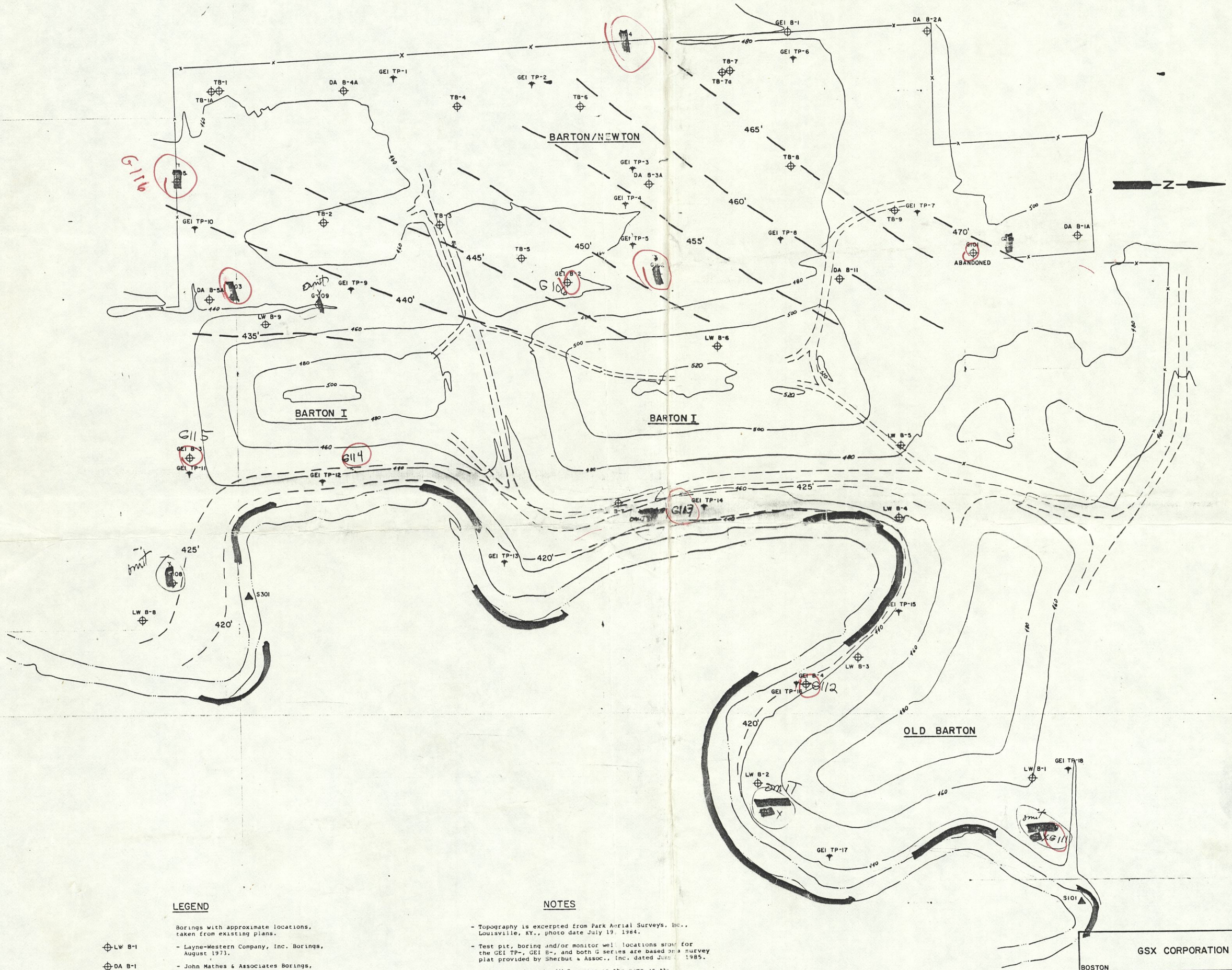
US EPA RECORDS CENTER REGION 5
487482



LEGEND

Borings with approximate locations, taken from existing plans.

- LW B-1 - Layne-Western Company, Inc. Borings, August 1973.
- DA B-1 - John Mathes & Associates Borings, April 1981.
- TB-1 - RAS Borings, July 1982.

Boring and Test Pit locations surveyed during the GeoEngineering study.

- G-101 - SCA Services Borings, prior to 1982.
- G101 - SCA Services Borings, 1982/1983.
- GEI B-1 - GeoEngineering, Inc., Borings, May-June 1985.
- GEI TP-1 - GeoEngineering, Inc., Test Pits, May-June 1985.
- S101, S301 - Surface sampling points, Cahokia Creek

NOTES

- Topography is excerpted from Park Aerial Surveys, Inc., Louisville, KY., photo date July 19, 1984.
- Test pit, boring and/or monitor well locations shown for the GEI TP-, GEI B-, and both G series are based on a survey plat provided by Sherbut & Assoc., Inc. dated June 1985.
- It appears that the LW B series is the same as the G- series (for example, G-107 = LW B-7); the G- series are surveyed locations.
- These water level contours represent our evaluation of the most probable conditions based upon our interpretation of presently available data. Some variations from these conditions must be expected.
- All elevations in feet relative to mean sea level
- Contours based on water level elevations measured by GEI personnel on June 1, 1985.

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GSX CORPORATION
BOSTON MASSACHUSETTS

BARTON LANDFILL
TWNSP OF EDWARDSVILLE ILLINOIS

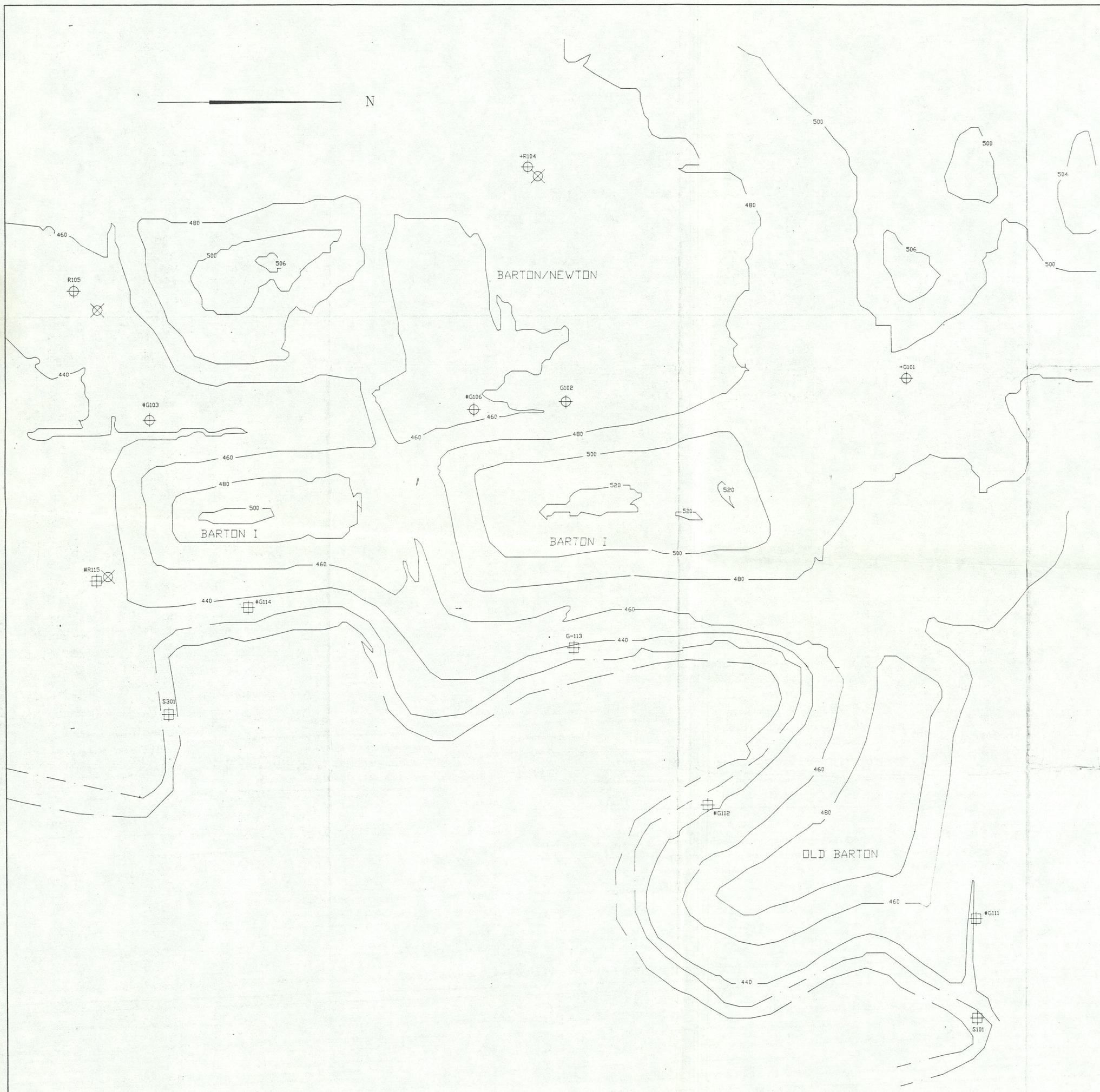
GeoEngineering, Inc.
Denville New Jersey

SCALE: 1" = 100' DATE: 7/16/85

GENERAL SITE PLAN AND PIEZOMETRIC CONTOURS

FIGURE NO. 2

1985-214



LEGEND

active well
Permit No. 1982-43-DP/
1985-214-SP

active well
Permit No. 1975-40-DP/
1985-236-SP

replaced well

IEPA DESIGNATION	APPLICANT DESIGNATION	INSTALLATION TO DATE
+ G101	G101	SCA Services 1983
G102	G102	" " "
# G103	G103	" " "
+ R104	G104	GeoEng. Jan.,1987
R105	G105	GeoEng. Jan.,1987
# G106	GEI-B-2	GeoEng. 1985
# G111	G101(old)	Reitz & Jens 1986
# G112	GEI-B-4	GeoEng. 1985
# G113	G107	Reitz & Jens 1986
# G114	-	Reitz & Jens 1986
# R115	GEI-B-3	GeoEng. Jan.,1987
S101	S101	-
S301	S301	-

\+ represents upgradient monitoring points

\# represents monitor points added to the monitoring program, per IEPA letters dated Feb.18, 1986

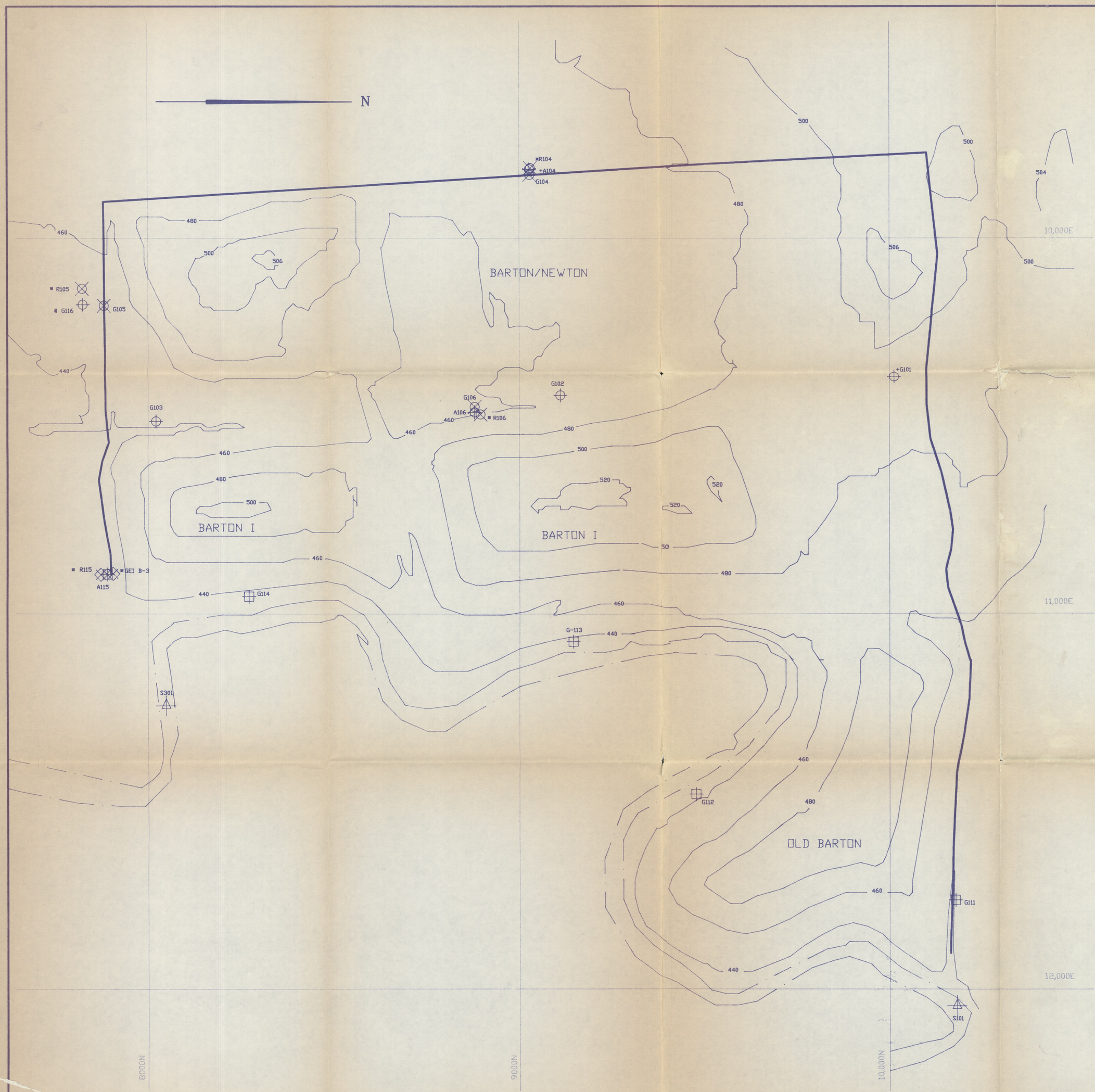
NOTES

1. All elevations in feet relative to mean sea level
2. Topography excerpted from Park Aerial Surveys, Inc., Louisville, KY., photo dated November 5, 1985
3. G113 and G114 locations based on survey plan by Reitz & Jens, Inc., June 26, 1986
4. Replacement well locations of G104, G105 & G115 based on survey by Sherbut & Assoc. March, 1987
5. Remaining GEI B and G series monitoring well locations based on survey by Sherbut & Assoc., Inc. June 6, 1985

SCALE IN FEET
0 100 200

RECEIVED
JUN - 5 1987
IEPA-DLPC

BARTON/NEWTON LANDFILL	
GSX CORPORATION OF ILLINOIS	
GeoEngineering, Inc.	
Date: APRIL 1987	GEI File No. 5971
WATER MONITORING PLAN	Fig. No. 2



LEGEND

- active well Permit No. 1982-43-OP/ 1985-214-SP
- abandoned
- active well Permit No. 1975-40-OP/ 1985-236-SP
- monitoring point Permit No. 1975-40-OP/ 1985-236-SP
- abandoned well
- slurry trench

IEPA DESIGNATION	APPLICANT DESIGNATION	INSTALLATION TO DATE
+ G101	G101	SCA Services 1983
G102	G102	" " "
G103	G103	" " "
■+ R104	G104	GeoEng. Jan. 1987
+ A104	G104 (2)	GeoEng. Oct. 1987
■ R105	G105	GeoEng. Jan. 1987
# G116	G105 (2)	GeoEng. Oct. 1987
■ R106	GEI-B-2	GeoEng. June, 1987
A106	GEI-B-2 (2)	GeoEng. Oct. 1987
G111	G101(old)	Reitz & Jens 1986
G112	GEI-B-4	GeoEng. 1985
G113	G107	Reitz & Jens 1986
G114	-	Reitz & Jens 1986
■ R115	GEI-B-3	GeoEng. Jan. 1987
A115	GEI-B-3 (2)	GeoEng. Oct. 1987
S101	S101	-
S301	S301	-

+ represents upgradient monitoring points program, per IEPA letters dated Feb.18, 1986
# represents monitor points added to the monitoring
■ represents monitor points abandoned and plugged

NOTES

1. All elevations in feet relative to mean sea level
2. Topography excerpted from Park Aerial Surveys, Inc., Louisville, KY, photo dated November 5, 1985
3. G113 and G114 locations based on survey plan by Reitz & Jens, Inc., June 26, 1986
4. Replacement well locations of G104, G105 & G115 based on survey by Sherbut & Assoc. March, 1987
5. Remaining GEI B and G series monitoring well locations based on survey by Sherbut & Assoc., Inc. June 6, 1985 and Oct. 27, 1987.
6. As-built location of slurry trench provided by Sherbut & Assoc., Collinsville, Il, in transmittal dated January 22, 1988.

SCALE IN FEET
0 100 200

BARTON/NEWTON LANDFILL

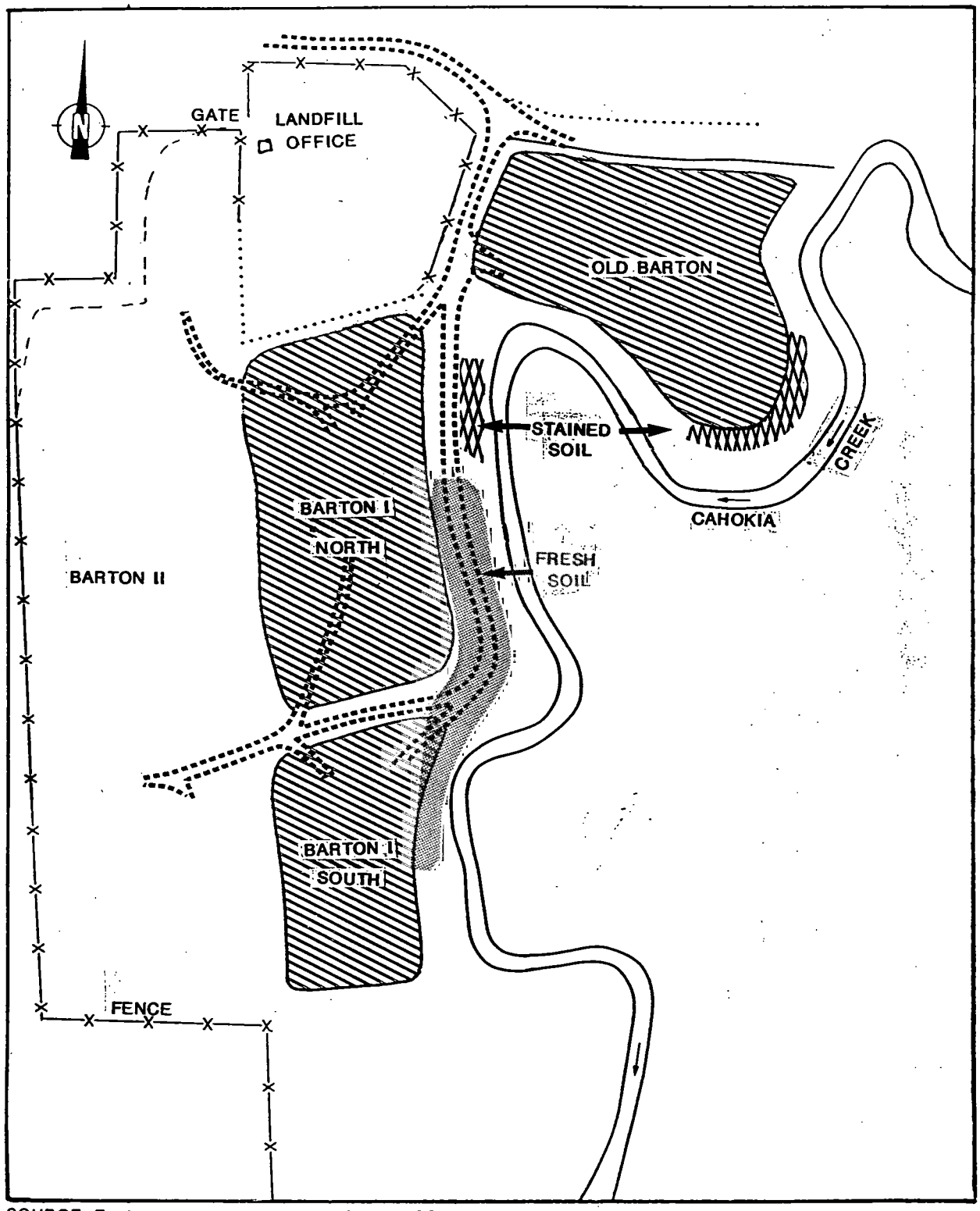
GSX CORPORATION OF ILLINOIS

GeoEngineering, Inc.

Date: FEB. 1988 | GEI File No. 5971

WATER MONITORING PLAN

Fig. No. 2

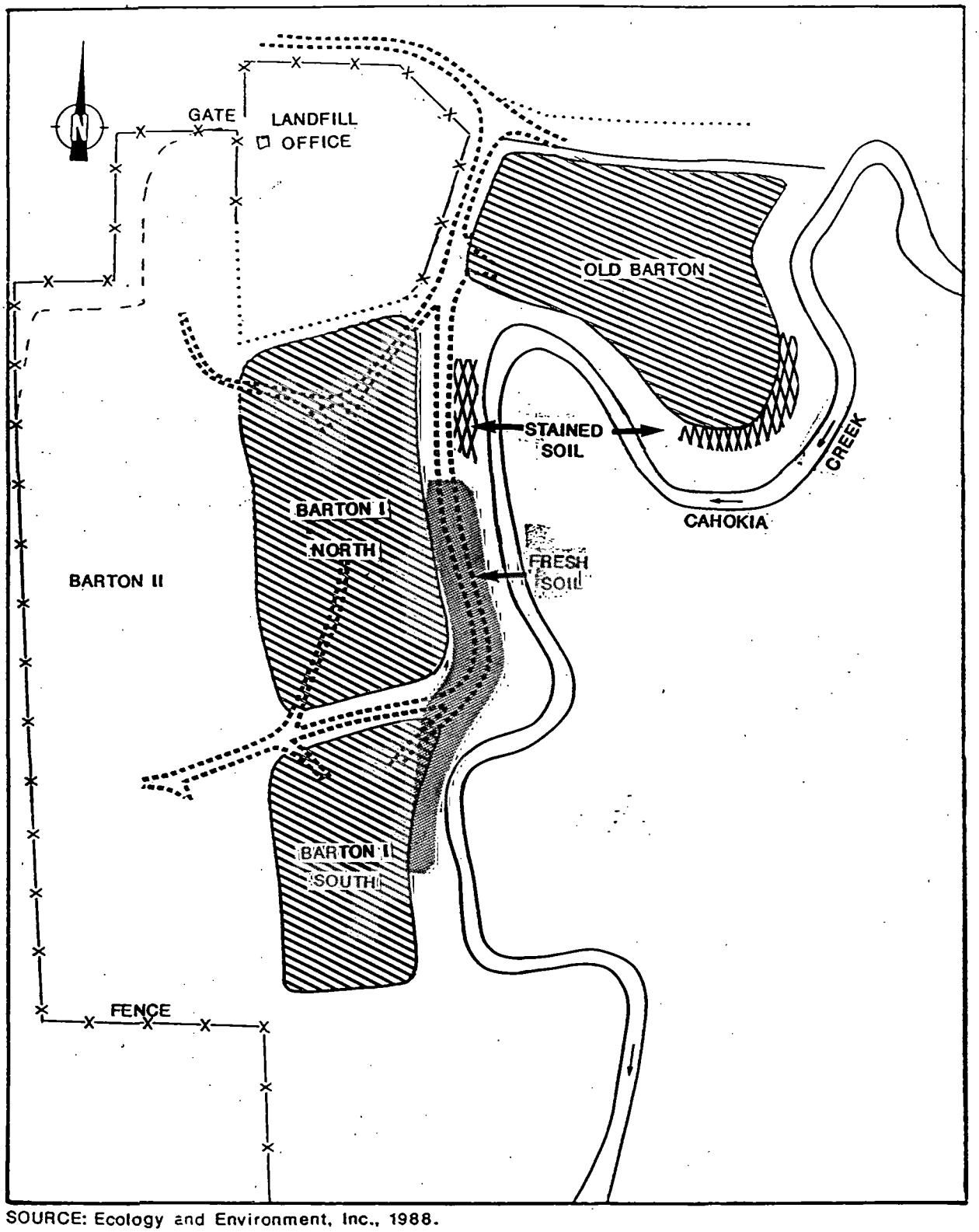


SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

FIGURE 3-1 SITE FEATURES

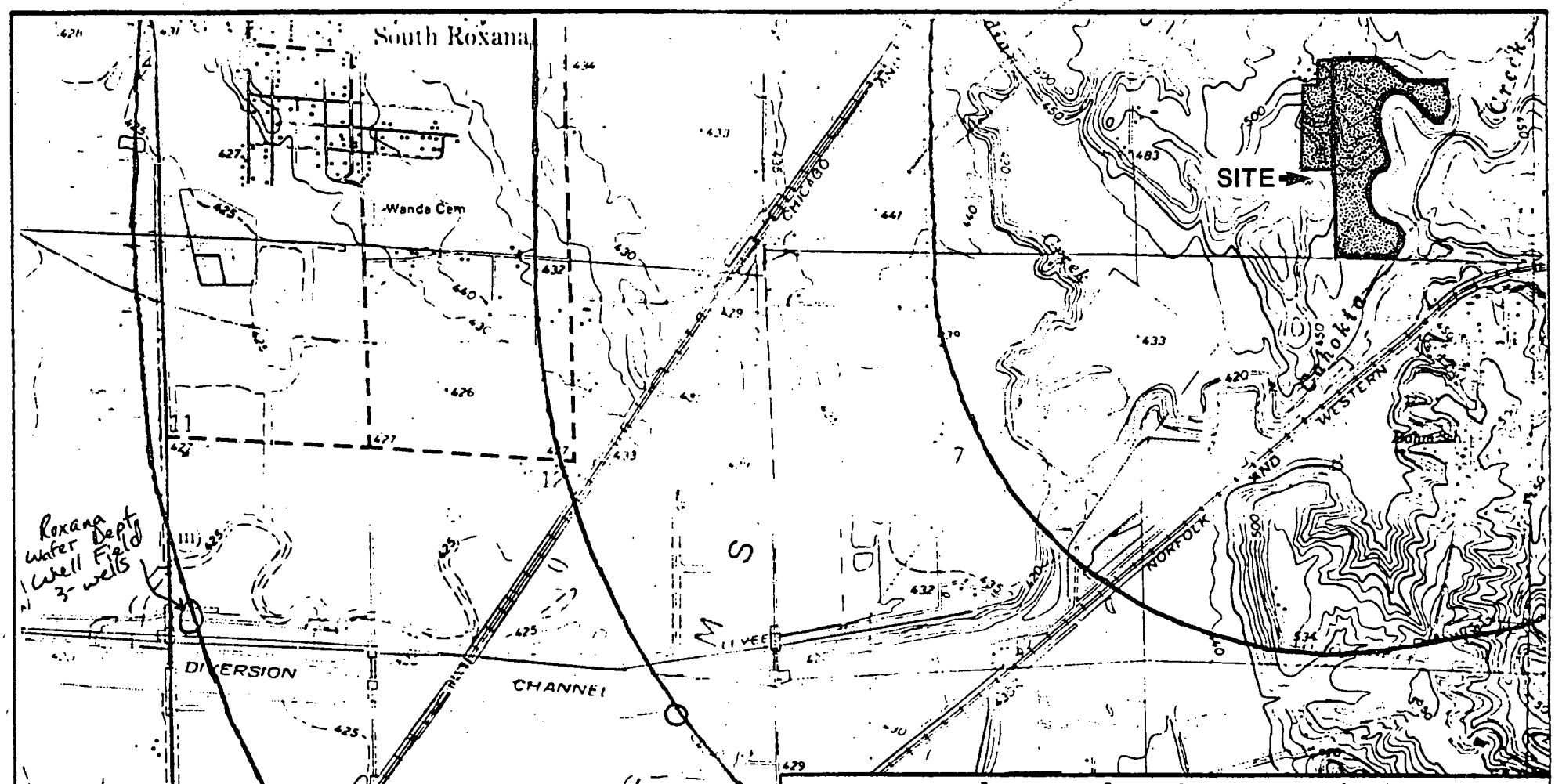


SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

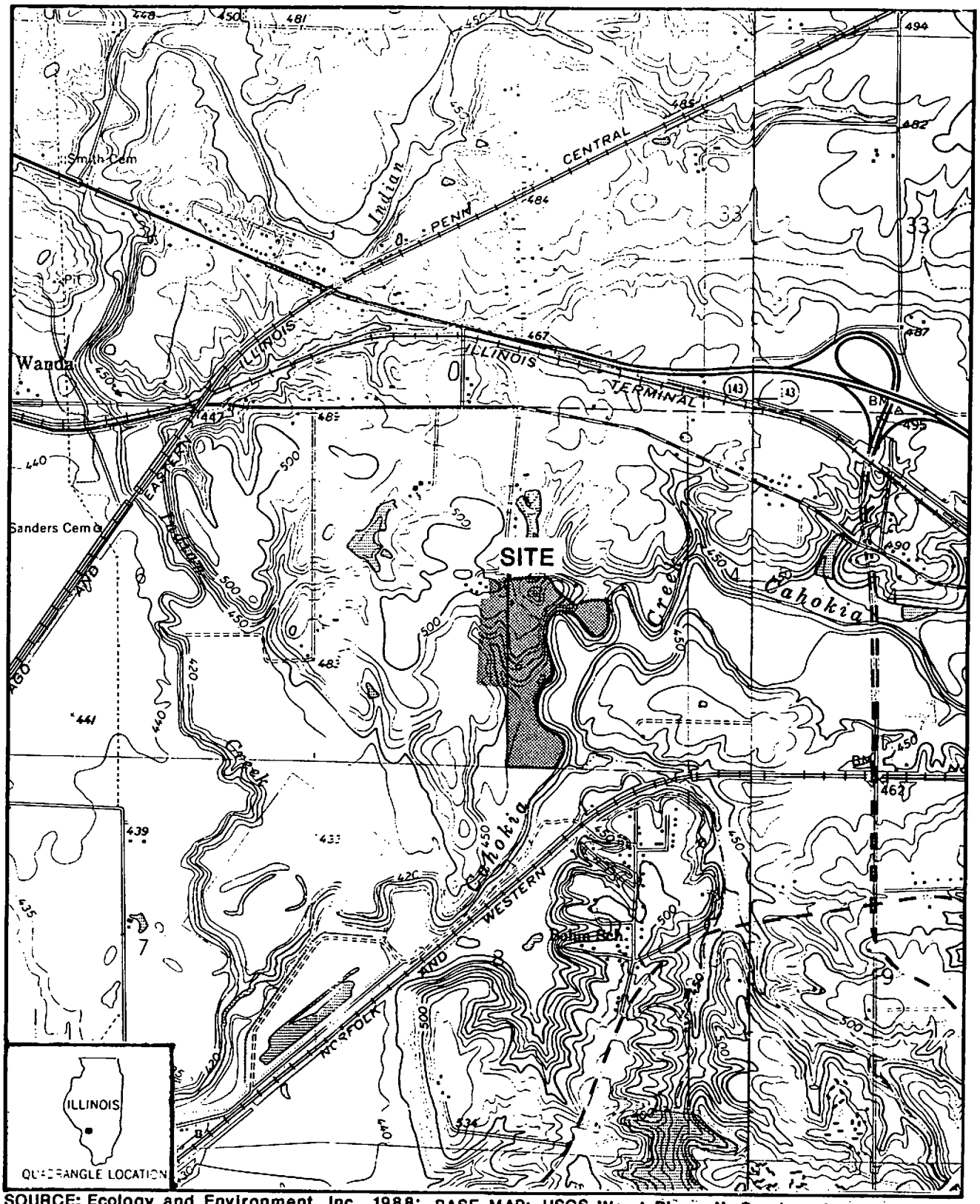
FIGURE 3-1 SITE FEATURES



ecology and environment, inc.

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

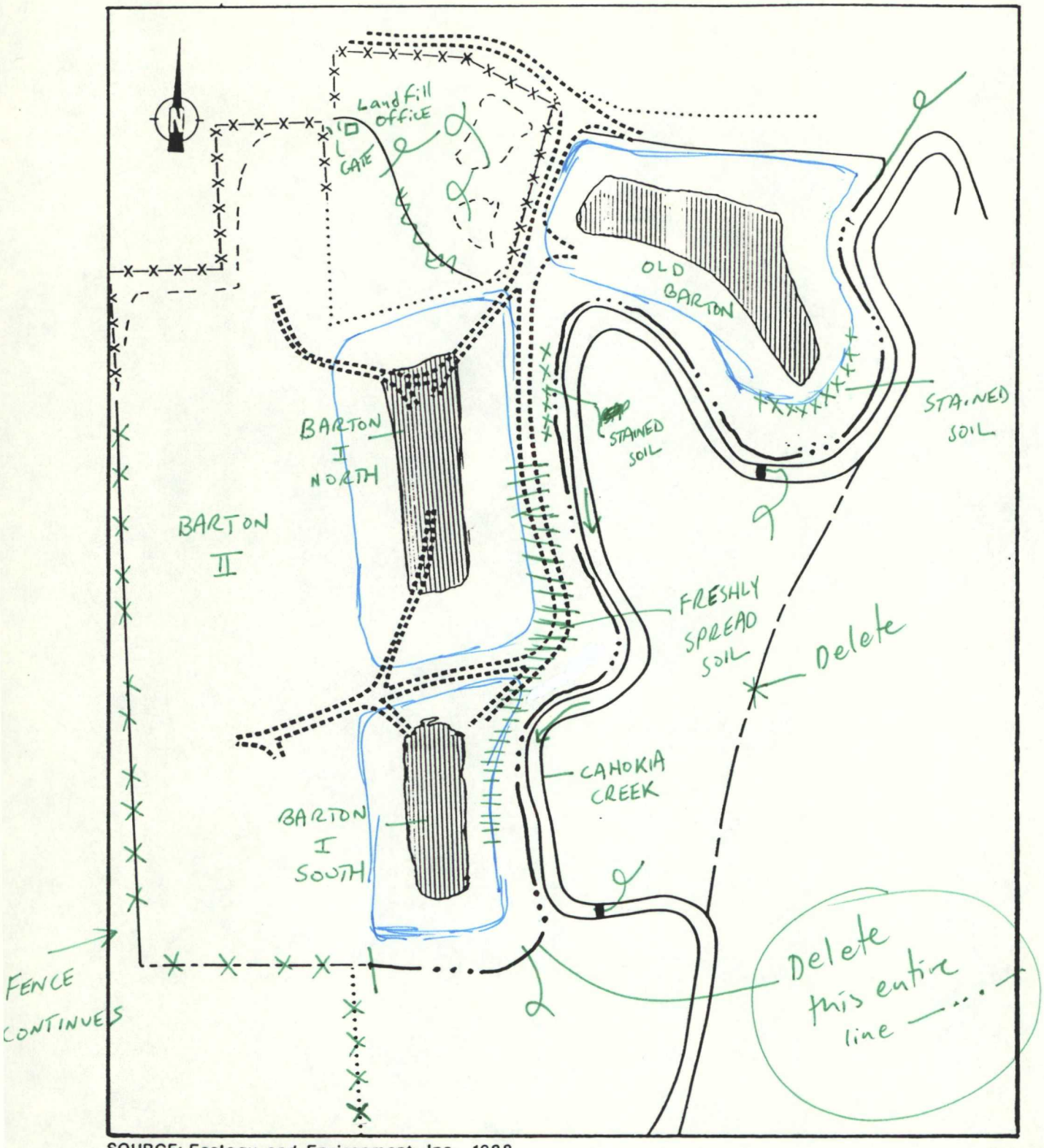
TITLE: SITE LOCATION MAP	FIGURE #: 1
SITE: SCA SERVICES BARTON LANDFILL #1	SCALE: 1:24000
CITY: ROXANA / STATE: IL.	P.A.N.: FIL0599GA
SOURCE: USGS WOOD RIVER 7.5' MIN. QUAD	DATE: 1955 / REVISED: 1968



SOURCE: Ecology and Environment, Inc., 1988; BASE MAP: USGS Wood River, IL Quadrangle, 7.5 Minute Series, 1955; Edwardsville, IL Quadrangle, 7.5 Minute Series, 1954.

SCALE
0 0.5 1 MILE

FIGURE 2-1 SITE LOCATION



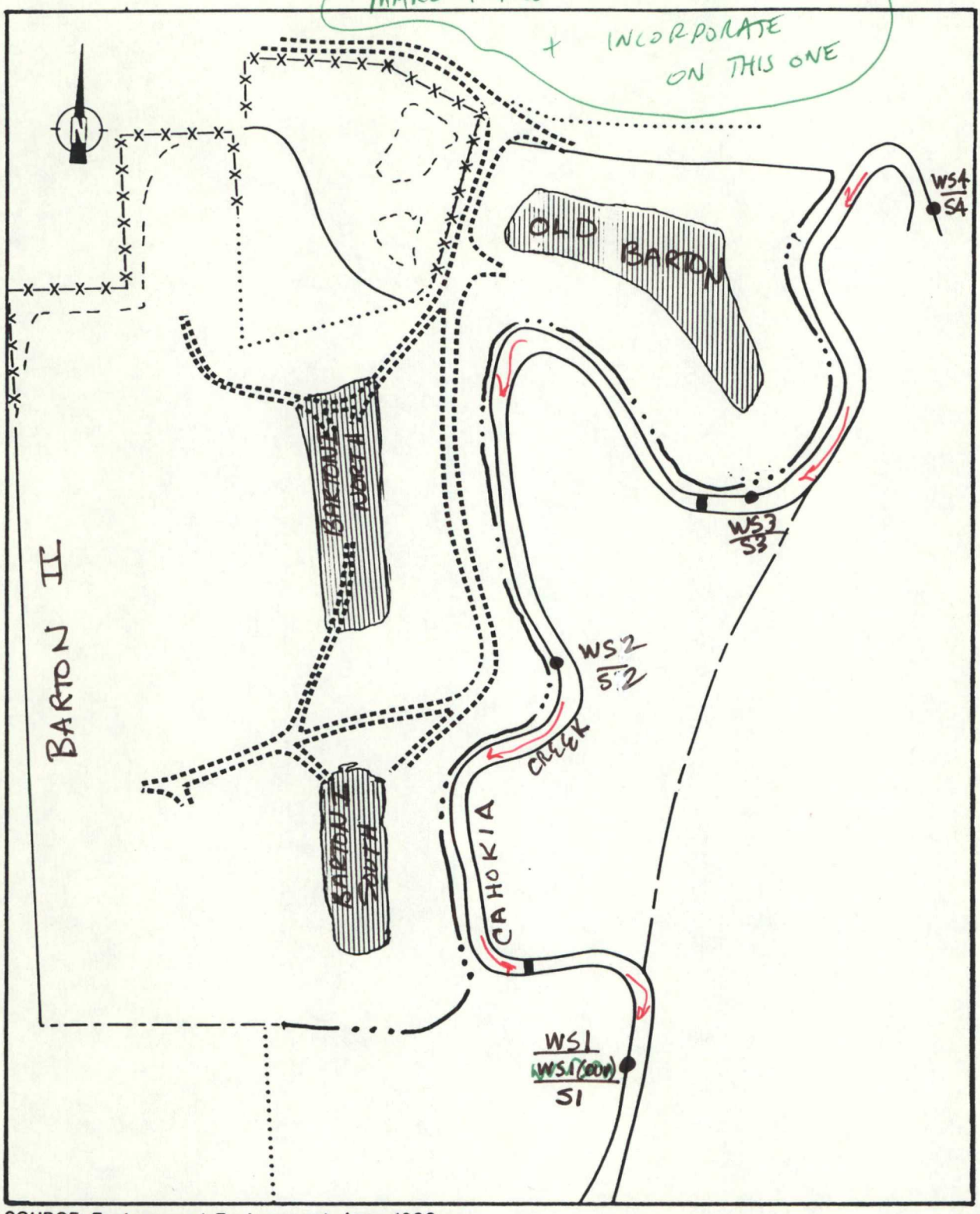
SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

FIGURE 3-1 SITE FEATURES

MAKE CHANGES TO SITE FEATURES + INCORPORATE ON THIS ONE

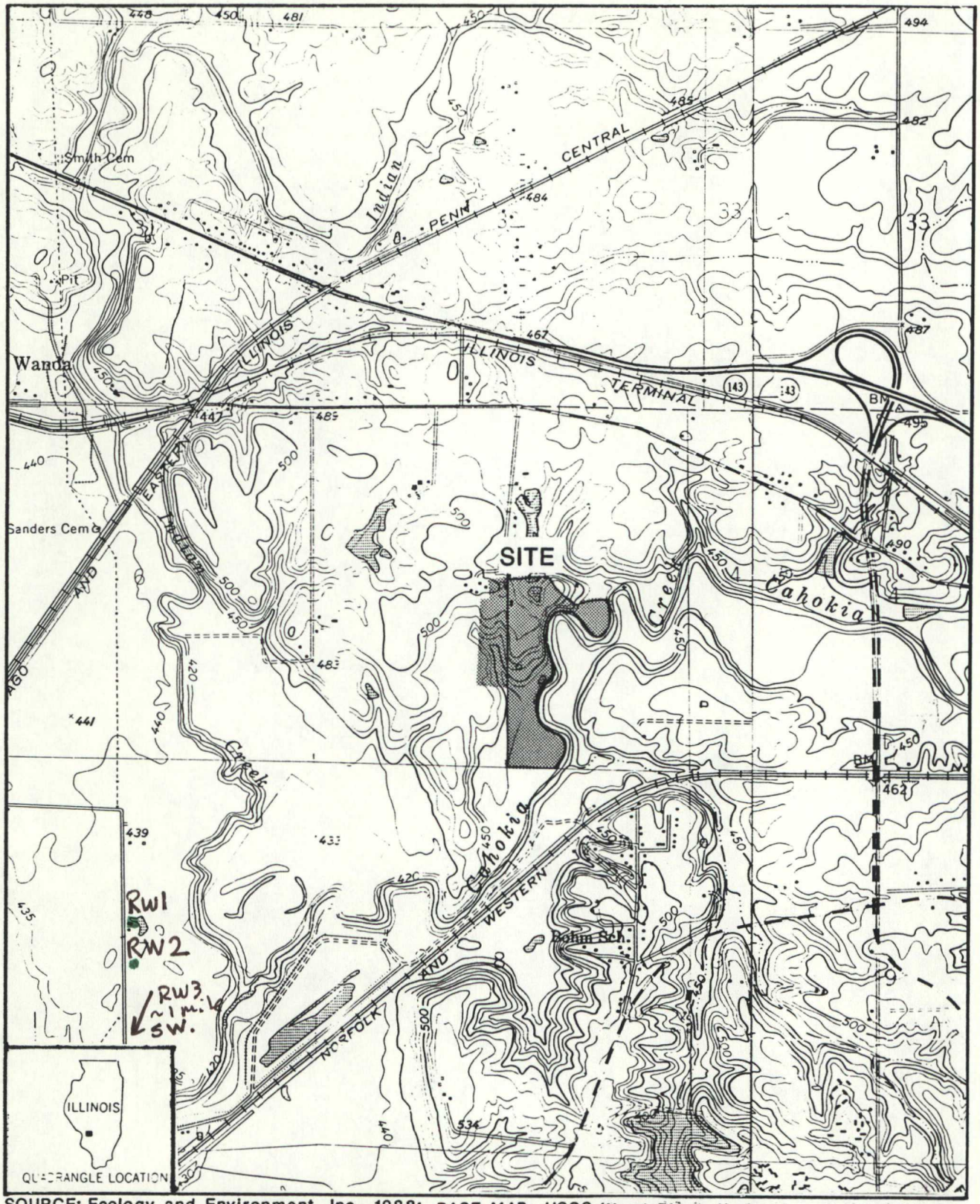


SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

Figure 3-2 Sediment AND Surface Water Sampling Locations

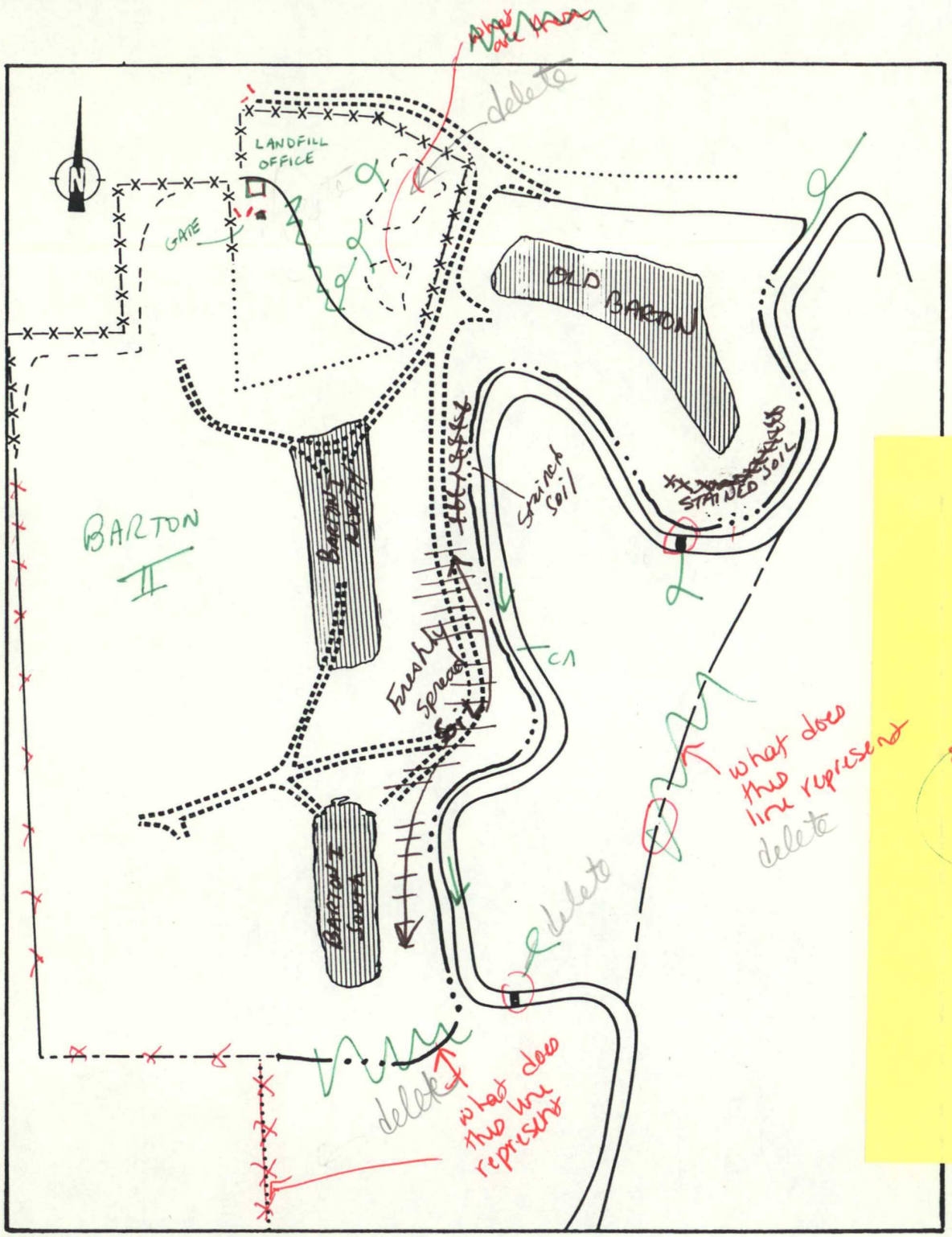


SOURCE: Ecology and Environment, Inc., 1988; BASE MAP: USGS Wood River, IL Quadrangle, 7.5 Minute Series, 1955; Edwardsville, IL Quadrangle, 7.5 Minute Series, 1954.

SCALE
0 0.5 1 MILE

~~FIGURE 3-3 SITE LOCATION~~ Location of Residential Well Samples.

FIGURE 3-3 RESIDENTIAL WELL SAMPLING LOCATIONS

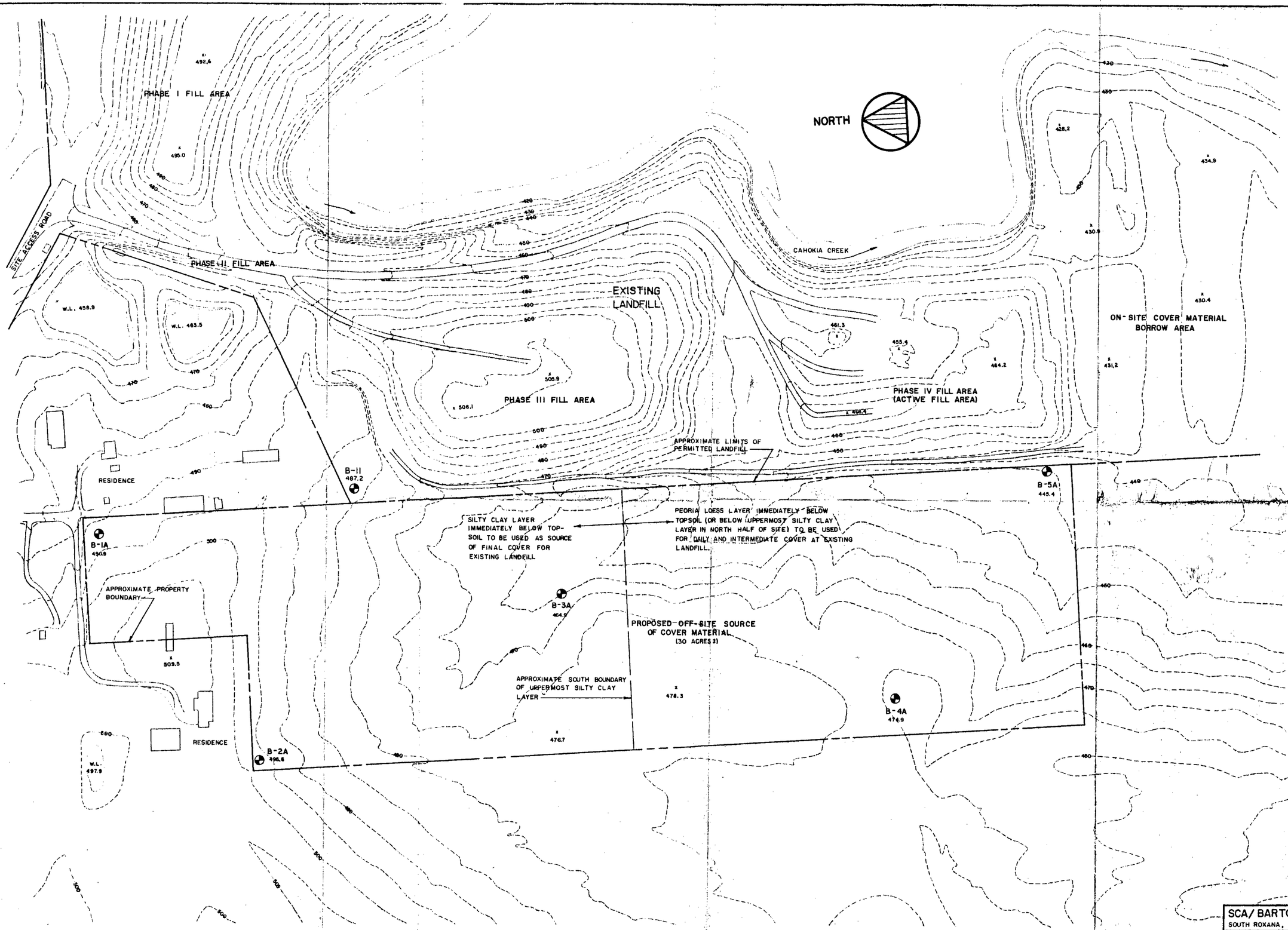


SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

Figure 3-1 Site Features



1) THE EXISTING GROUND SURFACE CONTOURS SHOWN REFLECT TOPOGRAPHIC CONDITIONS AS DETERMINED BY AERIAL PHOTOGRAPHY ON 6/10/81.
2) ACCESS TO THE PROPOSED OFF-SITE COVER SOURCE WILL BE VIA THE COMMON NORTH-SOUTH PROPERTY LINE.

LEGEND

B-1A 490.9 — SOIL BORING LOCATION, NUMBER, AND GROUND SURFACE ELEV.

478.3 — SPOT GROUND SURFACE ELEV.

SITE PLAN - EXISTING CONDITIONS

SCALE: 1" = 100' CONTOUR INTERVAL - 5 FT.

RECEIVED
JUL 27 1981
E.P.A. — D.L.P.C.
STATE OF ILLINOIS

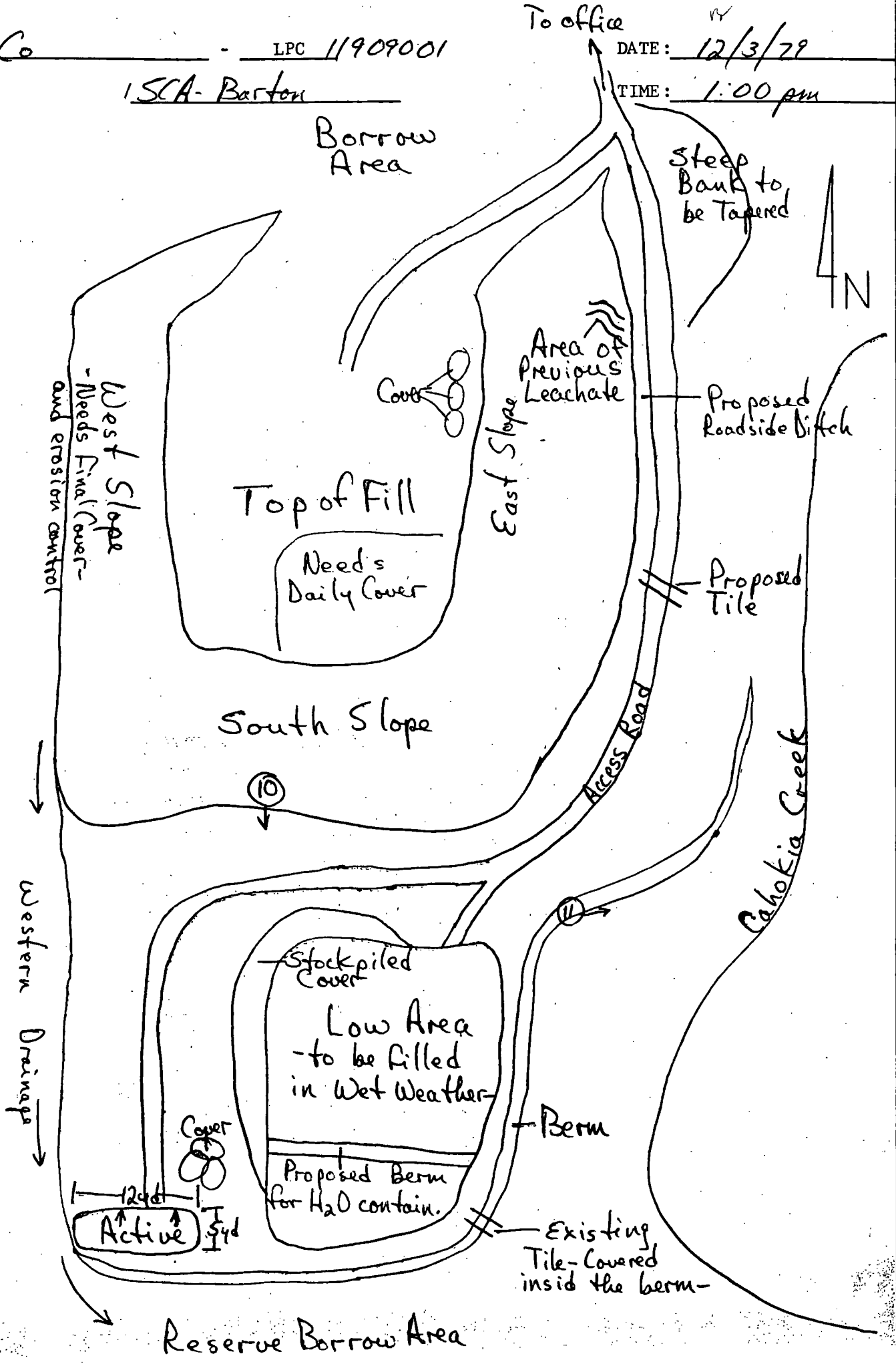
SCA/BARTON LANDFILL SOUTH ROXANA, ILLINOIS		
SCALE: AS SHOWN	APPROVED BY:	DRAWN BY RB
DATE: JULY, 1981		REVISED
JAMES DOUGLAS ANDREWS, P.E. ENVIRONMENTAL ENGINEERING, INC. SPRINGFIELD, ILLINOIS		
OFF-SITE COVER MATERIAL SOURCE		DRAWING NUMBER 74-1192-DM-6

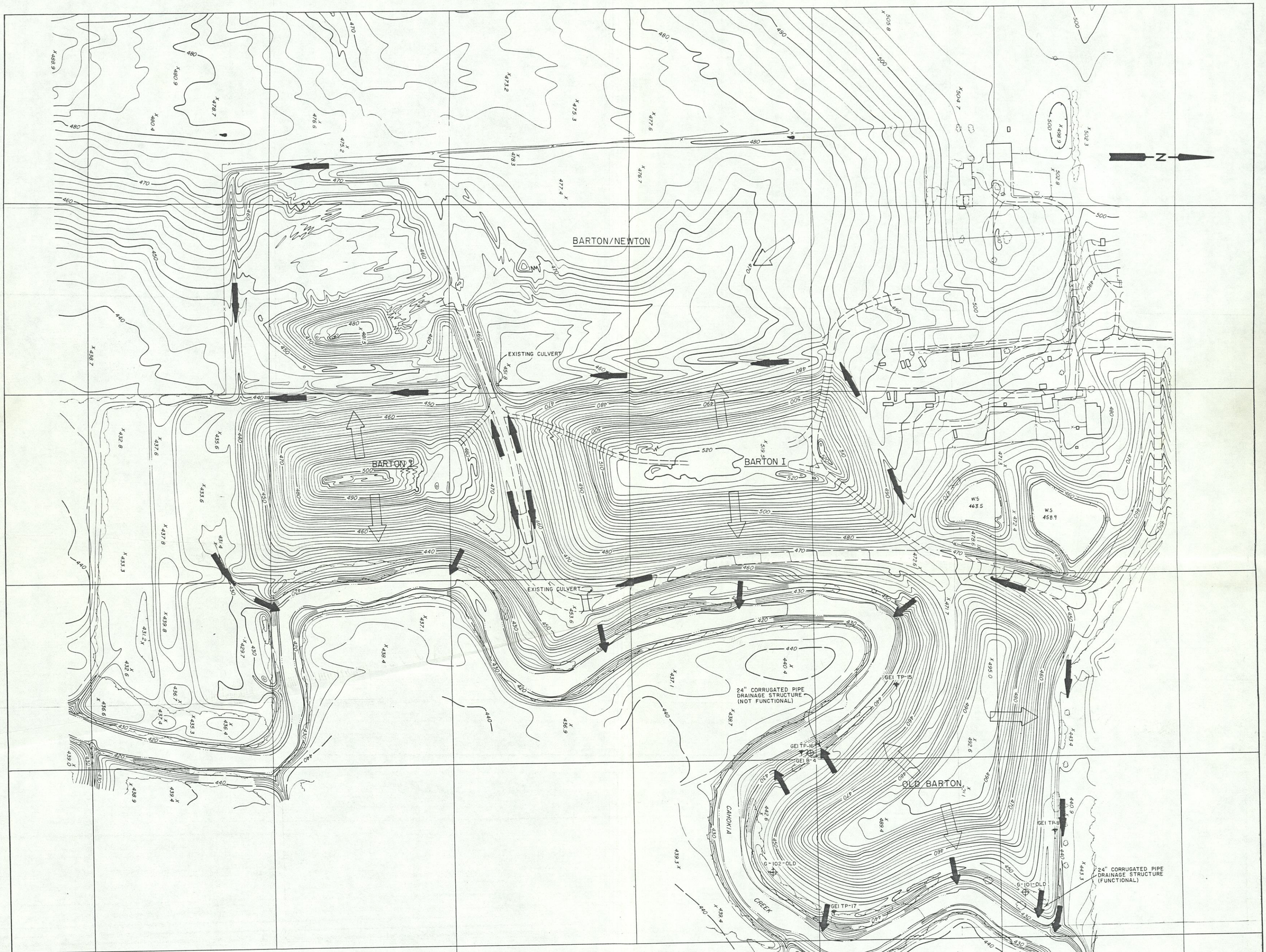
Madison Co - LPC 1/909001

ISCA- Barton

DATE: 12/3/79

TIME: 1:00 pm





LEGEND

- Channel Flow
- Major surface water exits from site
- Sheet Flow

NOTES

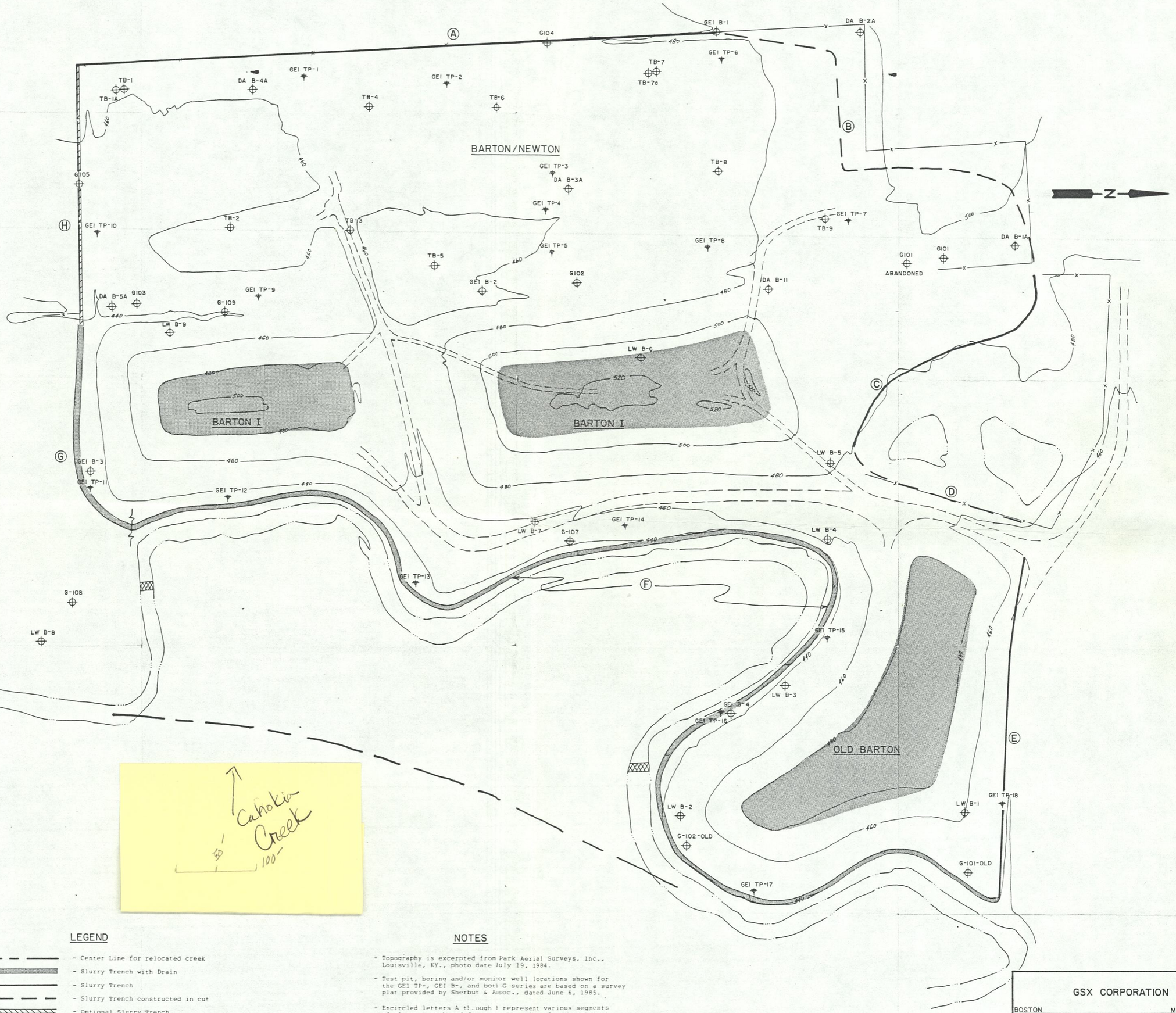
- Topography from Park Aerial Surveys, Inc., Louisville, KY., photo date July 19, 1984.
- Locations of culverts and drainage structures are approximate, based on visual observations by GEI personnel in June, 1985.
- Washouts one foot deep were noted on the side slopes of both Barton I landfill mounds. There is very little established vegetation present on Barton I.
- Generally, vegetation is thick and well established on the old Barton section.

GSX CORPORATION	
BOSTON	MASSACHUSETTS
BARTON LANDFILL	
TWNSP OF EDWARDSVILLE	ILLINIOS
GeoEngineering, Inc.	
Denville	New Jersey
SCALE: 1" = 100'	DATE: 7/16/85
SURFACE DRAINAGE	FIGURE NO. 8

RECEIVED OCT 11 1985 GEI

RECEIVED NOV 21 1985 TPA-DLPC

1985-214



LEGEND

- Center Line for relocated creek
- Slurry Trench with Drain
- Slurry Trench
- Slurry Trench constructed in cut
- Optional Slurry Trench
- Synthetic Cap
- Channel Closure

NOTES

- Topography is excerpted from Park Aerial Surveys, Inc., Louisville, KY., photo date July 19, 1984.
- Test pit, boring and/or monitor well locations shown for the GEI TP-, GEI B-, and both G series are based on a survey plat provided by Sherbut & Assoc., dated June 6, 1985.
- Encircled letters A through I represent various segments of slurry trench and drain construction. See report text.
- For a summary of nomenclature of the Test Pits and Borings from various investigators shown on this drawing refer to Figure 2.

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NOV 21 1985
MDNR-DLPC

GSX CORPORATION

BOSTON MASSACHUSETTS

BARTON LANDFILL

TWNSP OF EDWARDSVILLE ILLINIOS

GeoEngineering, Inc.

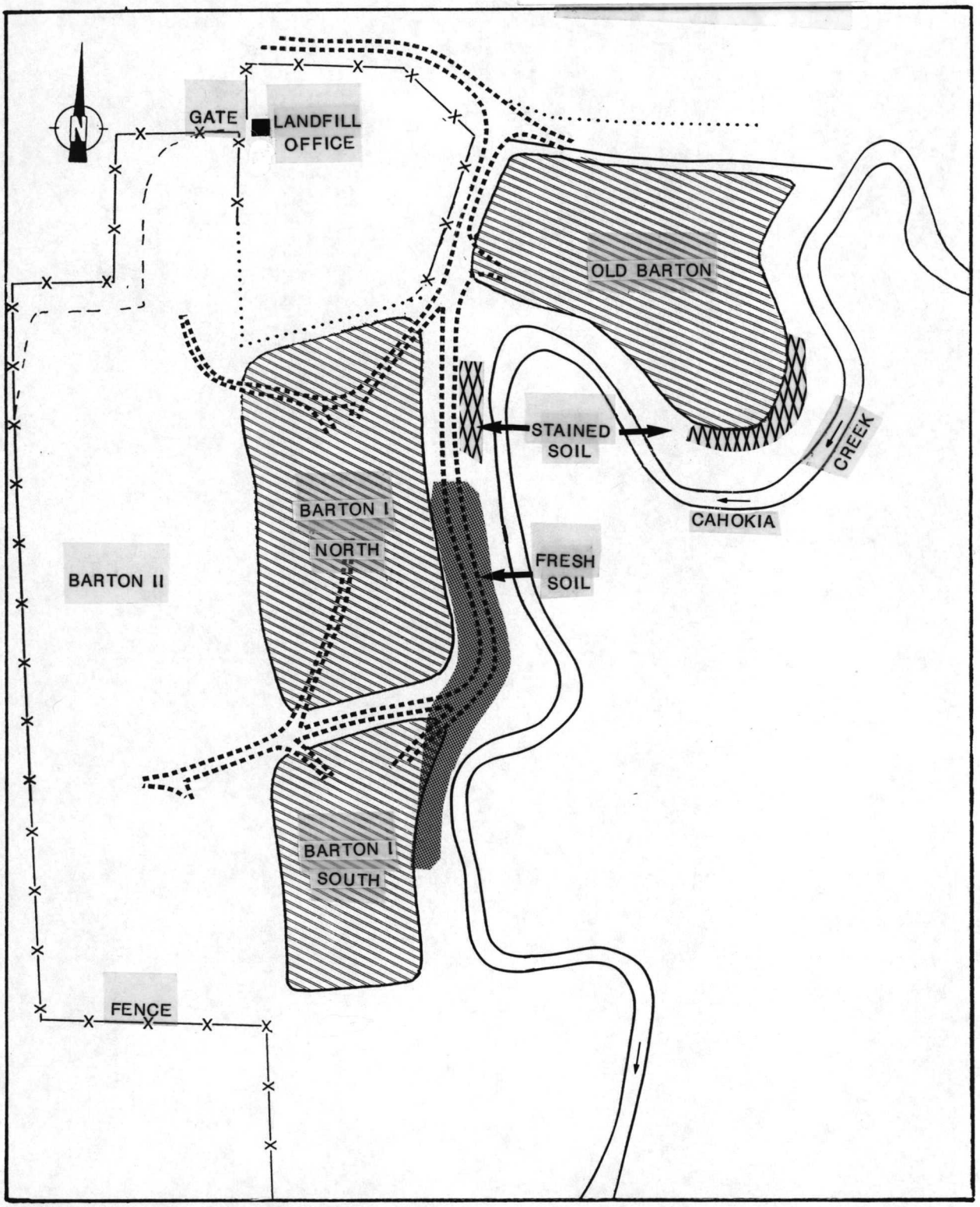
Denville New Jersey

SCALE: 1" = 100' DATE: 7/16/85

ENVIRONMENTAL IMPROVEMENTS PLAN

FIGURE NO. 9

1985-214

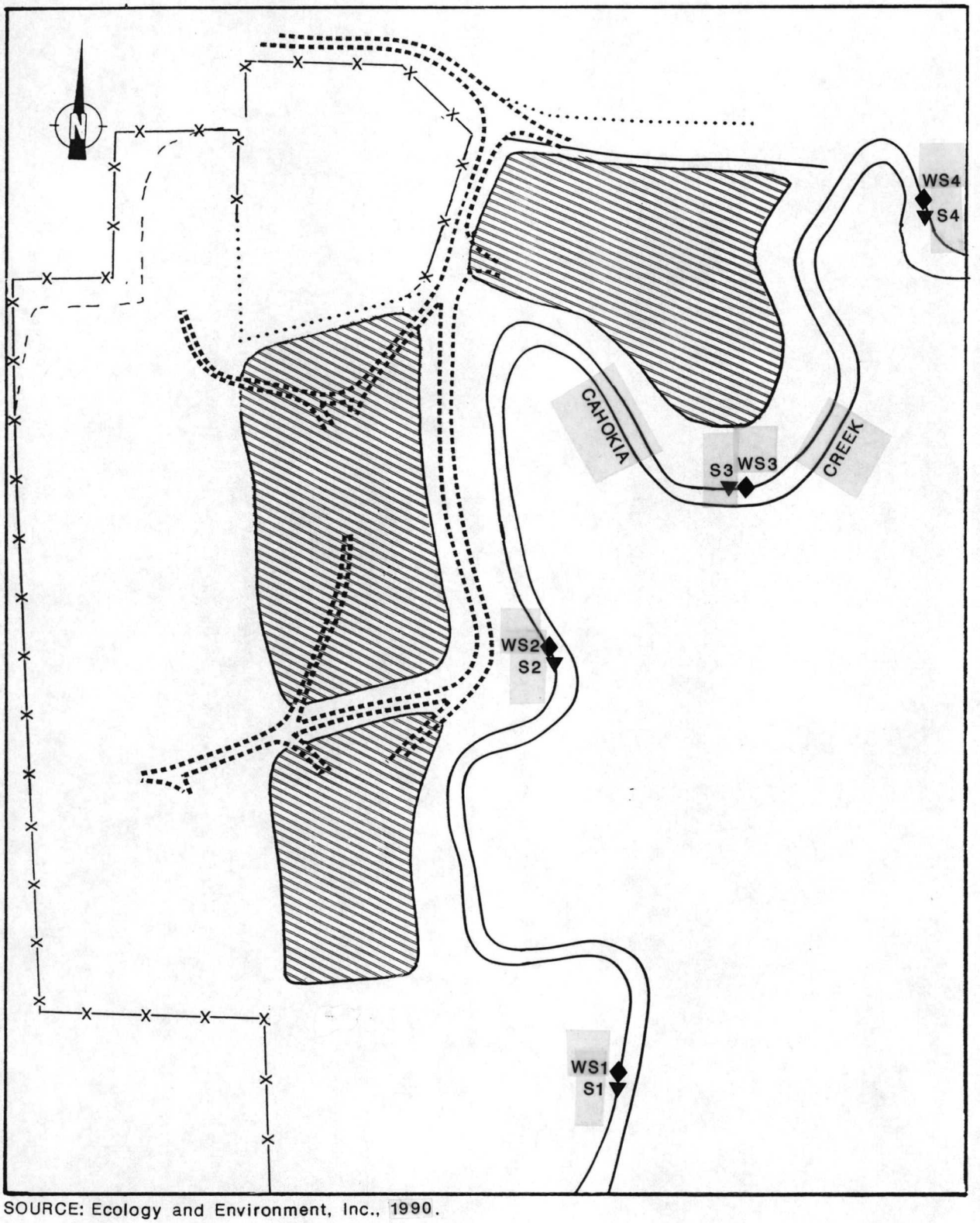


SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET

FIGURE 3-1 SITE FEATURES

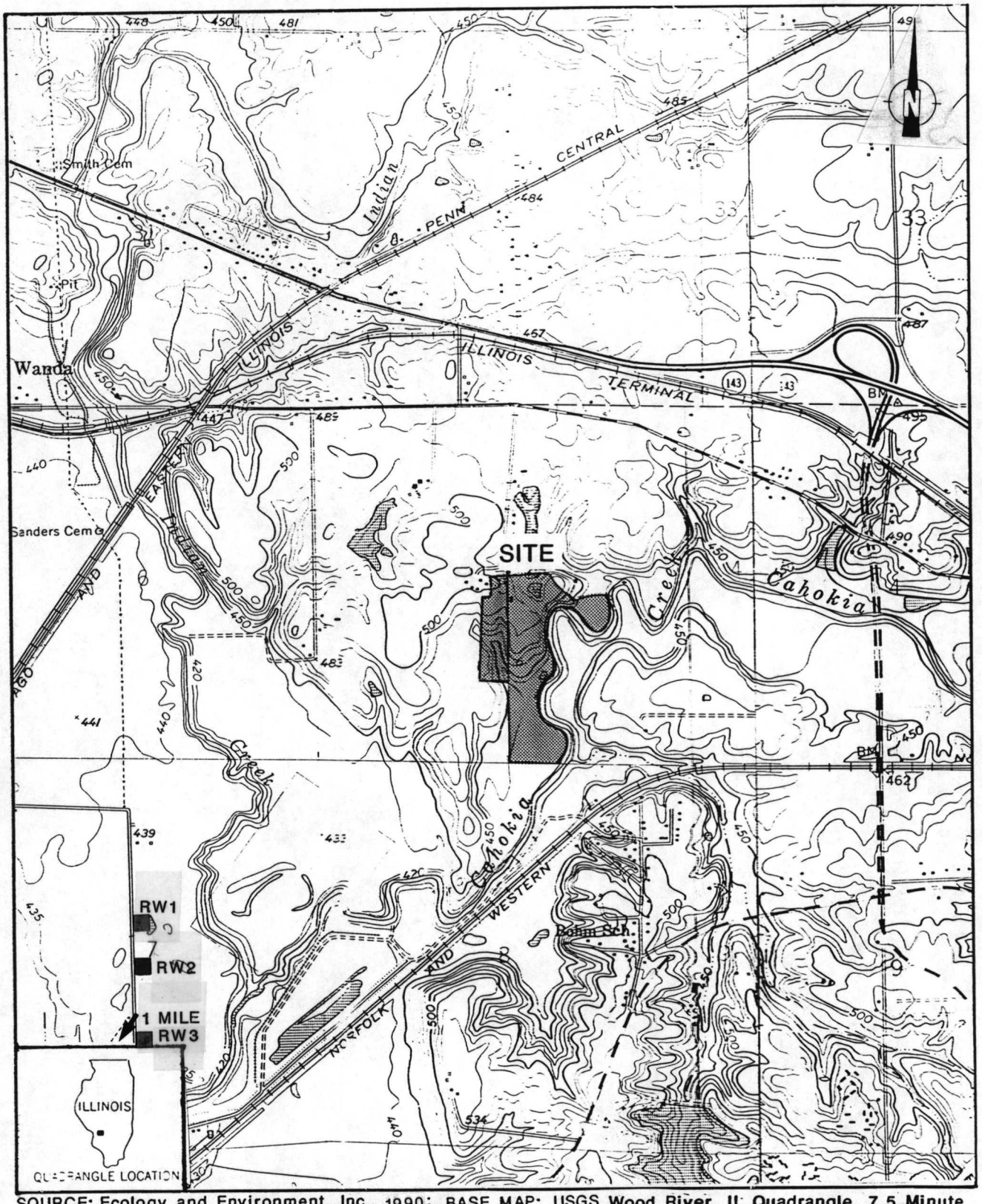


SOURCE: Ecology and Environment, Inc., 1990.

SCALE

0 200 400 600 800 1000 FEET

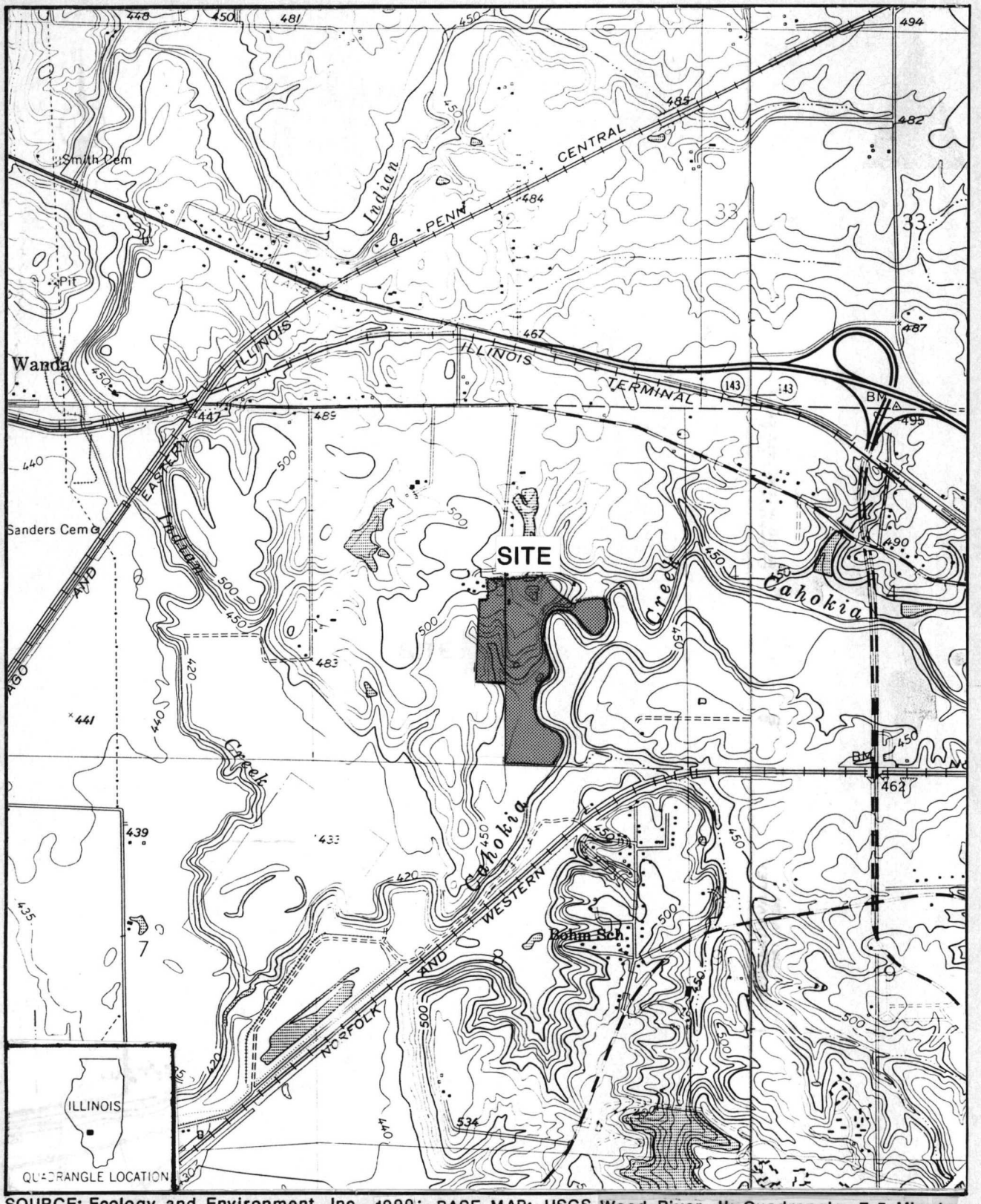
FIGURE 3-2 SEDIMENT AND SURFACE WATER SAMPLING LOCATIONS



SOURCE: Ecology and Environment, Inc., 1990; BASE MAP: USGS Wood River, IL Quadrangle, 7.5 Minute Series, 1955; Edwardsville, IL Quadrangle, 7.5 Minute Series, 1954.

SCALE
0 0.5 1 MILE

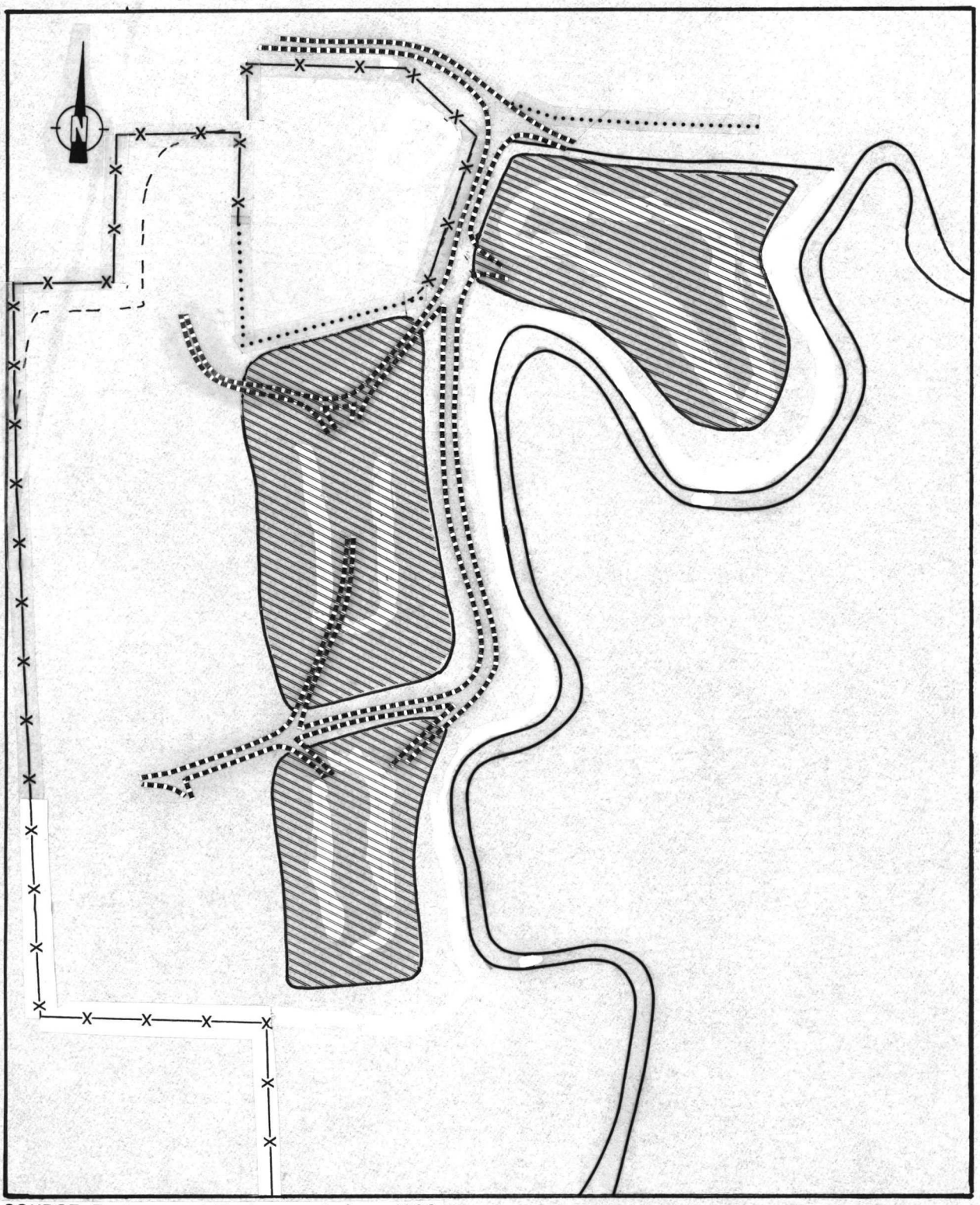
FIGURE 3-3 RESIDENTIAL WELL SAMPLING LOCATIONS



SOURCE: Ecology and Environment, Inc., 1990; BASE MAP: USGS Wood River, IL Quadrangle, 7.5 Minute Series, 1955; Edwardsville, IL Quadrangle, 7.5 Minute Series, 1954.

SCALE
0 0.5 1 MILE

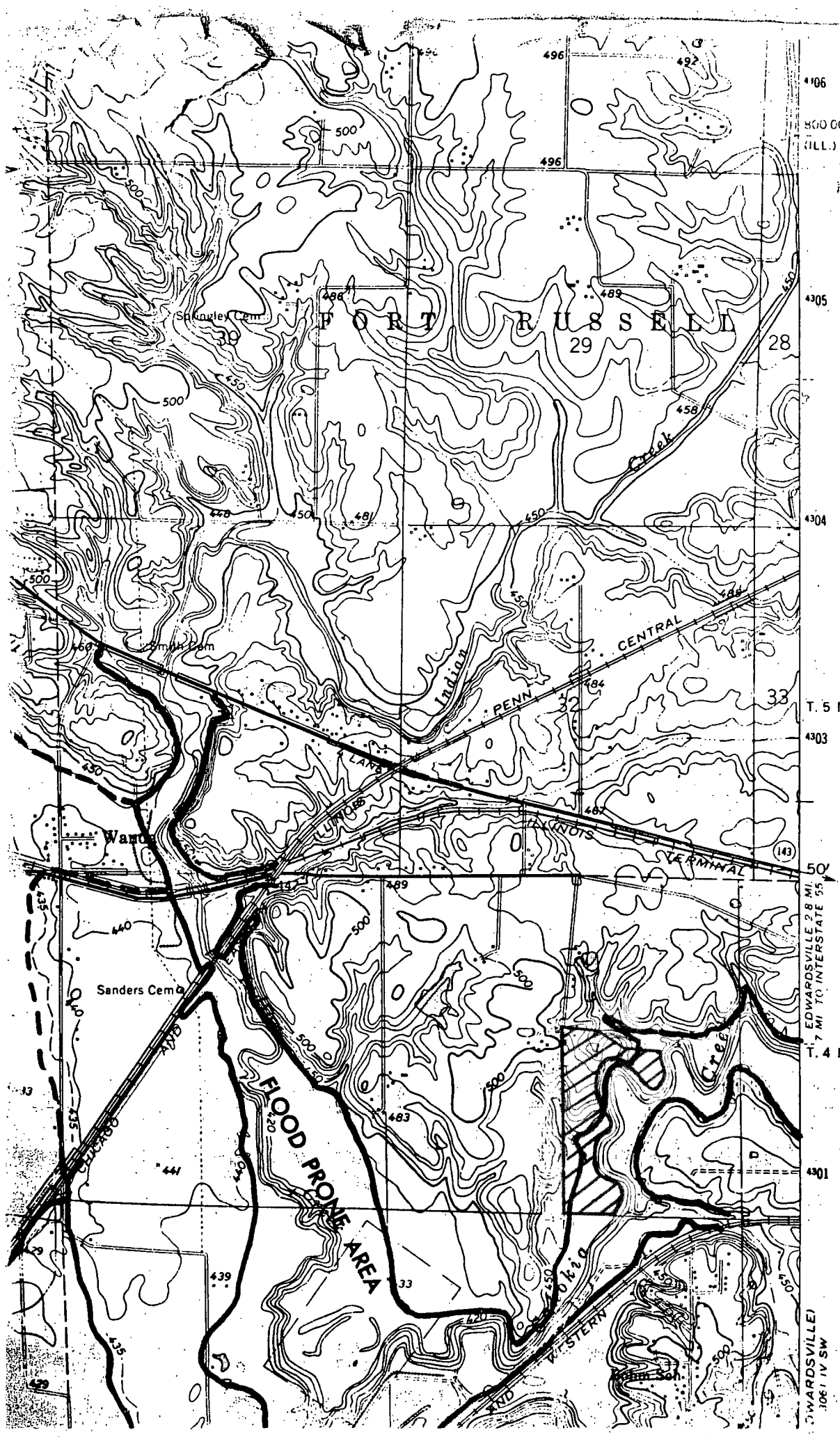
FIGURE 2-1 SITE LOCATION



SOURCE: Ecology and Environment, Inc., 1988.

SCALE

0 200 400 600 800 1000 FEET



wood river, ill.-mo.
quadrangle

Sites Identified on back.

1)- SCA/Barton

2)- SCA/Chain of Rocks

3)- SCA/ Milam

4)- Sauget/Sauget

5). Belleville/Mid-States

JUN 12 1981