/PCB Compliance Group, PCB Compliance Inspection Report for February 23, 1990 Inspection of Columbus Scrap Corporation.

18. USEPA Region V Environmental Services Division, Consent Agreement with Columbus Scrap, January 8, 1991. Re: PCB Violations/ $8,000 Fine.

19. Steve Renninger, USEPA, Emergency Response Branch, Response Section #1, Pollution Report #6 for the Columbus Scrap Site, November 8, 1991.

20. USEPA, Region 5 Waste Management Division, Administrative Order by Consent with Columbus Scrap Corporation and CSX Transportation, April 10, 1991.

21. U.S. Geological Survey (by R.P. Goldthwait, G.W. White, and J.L. Forsyth), Prepared in Cooperation with Ohio Department of Natural Resources, Division of Water and Division of Geological Survey, Glacial Map of Ohio, 1961.

22. Ohio Department of Natural Resources (J. J. Schmidt), The Ground-Water Resources of Franklin County, Ohio and the Approximate Contours on the Bedrock Surface, 1958.

23. Soil Survey of Franklin County, Ohio, USDA, Soil Conservation Service in Cooperation with Ohio Department of Natural Resources, Division of Lands and Soil, and Ohio Agricultural Research and Development Center, Issued February 1980.

24. Soil Survey of Pickaway County, Ohio, USDA, Soil Conservation Service, in Cooperation with Ohio Department of Natural Resources, Division of Lands and Soil, and Ohio Agricultural Research and Development Center, Issued February 1980.

25. Jim Nottingham, Ohio EPA, Division of Public Drinking Water, Unit Supervisor, Meeting Notes/Personal Communication, December 18, 1991. Re: Source of Columbus' Drinking Water.

26. Ohio Department of Natural Resources, Division of Water, Well Log Files (Copied 1991).

27. Monsanto, Polychlorinated Biphenyls (PCBs) Material Safety Data Sheet, October 1988. Re: PCB Properties.

28. George Bridges, Ohio Data Users Center, Ohio Department of Development, Telephone Conversation with Jeff Reynolds, Ohio EPA, November 22, 1991. Re: Franklin County Population Density and Number of People Per House.

29. US Geological Survey, Water-Data Report OH-90-2, Prepared in Cooperation with the State of Ohio and with Other Agencies, Water Resources Data, Ohio, Water Year 1990, Volume 1. Ohio River Basin. Re: Scioto River Flow.

30. Steve Graham, Ohio Department of Natural Resources, Fish Management, Telephone Conversation with Jeff Reynolds, Ohio EPA, December 4, 1991. Re: Fishing in Scioto River near Columbus Scrap, Creel Survey.

31. Bernie Counts, Ohio EPA, Division of Water Quality Planning and Assessment, 1985 and 1990 Scioto River Fish Tissue Data, Sent to Jeff Reynolds, December 5, 1991.

32. Ohio EPA, Ohio Administrative Code 3745-1-09, Scioto River Basin Use Designations.

33. Rich Carter, Ohio EPA, DERR/PCB Compliance Section, Supervisor, Telephone Conversation with Jeff Reynolds, Ohio EPA, November 27, 1991. Re: Possible PCB Sources in the Scioto River.

34. Jeff Reynolds, Ohio EPA, Distance Ring Areas and Resident Population Calculations.

35. Jeff Reynolds, Ohio EPA, Worker and Student Air and Soil Target Estimations.

OMB Approval Number: 2050-0095
Approved for Use Through: 1/92

EPA Potential Hazardous Waste Site Preliminary Assessment Form

Identification

State: OH
CERCLIS Number: OHD131884348
CERCLIS Discovery Date: 7/21/89

1. General Site Information

Name: COLUMBUS SCRAP CORPORATION
Street Address: 580 FURNACE STREET
City: COLUMBUS
State: OHIO
Zip Code: 43215
County: FRANKLIN
Co. Code: 049
Cong. Dist: 12
Latitude: 39° 56' 51._"
Longitude: 83° 0' 17._"
Approximate Area of Site: 6 Acres; ____ Square Ft
Status of Site: ☒ Active ☐ Not Specified ☐ Inactive ☐ NA (GW plume, etc.)

2. Owner/Operator Information

Owner: CSX TRANSPORTATION
Street Address: 500 WATER STREET
City: JACKSONVILLE
State: FL
Zip Code: 32202
Telephone: (904) 359-1651

Operator: COLUMBUS SCRAP CORPORATION
Street Address: 500 FURNACE STREET
City: COLUMBUS
State: OH
Zip Code: 43215
Telephone: (614) 228-1603

Type of Ownership:
☒ Private
☐ Federal Agency
Name _____
☐ State
☐ Indian
☐ County
☐ Municipal
☐ Not Specified
☐ Other _____

How Initially Identified:
☐ Citizens Complaint
☐ PA Petition
☐ State/Local Program
☐ RCRA/CERCLA Notification
☒ Federal Program
☐ Incidental
☐ Not Specified
☐ Other _____

3. Site Evaluator Information

Name of Evaluator: JEFFREY W. REYNOLDS
Agency/Organization: Ohio EPA / DERR
Date Prepared: 1/30/92
Street Address: 2305-C WESTBROOKE DR., P.O. BOX 3198
City: COLUMBUS
State: OHIO
Name of EPA or State Agency Contact: LAURA FAY
Street Address: 1800 WATERMARK DRIVE
City: COLUMBUS
State: OHIO
Telephone: (614) 644-2294

4. Site Disposition (for EPA use only)

Emergency Response/Removal Assessment Recommendation:
☐ Yes
☐ No
Date: _____

CERCLIS Recommendation:
☐ Higher Priority SI
☐ Lower Priority SI
☐ NFRAP
☐ RCRA
☐ Other _____
Date: _____

Signature:
Name (typed):
Position:

EPA Potential Hazardous Waste Site
Preliminary Assessment Form - Page 2 of 4

CERCLIS Number: OHD 131884348

5. General Site Characteristics

Predominant Land Uses Within 1 Mile of Site (check all that apply):
- [x] Industrial
- [x] Commercial
- [x] Residential
- [ ] Forest/Fields
- [ ] Agriculture
- [ ] Mining
- [ ] DOD
- [ ] DOE
- [ ] DOI
- [ ] Other Federal Facility
- [ ] Other

Site Setting:
- [x] Urban
- [ ] Suburban
- [ ] Rural

Years of Operation:
Beginning Year 1951
Ending Year 1991
[ ] Unknown

Type of Site Operations (check all that apply):
- [ ] Manufacturing (must check subcategory)
  - [ ] Lumber and Wood Products
  - [ ] Inorganic Chemicals
  - [ ] Plastic and/or Rubber Products
  - [ ] Paints, Varnishes
  - [ ] Industrial Organic Chemicals
  - [ ] Agricultural Chemicals (e.g., pesticides, fertilizers)
  - [ ] Miscellaneous Chemical Products (e.g., adhesives, explosives, ink)
  - [ ] Primary Metals
  - [ ] Metal Coating, Plating, Engraving
  - [ ] Metal Forging, Stamping
  - [ ] Fabricated Structural Metal Products
  - [ ] Electronic Equipment
  - [ ] Other Manufacturing
- [ ] Mining
  - [ ] Metals
  - [ ] Coal
  - [ ] Oil and Gas
  - [ ] Non-metallic Minerals
- [ ] Retail
- [x] Recycling
- [x] Junk/Salvage Yard
- [ ] Municipal Landfill
- [ ] Other Landfill
- [ ] DOD
- [ ] DOE
- [ ] DOI
- [ ] Other Federal Facility
- [ ] RCRA
  - [ ] Treatment, Storage, or Disposal
  - [ ] Large Quantity Generator
  - [ ] Small Quantity Generator
  - [ ] Subtitle D
    - [ ] Municipal
    - [ ] Industrial
  - [ ] "Converter"
  - [ ] "Protective Filer"
  - [ ] "Non- or Late Filer"
- [ ] Not Specified
- [ ] Other

Waste Generated:
- [ ] Onsite
- [x] Offsite
- [ ] Onsite and Offsite

Waste Deposition Authorized By:
- [ ] Present Owner
- [ ] Former Owner
- [x] Present & Former Owner
- [ ] Unauthorized
- [ ] Unknown

Waste Accessible to the Public:
- [x] Yes
- [ ] No

Distance to Nearest Dwelling, School, or Workplace: 50 Feet

6. Waste Characteristics Information

Source Type (check all that apply)	Source Waste Quantity (include units)	Tier*:
[ ] Landfill		
[ ] Surface Impoundment		
[x] Drums	≈300 DRUMS	V
[ ] Tanks and Non-Drum Containers		
[ ] Chemical Waste Pile		
[ ] Scrap Metal or Junk Pile		
[ ] Tailings Pile		
[ ] Trash Pile (open dump)		
[ ] Land Treatment		
[ ] Contaminated Ground Water Plume (unidentified source)		
[ ] Contaminated Surface Water/Sediment (unidentified source)		
[x] Contaminated Soil	6 ACRES	A
[ ] Other		
[ ] No Sources		

* C = Constituent, W = Wastestream, V = Volume, A = Area

General Types of Waste (check all that apply)
- [ ] Metals
- [x] Organics
- [ ] Inorganics
- [ ] Solvents
- [ ] Paints/Pigments
- [ ] Laboratory/Hospital Waste
- [ ] Radioactive Waste
- [ ] Construction/Demolition Waste
- [ ] Pesticides/Herbicides
- [ ] Acids/Bases
- [x] Oily Waste
- [ ] Municipal Waste
- [ ] Mining Waste
- [ ] Explosives
- [ ] Other

Physical State of Waste as Deposited (check all that apply):
- [x] Solid
- [ ] Sludge
- [ ] Powder
- [ ] Liquid
- [ ] Gas

EPA **Potential Hazardous Waste Site**
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CERCLIS Number: OHD131884348

7. Ground Water Pathway

Is Ground Water Used for Drinking Water Within 4 Miles:
- [x] Yes
- [ ] No

Type of Drinking Water Wells Within 4 Miles (check all that apply):
- [ ] Municipal
- [x] Private
- [ ] None

Is There a Suspected Release to Ground Water:
- [ ] Yes
- [x] No

Have Primary Target Drinking Water Wells Been Identified:
- [ ] Yes
- [x] No

If Yes, Enter Primary Target Population: _____ People

Depth to Shallowest Aquifer: 37 Feet

Karst Terrain/Aquifer Present:
- [ ] Yes
- [x] No

Nearest Designated Wellhead Protection Area:
- [ ] Underlies Site
- [ ] >0 - 4 Miles
- [x] None Within 4 Miles

List Secondary Target Population Served by Ground Water Withdrawn From:

0 - ¼ Mile	—
>¼ - ½ Mile	—
>½ - 1 Mile	—
>1 - 2 Miles	33
>2 - 3 Miles	519
>3 - 4 Miles	144
Total Within 4 Miles	696

8. Surface Water Pathway

Type of Surface Water Draining Site and 15 Miles Downstream (check all that apply):
- [ ] Stream
- [x] River
- [ ] Pond
- [ ] Lake
- [ ] Bay
- [ ] Ocean
- [ ] Other _____

Shortest Overland Distance From Any Source to Surface Water:
1100 Feet
0.21 Miles

Is There a Suspected Release to Surface Water:
- [ ] Yes
- [x] No

Site is Located in:
- [ ] Annual - 10 yr Floodplain
- [ ] >10 yr - 100 yr Floodplain
- [x] >100 yr - 500 yr Floodplain
- [ ] >500 yr Floodplain

Drinking Water Intakes Located Along the Surface Water Migration Path:
- [ ] Yes
- [x] No

Have Primary Target Drinking Water Intakes Been Identified:
- [ ] Yes
- [x] No

If Yes, Enter Population Served by Primary Target Intakes: _____ People

List All Secondary Target Drinking Water Intakes:

Name	Water Body	Flow (cfs)	Population Served

Total within 15 Miles _____

Fisheries Located Along the Surface Water Migration Path:
- [x] Yes
- [ ] No

Have Primary Target Fisheries Been Identified:
- [ ] Yes
- [x] No

List All Secondary Target Fisheries:

Water Body/Fishery Name	Flow (cfs)
SCIOTO RIVER	1518 (1989)

CERCLIS Number
OHD 131884348

8. Surface Water Pathway (continued)

Wetlands Located Along the Surface Water Migration Path:
- ☐ Yes
- ☒ No

Have Primary Target Wetlands Been Identified:
- ☐ Yes
- ☒ No

List Secondary Target Wetlands:

Water Body	Flow (cfs)	Frontage Miles

Other Sensitive Environments Located Along the Surface Water Migration Path:
- ☐ Yes
- ☒ No

Have Primary Target Sensitive Environments Been Identified:
- ☐ Yes
- ☒ No

List Secondary Target Sensitive Environments:

Water Body	Flow (cfs)	Sensitive Environment Type

9. Soil Exposure Pathway

Are People Occupying Residences or Attending School or Daycare on or Within 200 Feet of Areas of Known or Suspected Contamination:
- ☐ Yes
- ☒ No

If Yes, Enter Total Resident Population:

_____ People

Number of Workers Onsite:
- ☐ None
- ☒ 1 - 100
- ☐ 101 - 1,000
- ☐ > 1,000

Have Terrestrial Sensitive Environments Been Identified on or Within 200 Feet of Areas of Known or Suspected Contamination:
- ☐ Yes
- ☒ No

If Yes, List Each Terrestrial Sensitive Environment:

_____

10. Air Pathway

Is There a Suspected Release to Air:
- ☒ Yes
- ☐ No

Enter Total Population on or Within:

Onsite	30
0 - ¼ Mile	410
> ¼ - ½ Mile	4,000
> ½ - 1 Mile	40,000
> 1 - 2 Miles	120,000
> 2 - 3 Miles	90,000
> 3 - 4 Miles	130,000
Total Within 4 Miles	384,410

Wetlands Located Within 4 Miles of the Site:
- ☐ Yes
- ☒ No

Other Sensitive Environments Located Within 4 Miles of the Site:
- ☐ Yes
- ☒ No

List All Sensitive Environments Within ½ Mile of the Site:

Distance	Sensitive Environment Type/Wetlands Area (acres)
Onsite	—
0 - ¼ Mile	—
> ¼ - ½ Mile	—

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #1
LI USING CUSTOM RULER OR COORDINATOR™

SITE NAME: COLUMBUS SCRAP CORPORATION CERCLIS #: OHD131884348

AKA: _____ SSID: _____

ADDRESS: 580 FURNACE STREET

CITY: COLUMBUS STATE: OHIO ZIP CODE: 43215

SITE REFERENCE POINT: SPLIT OFF OF RR TRACK AT SE CORNER OF SITE

USGS QUAD MAP NAME: SW COLUMBUS TOWNSHIP: N/A N/S RANGE: N/A E/W

SCALE: 1:24,000 MAP DATE: 1984 SECTION: ____1/4 ____1/4 ____1/4

MAP DATUM: (1927) 1983 (CIRCLE ONE) MERIDIAN: _____

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 7.5' MAP (attach photocopy):

LONGITUDE: 083° 00' 00" LATITUDE: 39° 52' 30"

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LONGITUDE: 083° 00' 00" LATITUDE: 39° 55' 00"

CALCULATIONS: LATITUDE (7.5' QUADRANGLE MAP)

A) ALIGN THE BOTTOM OF THE SCALE WITH BOTTOM OF GRID. ALIGN THE TOP OF THE SCALE WITH THE TOP OF GRID. POSITION EDGE OF RULER OVER SITE REFERENCE POINT WHILE KEEPING TOP AND BOTTOM ALIGNED.

B) READ TICS ON RULER AT 1- OR 0.5-SECOND INTERVALS (INTERPOLATE).

C) EXPRESS IN MINUTES AND SECONDS (1'= 60"): 1' 51.___"

D) ADD TO STARTING LATITUDE: 39° 55' 00.___" + 1' 51.___"

SITE LATITUDE: 39° 56' 51.___"

CALCULATIONS: LONGITUDE (7.5' QUADRANGLE MAP)

A) ALIGN THE BOTTOM OF THE SCALE WITH RIGHT SIDE OF GRID. ALIGN THE TOP OF THE SCALE WITH THE LEFT SIDE OF GRID. POSITION EDGE OF RULER OVER SITE REFERENCE POINT WHILE KEEPING TOP AND BOTTOM ALIGNED.

B) READ TICS ON RULER AT 1- or 0.5-SECOND INTERVALS. (INTERPOLATE)

C) EXPRESS IN MINUTES AND SECONDS (1'= 60"): 00' 17.___"

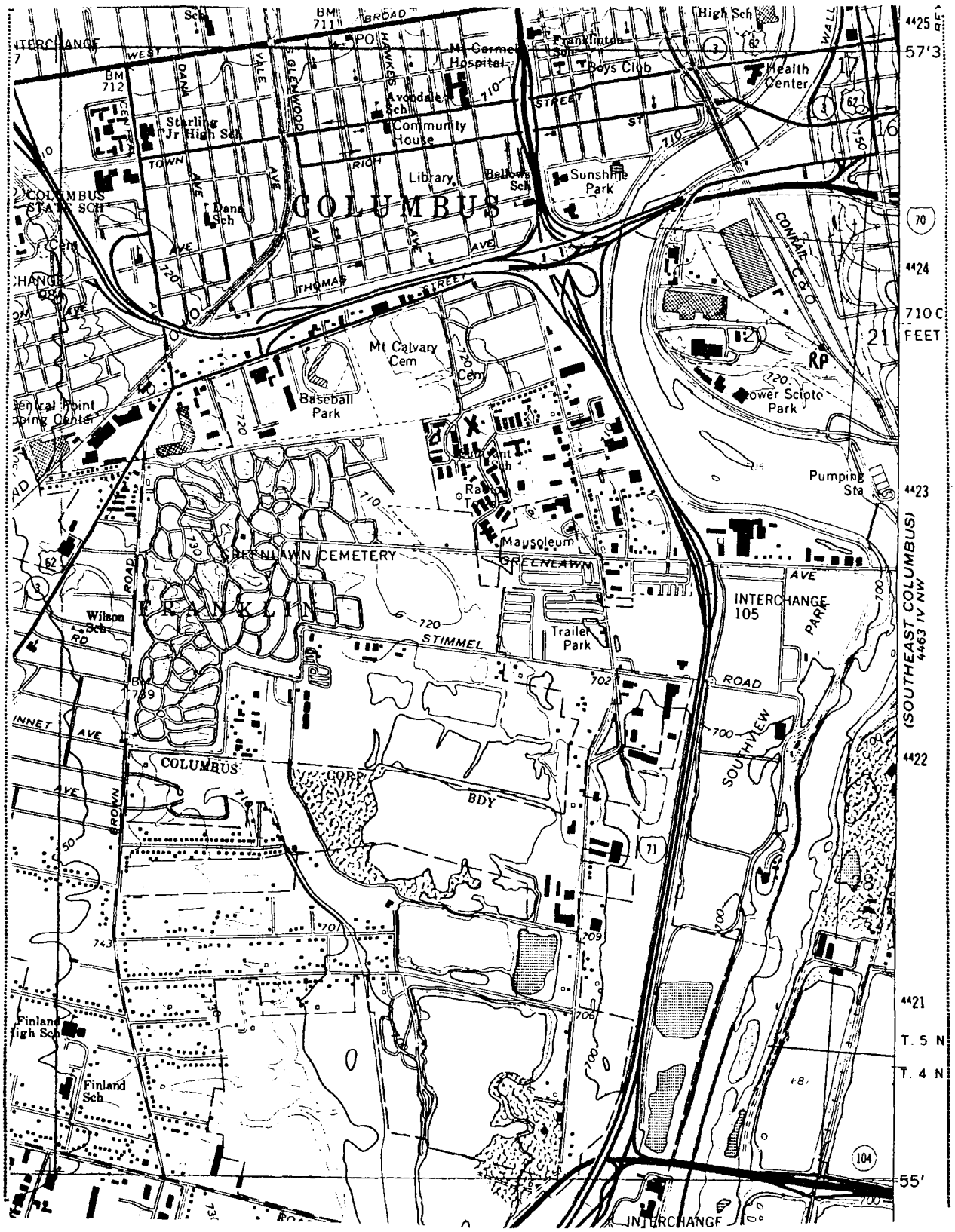
D) ADD TO STARTING LONGITUDE: 083° 00' 00.___" + 00' 17.___"

SITE LONGITUDE: 083° 00' 17.___"

INVESTIGATOR: JEFFREY W. REYNOLDS DATE: 12/16/91

2

SITE NAME: COLUMBUS SCRAP CORP. **NUMBER:** OHD131884348

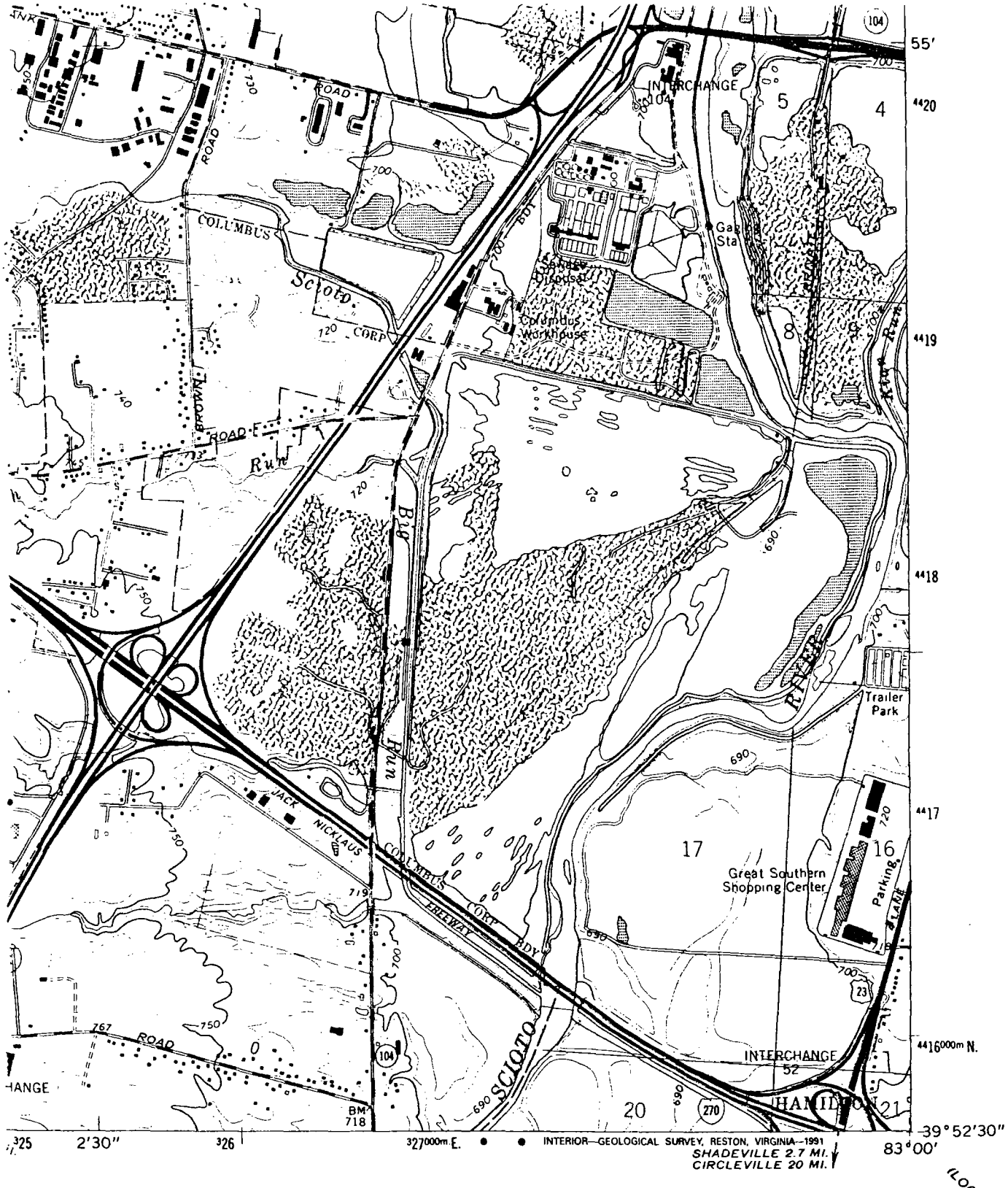


TOPOGRAPHIC MAP QUADRANGLE NAME: SOUTHWEST COLUMBUS **SCALE:** 1:24,000

COORDINATES OF LOWER RIGHT-HAND CORNER OF 2.5-MINUTE GRID:

LATITUDE: 83° 00' 00" **LONGITUDE:** 39° 55' 00"

2



1 MILE

ROAD CLASSIFICATION

Heavy-duty — Light-duty

Medium-duty — Unimproved dirt

Interstate Route — U. S. Route — State Route

QUADRANGLE LOCATION

SOUTHWEST COLUMBUS, OHIO

N3952.5—W8300/7.5
PHOTOINSPECTED 1984
1965
PHOTOREVISED 1982
DMA 4363 I NE-SERIES V852

Revisions shown in purple and woodland compiled in cooperation with State of Ohio agencies from aerial photographs taken 1979 and other sources. This information not field checked. Map edited 1982

Purple tint indicates extension of urban areas

NOV 1991

133
NE

SDMS US EPA Region V

Imagery Insert Form

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SITE MAPS

☐ **Other:**

FIELD ACTIVITY REPORT

DATE: 12/6/91 TIME: 9:30 **AM**/PM WEATHER: rain clear **cloudy** snow

COUNTY: Franklin TEMPERATURE: 30 °F

SITE: Columbus Scrap OHIO I.D.# 125-1289

LOCATION: 580 Furnace St.
Columbus

OHIO EPA PERSONNEL: Jeff Reynolds-DERR

OTHER PERSONNEL: Gary Reynolds-Columbus Scrap, vice-president

PROTECTION LEVEL: A B C **D**

FIELD INSTRUMENTS:

	CALIBRATION DATE	READINGS AT SITE
PID		
CGI/O_2		
RAD METER		
OTHER		

FINDINGS/RECOMMENDATIONS (Attach additional sheets if necessary):

Site visit for USEPA Preliminary Assessment.
I met with Gary Reynolds, vice-president of Columbus Scrap, in his office. He showed me a large map of the site he had made. The map indicated areas on the CSX property (eleven plus acres total) that the USEPA Emergency Response group (Steve Renninger-OSC) had required to be studied. Some of these areas were outside the 6.2 acres of the property Columbus Scrap was leasing. Some of the areas were marked as being slated for further investigation/remediation. Others were not contaminated proposed site cleanup levels (25 ppm PCBs).

Gary Reynolds said the scrap that previously covered parts of these areas outside the property Columbus Scrap is currently leasing belonged to a previous operator. He also said the capacitors found during the 1989 TSCA inspection had been left there. He said the original reason for the TSCA inspection was that a scrap supplier, Tracy Westfall of Machine Design company, had thrown transformer carcasses in a Columbus Scrap scrap box. These carcasses were never actually purchased by Columbus Scrap but led to the TSCA inspection. This inspection found eight capacitors, one of which was labelled as containing PCBs. The others were very rusty and no labels were found.

Mr. Reynolds indicated he had all eight capacitors removed as PCB containing along with 40 cubic yards of PCB contaminated soil- not all of which was contaminated.

Columbus Scrap handles both ferrous and non-ferrous (e.g.- copper, brass, aluminum, stainless steel) scrap. The non-ferrous materials are warehoused in the big building behind the office, where they are graded and then shipped to smelters. The ferrous materials are kept out in the yard. Heavy materials are sheared and/or cut/ torched. Light materials are baled. Then it is all shipped to steel mills.

Mr. Reynolds said the property Columbus Scrap is leasing ends roughly 18 feet inside the railroad tracks to the northeast. It is bordered on the southwest by railroad tracks (some scrap is still on CSX property outside this line) and on the northwest by the Lazarus warehouse property (fence line).

He said there are plans to fence in the property (allows a cleanup level of 25 ppm PCBs under TSCA regs.) but that is not his project. He said the railroad (CSX) is deciding how much to fence in and is working with the surveyor and the fence company. This work may begin this month or next.

I then went outside to take my photos and walk the site. I made a site map (attached) and took 24 photos as follows:

1 Southwest property line of Columbus Scrap. Columbus Scrap to left, more RR property to the right. Some scrap and lime(?) piles on right side. Looking southeast.

2 Northwest property line. Lazarus warehouse on left. Looking northeast.

3 Shear building. Looking north.

4 Office on left, scale in center, welding (cutting) area and crane on right. Looking southeast.

5 Cutting area. Looking south.

6 Locker building (for workers). Looking south.

7 Garage on right and warehouse on left. Looking north.

8 Drums in scrap pile. Looking west.

9 Drums extending northwest of scrap pile (feel empty, rusty-but most without visible holes and with bungs). Looking northwest.

10 More drums piled up (maybe 300 total in area?). Garage and warehouse in background. Looking west.

11 Southern part of Columbus Scrap. Taken from railroad yard, looking southwest.

12 Northern part of Columbus Scrap. Taken from railroad yard, looking west.

13 Central part of Columbus Scrap. Taken from railroad yard, looking west.

14 Baler building, looking north.

15 Puddled/Ice area on southern part of facility. Lime piles in background. Looking southwest.

16 Columbus scrap looking northwest.

17 Southwest edge of Columbus Scrap, looking northwest.

18 Northeast edge of Columbus Scrap, looking northwest.

19 Scrap piles, looking east.

20 Scrap piles, looking east.

21 Lime(?) pile, looking southwest. There may be drainage to the southeast in this area, some evidence of puddling that way.

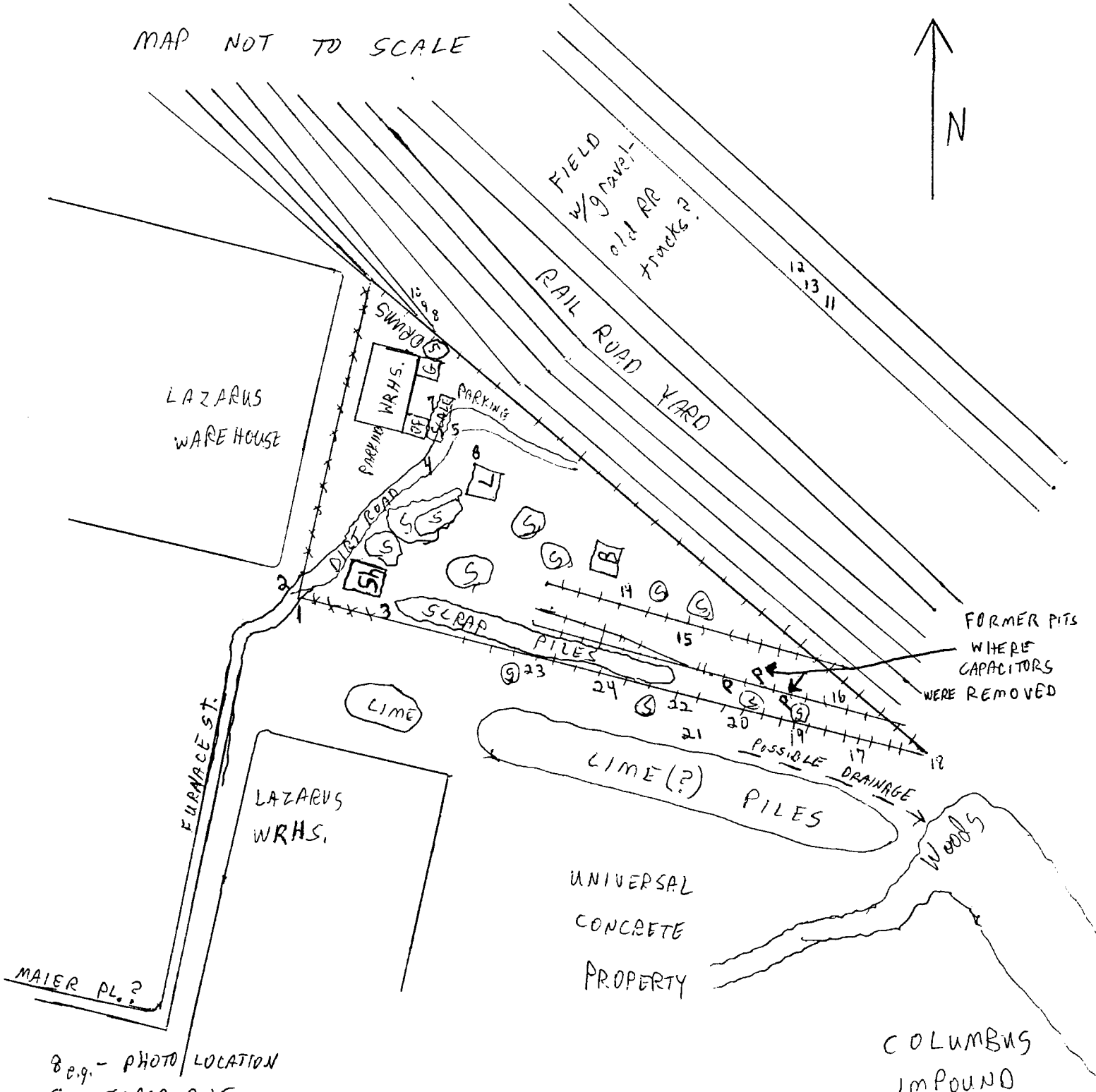
22 Baled scrap, looking north.

23 Baled scrap, outside Columbus Scrap property, looking southwest.

24 Big scrap pile along southwest edge of facility, looking northwest.

I left the site at 10:50 a.m.

PREPARED BY: Jeffrey W. Boyle DATE: 12/9/91



8 e.g. - PHOTO LOCATION
S - SCRAP PILE
B - BALER
L - LOCKER
Sh - SHEARER
G - GARAGE
Of - OFFICE
WRHS - WAREHOUSE

COLUMBUS SCRAP CORP.
580 FURNACE ST.
COLUMBUS
SITE VISIT MAP - 12/6/91, JEFF REYNOLDS

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 1 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: 10:00 AM DATE: 12/9/91

LOCATION: Columbus Scrap

DIRECTION: SE

OBJECT: SW Property line, scrap

REMARKS: BALER / CS property on left, more RR property on right (lime pile in bkgd.)

EXHIBIT NO: 2

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/9/91

LOCATION: CS

DIRECTION: NE

OBJECT: NW property line, gate/entrance to CS.

REMARKS: Lazarus warehouse on left.

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 3 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/9/91

LOCATION: COLUMBUS SCRAP

DIRECTION: N

OBJECT: Shear Building

REMARKS: Metal is cut here.

EXHIBIT NO: 4

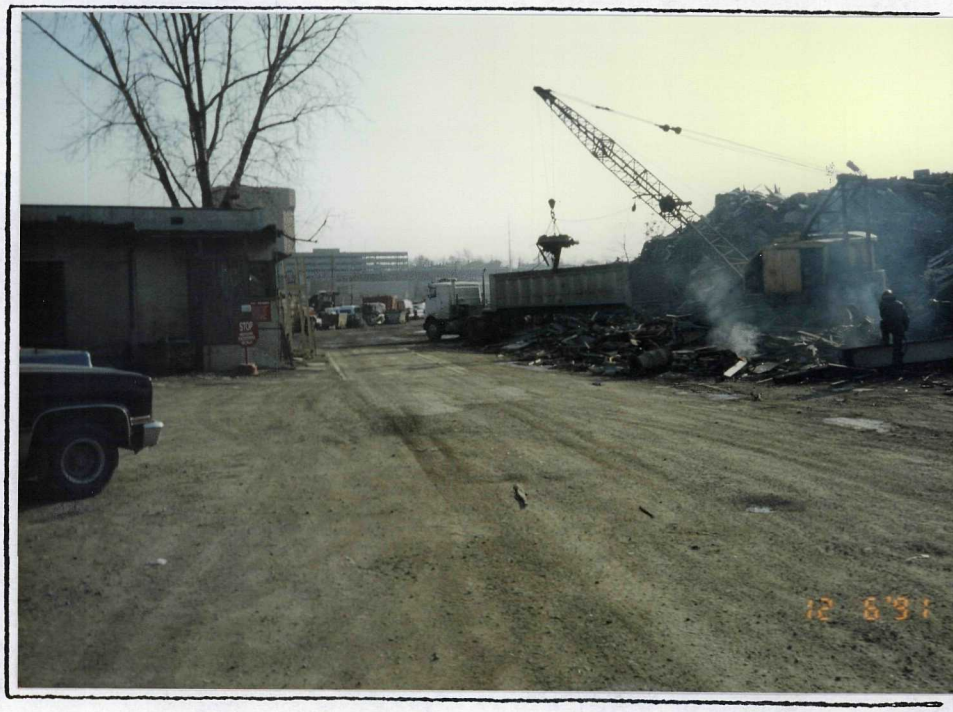
PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/9/91

LOCATION: COLS. SCRAP

DIRECTION: ESE

OBJECT: OFFICE ON LEFT, SCALE IN CENTER

REMARKS: CRANE / CUTTING AREA ON RIGHT



OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 5 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: S

OBJECT: CUTTING AREA

REMARKS: FOR STEEL/FERROUS

EXHIBIT NO: 6

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION: S

OBJECT: LOCKER BLDG.

REMARKS: FOR EMPLOYEES' LOCKERS.

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 7 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: N

OBJECT: GARAGE (BLUE)

NON-FERROUS WAREHOUSE (TAN)

REMARKS:

EXHIBIT NO: 8

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

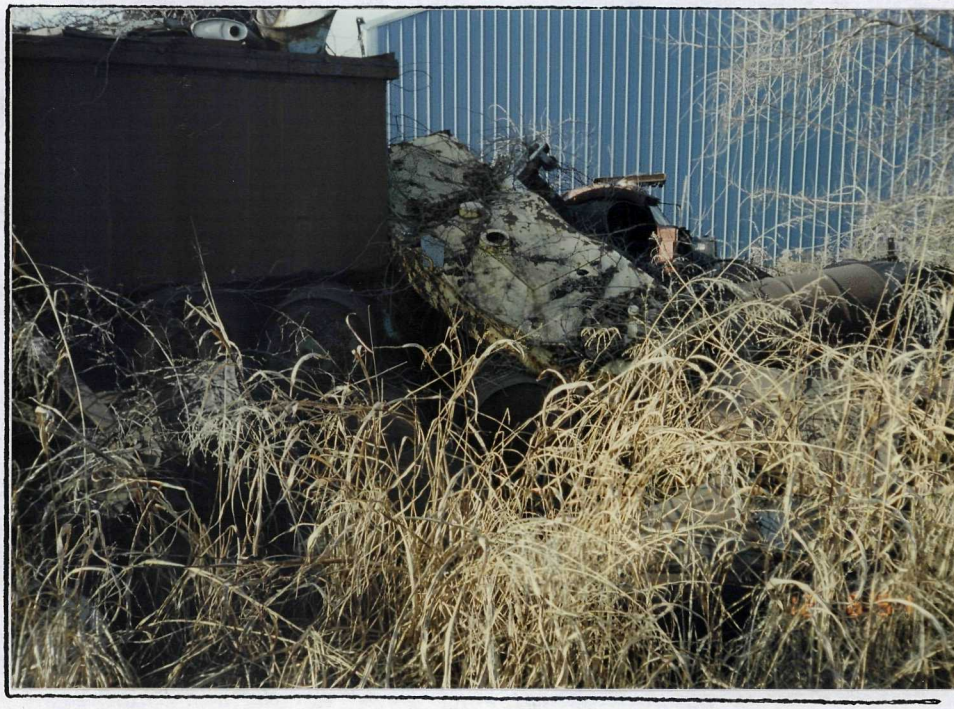
LOCATION: COL. SCRAP

DIRECTION: W

OBJECT: DRUMS IN

SCRAP PILE

REMARKS:



OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 9 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: NW

OBJECT: MORE DRUMS

TO N OF SCRAP PILE

REMARKS: GARAGE BEHIND

EXHIBIT NO: 10

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION:

OBJECT: DRUMS - N

OF SCRAP PILE

REMARKS: GARAGE

BEHIND

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 11 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: SW

OBJECT: SOUTHERN PART COL. SCRAP

REMARKS: TAKEN FROM RAILYARD...

EXHIBIT NO: 12

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION: SW

OBJECT: NORTHERN PART COLS. SCRAP

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 13 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: W

OBJECT: CENTRAL PART

COLUMBUS SCRAP

REMARKS:

EXHIBIT NO: 14

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION: N

OBJECT: BALER BLDG.

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 15 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: SW

OBJECT: SCRAP AT SOUTH END OF SITE

REMARKS: LIME (?) PILES IN BACKGROUND

EXHIBIT NO: 16

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COLS. SCRAP

DIRECTION: NW

OBJECT: CENTER OF SITE.

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 17 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLS. SCRAP

DIRECTION: NW

OBJECT: SW EDGE

COLS. SCRAP

REMARKS:

EXHIBIT NO: 18

PHOTOGRAPHER: JR TIME: DATE: 12/6/9

LOCATION: COLS. SCRAP

DIRECTION: NW

OBJECT: NE EDGE

COLS. SCRAP

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 19 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLS. SCRAP

DIRECTION: E

OBJECT: SCRAP PILES

REMARKS:

EXHIBIT NO: 20

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COLS. SCRAP

DIRECTION: E

OBJECT: SCRAP PILES

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 21 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLS. SCRAP

DIRECTION: SW

OBJECT: LIME PILES ?

REMARKS: DRAINAGE MAY RUN LEFT (SE) FROM HERE

EXHIBIT NO: 22

PHOTOGRAPHER: JR TIME: DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION: N

OBJECT: BALED SCRAP

REMARKS:

OHIO EPA PHOTOGRAPHY DATA

EXHIBIT NO: 23 3

PHOTOGRAPHER: JEFF REYNOLDS TIME: DATE: 12/6/91

LOCATION: COLUMBUS SCRAP

DIRECTION: SW

OBJECT: BALED SCRAP

REMARKS: OUTSIDE COLS. SCRAP PROPERTY

ATTACH PHOTOGRAPH HERE

PHOTO NOT AVAILABLE -

EXHIBIT NO: 24

PHOTOGRAPHER: JR TIME: 10:50 AM DATE: 12/6/91

LOCATION: COL. SCRAP

DIRECTION: NW

OBJECT: SCRAP PILE ALONG SW EDGE OF FACILITY

REMARKS:

4

ISSN 0731-5627

The Weather Almanac

A Reference Guide to Weather, Climate, and Air Quality in the United States and Its Key Cities, Comprising Statistics, Principles, and Terminology. Provides Weather/Health Information and Safety Rules for Environmental Hazards Associated with Storms, Weather Extremes, Earthquakes, and Volcanoes. Also Includes World Climatological Highlights and Special Features on Weather, Climate, and Society and on Ozone in the Upper Atmosphere.

FIFTH EDITION

James A. Ruffner
and
Frank E. Bair
Editors

GALE RESEARCH COMPANY
BOOK TOWER • DETROIT, MICHIGAN 48226

4

TABLE 1 NORMALS, MEANS AND EXTREMES

COLUMBUS, OHIO

LATITUDE: 40°00'N LONGITUDE: 82°53' W ELEVATION: FT. GRND 813 BARO 816 TIME ZONE: EASTERN WBAN: 14821

	(a)	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F:														
Normals														
-Daily Maximum		34.7	38.1	49.3	62.3	72.6	81.3	84.4	83.0	76.9	65.0	50.7	39.4	61.5
-Daily Minimum		19.4	21.5	30.6	40.5	50.2	59.0	63.2	61.7	54.6	42.8	33.5	24.7	41.8
-Monthly		27.1	29.8	40.0	51.4	61.4	70.2	73.8	72.3	65.8	53.9	42.1	32.0	51.6
Extremes														
-Record Highest	46	74	73	85	89	94	102	100	101	100	90	80	76	102
-Year		1950	1957	1945	1948	1941	1944	1955	1983	1951	1951	1950	1982	JUN 1944
-Record Lowest	46	-19	-13	-6	14	25	35	43	39	31	20	5	-12	-19
-Year		1985	1977	1984	1982	1966	1972	1972	1965	1963	1962	1976	1983	JAN 1985
NORMAL DEGREE DAYS:														
Heating (base 65°F)		1175	986	775	408	178	19	0	5	78	355	687	1020	5686
Cooling (base 65°F)		0	0	0	0	66	175	273	235	102	11	0	0	862
% OF POSSIBLE SUNSHINE	34	36	42	44	51	56	60	60	60	61	55	37	30	49
MEAN SKY COVER (tenths)														
Sunrise - Sunset	36	7.8	7.5	7.4	7.0	6.6	6.2	6.0	5.9	5.6	5.7	7.4	7.8	6.7
MEAN NUMBER OF DAYS:														
Sunrise to Sunset														
-Clear	36	4.2	4.0	4.9	5.4	6.0	6.3	6.6	7.1	9.5	10.3	4.9	3.9	73.0
-Partly Cloudy	36	6.3	6.2	6.7	7.9	10.4	11.3	13.4	12.9	9.1	7.3	6.6	6.1	104.2
-Cloudy	36	20.5	18.0	19.5	16.7	14.6	12.5	11.0	11.1	11.5	13.3	18.4	20.9	188.1
Precipitation .01 inches or more	46	13.3	11.5	14.0	12.9	12.7	11.0	10.8	9.4	8.3	8.8	11.5	12.7	136.8
Snow, Ice pellets 1.0 inches or more	37	3.0	2.1	1.5	0.2	0.0	0.0	0.0	0.0	0.0	0.*	0.8	1.9	9.6
Thunderstorms	46	0.4	0.5	2.2	4.1	6.4	8.0	8.1	6.4	3.0	1.2	0.9	0.3	41.4
Heavy Fog Visibility 1/4 mile or less	36	2.0	1.6	1.1	0.6	0.9	1.1	1.2	1.8	1.8	1.5	1.3	1.5	16.5
Temperature °F														
-Maximum														
90° and above	26	0.0	0.0	0.0	0.0	0.5	3.2	5.3	3.0	1.4	0.0	0.0	0.0	13.4
32° and below	26	14.8	10.1	3.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	1.2	9.2	38.4
-Minimum														
32° and below	26	27.5	23.9	18.9	6.8	0.7	0.0	0.0	0.0	0.1	3.9	14.0	23.9	119.8
0° and below	26	3.3	1.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	6.0
AVG. STATION PRESS. (mb)	13	988.5	988.5	985.8	985.9	985.0	986.0	987.1	988.3	988.9	989.4	988.8	988.7	987.6
RELATIVE HUMIDITY (%)														
Hour 01	26	74	73	69	69	76	80	82	84	82	78	77	76	77
Hour 07 (Local Time)	26	76	75	73	74	79	81	84	87	87	81	80	78	80
Hour 13	26	67	64	57	52	54	55	56	58	57	55	64	69	59
Hour 19	26	69	66	60	54	57	58	60	63	65	64	69	72	63
PRECIPITATION (inches):														
Water Equivalent														
-Normal		2.75	2.18	3.23	3.41	3.76	4.01	4.01	3.70	2.76	1.91	2.64	2.61	36.97
-Maximum Monthly	46	8.29	4.60	9.59	6.36	9.11	9.75	9.46	8.63	6.76	5.24	10.67	5.07	10.67
-Year		1950	1981	1964	1964	1968	1958	1958	1979	1979	1954	1985	1951	NOV 1985
-Minimum Monthly	46	0.53	0.29	0.61	0.67	0.95	0.71	0.48	0.58	0.51	0.11	0.60	0.46	0.11
-Year		1944	1978	1941	1971	1977	1984	1940	1951	1963	1963	1976	1955	OCT 1963
-Maximum in 24 hrs	38	4.81	2.15	3.40	2.37	2.72	2.93	3.82	3.79	4.86	1.87	2.47	1.74	4.86
-Year		1959	1975	1964	1957	1968	1958	1969	1972	1979	1965	1985	1978	SEP 1979
Snow, Ice pellets														
-Maximum Monthly	38	34.4	16.4	13.5	7.1	T				T	1.3	15.2	17.3	34.4
-Year		1978	1979	1962	1973	1966				1967	1962	1950	1960	JAN 1978
-Maximum in 24 hrs	38	7.5	8.9	8.6	6.3	T				T	1.3	8.2	8.7	8.9
-Year		1978	1971	1962	1973	1966				1967	1962	1950	1960	FEB 1971
WIND:														
Mean Speed (mph)	36	10.3	10.1	10.7	10.1	8.5	7.6	6.9	6.5	6.7	7.7	9.5	9.9	8.7
Prevailing Direction through 1963		SSW	NW	SSW	WNW	S	SSW	SSW	NNW	S	S	S	W	S
Fastest Mile														
-Direction	29	W	W	NW	W	NW	NW	W	SW	N	SW	N	SW	NW
-Speed (MPH)	29	56	57	63	56	54	47	51	43	38	43	61	47	63
-Year		1959	1956	1955	1970	1964	1966	1976	1979	1963	1979	1952	1971	MAR 1955
Peak Gust														
-Direction	2	W	E	W	S	W	SW	N	W	S	NW	W	W	W
-Speed (mph)	2	51	44	53	52	52	40	47	56	38	37	39	48	56
-Date		1985	1984	1985	1985	1985	1984	1985	1984	1985	1985	1985	1985	AUG 1984

See Reference Notes to this table on the following page.

TABLE 2 PRECIPITATION (inches)

COLUMBUS, OHIO

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	2.13	4.11	3.44	4.76	4.85	4.2[illegible]	4.45	2.23	1.37	1.15	0.97	3.21	35.93
1957	1.94	1.82	1.61	5.70	5.41	5.20	2.99	0.81	2.99	1.27	3.23	4.68	37.77
1958	1.81	0.82	1.50	4.09	3.54	9.25	9.46	2.81	3.01	1.27	1.56	0.63	40.37
1959	2.44	3.08	1.45	3.69	4.15	1.55	3.23	1.55	1.55	3.33	3.71	2.27	36.91
1960	2.31	2.57	1.11	1.60	5.82	2.47	4.54	2.48	0.83	2.55	1.60	1.62	29.50
1961	0.65	2.90	4.83	4.58	2.90	3.49	4.61	2.73	1.05	1.18	3.49	2.42	34.83
1962	3.17	3.46	2.43	1.33	2.31	2.26	3.59	2.31	3.62	2.06	2.94	1.76	31.24
1963	1.39	1.01	7.14	3.27	1.61	1.25	2.90	3.67	0.51	0.11	0.80	0.85	24.51
1964	1.82	1.68	9.59	6.36	1.95	5.71	2.97	3.19	1.66	0.38	1.81	4.09	41.21
1965	2.70	3.76	2.90	5.90	4.00	2.42	3.76	4.62	6.18	3.98	1.19	1.24	42.65
1966	2.87	2.59	1.04	4.89	3.13	1.28	5.91	4.30	3.56	0.79	4.05	3.33	38.34
1967	0.78	2.46	4.40	3.29	4.59	2.92	4.22	1.51	2.63	1.39	3.22	2.55	33.96
1968	2.22	0.38	3.01	2.20	9.11	2.96	2.80	3.08	1.77	2.59	4.26	3.40	37.78
1969	3.40	1.17	1.32	3.10	3.04	8.19	7.65	3.25	1.40	1.52	3.87	2.30	40.21
1970	1.60	1.68	3.04	5.52	5.37	5.65	3.73	3.94	3.95	2.07	2.88	2.50	41.93
1971	1.57	3.16	2.70	0.67	3.66	4.16	4.22	2.81	3.08	1.32	1.73	4.61	33.69
1972	1.40	1.74	2.86	3.74	6.56	3.98	2.60	7.96	5.13	1.74	4.40	3.49	45.60
1973	2.46	1.29	3.43	3.72	3.36	8.77	4.07	4.97	2.82	3.29	5.37	2.70	46.25
1974	2.40	2.30	4.38	2.66	3.29	5.04	1.14	4.88	3.32	1.51	3.39	2.68	36.99
1975	3.21	3.47	4.10	2.71	3.17	3.53	2.04	4.51	5.46	2.29	1.54	3.01	39.04
1976	3.15	2.03	2.17	1.44	1.41	4.52	5.12	5.08	2.54	2.86	0.60	0.93	31.85
1977	1.57	1.02	3.88	4.04	0.95	4.02	2.52	4.76	3.48	2.57	3.77	3.54	36.12
1978	5.89	0.29	2.98	3.02	4.15	3.65	1.81	5.23	1.16	2.39	1.56	5.01	37.14
1979	3.32	2.88	1.01	4.01	3.27	4.23	8.06	8.63	6.76	1.26	3.91	1.83	49.17
1980	1.69	1.38	3.77	1.59	4.56	5.17	4.58	6.26	1.86	2.53	2.07	1.96	37.42
1981	0.70	4.60	1.11	5.38	6.50	5.73	4.14	1.41	2.28	1.40	1.65	2.88	37.78
1982	4.77	1.49	3.99	1.90	4.68	3.37	3.90	1.02	4.25	0.92	5.19	3.84	39.32
1983	1.20	0.74	1.69	5.58	5.06	4.59	2.80	2.23	1.91	4.45	5.00	3.16	38.41
1984	1.07	1.97	3.89	3.10	4.93	0.71	3.15	2.96	1.48	2.91	4.41	2.84	33.42
1985	1.31	1.67	3.78	0.73	4.96	1.41	6.88	2.34	1.18	1.93	10.67	1.81	38.67
Record Mean	2.89	2.44	3.97	3.16	3.72	3.70	3.73	3.26	2.60	2.22	2.80	2.59	37.09

TABLE 3 AVERAGE TEMPERATURE (deg F)

COLUMBUS, OHIO

YEAR	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEP	OCT	NOV	DEC	ANNUAL
1956	27.7	35.6	39.5	48.5	61.3	71.1	73.8	73.1	63.4	59.4	43.1	40.8	53.1
1957	25.8	36.5	40.7	54.1	62.7	72.3	75.1	73.3	66.3	51.5	43.4	36.8	53.2
1958	28.4	24.9	37.7	52.4	61.4	67.7	74.4	72.6	66.1	54.4	43.9	23.4	50.6
#1959	26.0	32.7	38.8	52.6	66.8	71.5	75.4	77.3	69.6	55.1	39.5	36.4	53.5
1960	34.1	28.8	28.4	55.3	59.4	69.7	71.8	74.9	68.3	55.1	44.4	25.1	51.3
1961	23.5	36.9	45.3	47.1	56.5	67.2	73.7	73.1	71.0	55.3	41.8	29.7	51.8
1962	24.6	28.8	36.9	48.7	67.2	72.3	71.3	71.6	61.5	54.4	40.8	24.9	50.2
1963	21.7	22.4	42.8	51.1	58.8	70.8	73.9	69.9	63.7	59.9	44.6	21.6	50.1
1964	30.1	27.7	41.1	53.6	63.4	70.3	74.4	71.2	65.0	51.1	45.1	33.9	52.3
1965	28.3	29.1	34.8	51.4	68.1	69.4	72.0	71.0	68.3	54.4	43.3	36.6	52.2
1966	22.2	29.4	41.8	49.4	56.1	71.4	75.6	71.3	63.2	50.7	42.4	32.6	50.5
1967	34.8	25.8	40.4	52.6	55.4	71.8	71.7	68.3	60.4	51.9	36.7	34.3	50.3
1968	23.6	25.7	43.3	53.1	58.5	71.5	74.1	73.0	65.5	54.1	44.0	31.1	51.5
1969	27.0	31.4	35.3	51.5	61.7	68.5	74.1	71.2	63.8	53.9	39.3	26.8	50.4
1970	20.6	28.5	36.9	53.4	64.9	69.8	73.5	72.4	68.9	55.6	42.4	34.3	51.8
1971	24.3	30.8	36.6	49.0	58.0	73.5	70.5	68.9	67.8	59.8	40.4	38.4	51.5
1972	28.2	27.7	37.0	48.8	60.8	63.6	71.9	70.1	64.6	49.6	40.5	36.1	49.9
1973	31.2	31.4	50.4	51.1	59.5	72.6	74.3	74.2	68.9	58.6	45.1	33.7	54.3
1974	33.2	31.2	44.6	54.3	60.8	67.7	74.4	74.0	62.2	52.8	44.5	34.0	52.8
1975	32.5	33.4	37.3	46.7	66.6	72.4	75.1	77.3	62.7	54.7	47.5	33.5	53.3
1976	24.0	37.4	46.5	50.9	58.1	70.5	72.0	68.3	61.7	47.5	33.9	24.8	49.6
1977	11.4	26.5	45.6	54.8	66.8	67.5	76.2	72.0	68.2	52.0	45.1	29.5	51.3
1978	19.0	16.6	34.5	50.6	59.6	70.4	73.5	73.2	69.8	51.5	44.4	34.4	49.8
1979	21.4	19.3	44.3	50.1	60.5	69.6	71.8	71.9	65.1	53.3	43.6	35.1	50.5
1980	29.3	25.2	37.2	49.5	62.4	67.4	75.9	75.9	68.3	50.8	40.8	32.5	51.3
1981	23.3	34.0	40.2	55.8	59.5	70.9	71.9	70.4	62.3	51.1	40.9	30.6	50.9
1982	21.2	29.2	40.4	46.4	66.8	65.8	74.4	69.2	63.5	56.2	45.4	40.4	51.6
1983	29.3	34.0	43.3	48.4	57.6	69.4	76.7	76.2	67.1	54.5	44.0	24.8	52.2
1984	23.3	37.4	32.3	50.0	57.6	73.1	71.2	72.9	63.1	59.4	40.6	39.5	51.7
1985	21.7	26.0	43.7	56.3	62.6	66.9	72.7	71.2	66.6	57.3	48.2	26.0	51.6
Record Mean	28.7	30.6	40.0	51.1	61.8	70.8	74.7	72.8	66.4	54.8	42.3	32.4	52.2
Max.	38.2	38.6	49.0	61.3	72.4	81.2	85.1	83.1	77.1	65.1	50.4	39.5	61.6
Min.	21.2	22.6	31.0	40.9	51.2	60.3	64.2	62.5	55.8	44.6	34.1	25.2	42.8

REFERENCE NOTES FOR TABLES 1, 2, 3 and 6 (COLUMBUS, OH)

GENERAL

T - TRACE AMOUNT
BLANK ENTRIES DENOTE MISSING/UNREPORTED DATA
# INDICATES A STATION OR INSTRUMENT RELOCATION

SPECIFIC

TABLE 1

(a) - LENGTH OF RECORD IN YEARS ALTHOUGH INDIVIDUAL MONTHS MAY BE MISSING.

* LESS THAN .05

NORMALS — BASED ON THE 1951-1980 RECORD PERIOD
EXTREMES — DATES ARE THE MOST RECENT OCCURRENCE.
WIND DIR. — NUMERALS SHOW TENS OF DEGREES CLOCKWISE FROM TRUE NORTH
"00" INDICATES CALM.
RESULTANT WIND DIRECTIONS ARE GIVEN TO WHOLE DEGREES.

EXCEPTIONS

TABLES 2, 3, and 6

RECORD MEANS ARE THROUGH THE CURRENT YEAR, BEGINNING IN
1879 FOR TEMPERATURE
1879 FOR PRECIPITATION
1948 FOR SNOWFALL

OHIO ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

WITH GARY REYNOLDS DATE 12/5/91

REPRESENTING COLUMBUS SCRAP V-P TIME 10:40 a.m.

PERMIT NO. PHONE 228-1603

OEPA STAFF JEFF REYNOLDS

SUBJECT COLUMBUS SCRAP - PA QUESTIONS AND TO LET HIM KNOW I'M COMING FOR SITE VISIT 12/6.

NOTES & SUMMARY: FOLLOW-UP DATE

GARY SAID THE SITE IS 6.2 ACRES (COLS. SCRAP FACILITY). PREVIOUSLY HAD 11 PLUS ACRES, TURNED SOME BACK OVER TO CSX. HE SAYS THE USEPA IS STUDYING 11 PLUS ACRES, NOT SIX LIKE THEY CLAIM. THEY ARE STUDYING SOME AREA OFF THE COLS. SCRAP FACILITY. HE DOESN'T WANT TO GIVE ME A COPY OF THE LEASE - DOESN'T UNDERSTAND WHY I NEED IT. HE SAID THEY HAVE TO UNREASOBLY MOVE DIRT. IT COULD POTENTIALLY COST THEM $2 MILLION TO HAUL THE DIRT AWAY, BUT THEY'RE A LONG WAY FROM AGREEING TO ANYTHING. I ASKED AGAIN IF I COULD GET A COPY OF THE LEASE IT DIDN'T SOUND LIKE I WOULD.

Signature Jeffrey W. Reynolds

OEPA-INDWW-3

KEMRON
ENVIRONMENTAL SERVICES

1815 Century Blvd. ▪ Suite 150 ▪ Atlanta, Georgia 30345 ▪ Telephone (404) 636-0928 ▪ FAX (404) 636-7162

Project 455

7 June 1991

REVISED WORK PLAN
SITE CHARACTERIZATION
COLUMBUS SCRAP FACILITY
COLUMBUS, OHIO

Submitted to:

U.S. Environmental Protection Agency
Region V
230 South Dearborn Street
Chicago, Illinois 60604

Submitted by:

KEMRON Environmental Services, Inc.
1815 Century Boulevard, Suite 150
Atlanta, Georgia 30345

gb:workplan.455

EXECUTIVE SUMMARY

The Columbus Scrap Facility is located at 580 Furnace Street, Columbus, Ohio. The property is owned by CSX Transportation and leased by Columbus Scrap Corporation, and has been operated by various companies as a scrap yard since 1951. In May 1989 the Ohio EPA inspected the facility and discovered eight capacitors on the property. The capacitors and surrounding soil were removed by Chemical Waste Management, leaving three shallow pits. Subsequent soil sampling by Chemical Waste Management and Maecorp indicated that complete remediation of PCB soil contamination had not been accomplished. PCB sampling of soils in and around the pits was repeated in July 1990 by KEMRON Environmental Services and the United States Environmental Protection Agency (USEPA). Assay results confirmed the presence of PCBs. A USEPA Administrative Order by Consent (AOC) was issued requiring Columbus Scrap and CSXT to conduct further contamination assessment and eventual remediation of the site. The AOC was signed on 10 April 1991.

This Work Plan was prepared by KEMRON under the direction of Mr. Mark Murphy, Project Coordinator for Columbus Scrap and CSXT, as required in paragraph 1 of the AOC. The sampling and analysis plan is designed to survey the site in appropriate detail for the presence of PCBs and leachable metals (the eight RCRA metals and zinc). A three phase approach is proposed, with sampling in each phase becoming increasingly detailed. The first phase involves delineation of potentially contaminated areas (PCAs). The second phase involves dividing the PCAs into sectors and characterizing surficial contaminant concentrations in each sector. The third phase involves depth profiling in contaminated sectors. Which areas are considered potentially contaminated and which sectors are considered contaminated will be base upon whether or not assay results exceed target contamination levels. Phase one samples will be contoured. Areas within the target contamination level contour (equal to one-fifth of the TCLP limit for each metal and 5 ppm for PCBs) will be considered potentially contaminated. Sector assays that exceed target levels will trigger depth profiling and eventual remediation of the affected sector. Remediation triggers will be the TCLP limits for metals and 25 ppm for PCBs.

Elements of this Work Plan include the Sampling and Analysis Plan, project organization, and project schedule. The health and safety of field personnel will be maintained through compliance with the project-specific Health and Safety Plan (Appendix A). Sampling and other work tasks will be done in accordance with procedures delineated in the Quality Assurance Project Plan (Appendix B).

1.0 INTRODUCTION

This Work Plan for characterization of soil contamination at the Columbus Scrap Facility, Columbus, Ohio was developed in compliance with an Administrative Order by Consent (AOC) for the site, signed on 10 April 1991.

Project background is outlined in this introductory section. Project organization and the proposed schedule for completion of Work Plan tasks are presented in Sections 2.0 and 3.0. Specific elements of the Work Plan are detailed in Section 4.0. A project-specific Health and Safety Plan and Quality Assurance Project Plan (QAPP) are included as Appendices A and B. The method for selecting sample locations is detailed in Appendix C.

1.1 PROJECT BACKGROUND

The subject site is located at 580 Furnace Street in Columbus, Ohio. The property is owned by CSX Transportation (CSXT) and has been leased to Columbus Scrap Corporation since July 1985. A site map is presented as Figure 1. In May 1989, polychlorinated biphenyl (PCB)-contaminated capacitors were discovered in a roll-off box owned by Columbus Scrap and used by a local equipment rebuilder. This discovery prompted the Ohio EPA (OEPA), acting as agent for the USEPA, to conduct an inspection of the subject property. The purpose of the inspection, performed on 25 May 1989, was to monitor Columbus Scrap's compliance with federal regulations governing the handling and disposal of PCBs. Eight electrical capacitors, at least one of which was identified as containing PCBs, were found during the course of the inspection. A soil sample collected by OEPA during the inspection and assayed for PCBs contained approximately 1,000 mg/kg (ppm) of the PCB Arochlor 1242.

Following the inspection, Chemical Waste Management, Inc. was retained by Columbus Scrap to remove the eight capacitors and excavate and dispose of surrounding soils. This was accomplished in June 1989. Three shallow pits remained where the capacitors had been located (Figure 1). Chemical Waste Management retrieved initial soil samples from the excavated pits on 23 February 1990 and confirmatory samples on 9 July 1990. Additional soil samples were collected from areas surrounding the pits by Maecorp, Inc. on 22 and 23 September 1990. Based

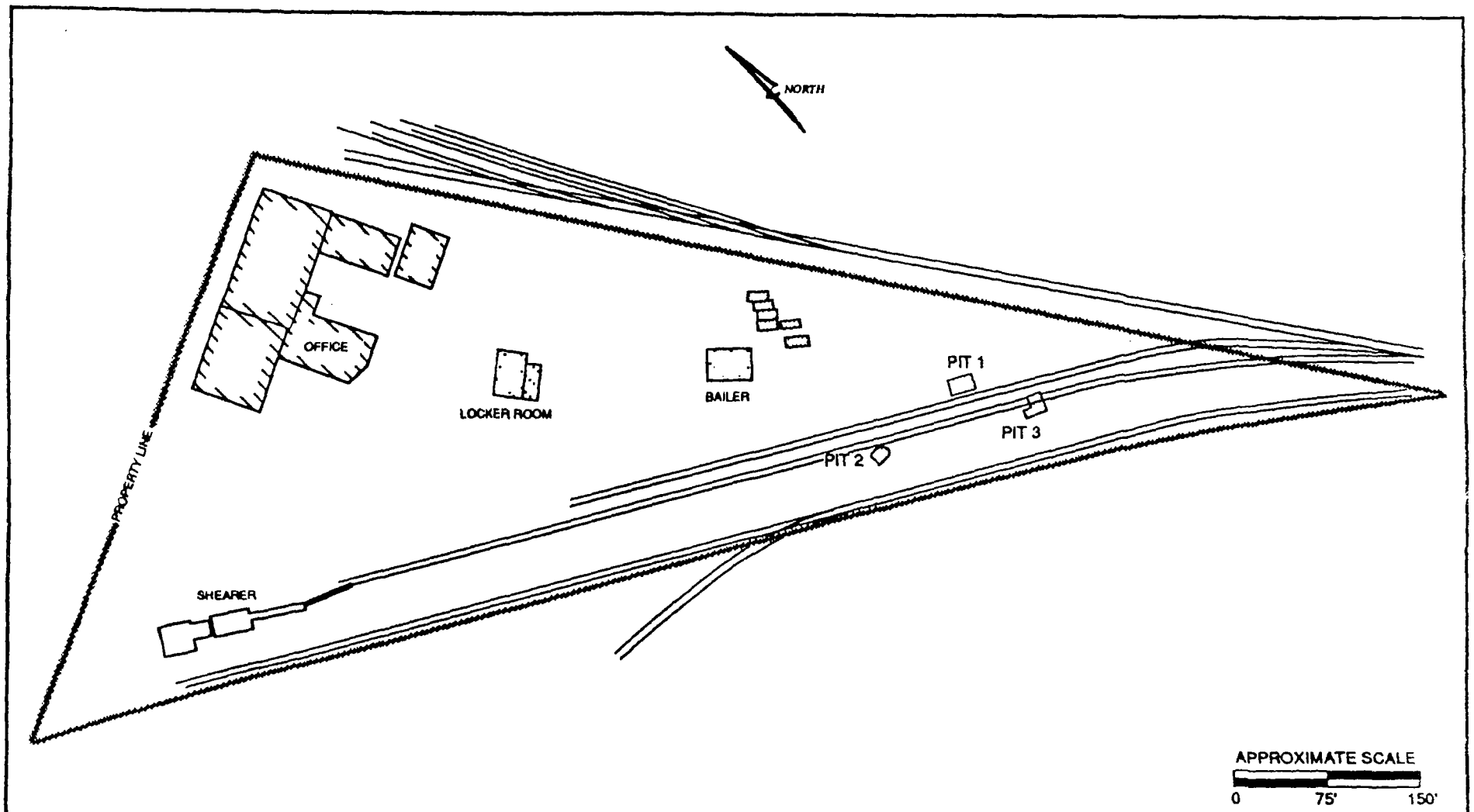


Figure 1. Site map.

upon the results of this sampling, USEPA determined that a more extensive soil sampling program should be conducted over the entire facility in anticipation of remediation of site soils.

Toward the end of this prior work, KEMRON was authorized by CSXT to conduct a general investigation and sampling program at the Columbus Scrap Facility. On 27 July 1990, ten representative soil samples were collected by KEMRON and split with a USEPA Technical Assistance Team. The samples were primarily from in and around the pits, as shown in Figure 2. These samples were assayed for PCBs. USEPA assay results indicated the presence of four PCB mixtures (see Section 1.3).

Representatives of Columbus Scrap, CSXT, KEMRON, and USEPA Region V met at the Columbus Scrap Facility on 17 December 1990. Various options for further action at the site were discussed. As a result, a USEPA Administrative Order by Consent (AOC) was issued, requiring Columbus Scrap and CSXT to conduct further contamination assessment and eventual remediation at the site. The AOC was signed on 10 April 1991. This Work Plan was prepared by KEMRON in response to the AOC.

1.2 FACILITY BACKGROUND

Columbus Scrap Corporation operates a commercial scrap yard on an approximately 6.5 acre site in Columbus, Ohio (Figure 3). The site is owned by CSXT, and Columbus Scrap operates under the terms of a lease dated July 1985. The site has an unbroken 40-year history as an operating scrap yard. Between November 1981 and July 1985, the site was operated as a scrap yard by Summer Company. In July 1985, Columbus Scrap purchased Summer Company. Prior to November 1981, the site was used as a scrap yard by Handler Compressed Steel Corporation. Handler had leased the property since May 1951. Prior to May 1951 the site was used in conjunction with railroad operations.

The site is utilized for the storage, shredding, and recycling of scrap metal. The triangular parcel is bounded on the northeast and southwest by railroad track and rail spurs and on the northwest by a warehouse operation. Aside from the inventory, four structures occupy

OHIO ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

WITH STEVE RENNINGER DATE 11/25/91

REPRESENTING USEPA - ER (WESTLAKE) OSC TIME 2:30 p.m.

PERMIT NO. PHONE (216) 835-5200

OEPA STAFF JEFF REYNOLDS

SUBJECT COLUMBUS SCRAP / I CALLED FOR AN UPDATE ON THEIR WORK.

NOTES & SUMMARY: FOLLOW-UP DATE

STEVE SAID THEY SAMPLED SOME SOIL FOR TOTAL METALS. NO PROBLEMS FOUND. ABOUT 5 OF 6 ACRES "HOT" FOR PCBs. COMPUTER GENERATED CONTOUR LINES - WILL MAP AND THEN SAMPLE TO DEPTH OF 2 FEET. WILL USE 25 ppm FOR "HOT" AREA SINCE RESTRICTING ACCESS TO SITE - WHOLE SITE. THEY'RE CURRENTLY TAKING ADDITIONAL SAMPLES. WAITING FOR COLS. SCRAP TO MOVE SCRAP PILES. THEN THEY SAMPLE THAT AREA. HE'D LIKE A COPY OF THE FINAL PA.

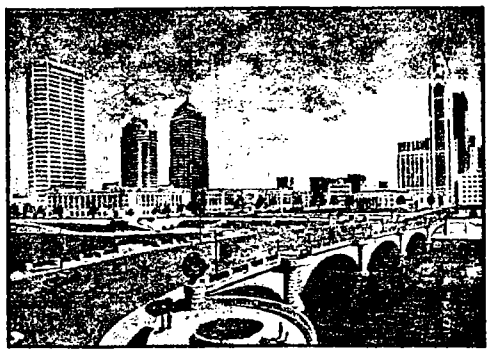
Signature

OEPA-INDWW-3

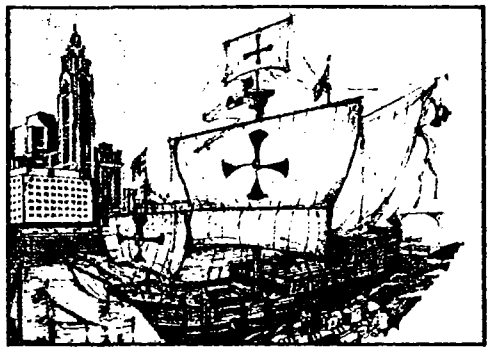
REF. 8
↑N
COLUMBUS
SCRAP

FRANKLIN COUNTY
OHIO
JOHN CIRCLE COUNTY ENGINEER

JACK FOULK • DOROTHY S. TEATER • HUGH DeMOSS
BOARD OF COMMISSIONERS

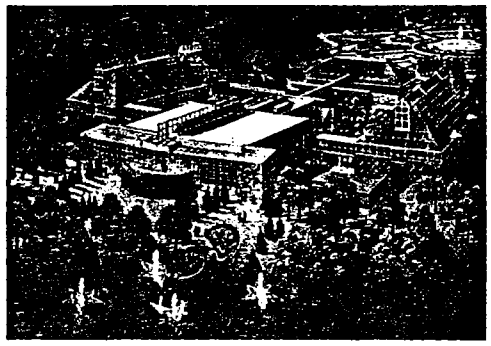


The Discovery Bridge



Columbus 92

The Santa Maria



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CASTLE RD
FORNOFF RD.
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BRICKER & ECKLER
100 SOUTH THIRD STREET
COLUMBUS, OHIO 43215-4291

TELEPHONE (614) 227-2300
FAX (614) 227-2390

WRITER'S DIRECT DIAL NUMBER

227-2378

June 8, 1990

TELECOPIED

Louise Gross, Esq.
Assistant Regional Counsel
Region V
U. S. Environmental
Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

Re: Docket No. TSCA-V-C-05-90
Settlement Proposal

Dear Louise:

Over the past two months we have had an extensive sampling program performed at the Columbus Scrap Corporation facility to identify the extent of PCB's in the area that the capacitors were discovered. Based upon the testing that was done at the site to date, we would make the following proposal for cleanup.

At the outset, it is our opinion that this area is inaccessible to the general public; therefore a twenty-five part per million cleanup level should be established for the site. The area of the site where the capacitors were discovered is not near any access roads that would be utilized by the general public, and is in a very desolate rail area which is only traversed by workers on locomotive-driven magnetic cranes. It is improbable that anyone from the general public would ever be in this area or have access to it. There are fences and walls around the majority of the site that is adjacent to any types of public access. The back portion of the facility is bounded by many acres of railroad tracks and is a approximately one quarter

mile away from the nearest public thoroughfare. There is also security on site at all hours when the facility is not operating. We believe that the site would qualify under the definition of "other restricted access locations". (40 C.F.R. Section 761.123) Therefore, we believe that the twenty-five parts per million cleanup level is appropriate.

It is our intention to cleanup the areas that have tested greater than twenty-five parts per million to a depth and circumference around the test point to provide cleanup below the twenty-five parts per million level. Appropriate post-cleanup testing will be utilized to insure that the area has been cleaned to the twenty-five parts per million level. Prior to disposal the material will be tested and deposited in an appropriate facility. The cleanup and disposal will be provided by Chemical Waste Management, Inc. Post testing results will be submitted to U. S. EPA for your scrutiny.

The attached exhibits, although not to scale, represent the grid testing that was done at the alleged spill site. We propose the following cleanup program.

? 1. In area one we will remove a 2-foot diameter to a 12 foot depth around test point 1B.

2. In area two and three we will remove test points 2A through 2G and 3A, 3G, 3E, and 3F at the perimeter of the grid points to a depth of 18". We will further remove test points 3B, 3C and 3D and an area 2 feet in diameter of each of these test points to a depth of 36".

3. In area four we will remove test point 4A at a 2 foot diameter to a depth of 18". We will further remove test points 4B and 4G to a 2 foot diameter at a depth of 12".

4. In area five we will remove test points 5A, 5B, 5G, 5E, and 5F plus 2 foot outside of the perimeter to a depth of 24".

During excavation we will inspect for oily or discolored soils which would evidence the possibility of contaminated materials. Any evidence of contamination will be removed to insure that the cleanup is thorough.

Thank you for your prompt attention to this proposal. I will look forward to hearing from you in the near future on this matter.

Sincerely,

Kirk

Kirk N. Guy

KNG/vac
encl.

OHIO ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

11

WITH GARY REYNOLDS DATE 11/22/91

REPRESENTING COLUMBUS SCRAP TIME 11:30 a.m.

PERMIT NO. PHONE 228-1603

OEPA STAFF JEFF REYNOLDS

SUBJECT COLUMBUS SCRAP, I CALLED HIM TO ASK SOME QUESTIONS FOR THE PA.

NOTES & SUMMARY: FOLLOW-UP DATE

GARY SAID COLS. SCRAP TOOK OVER THE SITE IN 1985. HE SAID THEIR LEASE IS DAY TO DAY, WITH A 30 DAY NOTICE BY EITHER PARTY, WITH CSX. HE SAID THEY DON'T REALLY HAVE A CONTACT JUST SEND BILLS TO RAILROAD. FOR ENVIRONMENTAL THEY TALK TO MARK MURPHY OF CSX. TRY (904) 281-4006 - HE MIGHT HAVE THE REAL ESTATE INFO I WANT. KEN COHEN IS THE PRESIDENT OF COLS. SCRAP CORP. COLS SCRAP BOUGHT INVENTORY & ASSETS FROM SUMMER & CO. - ALL OUT OF BUSINESS. JOE SUMMER WAS CHAIRMAN, MAY BE IN PHONE BOOK, ON DAWSON AVE. IN BEXLEY. BOUGHT FROM HANDLERS IN 1981 - LEON HANDLER FROM BOCA RATON? HE SAID LIME(?) PILE BELONGS TO RR - ON CSX PROPERTY - BUT NOT ON LEASE PROPERTY - SOURCE UNKNOWN. RUSTY DRUMS ARE VERY OLD (HANDLER DAYS). SAYS DRUMS BROUGHT TO SITE EMPTY - REJECTS FROM COLS. STEEL DRUM. ALSO OFF THEIR PROPERTY. GARY HAS BEEN THERE SINCE 1981 - DRUMS WERE OLD THEN. ABOUT 30 EMPLOYEES. RAIN STAYS IN YARD, NO SEWERS ON SITE. PCB MATERIAL - TOOK OUT 3-15 yd^3 (≈40 yd^3) BOXES. TOOK THAT AMOUNT SOIL OUT TO REDUCE TESTING. WHEN TESTED FOR AT DUMP (DISPOSAL FACILITY) FOUND NO PCB IN TEST BOX. GR

Signature

OEPA-INDWW-3

— LEGEND —

Sanitary Sewers

Storm Sewers

Combined Sewers

Private Sanitary Sewers
Private San. Sewers Assigned to City

Private Storm Sewers
Private Storm Sewer Assigned to City

Private Combined Sewers
Private Combined Sewers Assigned to City

Abandoned Sewers - Sanitary

Storm — x — x Combined — x — x

Relief Sewers

Bulkhead in Sewers

Cone Top Inlets

All M.H.s Shown As Open Circle ○

All Catch Basin M.H.s Shown As Solid Circle ●

All Catch Basins Shown As Small Solid Circle •

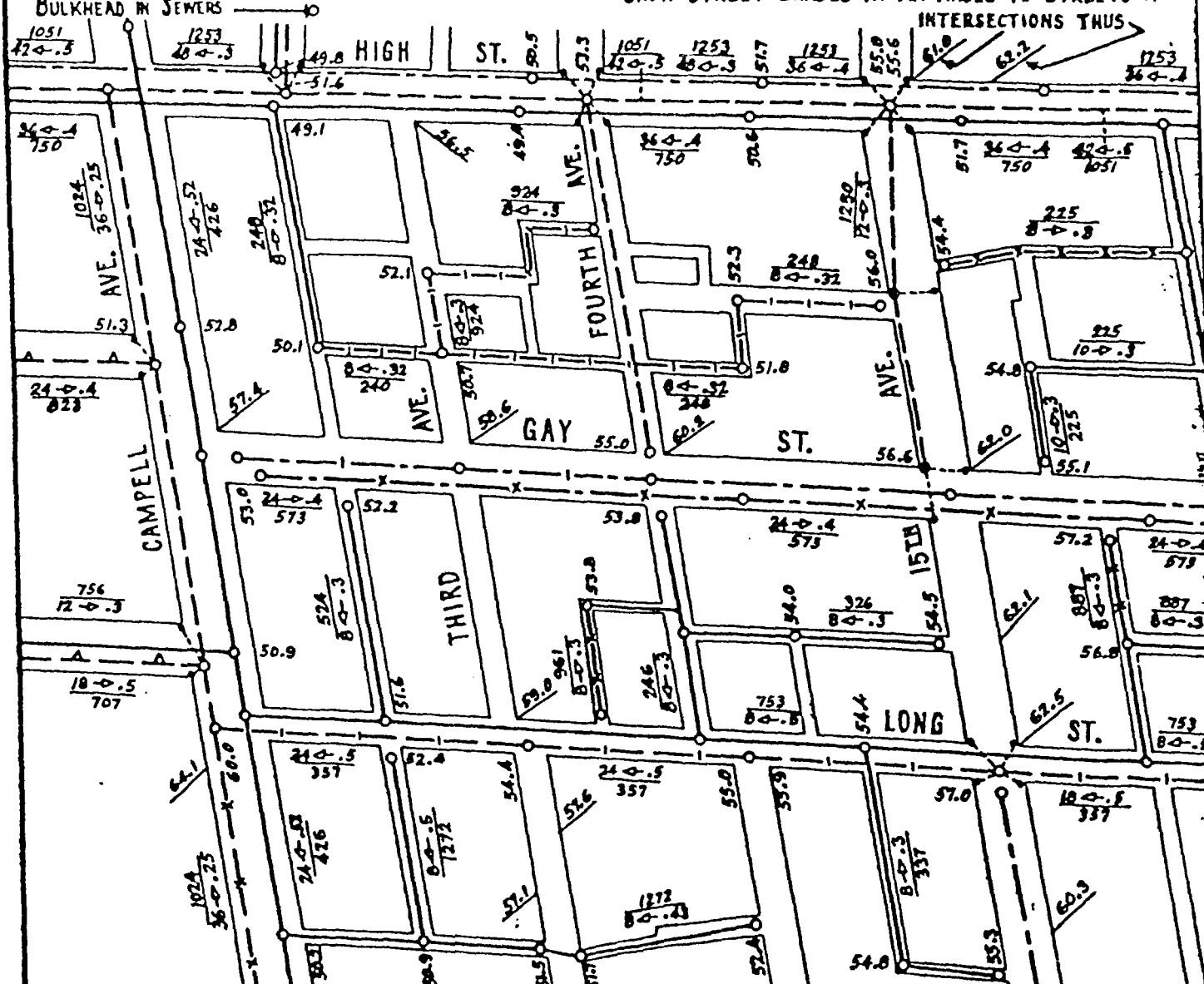
County Record Plan Nos. Shown Thus - 278 c

Show Clean Out As A Small Open Circle & Mark C.O.

DATA INTERPRETATION

$\frac{8 \leftarrow .31}{746}$ = SIZE - DIRECTION OF FLOW - GRADE RECORD PLAN NO.

SHOW STREET GRADES AT AN ANGLE TO STREETS & INTERSECTIONS THUS



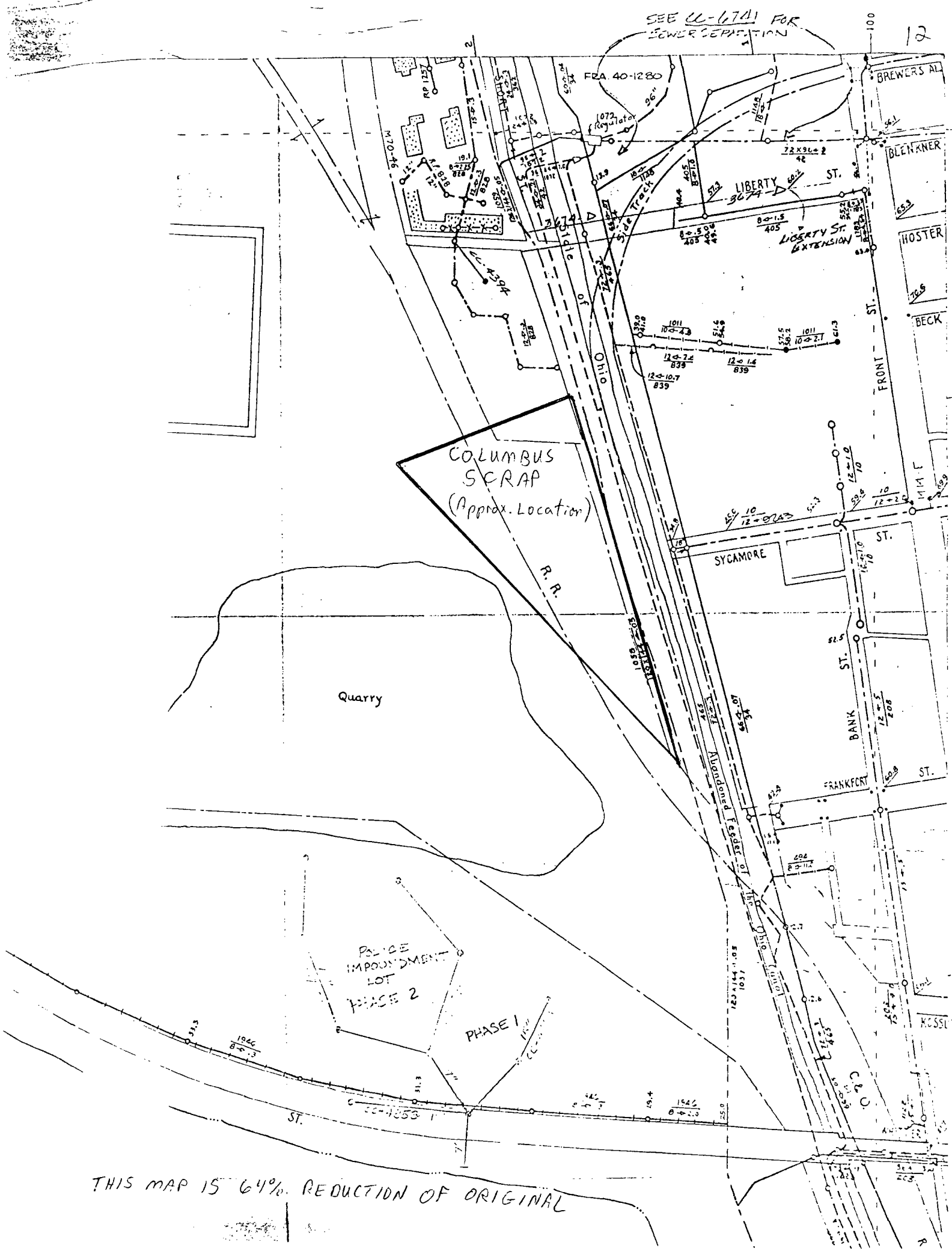
APPROVED
Nov. 18, 1946
May 9, 1949
July 23, 1969

LEGEND FOR 200' SCALE SEWER ATLAS

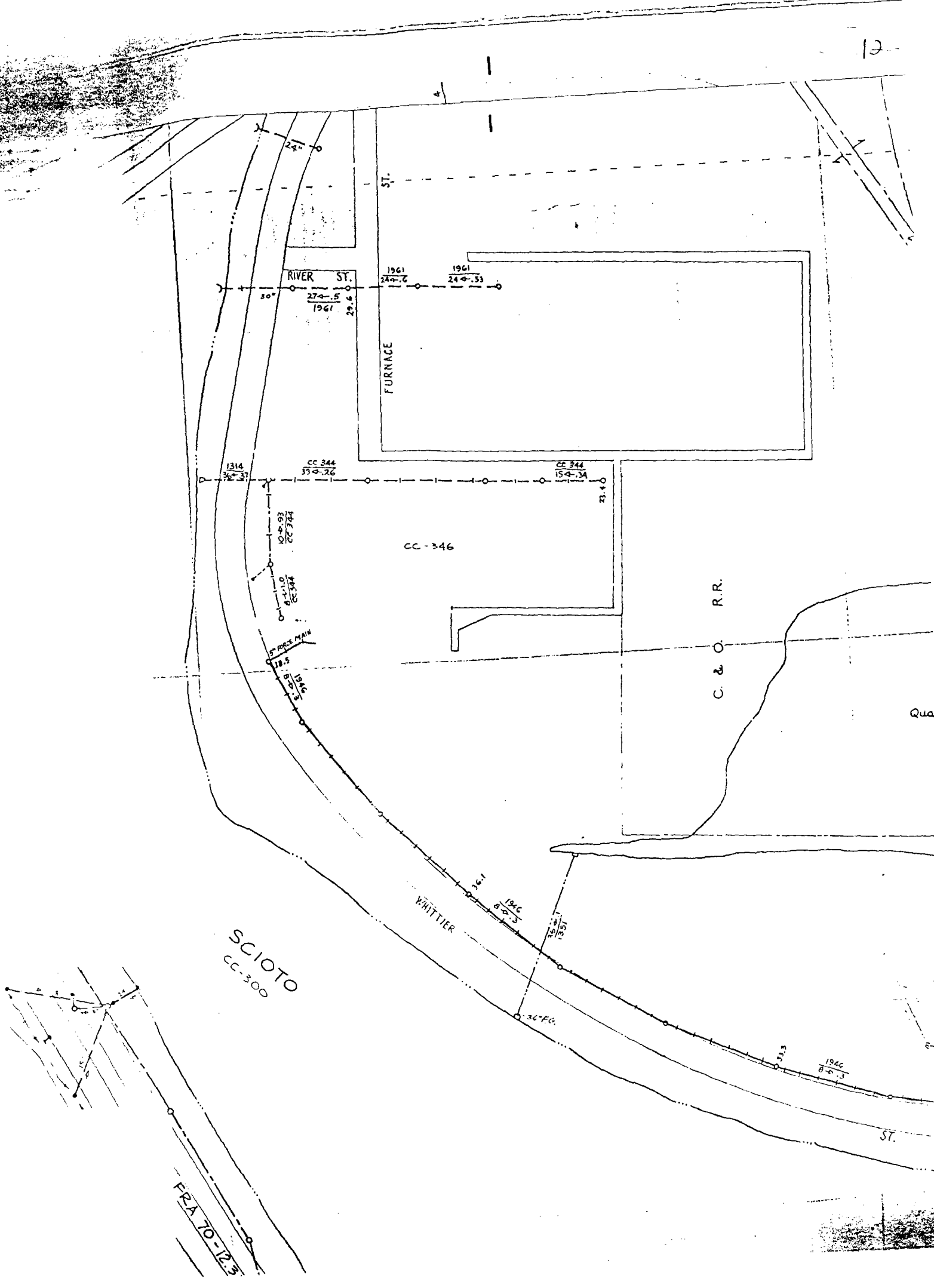
CITY OF COLUMBUS, OHIO
DEPARTMENT OF PUBLIC SERVICE
DIVISION OF ENGINEERING AND CONSTRUCTION

SCALE
1 INCH = 200'

DR. TR. | SHEET | FILE NO. AA-D.0



THIS MAP IS 64% REDUCTION OF ORIGINAL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FURNACE
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CC-346
C. & O. R.R.
WHITTIER
ST.
SCIOTO
CC-300
FRA 70-12.3

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

APPROXIMATE SCALE

1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
COLUMBUS,
OHIO
FRANKLIN AND FAIRFIELD
COUNTIES

PANEL 15 OF 105
(SEE MAP INDEX FOR PANELS NOT PRINTED)

RECEIVED
NOV 07 1991
Ohio Environmental Protection Agency
CENTRAL DISTRICT OFFICE

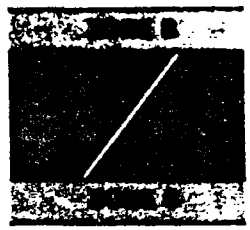
COMMUNITY-PANEL NUMBER
390170 0015 B

EFFECTIVE DATE:
JULY 5, 1983

KEY TO MAP

13

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
100-Year Flood Boundary
500-Year Flood Boundary



Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation in Feet Where Uniform Within Zone** — (EL 987)

Elevation Reference Mark — RM7×

Zone D Boundary

River Mile — •M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

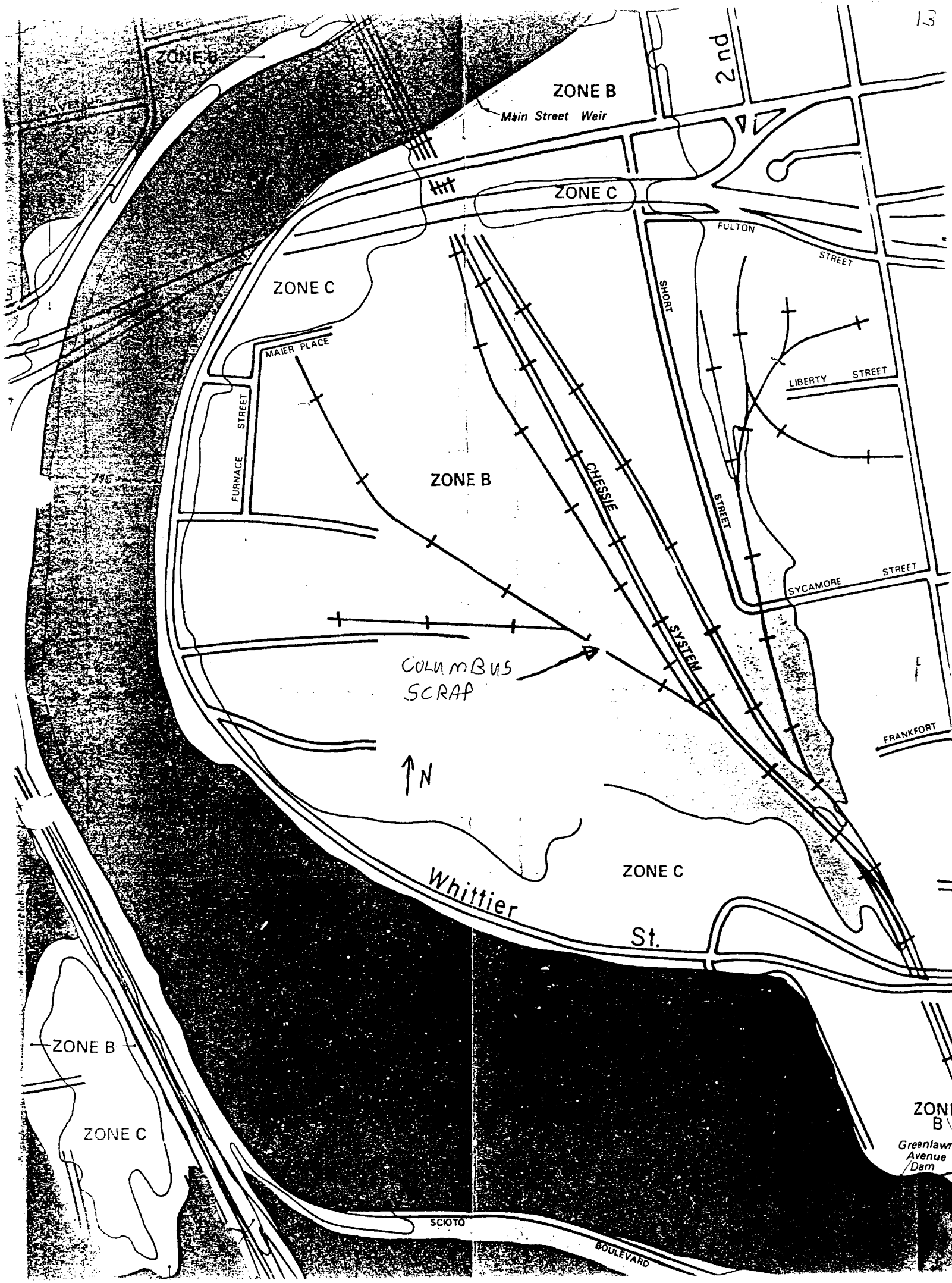
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
AUGUST 9, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
FEBRUARY 3, 1978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2nd
ZONE C
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ZONE C
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STREET
MAIER PLACE
LIBERTY STREET
FURNACE STREET
ZONE B
CHESSIE
SYSTEM
SYCAMORE STREET
COLUMBUS
SCRAP
FRANKFORT
N
ZONE C
Whittier
St.
ZONE B
ZONE C
Greenlawn
Avenue
/Dam
SCIOTO
BOULEVARD

OHIO VIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

WITH GARY REYNOLDS (VICE-PRES.) DATE 8-29-91

REPRESENTING COLUMBUS SCRAP TIME 3:50 p.m.

PERMIT NO. PHONE (614) 228 1603

OEPA STAFF JEFF REYNOLDS

SUBJECT COLS. SCRAP - 580 FURNACE ST., COLS.

PA QUESTIONS/OWNERSHIP

NOTES & SUMMARY: FOLLOW-UP DATE

GARY REYNOLDS SAID THEY'VE BEEN WORKING WITH THE USEPA. THREE WEEKS AGO STEVE RENNINGER HAD BEEN THERE SAMPLING AND THEY WERE BACK AGAIN YESTERDAY. HE CONFIRMED THE FOLLOWING SCRAP COMPANY OWNERSHIP (I GOT EARLIER FROM SHERYL GARRETT OF COLS. SCRAP):

50% COHEN BROS.
CONTACT: KEN COHEN
P.O. BOX 957
MIDDLETOWN, OH 45044
(513) 422-3696,

50% JOSEPHS (MUSKINGUM IRON & METAL)
CONTACT: JACK JOSEPH
P.O. BOX 2726
ZANESVILLE, OH 43702
(614) 452-9351

COLUMBUS SCRAP PURCHASED OPERATION (PROPERTY OWNED BY CSX) IN 1985.
FROM SUMMER AND COMPANY 1981-1985.
HANDLER'S AND COMPANY - STARTED IN 1940's?

Signature [signature]

OEPA-INDWW-3

OHIO ENVIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

WITH MARK MURPHY DATE 12/4/91

REPRESENTING CSX TIME 9:30 a.m.

PERMIT NO. PHONE (904) 359-1651

OEPA STAFF JEFF REYNOLDS

SUBJECT COLUMBUS SCRAP / PA QUESTIONS (I CALLED HIM)

NOTES & SUMMARY: FOLLOW-UP DATE

LIME PILES - PARTLY ON THIS PROPERTY. PERHAPS ASSOCIATED WITH CONCRETE OR MAYBE SCALE FROM TRAIN STEAM BOILERS - BUT QUANTITY PROBABLY TOO HUGE FOR SCALE. HE'S NOT SURE ABOUT THE DRUMS - MAYBE ASSOCIATED W/ SCRAP OPERATIONS. HE THINKS HANDLER STARTED AROUND 1941 - MAYBE BEFORE. HE SAID I'LL HAVE TO PUT REQUEST FOR DEED / LEASE IN WRITING. HE SAID CLEANUP IS BASICALLY A 50/50 SPLIT OF COSTS BUT CSX HASN'T RECEIVED PAYMENT FROM COLS. SCRAP YET. COLS. SCRAP DID INITIAL REMOVAL OF PCB WASTES AND PAID FOR IT. HIS ADDRESS IS
CSX ENVIRONMENTAL
500 WATER ST.
JACKSONVILLE, FL 32202

Signature Jeff W. Reynolds

OEPA-INDWW-3

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4. Carney, F. J... Unpublish... logical Su...
5. Shaffer, P. F... quadrangl...
6. Leverett, Fr... features o... Mon. 41.
7. Campbell, L... Erie and H... State Univ...
8. Forsyth, J. L... of Geologic...
9. White, G. W... resources ... Bull. 26, p...
10. White, G. W...
11. White G. W... Summit C...
12. White, G. W... 1921, Geol... 24).
13. White, G. W... Survey Bul...
14. White, G. W... the reentr... central Oh...
15. Gregory, J. ... County, Oh...
16. Goldthwait, R...
17. Forsyth, J. L... Counties, ...
18. White, G. W... Jour. Geolo...

GLACIAL MAP OF OHIO

By

Richard P. Goldthwait, George W. White, and Jane L. Forsyth

SCALE 1: 500 000

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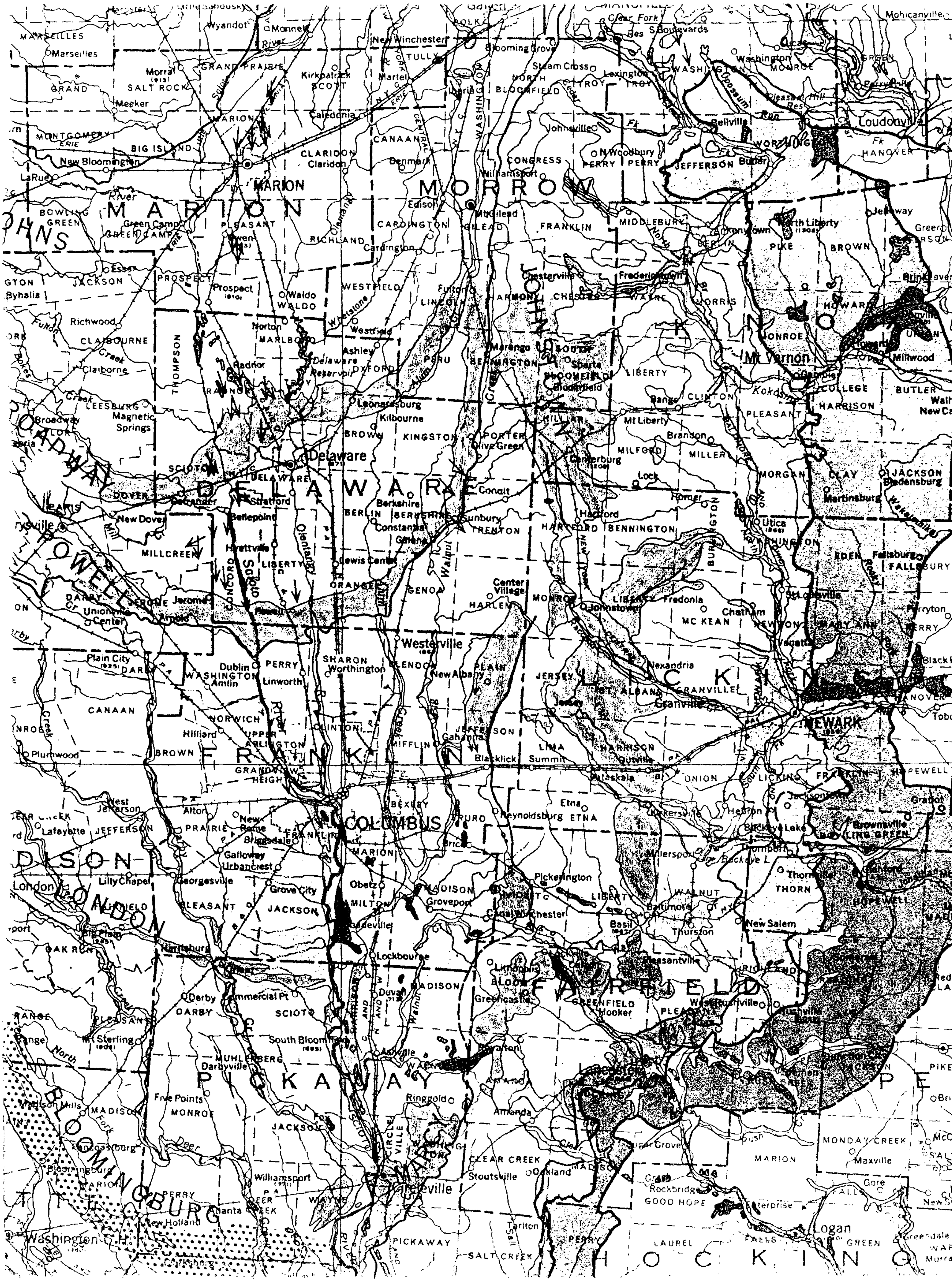
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Columbus
Newark
Lancaster
Circleville
Logan
Washington C.H.
Marseilles
Wyandot
New Winchester
Blooming Grove
Steam Corners
Lexington
Bellville
Loudonville
Morral
Kirkpatrick
Martel
Iberia
Caledonia
Claridon
Denmark
Johnsville
N Woodbury
Butler
New Bloomington
LaRue
Green Camp
Edison
Mt Gilead
Cardington
Chesterville
Fredericktown
Jelloway
North Liberty
Prospect
Waldo
Richwood
Fulton
Westfield
Norton
Ashley
Claiborne
Radnor
Sparta
Marengo
Centerburg
Mt Liberty
Brandon
Gambier
Leonardsburg
Kilbourne
Olive Green
Magnetic Springs
Broadway
Ostrander
Stratford
Bellepoint
Berkshire
Constantia
Galena
Sunbury
Condit
Hartford
Homer
Utica
Martinsburg
Bladensburg
New Dover
Hyattville
Lewis Center
Jerome
Center Village
Johnstown
Fredonia
Chatham
St Louisville
Alexandria
Granville
Westerville
Plain City
Dublin
Worthington
New Albany
Amlin
Linworth
Hilliard
Gahanna
Blacklick
Summit
Outville
Kirkersville
Hebron
Jacksontown
Brownsville
Buckeye Lake
Thornport
Thornville
Etna
Reynoldsburg
Pataskala
Millersport
West Jefferson
Lafayette
Alton
New Rome
Briggsdale
Galloway
Urbancrest
Georgesville
Lilly Chapel
London
Grove City
Obetz
Groveport
Canal Winchester
Pickerington
Baltimore
Basil
Thurston
New Salem
Lockbourne
Harrisburg
Orient
Pleasantville
Lithopolis
Greencastle
West Rushville
Hooker
Rushville
Derby
Commercial Pt
Duvall
Mt Sterling
South Bloomfield
Ashville
Darbyville
Five Points
Ringgold
Amanda
Williamsport
Stoutsville
Oakland
Sugar Grove
Rockbridge
Enterprise
New Holland
Atlanta
Tarlton
Bloomingburg
Madison Mills
Frankfort
Maxville
Gore

EXPLANATION

Features smaller than half a mile in maximum dimension shown in only a few places

Recent

Alluvium

Poorly sorted, poorly bedded silt and sand, generally less than 25 feet thick; individual layers are thin, lenticular, and nearly horizontal. Includes all detrital material deposited in valleys or undrained depressions since retreat of last glacier. In small undrained depressions such as kettle holes, consists of muck or peat. Commonly rests on sand and gravel outwash in larger valleys and on till in smaller valleys. May contain buried vegetation not more than 6,000 years old

Wisconsin

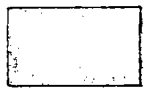
WATER-LAID DEPOSITS

Outwash

Composed of well-sorted sand and gravel, horizontally layered, commonly crossbedded. Smooth surfaces slope 5 to 50 feet per mile away from the glacier. Occurs as broadly spread "outwash plains" or restricted "valley trains," commonly preserved as terraces owing to postglacial erosion. Locally near the former ice margin includes kettle holes. Not shown more than a short distance south of the glacial boundary. Deposited by aggrading streams of melt water pouring from glacier. May have silt capping 0 to 2 feet thick and locally, on higher terraces, 5 feet thick

Kames and eskers

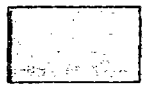
High, steep hummocks (kames) and long, sinuous ridges (eskers) composed almost entirely of bedded sand and gravel 10 to 200 feet or more thick. Materials range from coarse cobbles to fine sand. Formed in channels, tubes, or pits in the wasting glacier. Crossbedding and channel structures are common. Beds may dip 20° in any direction; dips steeper than this are usually associated with large boulders or embedded masses of till. Belts of kames (kame moraine) occur locally, chiefly in the Akron-Canton area. Locally a thin till cover indicates a subsequent readvance of the ice



Lacustrine (lake) deposits

Silt and clay, commonly laminated, in places covered by marl and peat. Range from 5 to 50 feet in thickness and commonly are underlain by till. Deposited in temporary lakes (including those in the Lake Erie basin) dammed to the north by retreating ice and to the south by bedrock "highs" or end moraines

ICE-LAID DEPOSITS



Ground moraine

Smooth-surfaced deposit of till ("hardpan") forming relatively flat land, except where it thinly caps broad, rolling hills near the glacial margin. Bedrock commonly is exposed in these marginal hills and in isolated localities elsewhere. Composed of an unsorted, unstratified mixture of clay, silt, sand, and coarser fragments deposited discontinuously by ice advancing over smoothed bedrock and older glacial deposits. Richer in clay in northern Ohio and in sand in southern Ohio. Till averages 50 feet in thickness in western Ohio and less than 25 feet in eastern Ohio; locally thickness may exceed 400 feet. May include several layers of till indicating successive ice advances; youngest till ranges in age from more than 24,000 years in northern Ohio to less than 18,000 years in southern Ohio. Leached of carbonates to depths of 1½ to 4 feet (locally 6 feet); in southern Ohio may be capped by 1 to 3 feet of silt (loess)

End moraine

Belts of sharply rolling or hummocky land, generally higher than adjoining land surface. Composed of till, an unsorted, unstratified mixture of clay, silt, sand, and coarser fragments, generally more than 100 feet thick, which may contain lenses or masses of stratified sand and gravel. Boulders and undrained depressions are common. End moraine was deposited along the roughly continuous edge of the glacier, mostly by sloughing off of till, and marks the position of the ice sheet during a halt or minor readvance

QUATERNARY

WATER-LAID DEPOSITS

the ice sheet during a halt or minor readvance

QUATE

41°

Pleistocene

Illinoian

WATER-LAID DEPOSITS

Outwash

Smooth-surfaced deposit of horizontally bedded sand and gravel, locally cemented, with a silt (loess) cap 2 to 10 feet thick. Soil developed on these deposits is yellow to red, clay rich, and leached of carbonates to depths of 8 to 15 feet. Outwash filled valleys and, where undissected by present streams, forms high, smooth, nearly flat surfaces; where dissected, outwash forms terrace remnants and rolling hills. Outwash was deposited by aggrading streams of melt water; a few filled kettle holes are faintly discernible. May include outwash of more than one period of deposition

Kames

High hummocks of bedded, moderately well to poorly sorted deposits ranging from fine sand to coarse cobbles; commonly crossbedded, with dips in all directions. Thick zones of gravel cemented by calcium carbonate are common. Soils developed in these deposits are red to yellow and leached of carbonates to depths of 5 to 15 feet. Kames were deposited in depressions in the wasting glacier

ICE-LAID DEPOSITS

Ground moraine

Rolling, smooth-surfaced deposit of till, changing to discontinuous till or only occasional erratics on bedrock hills. Till is generally less than 30 feet thick and is capped by silt (loess) 0 to 6 feet thick. A heavy glei soil (gumbotil) has been developed on the till, which is leached of its carbonates to depths of 6 to 14 feet in central and eastern Ohio and 5 to 8 feet in southwestern Ohio. Surface is characterized by well-integrated drainage, lacking closed depressions. Deposited by early ice sheet advancing over smoothed bedrock and older glacial deposits

End moraine

Hummocks composed mostly of silty till but including large masses of deeply weathered gravel. Closed depressions are lacking and boulders are rare. Recognized only in the terminal position of the glacier; removed by erosion in some areas

Illinoian and (or) older

WATER-LAID DEPOSITS

Lacustrine (lake) deposits

Gray laminated silt and clay, generally calcareous, 35 to 65 feet thick. Locally overlie red noncalcareous laminated clay that rests on red clay-rich noncalcareous sand. Overlain by fine sand, silt (loess), and (or) colluvial material. In many places dissected by deep gullies. Deposited in lakes formed in valleys of north-flowing streams dammed by the advance of an early glacier. Extensive deposits in the Teays valley and tributaries are known as the Minford silt

Kansan(?)

ICE-LAID DEPOSITS

Ground moraine

Till, 5 to 20 feet thick, entirely leached of carbonates at almost every exposure. Deposited by an early glacier, identified as Kansan(?) because of extreme depth of leaching and degree of weathering of deposits

GLACIAL FEATURES

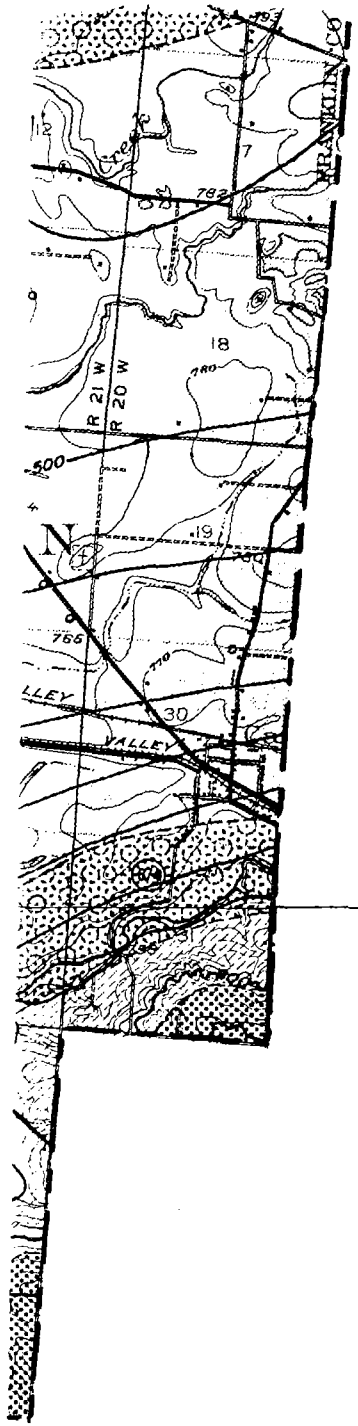
Contact

Line marking boundary of a mapped deposit within a stage boundary

40°

Substage boundary

Limit of a significant advance or readvance of the ice edge, dashed where approximately located; may lie in either end moraine or ground moraine. Substage boundaries are based on (1) minor changes in the surface soil profile, (2) persistent differences in texture and (or) color of till consistent with regional stratigraphy as revealed in nearby exposures, (3) persistent differences in average thickness of loess cover, and (4) differences in extent of postglacial modification of glacial topography. Each substage boundary is believed to represent the position of the ice edge at the culmination of a substage



Fine-grained sand and silt at various depths in deeply buried valleys. Material generally contains water but it cannot be recovered except with difficulty. Wells are usually developed in scattered sand and gravel lenses above or below this material, or in the underlying bedrock.

LOCATION OF BEDROCK DATA

o
Wells from which bedrock data were obtained

Δ ⚒
Exposure or quarry in consolidated rock

——500——
Contour on the bedrock surface

MAP ILLUSTRATING

THE GROUND-WATER RESOURCES OF FRANKLIN COUNTY, OHIO

AND THE APPROXIMATE CONTOURS ON THE BEDROCK SURFACE

BY JAMES J. SCHMIDT

ALTITUDE IN FEET ABOVE SEA LEVEL

BEDROCK CONTOUR INTERVAL 50 FEET

TOPOGRAPHY FROM THE U.S. GEOLOGICAL SURVEY TOPOGRAPHIC MAPS OF THE DUBLIN, EAST COLUMBUS, LONDON, MILFORD CENTER, WEST COLUMBUS, AND WESTERVILLE QUADRANGLES. CONTOUR INTERVAL 10 FEET.

SCALE IN MILES

0 1 2 3 4

PUBLISHED BY
STATE OF OHIO
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF WATER
1958

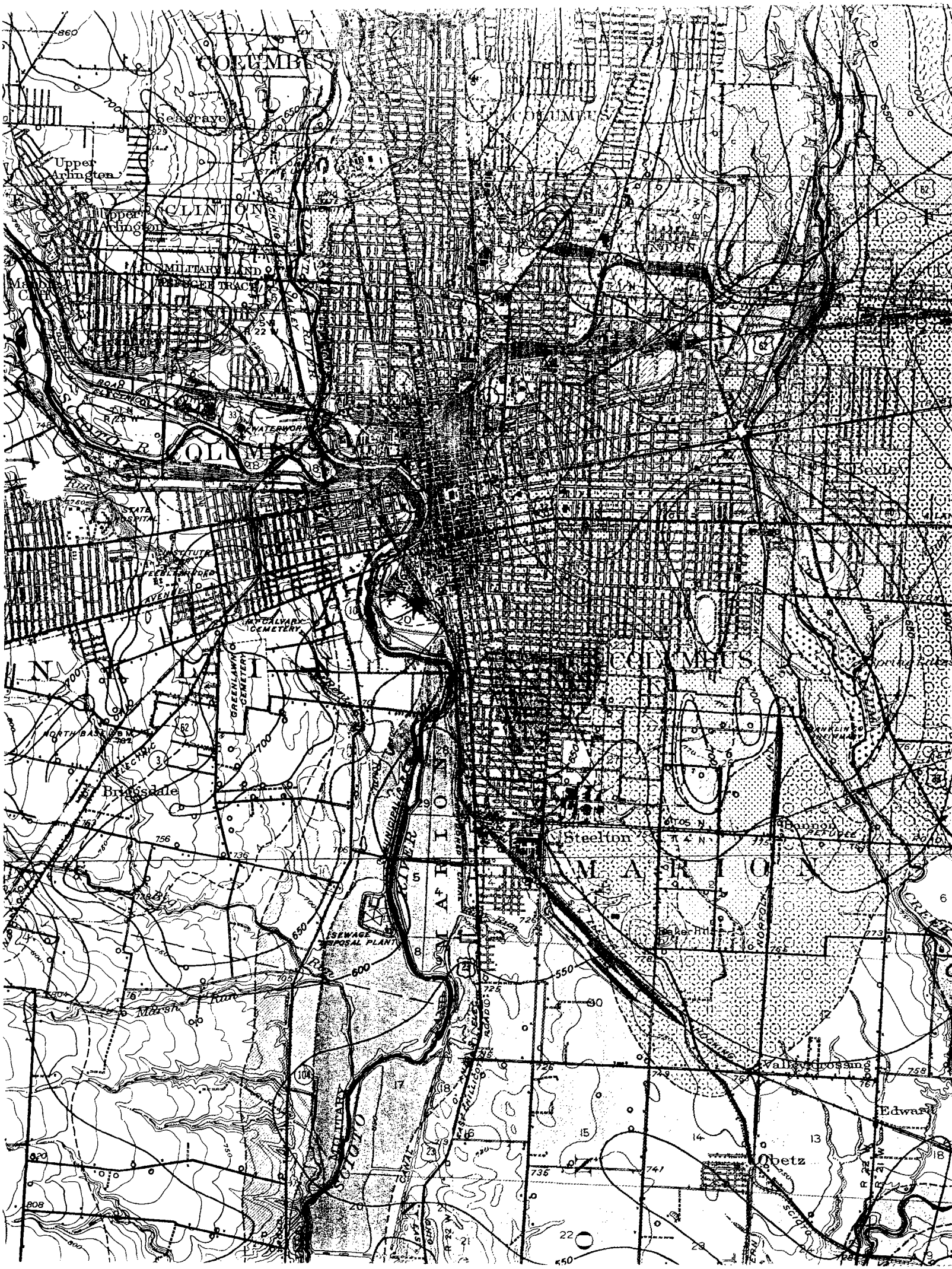
BULLETIN 30 PLATE I

39° 50'

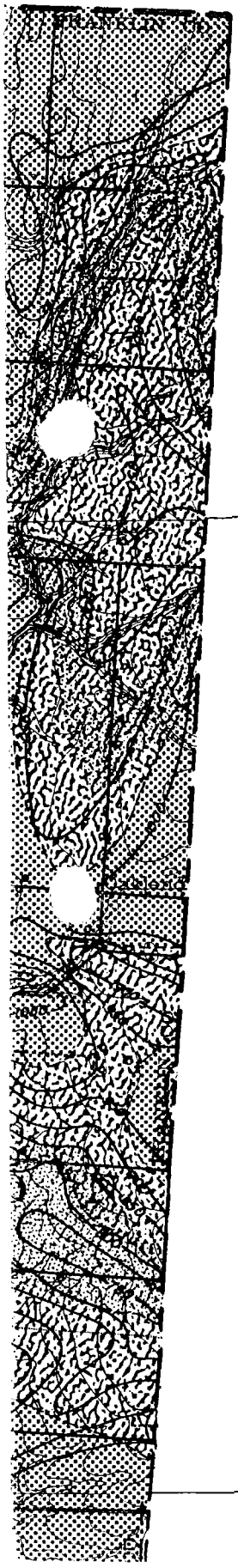
82°45'

82°40'

JK


COLUMBUS
Seagrave
Upper Arlington
CLINTON
US MILITARY LAND
REFUGEE TRACT
WATERWORKS
STATE HOSPITAL
INSTITUTE
FEEBLE MINDED
AVENUE
McCALVARY CEMETERY
GREENLAWN CEMETERY
NORTH BASE
Briggsdale
SEWAGE DISPOSAL PLANT
Marsh Run
MARION
Steelton
Bannon
Valley Crossing
Edward
Obetz
Bexley
SCIOTO RIVER
MILITARY
CANAL
HOCKING
NORFOLK
WESTERN
CREEK

82°45' 82°40'



EXPLANATION

AREAS IN WHICH THE PRINCIPAL SOURCES OF GROUND WATER ARE THE GLACIAL DEPOSITS

Best ground-water areas in Franklin County. Wells yield 1,000 gallons a minute or more from permeable sand and gravel deposits adjacent to the major perennial streams. Large sustained yields recharged by stream infiltration.

Regionally extensive permeable sand and gravel deposits not traversed by major streams. Yields of as much as 500 gallons a minute or more may be developed, although a test drilling program should be conducted to locate the coarser materials.

Shallow sand and gravel deposits traversed by a major stream. Yields of as much as 300 gallons a minute should be available from induced stream infiltration.

Interbedded sand and gravel deposits underlying thick till. Yields of as much as 200 gallons a minute may be obtained after extensive test drilling. Greater yields may be available during short periods of intermittent pumping. Yields of 350 gallons a minute have been reported.

40° 05'

Lenses of sand and gravel deposits interbedded in clayey till which overlies the shale bedrock. Yields of as much as 25 gallons a minute, sufficient for small industries, farm, and domestic supplies.

Irregular lenses of sand and gravel thinly scattered in thin to thick layers of glacial till which overlies impermeable Mississippian or Devonian shale. Yields of 5 to 10 gallons a minute, sufficient for farm and domestic use are available.

Thin glacial drift overlying impervious shale. Yields of as much as 5 gallons a minute from lenses of sand and gravel scattered irregularly throughout glacial drift. Yields of less than 2 gallons a minute may be expected where permeable materials are not encountered. Home owners commonly rely on dug wells and cisterns to supplement their supplies.

AREAS IN WHICH THE PRINCIPAL SOURCES OF GROUND WATER ARE THE DEVONIAN AND SILURIAN LIMESTONE AND DOLOMITE

Ground water obtained from Devonian and Silurian limestone and dolomite. Yields of as much as 175 gallons a minute may be expected from Devonian limestone. Cumulative yields up to 400 gallons a minute, may be obtained at greater depth, however, the degree of hardness, dissolved solids and sulphates increases. Hydrogen sulphide may or may not be present at depth.

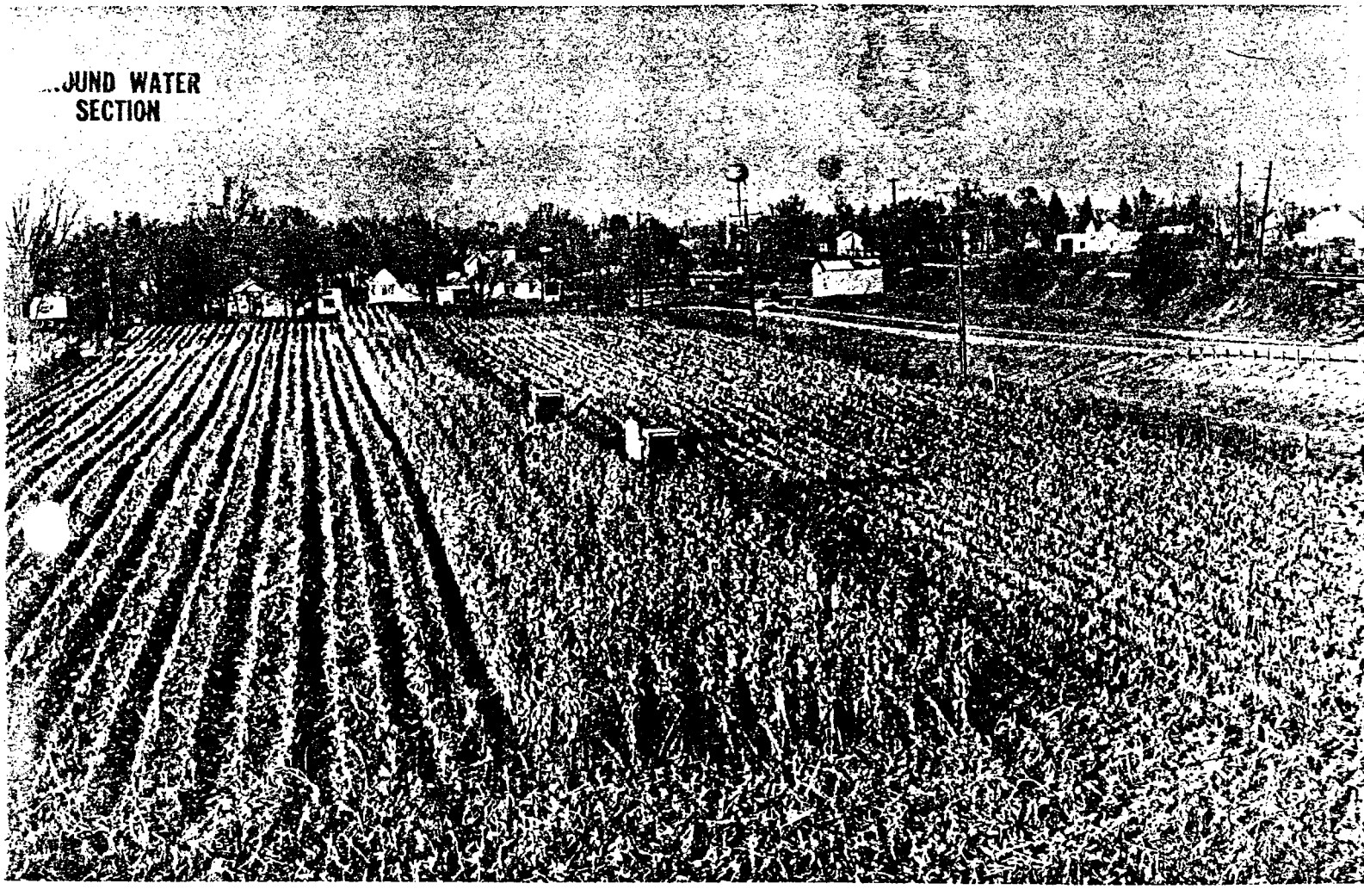
Ground water obtained from permeable sand and gravel traversed by major streams. Depending upon the exact location, yields of as much as 250 gallons a minute or more may be expected. Cumulative yields of as much as 400 gallons a minute may be expected from wells developed in both sand and gravel deposits and the underlying limestone.

40° 00'

DGW
23

OIL SURVEY
OF
FRANKLIN COUNTY, OHIO

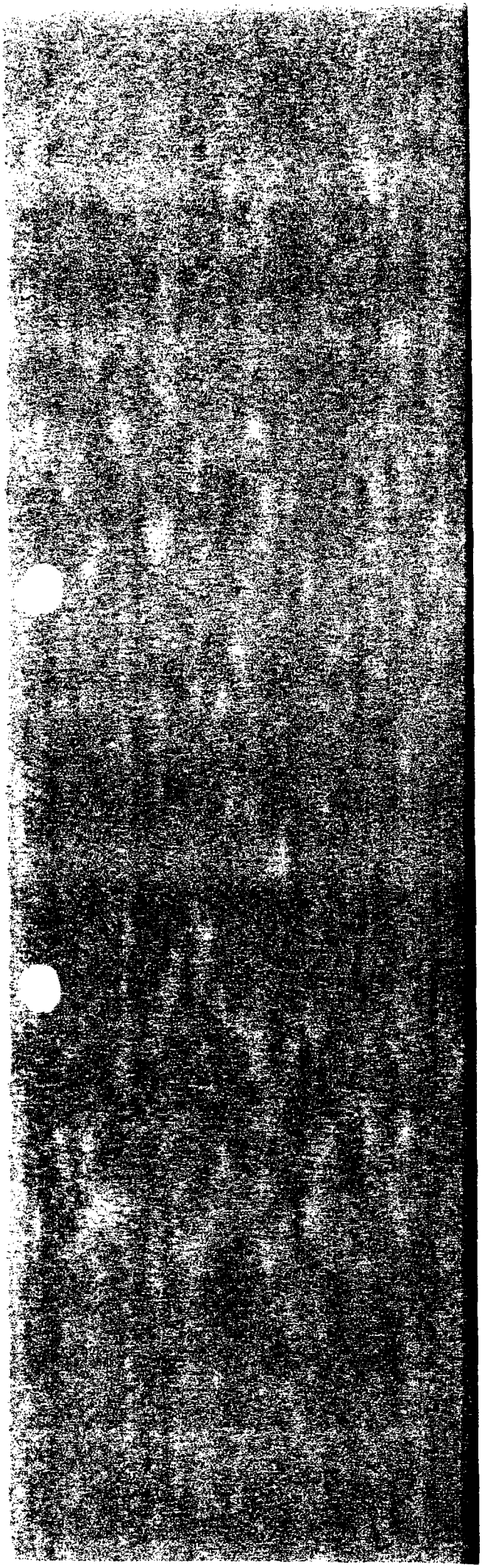
OHIO EPA
DWQMA



United States Department of Agriculture, Soil Conservation Service
in cooperation with
Ohio Department of Natural Resources, Division of Lands and Soil,
and Ohio Agricultural Research and Development Center

23

(Joins sheet 34)

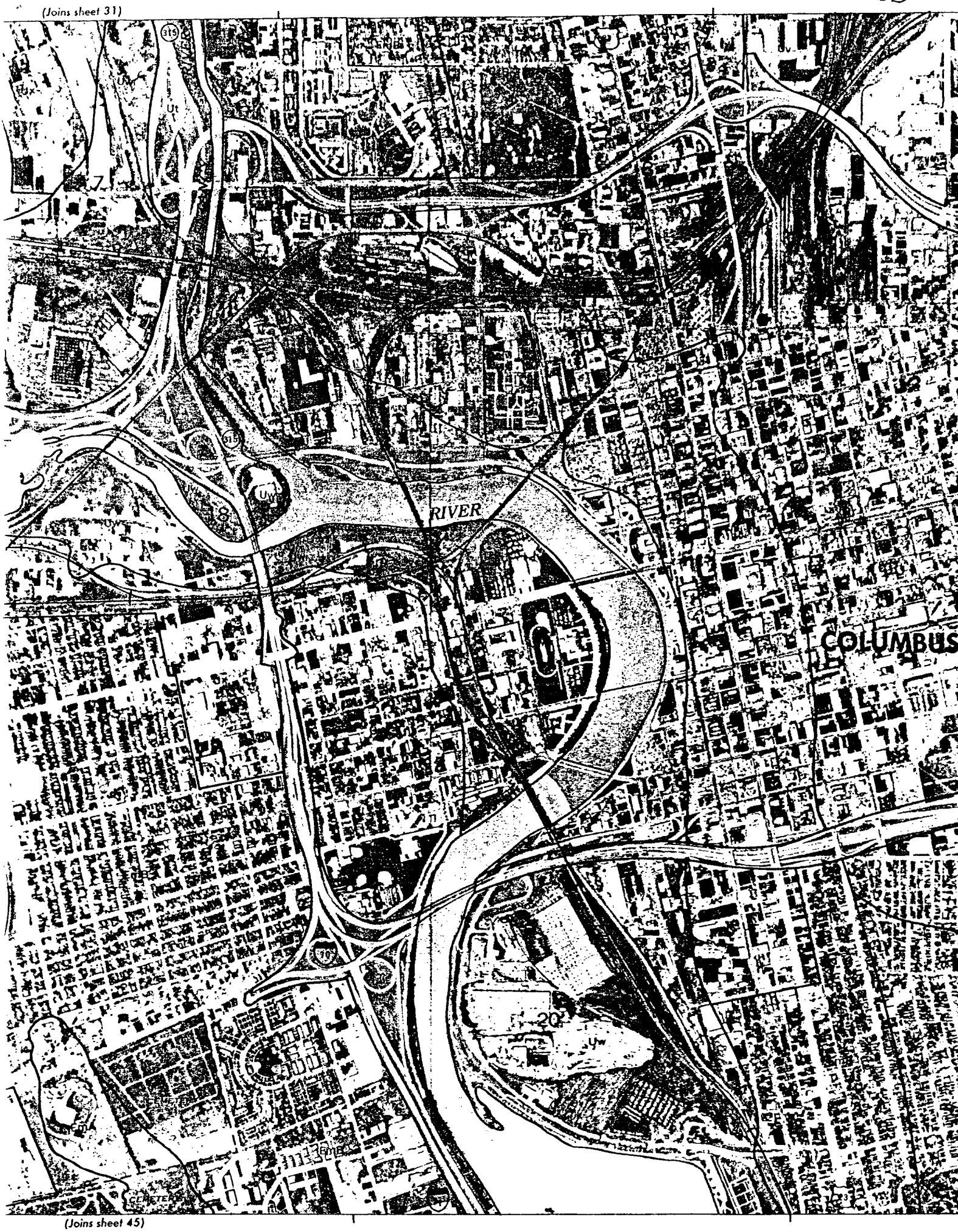


(Joins sheet 47)

Mh - Soils potentially containing wetlands, none positively identified

23

(Joins sheet 31)



(Joins sheet 45)

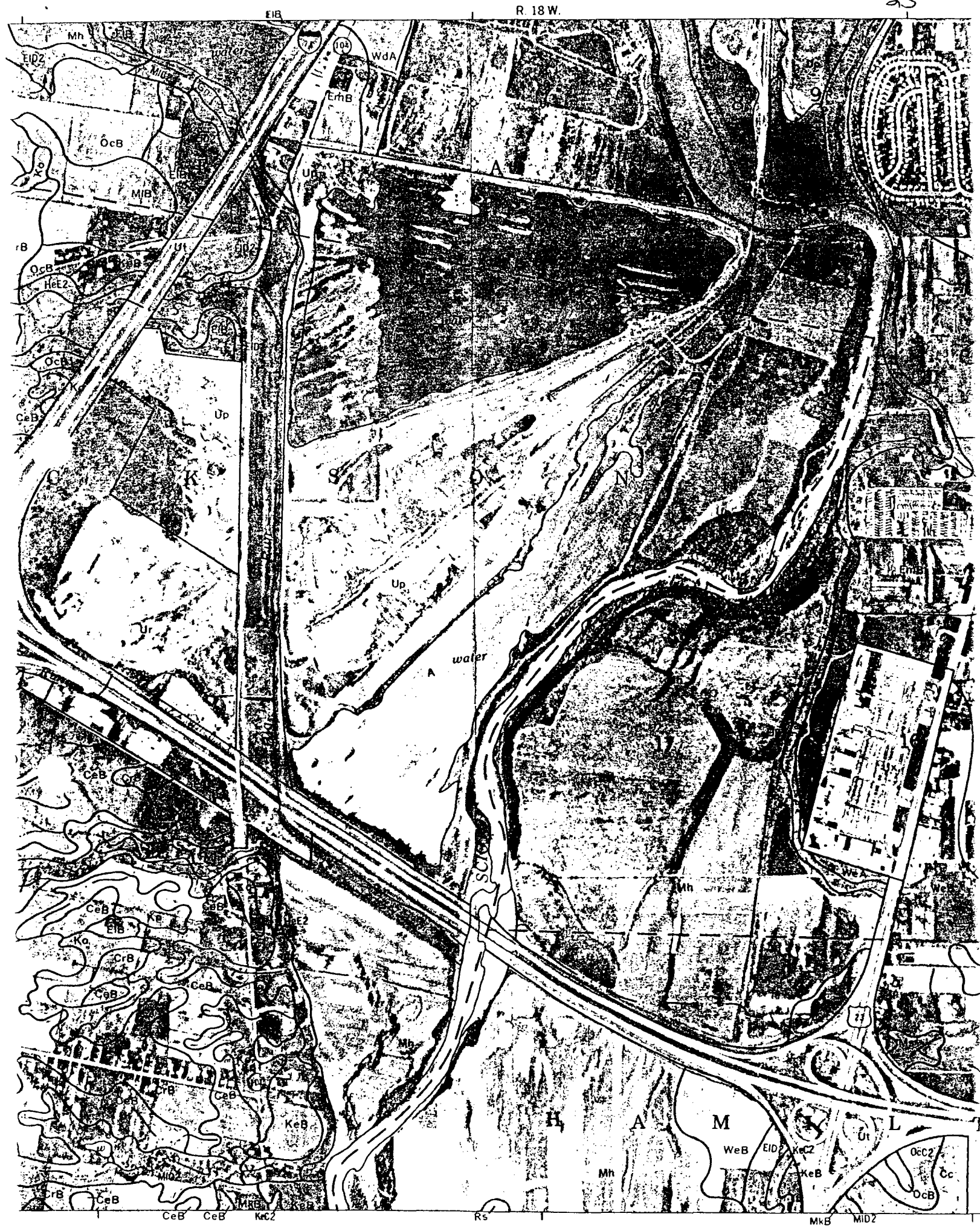
23

R. 22 W.

(Joins sheet 3

(Joins sheet 52

23


R. 18 W.
Mh
ElB
ElD2
water
WdA
EmB
OcB
MlB
Up
Ut
HeE2
CeB
Ur
water
A
CrB
KeB
Ko
Kp
MlD2
MkB
KeC2
Rs
WeB
OcC2
Cc
Mh
H A M I L

23

Mh, EIB, MkB, Ee - Soils Potentially Containing Wetlands - No Wetlands Definite

23

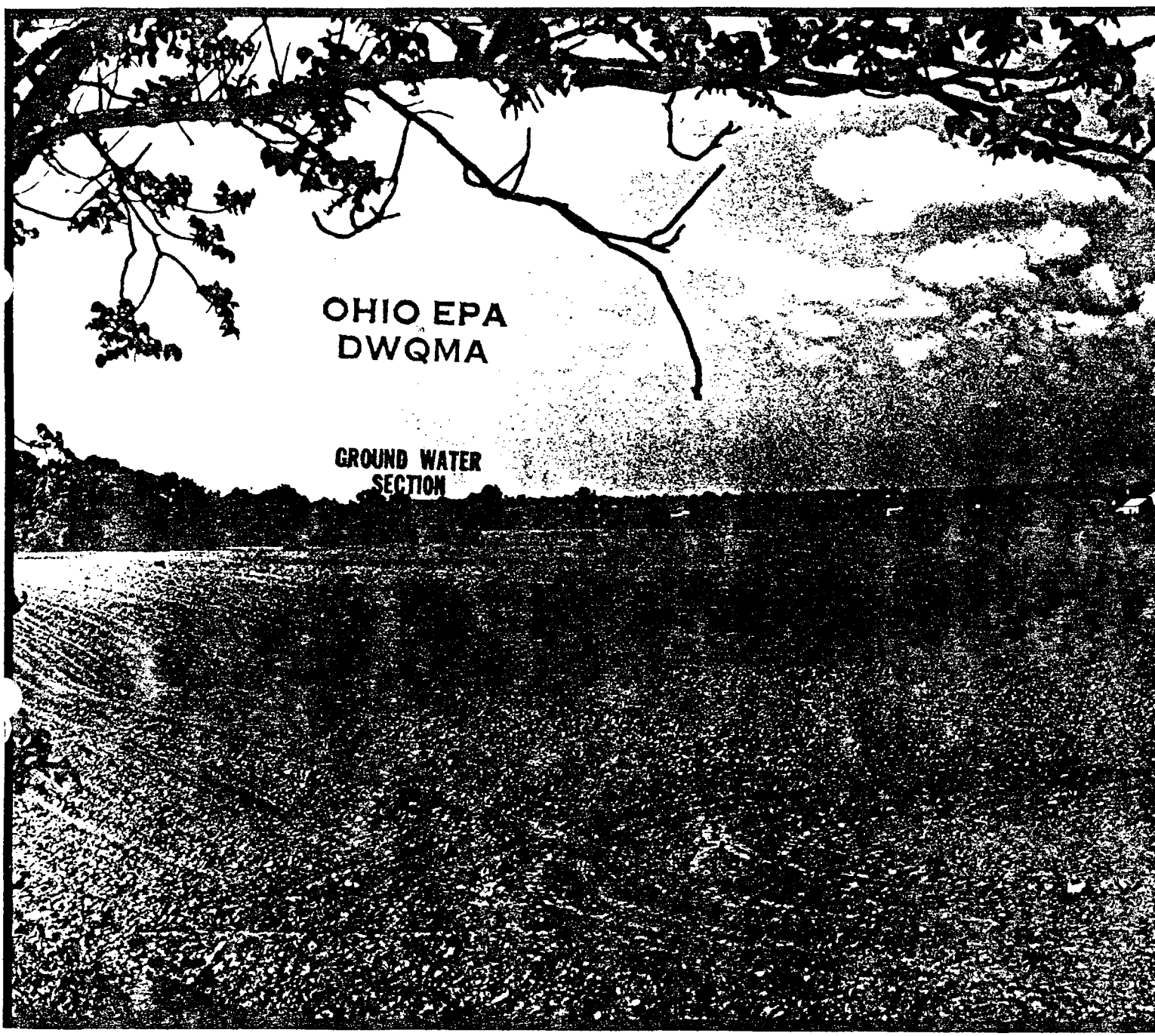
R. 22 W.
Shadeville
water
water
PICKAWAY
MkB
CrA
KeB
CrB
CeB2
MlC2
HeE2
OcB
OcC2
WdA
WdB
Gn
ThA
SlA
ElD2
ElB
ElC2
EmB
CeA
Ee

24

DG-6

SOIL SURVEY OF

PICKAWAY COUNTY, OHIO



United States Department of Agriculture,
Soil Conservation Service, in cooperation with
Ohio Department of Natural Resources,
Division of Lands and Soil, and
Ohio Agricultural Research and Development C

COUNTY, OHIO — SHEET NUMBER 4 PICKAWAY COUNTY

Fe - soils potentially containing wetlands, none definite

MEETING NOTES

With: Jim Nottingham, Supvr From: Div. Public Drinking Water

OEPA Staff: Jeff Reynolds Division: DERR

Date: 12/18/91 Time: 2:00 p.m.

Subject: Source of City of Columbus' Water

Jim said Columbus draws their water from three sources:

-Scioto River (Dublin Road Water Treatment Plant)

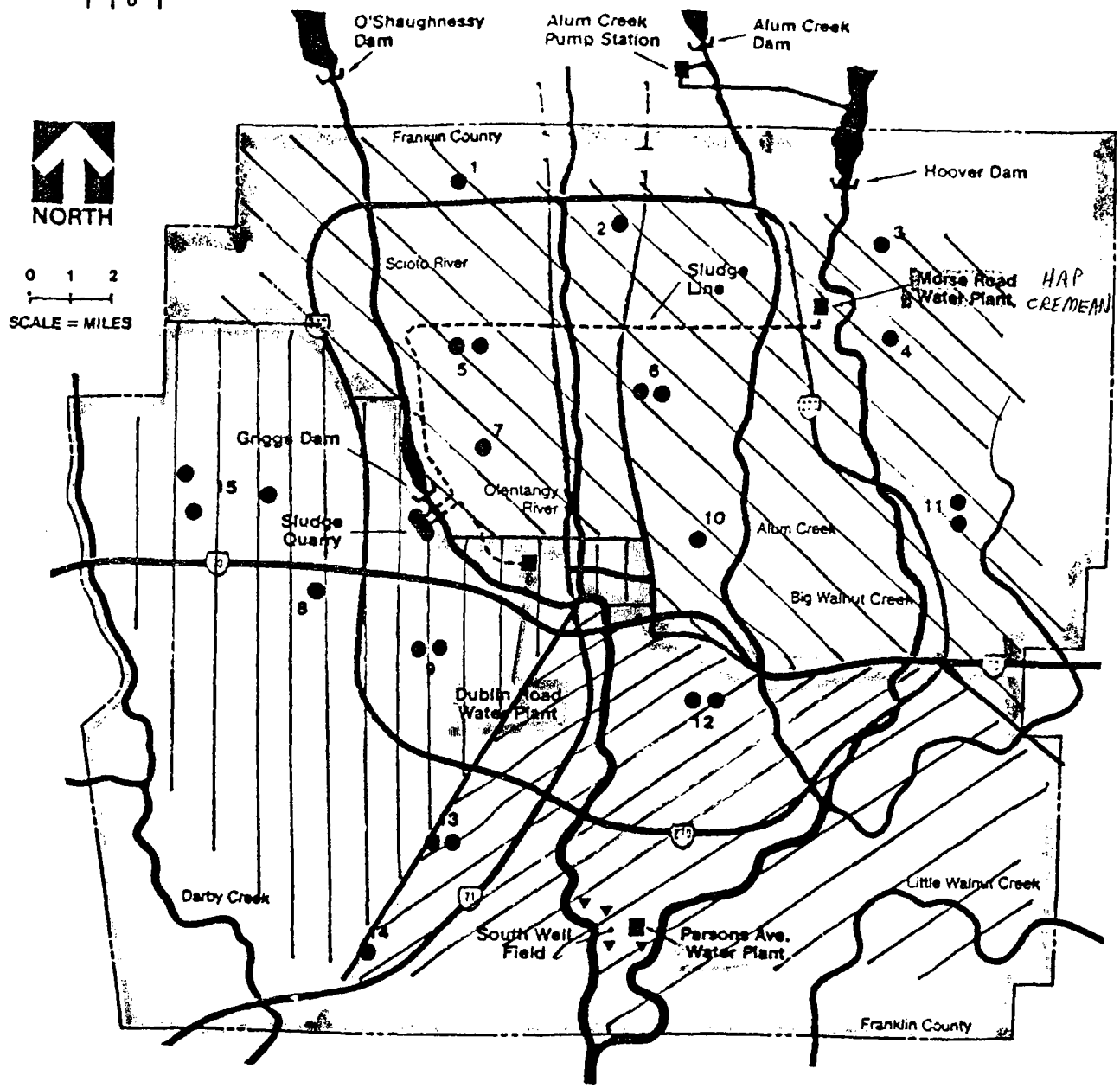
-Hoover Reservoir, on Big Walnut Creek (Hap Cremean - formerly Morse Road - Water Treatment Plant)

-Groundwater Wells (Parsons Avenue Water Treatment Plant)

These wells and their distribution areas are shown on the attached map.

Jim also said there are no public drinking water intakes from the Scioto River in the Central District (includes Franklin and Pickaway counties) south of Columbus.

Columbus Water System
1989

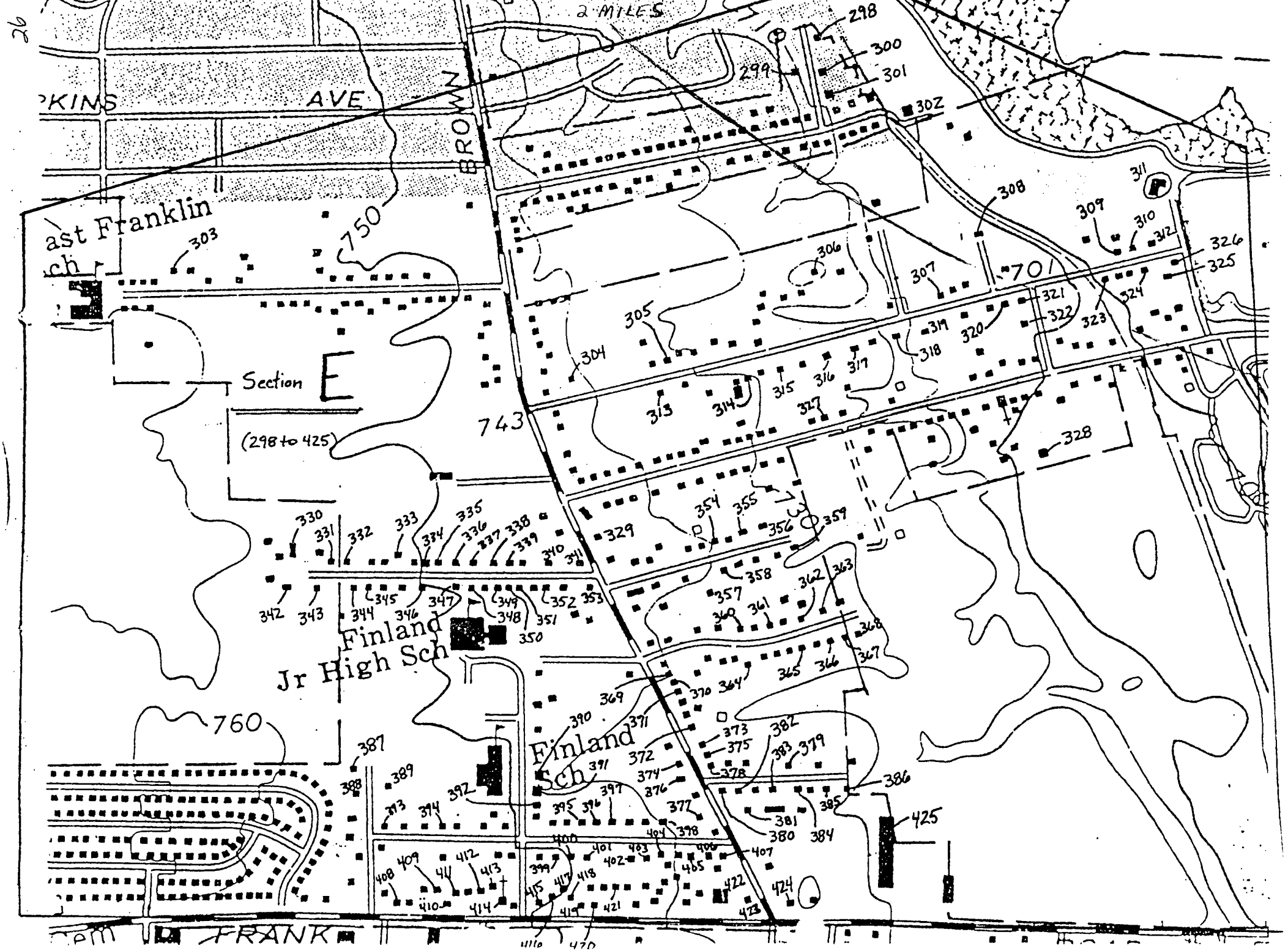


Storage Tanks ●

1. Smoky Row Rd.
2. Busch Blvd.
3. Ulry Rd.
4. Morse Rd.
5. Henderson Rd.
6. Karl Rd.
7. Arlington
8. Hilliard-Rome Rd.
9. Westgate Park
10. Joyce Ave.
11. East Broad St.
12. Fairwood Ave.
13. Urbancrest
14. Grove City
15. Hilliard (3)

RECEIVED
JUL 31 1989

FRANKLIN
FRANKLIN
Lindberg Sch
Hilltonia Jr High Sch
St Agnes Sch
West Mound St Sch
Police Sta
Fire Sta
S Franklin Sch
Briggsdale
Childrens Home
County Home
Drive-in Theater
Trailer Park
East Franklin Sch
Finland Jr High Sch
Finland Sch
Wilson Sch
Central Point Shopping Center
Haunts Park
Baseball Park
Mt Calvary Cem
GREENLAWN CEMETERY
Mausoleum
Trailer Park
Columbus Workhouse
Sewage Disposal
SOUTHVIEW PARK
INTERCHANGE 105
INTERCHANGE 108
BALTIMORE
COLUMBUS
CORP BDY
BROWN ROAD
COLUMBUS ROAD
FRANKLIN ROAD
HOPKINS AVE
LINNET AVE
JACKSON RD
STIMMEL
SPRINGMONT AVE
WHEATLAND AVE
HIGHLAND AVE
SULLIVANT AVE
WHITEHORNE AVE
COLUMBIAN AVE
SAFFORD AVE
S WAYNE AVE
S EUREKA ROAD
Scioto
26


2 MILES
KINS AVE
BROWN
ast Franklin
ch
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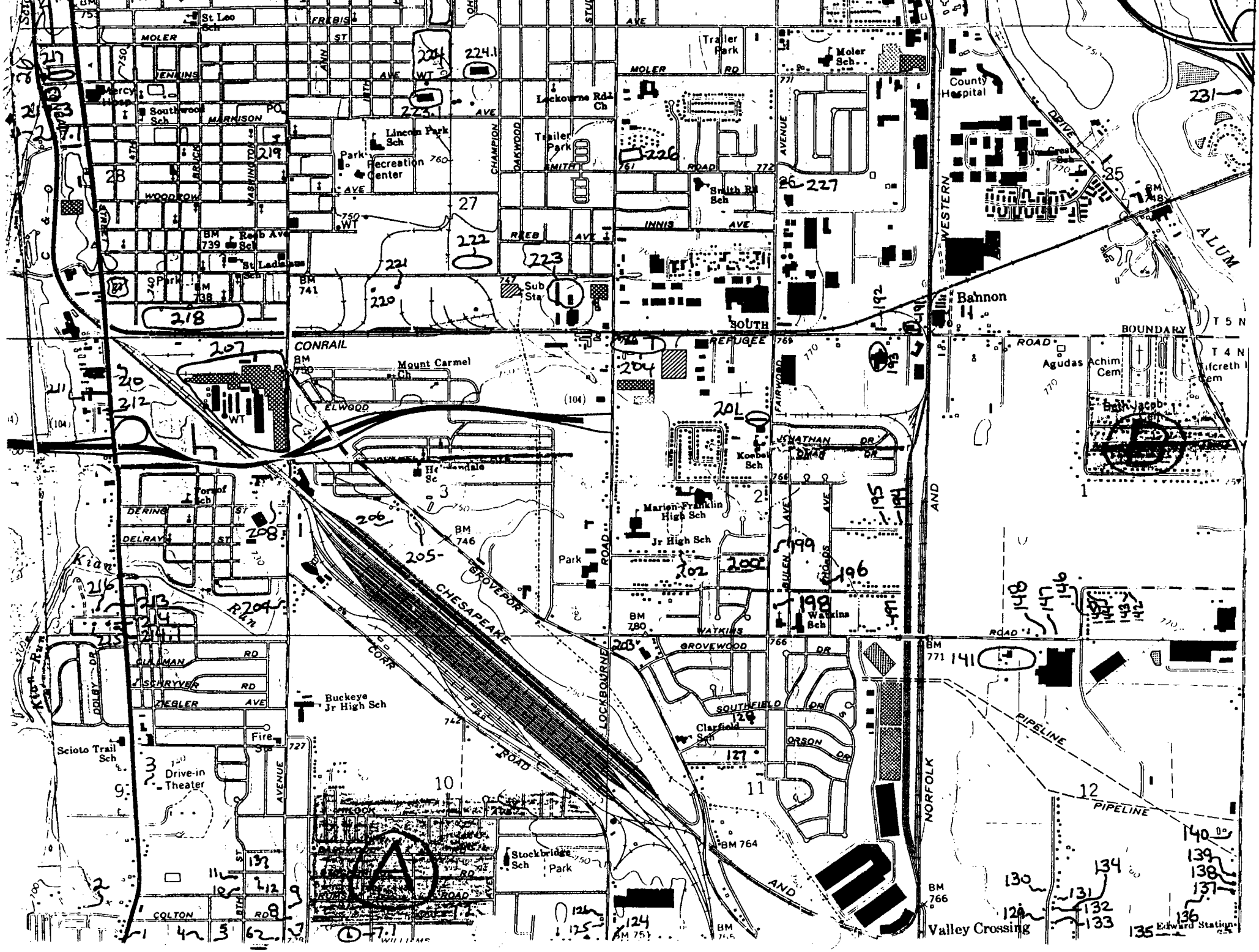
Section E
(298 to 425)
743
701
Finland
Jr High Sch
760
Finland
Sch
425
FRANK



St Leo Sch
MOLER
FREBIS
ST
AVE
JENKINS
MARKISON
Mercy Hosp
Southwood Sch
Lincoln Park Sch
Recreation Center
Park
WOODROW
Reeb Ave Sch
St Ladislaus Sch
Park
BM 739
BM 741
BM 738
Lockourne Rd Ch
Trailer Park
SMITH
ROAD
Smith Rd Sch
INNIS
REEB
Sub Sta
Trailer Park
Moler Sch
County Hospital
DRIVE
WESTERN
AVENUE
ALUM
Bannon
SOUTH
REFUGEE
BOUNDARY
T 5 N
T 4 N
CONRAIL
Mount Carmel Ch
ELWOOD
Agudas Achim Cem
Tifcreth Cem
Beth Jacob Cem
Koebel Sch
JONATHAN
OMAR
Marion-Franklin High Sch
Jr High Sch
Park
BM 746
BM 780
Watkins Sch
WATKINS
GROVEWOOD
DERING
DELRAY
Kian Run
CHESAPEAKE
GROVEPORT
CORR
ROAD
LOCKBOURNE
CULLMAN
SCHRYVER
ZIEGLER
Buckeye Jr High Sch
Fire Sta
Scioto Trail Sch
Drive-in Theater
AVENUE
SOUTHFIELD
Clarfield Sch
ORSON
NORFOLK
AND
PIPELINE
BM 771
BM 764
BM 766
Stockbridge Sch
Park
COLTON
Valley Crossing
Edward Station

OHIO ENVIRONMENTAL PROTECTION AGENCY

28

TELEPHONE MEMORANDUM

WITH GEORGE BRIDGES DATE 11/22/91

REPRESENTING OH. DATA USERS CENTER (OH. DEPT. OF DVLPMT.) TIME 11:05 a.m.

PERMIT NO. PHONE (614) 466-2115

OEPA STAFF JEFF REYNOLDS

SUBJECT FRANKLIN CO. CENSUS INFO.

NOTES & SUMMARY: FOLLOW-UP DATE

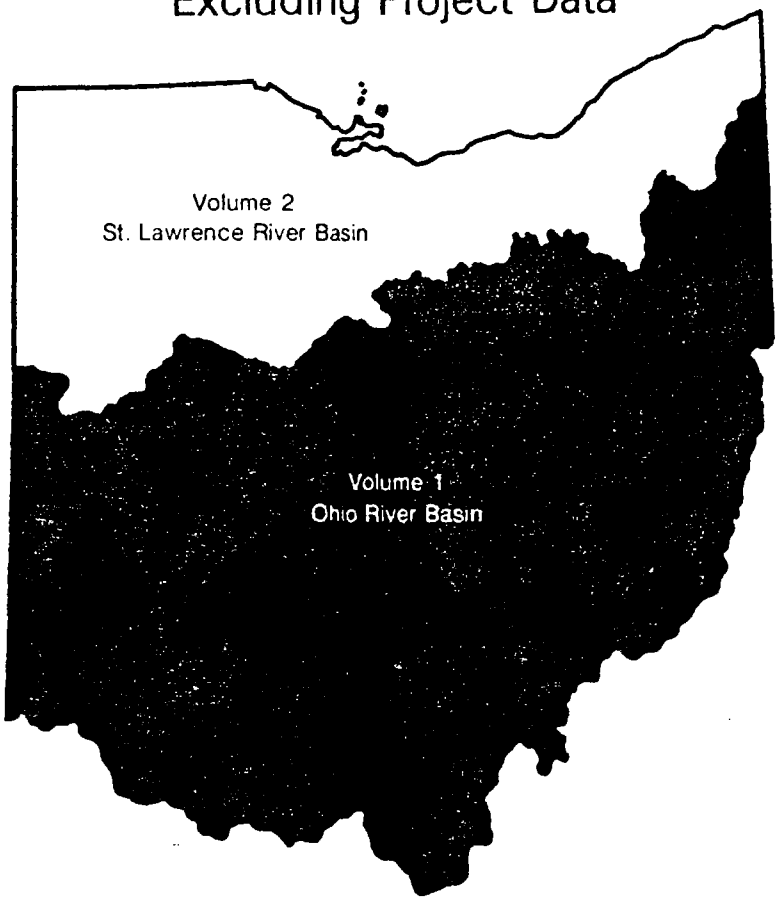
I ASKED HIM FOR THE AVERAGE NUMBER OF PEOPLE PER HOUSE IN FRANKLIN COUNTY (= 2.47) AND THE POPULATION DENSITY IN FRANKLIN COUNTY (= 1,780.4 PEOPLE/MILE^2).

Signature [illegible]

OEPA-INDWW-3

Water Resources Data
Ohio
Water Year 1990

Volume 1. Ohio River Basin
Excluding Project Data



U.S. GEOLOGICAL SURVEY WATER-DATA REPORT OH-90-2
Prepared in cooperation with the State of Ohio
and with other agencies

29

SCIOTO RIVER BASIN

03227500 SCIOTO RIVER AT COLUMBUS, OH

LOCATION.--Lat 39°54'34", long 83°00'33", Franklin County, Hydrologic Unit 05060001, on right bank at sewage-treatment plant of city of Columbus, 0.4 mi downstream from bridge on Frank Road, 2.8 mi upstream from Scioto Big Run, and 5 mi downstream from Olentangy River.

DRAINAGE AREA.--1,629 mi².

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 743: 1927(M). WSP 803: 1922-24, 1926-30, 1932-33. WSP 1908: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1924, nonrecording gage at site 200 ft upstream at same datum.

REMARKS.--Estimated daily discharges: Dec. 15-28 and Jan. 4-9, 13, 14. Records good except for estimated daily discharges, which are fair. Flow regulated by Griggs Reservoir 10.4 mi upstream (see station 03221500), O'Shaughnessy Reservoir 20.4 mi upstream (see station 03220500), and Delaware Lake 35 mi upstream from station. Records include sewage return flow from Frank Road Treatment Plant. Shadeville Treatment Plant flow enters downstream. Water supply for city of Columbus is obtained from Scioto River downstream from Griggs Dam and Big Walnut Creek downstream from Central College. For statement on diversions from Big Walnut Creek, see REMARKS for station 03229500. Water-quality data collected at this site 1965 to 1977. U.S. Army Corps of Engineers satellite telemeter at station.

AVERAGE DISCHARGE.--70 years, 1,405 ft³/s.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 68,200 ft³/s Jan. 22, 1959, gage height, 27.22 ft, from high-water mark in well, from rating curve extended above 46,000 ft³/s; minimum daily, 47 ft³/s Sept. 6, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 25, 1913 reached a stage of 25.9 ft, discharge, 138,000 ft³/s, estimated by Franklin County Conservancy District.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 25,500 ft³/s June 9, gage height, 21.67 ft; minimum daily, 120 ft³/s Oct. 15.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	243	349	2430	1360	1650	946	693	1790	354	1200	413
2	154	170	260	1910	3410	2150	3260	543	1780	345	1070	427
3	134	162	229	2130	7120	2090	3210	547	1740	448	807	345
4	127	158	216	1950	11300	1100	3060	1360	1360	426	956	311
5	122	144	221	2100	9760	1010	2160	3720	872	230	923	284
6	123	159	228	2400	7690	917	2080	4190	1240	325	508	176
7	123	170	277	2000	6730	1580	1160	3630	2040	246	870	313
8	123	298	243	1800	6130	1000	947	2280	4650	198	2060	295
9	123	294	229	1800	4570	1050	935	1790	17500	183	1430	1010
10	186	205	216	1810	3030	478	1730	1490	9540	214	891	682
11	199	179	218	1520	2360	983	3800	706	5360	1060	606	596
12	143	170	217	1390	2160	1030	5880	956	4120	6460	336	841
13	128	175	202	1200	2310	1330	5780	3530	4850	6880	334	761
14	126	187	189	1100	2460	1270	4750	6220	4950	10700	754	672
15	120	527	180	952	8500	1090	3710	7270	6440	8890	1080	729
16	124	2230	170	889	13300	1490	2350	9620	4630	5490	1390	290
17	269	2660	160	758	12200	985	1740	9840	2780	6790	1320	538
18	132	2080	160	462	10400	440	1500	7690	1210	7110	745	274
19	620	1600	150	428	9100	1110	821	4760	920	6330	656	863
20	358	1210	150	2110	7270	1250	1000	3880	1210	4830	821	551
21	219	881	140	3480	4790	937	1390	5330	473	3250	681	513
22	193	698	140	4090	3290	701	2710	3600	352	7660	1030	416
23	180	929	140	3750	2160	469	3710	3320	626	7000	867	876
24	173	693	130	3260	1890	575	2570	2870	576	5200	1620	1260
25	172	405	130	2430	1780	902	1760	1310	357	5610	2320	718
26	173	239	130	1700	1630	888	1550	2360	390	4860	1940	515
27	169	247	130	1540	1690	507	1010	2280	487	4660	874	499
28	171	286	130	1490	1690	319	876	4930	548	2120	398	268
29	163	288	239	1770	---	403	878	10100	395	1290	503	337
30	161	623	566	1630	---	631	958	3460	392	641	450	432
31	218	---	2080	1160	---	500	---	1630	---	767	329	---
TOTAL	5571	18310	8219	57439	150080	30835	68231	115905	83578	110567	29769	16205
MEAN	180	610	265	1853	5360	995	2274	3739	2786	3567	960	540
MAX	620	2660	2080	4090	13300	2150	5880	10100	17500	10700	2320	1260
MIN	120	144	130	428	1360	319	821	543	352	183	329	176

CAL YR 1989 TOTAL 554113 MEAN 1518 MAX 12600 MIN 120
WTR YR 1990 TOTAL 694709 MEAN 1903 MAX 17500 MIN 120

OHIO ENVIRONMENTAL PROTECTION AGENCY

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TELEPHONE MEMORANDUM

WITH STEVE GRAHAM / FISH MGMT. DATE 12/4/91

REPRESENTING OH DEPT. NATURAL RESOURCES TIME 2:55 p.m.

PERMIT NO. PHONE 481-6300

OEPA STAFF JEFF REYNOLDS

SUBJECT FISHING ON THE SCIOTO - NEAR DOWNTOWN

NOTES & SUMMARY: FOLLOW-UP DATE PICKED UP CREEL 12/5

STEVE SAID THERE IS FISHING EVERY WHERE DOWNTOWN. THERE ARE LOTS OF BASS IN THAT AREA. THEY DID A CREEL SURVEY ON THAT PORTION OF THE SCIOTO IN 1987 (INFO. ON # ANGLERS, USAGE, TYPES FISH).

Signature [illegible]

OEPA-INDWW-3

Dec. 03, 1991

Scioto River (02-001)

- Search for Fish Tissue Sites

AT Rm 129.1

1) F074-85 (Rm 129.1): 3/ white Bass; collected Sept. 19, 1985

collected by: Yoder

- PCB DATA entered

2) F075-85 (Rm 129.1): 2/ Lm Bass; collected Sept. 19, 1985

collected by: Yoder

- PCB DATA entered

3) F076-90 (Rm 129.1): Dst. Greenlawn Dam

5/ channel catfish; collected Sept. 25, 1990

~~pc~~ collected by: Yoder

- PCB DATA entered

4) F079-90 (Rm 129.1): Dst. Greenlawn Dam

comp.: 5/ sauger, 1/ saugeye

collected Sept. 25, 1990 collected by: Yoder

- PCB DATA entered

RECEIVED
DEC 06 1991
Ohio Environmental Protection Agency
CENTRAL DISTRICT OFFICE

RECEIVED FROM:
BERNIE COUNTS
OEPA - DWQPA

Oct. 02, 1991

Scioto River (02-001)

Search for Fish Tissue sites

between Rm 129.1 to 140.0

** 1) F019-90 (RM. 140.0): upst. Fishinger Rd.; at Griggs Res.
collected By: Boucher 5/LM Bass, collected 08/20/90
- PCB DATA entered.

2) F020-90 (RM. 140.0): upst. Fishinger Rd; at Griggs Res.
collected By: Smith 4/Carp, collected 08/08/90
- No PCB DATA entered

** 3) F030-90 (RM. 130.4): Greenlawn Dam pool
collected By: Boucher 5/LM Bass, collected 08/22/40
- PCB DATA entered

4) F040-80 (RM. unknown): N.W. Columbus
collected By: US EPA comp. of SM Bass and Hog sucker
- No PCB DATA entered

31

Rivcode 02001 RM 129.1 Sample ID F074-85

	Concentration (ug/kg)	Remark:
a-BHC	1.000	U
b-BHC	1.000	U
y-BHC	1.000	U
d-BHC	1.000	U
Heptachlor	1.000	U
Aldrin	1.000	U
Heptachlor Epoxide	1.000	U
Endosulfan I	1.000	U
4,4-DDE	2.000	U
Dieldrin	2.000	U
Endrin	2.000	U
Endosulfan II	2.000	U
4,4'-DDD	2.000	U
Endrin Aldehyde	2.000	U
Endosulfan Sulfate	2.000	U

	Concentration (ug/kg)	Remark:
4,4'-DDT	2.000	U
Methoxychlor	2.000	U
Mirex	5.0000	U
Hexachlorobenzene	.000	
Chlordane	340.000	
Toxaphene	10.000	U
PCB1016	30.00	U
PCB1221	30.00	U
PCB1232	30.00	U
PCB1242	30.00	U
PCB1248	210.00	
PCB1254	50.00	U
PCB1260	280.00	

Seek

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New

Comments

QUIT

%LIPID: .00

☐ PROOFED?

Rivcode 02001 RM 129.1 Sample ID: F075-85

	Concentration (ug/kg)	Remark:
a-BHC	1.000	U
b-BHC	1.000	U
y-BHC	1.000	U
d-BHC	1.000	U
Heptachlor	1.000	U
Aldrin	1.000	U
Heptachlor Epoxide	1.000	U
Endosulfan I	1.000	U
4,4-DDE	98.000	
Dieldrin	2.000	U
Endrin	2.000	U
Endosulfan II	2.000	U
4,4'-DDD	2.000	U
Endrin Aldehyde	2.000	U
Endosulfan Sulfate	2.000	U

	Concentration (ug/kg)	Remark:
4,4'-DDT	2.000	U
Methoxychlor	2.000	U
Mirex	5.0000	U
Hexachlorobenzene	.000	
Chlordane	870.000	
Toxaphene	10.000	U
PCB1016	30.00	U
PCB1221	30.00	U
PCB1232	30.00	U
PCB1242	30.00	U
PCB1248	740.00	
PCB1254	50.00	U
PCB1260	.00	U

%LIPID: .00

☐ PROOFED?

Seek

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Comments

QUIT

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31

Rivcode 02001 RM 129.1 Sample ID F076-90

	Concentration (ug/kg)	Remark:
a-BHC	2.000	U
b-BHC	2.000	U
y-BHC	2.000	U
d-BHC	2.000	U
Heptachlor	2.000	U
Aldrin	7.410	
Heptachlor Epoxide	37.260	
Endosulfan I	2.000	U
4,4-DDE	2.000	U
Dieldrin	72.700	
Endrin	2.000	U
Endosulfan II	2.000	U
4,4'-DDD	2.000	U
Endrin Aldehyde	2.000	U
Endosulfan Sulfate	10.090	

	Concentration (ug/kg)	Remark:
4,4'-DDT	8.900	
Methoxychlor	20.000	U
Mirex	2.0000	U
Hexachlorobenzene	2.000	U
Chlordane	1806.500	
Toxaphene	20.000	U
PCB1016	10.00	U
PCB1221	10.00	U
PCB1232	10.00	U
PCB1242	10.00	U
PCB1248	10.00	U
PCB1254	10.00	U
PCB1260	899.00	

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Comments

QUIT

%LIPID: 11.55

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Rivcode 02001 RM 129.1 Sample ID F079-90

	Concentration (ug/kg)	Remark:
a-BHC	1.000	U
b-BHC	1.000	U
y-BHC	1.000	U
d-BHC	1.000	U
Heptachlor	1.960	U
Aldrin	1.000	U
Heptachlor Epoxide	4.690	
Endosulfan I	1.000	U
4,4-DDE	10.000	U
Dieldrin	10.000	U
Endrin	1.000	U
Endosulfan II	1.000	U
4,4'-DDD	1.900	
Endrin Aldehyde	1.000	U
Endosulfan Sulfate	1.280	

	Concentration (ug/kg)	Remark:
4,4'-DDT	2.940	
Methoxychlor	10.000	U
Mirex	1.0000	U
Hexachlorobenzene	1.000	U
Chlordane	173.100	
Toxaphene	10.000	U
PCB1016	5.00	U
PCB1221	5.00	U
PCB1232	5.00	U
PCB1242	5.00	U
PCB1248	146.90	
PCB1254	5.00	U
PCB1260	104.70	

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%LIPID: .35

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31

Rivcode 02001 RM 130.4 Sample Id F030-90

	Concentration (ug/kg)	Remark:
a-BHC	2.000	U
b-BHC	2.000	U
y-BHC	2.000	U
d-BHC	2.000	U
Heptachlor	2.000	U
Aldrin	2.000	U
Heptachlor Epoxide	2.000	U
Endosulfan I	2.000	U
4,4-DDE	6.710	
Dieldrin	4.060	
Endrin	2.000	U
Endosulfan II	2.000	U
4,4'-DDD	2.000	U
Endrin Aldehyde	2.000	U
Endosulfan Sulfate	2.000	U

	Concentration (ug/kg)	Remark:
4,4'-DDT	2.000	U
Methoxychlor	2.000	U
Mirex	2.0000	U
Hexachlorobenzene	2.000	U
Chlordane	60.080	
Toxaphene	19.960	U
PCB1016	9.98	U
PCB1221	9.98	U
PCB1232	9.98	U
PCB1242	9.98	U
PCB1248	9.98	U
PCB1254	9.98	U
PCB1260	69.53	

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%LIPID: .10

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31

Rivcode 02001 RM 140.0 Sample ID F019-90

	Concentration (ug/kg)	Remark:
a-BHC	1.980	U
b-BHC	1.980	U
y-BHC	1.980	U
d-BHC	1.980	U
Heptachlor	1.980	U
Aldrin	1.980	U
Heptachlor Epoxide	1.980	U
Endosulfan I	1.980	U
4,4-DDE	4.300	
Dieldrin	11.190	
Endrin	1.980	U
Endosulfan II	1.980	U
4,4'-DDD	1.980	U
Endrin Aldehyde	1.980	U
Endosulfan Sulfate	1.980	U

	Concentration (ug/kg)	Remark:
4,4'-DDT	1.980	U
Methoxychlor	1.980	U
Mirex	2.0000	U
Hexachlorobenzene	1.980	U
Chlordane	27.750	
Toxaphene	19.770	U
PCB1016	9.89	U
PCB1221	9.89	U
PCB1232	9.89	U
PCB1242	9.89	U
PCB1248	9.89	U
PCB1254	9.89	U
PCB1260	10.91	

%LIPID: .44

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Seek

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Comments

QUIT

Stream Segment	Use Designations: Aquatic Life Habitat						Water Supply			Recreation		Comments
	State Resource Water	Warmwater	Exceptional Warmwater	Seasonal Salmonid	Coldwater	Nuisance Prevention	Public	Agricultural	Industrial	Bathing Waters	Primary Contact	Secondary Contact
. . . . .												
Scioto River - Frank Rd. to downstream from Bridge Street in Chillicothe (RM 127.7-70.7)		+						+	+		+	
- Dublin Rd. WTP dam to Frank Rd. (RM 133.4-127.7)	+	+						+	+		+	
- O'Shaughnessy dam to the Dublin Rd. WTP dam (RM 148.8-133.4)	+	+					+	+	+		+	
- all other segments		+						+	+		+	
Pond Creek		+						+	+		+	
Dry Run		+						+	+		+	
Wolf Run		+						+	+		+	
Carroll Run		+						+	+		+	
Sheep Pen Run		+						+	+		+	
Scioto Brush Creek			+					+	+		+	
Duck Run			+					+	+		+	
Sweeney Run			+					+	+		+	
McCullough Creek			+					+	+		+	
East Branch			+					+	+		+	
Bear Creek			+					+	+		+	
Saw Pit Run			+					+	+		+	
. . . . .												

Stream Segment	Aquatic Life Habitat: State Resource Water	Aquatic Life Habitat: Warmwater	Aquatic Life Habitat: Exceptional Warmwater	Aquatic Life Habitat: Seasonal Salmonid	Aquatic Life Habitat: Coldwater	Water Supply: Nuisance Prevention	Water Supply: Public	Water Supply: Agricultural	Water Supply: Industrial	Recreation: Bathing Waters	Recreation: Primary Contact	Recreation: Secondary Contact	Comments
. . . . .													
Scioto River - frank Rd. to downstream from Bridge Street in Chillicothe (RM 127.7-70.7)		•						•	•		•		
- Dublin Rd. WTP dam to Frank Rd. (RM 133.4-127.7)	•	•						•	•		•		
- O'Shaughnessy dam to the Dublin Rd. WTP dam (RM 148.8-133.4)	•	•					•	•	•		•		
- all other segments		•						•	•		•		
Pond Creek		•						•	•		•		
Dry Run		•						•	•		•		
Wolf Run		•						•	•		•		
Carroll Run		•						•	•		•		
Sheep Pen Run		•						•	•		•		
Scioto Brush Creek			•					•	•		•		
Duck Run			•					•	•		•		
Sweeney Run			•					•	•		•		
McCullough Creek			•					•	•		•		
East Branch			•					•	•		•		
Bear Creek			•					•	•		•		
Saw Pit Run			•					•	•		•		
. . . . .													

OHIO VIRONMENTAL PROTECTION AGENCY

TELEPHONE MEMORANDUM

WITH RICH CARTER DATE 11/27/91

REPRESENTING OEPA - DERR/PCB COMPLIANCE GROUP TIME 10:25 a.m.

PERMIT NO. PHONE 644-3065

OEPA STAFF JEFF REYNOLDS

SUBJECT PCBs IN SCIOTO RIVER / FISH TISSUE (I CALLED HIM)

NOTES & SUMMARY: FOLLOW-UP DATE

I EXPLAINED TO RICH THAT FISH TISSUE SAMPLES IN THE AREA OF FRANK ROAD SHOWED MUCH HIGHER PCB LEVELS THAN SAMPLES TEN MILES UPSTREAM AND ASKED IF HE KNEW ANY OTHER LIKELY SOURCES OF PCBs ALONG THAT STRETCH. HE SAID TRANSFORMERS IN VAULTS IN THE DOWNTOWN AREA MAY BE POSSIBLE - DRAINAGE MAY GO TO STORM SEWERS. OFFHAND HE DOESN'T KNOW OF ANY OTHERS AND DOESN'T KNOW HOW LIKELY THESE DOWNTOWN SOURCES ARE.

Signature

OEPA-INDWW-3

Distance Ring Area Calculations and Distance Ring Populations

Radius	πr^2
4 miles	50.26 mi.^{2}
3 miles	28.27 mi.^{2}
2 miles	12.57 mi.^{2}
1 miles	3.14 mi.^{2}
1/2 mile	0.79 mi.^{2}
1/4 mile	0.20 mi.^{2}

Distance Ring	Area	x Population Density (1780.4/mi^2)	= Estimated Number Of People
3 mi. to 4 mi.	21.99 mi.^{2}		39,151
2 mi. to 3 mi.	15.70 mi.^{2}		27,953
1 mi. to 2 mi.	9.43 mi.^{2}		16,790
1/2 mi. to 1 mi.	2.35 mi.^{2}		4,184
1/4 mi. to 1/2 mi.	0.59 mi.^{2}		1,051
0 mi. to 1/4 mi.	0.20 mi.^{2}		0*

* - Estimate would be 356 people, but site visit, maps, etc. show no residents within 1/4 mile of the site.

Numbers of Workers Within One-Fourth Mile of Columbus Scrap

		# Employees
1.	Universal Concrete, 500 W. Whittier. Talked to Tom Wagenhauser @ (614) 841-1955. Facility is closed.	0
2.	City of Columbus Fleet Management Division, 423 Short St. Talked to Brenda Patterson @ 645-8281.	75-80
3.	City of Columbus Traffic Engineering Division, 515 Short St. Talked to Pat Williams @ (614) 645-7393.	72
4.	Lang Stone Co. Inc., 178 W. Sycamore St. Talked to Tom Gill @ (614) 228-5489.	32
5.	Contract Sweepers, 561 Short St. Wouldn't disclose number of workers over the phone. Estimated @ 10.	10
6.	City of Columbus Recreation Department. Talked to Alan McKnight @ 645-3300. Workers in three different buildings: 420 W. Whittier (51), 440 W. Whittier (30), and 460 W. Whittier (8).	89
7.	Lazarus Warehouse, 562 W. Whittier. Talked to Dee Plant @ (614) 463-3486.	80
8.	Spartan Warehousing and Distributing, 371 Maier Pl. Wouldn't disclose number of workers over the phone. Estimated @ 50.	50

Total number of surrounding area workers within one-fourth mile is about 410, plus 30 at Columbus Scrap, equals about 440.

Numbers of Workers and Students Estimated

1.	Mid-Ohio Regional Planning Commission. Talked to Nancy Roeger @ (614) 228-2663. Their estimate for number of workers downtown (within the inner belt).	95,000
2.	Columbus State Admissions Office (1-2 mile distance ring). Called (614) 227- 2453, about 16,000 students, mostly daytime.	16,000
3.	Ohio State University (3-4 mile distance ring). Admissions greater than 50,000 students, mostly daytime.	50,000

Compiled by Jeff Reynolds, Ohio EPA on phone calls made 12/20/91, 1/10/92 and 1/16/92.