

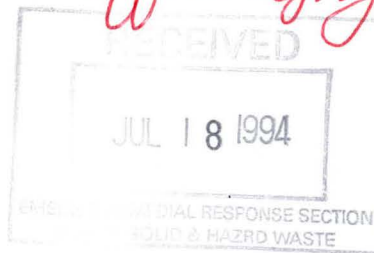


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*file - Moss Amer SF
FID# 241378280*

office copy

14 July 1994



Mr. Russell D. Hart
Remedial Project Manager
U.S. Environmental Protection Agency
Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Order No.: 02687-007-002

Re: Proposed Floodplain Soil Sampling Locations
Moss-American Site, Milwaukee, Wisconsin

Dear Mr. Hart:

Roy F. Weston, Inc. (WESTON®), on behalf of Kerr-McGee Chemical Corporation (KMCC) is hereby transmitting proposed soil sampling locations for Predesign Task 7 (Determine the Extent of CPAH Contamination in the Floodplain Along the New River Alignment). The primary objective of this predesign task, as explained in the approved Statement of Work, is to determine if high concentrations of CPAHs occur in the floodplain below the former wood preserving plant. The second objective is to evaluate the occurrence of CPAHs in the area of the new river alignment. Since a potential new river alignment has not yet been determined, the proposed sampling locations during 1994 field investigation will address the primary objective of this predesign task.

The October 1992 Predesign Work Plan for the site indicates that WESTON will identify areas of probable sediment deposition in the floodplain for each of the five river reaches of the Little Menomonee River defined by major east-west road crossings (Figure 1). This was completed under Predesign Task 10 (Study River and Floodplain Hydraulics), where the following areas pertinent to Predesign Task 7 were mapped:

- The 2-year floodplain (i.e., areas prone to flooding).
- Areas within the 2-year floodplain with water velocities less than 0.5 feet per second (i.e., flood-prone areas with sluggish water movement).

WESTON has selected floodplain sampling locations that are within the defined floodplain areas of sluggish flow along the river. These areas are likely to represent areas of historic deposition of stream sediments. When examining potential sample locations, WESTON used criteria mutually agreed to by WESTON, WDNR, and U.S. EPA during the Phase I soil CPAH background sample location selection process (Predesign Task 2) to avoid areas that might be influenced by non-site-related point sources such as roads and drainage ditches. The proposed floodplain sampling areas are listed below.





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Reach 1 (Figure 2)

East of Little Menomonee River, approximately 2,200 feet south of Brown Deer Road.

Reach 2 (Figure 3)

Area 1: East of Little Menomonee River, approximately 800 feet south of Bradley Road.
Area 2: East of Little Menomonee River, approximately 1,800 feet south of Bradley Road.
This reach did not have adequately sized flood-prone areas with sluggish water movement. The two proposed areas for this reach are within the 2-year floodplain.

Reach 3 (Figure 4)

East of Little Menomonee River, approximately 2,000 feet south of Good Hope Road.

Reach 4 (Figure 5)

West of Little Menomonee River, approximately 600 feet south of Mill Road.

Reach 5 (Figure 6)

East of Little Menomonee River, north of foot bridge across river.

In each reach (with the exception of Reach 2) seven samples will be collected at randomly selected locations within the floodplain areas of sluggish flow along the river. In Reach 2, seven samples will be collected at randomly selected locations within the two proposed areas within the 2-year floodplain. Up to three additional samples in each area will be collected at the WESTON Field Team Leader's discretion. Discretionary sampling will focus on low-lying areas within the target areas to ensure that random sampling does not omit probable sediment deposition areas. All sampling will be conducted in accordance with the Predesign Work Plan and is currently scheduled to begin on 29 August 1994. In an effort to expedite this review and obtain U.S. EPA's concurrence with these sampling locations in advance of the start date, we suggest that U.S. EPA's oversight representatives and WESTON's Task



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Manager conduct a field review of the planned sampling locations. Please contact us at (708) 918-4000 to schedule this field review.

Very truly yours,

ROY F. WESTON, INC.

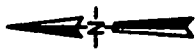
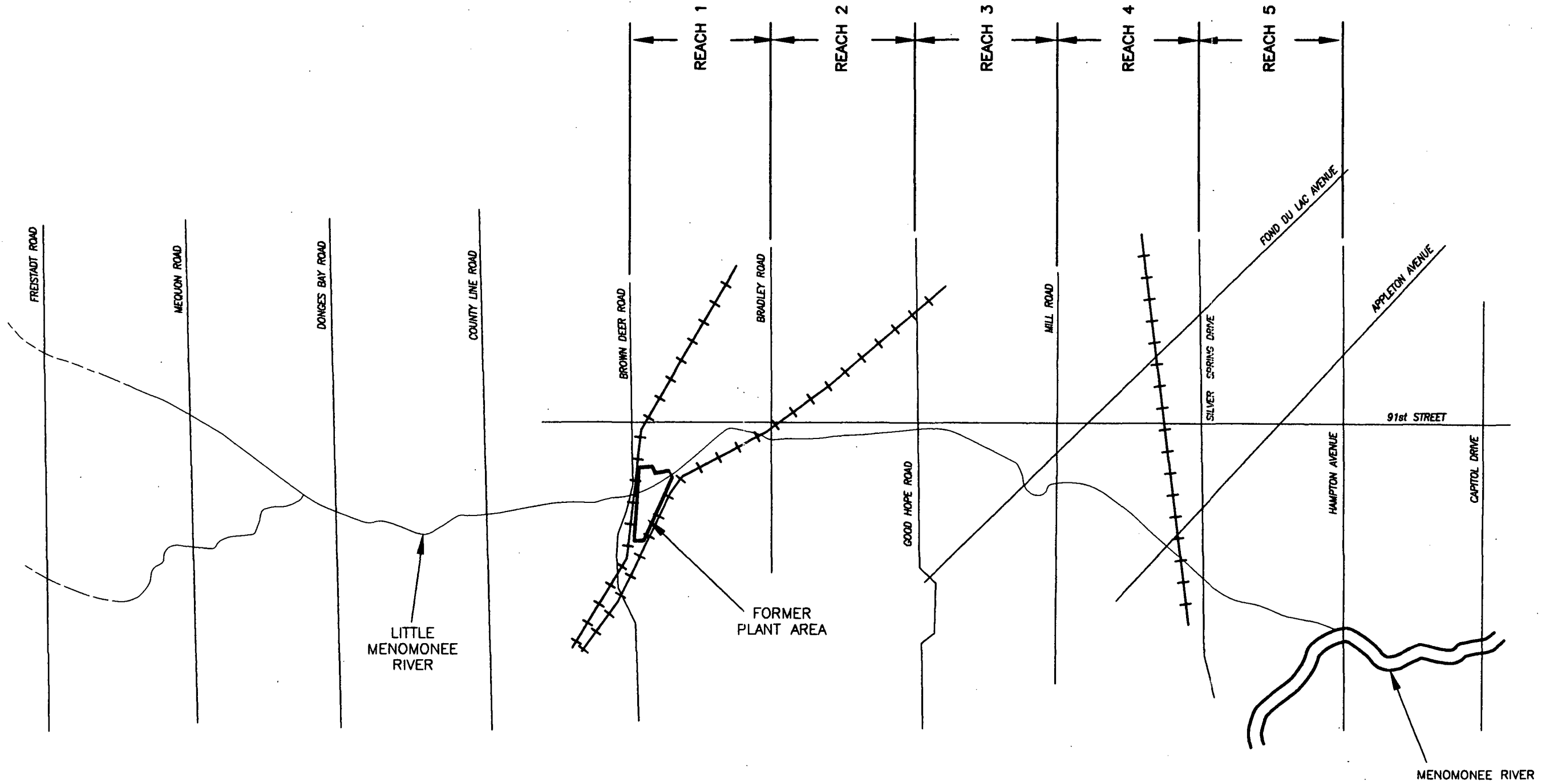
Gary J. Deigan
Principal Project Manager

Kurt S. Stimpson
Project Director

GJD:KSS/slr
Enclosures

cc: A. Keith Watson, KMCC
Gary Edelstein, WDNR
Rich Schultz, WESTON

BK-06/23/94-14:26-CAD93\SYMBOL\B



WESTON
MANAGERS DESIGNERS/CONSULTANTS

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60061

FIGURE 1

PROPOSED SAMPLING AREAS
OCCURRENCE OF CPAHS IN FLOOD PLAIN
MOSS-AMERICAN SITE
Milwaukee, Wisconsin

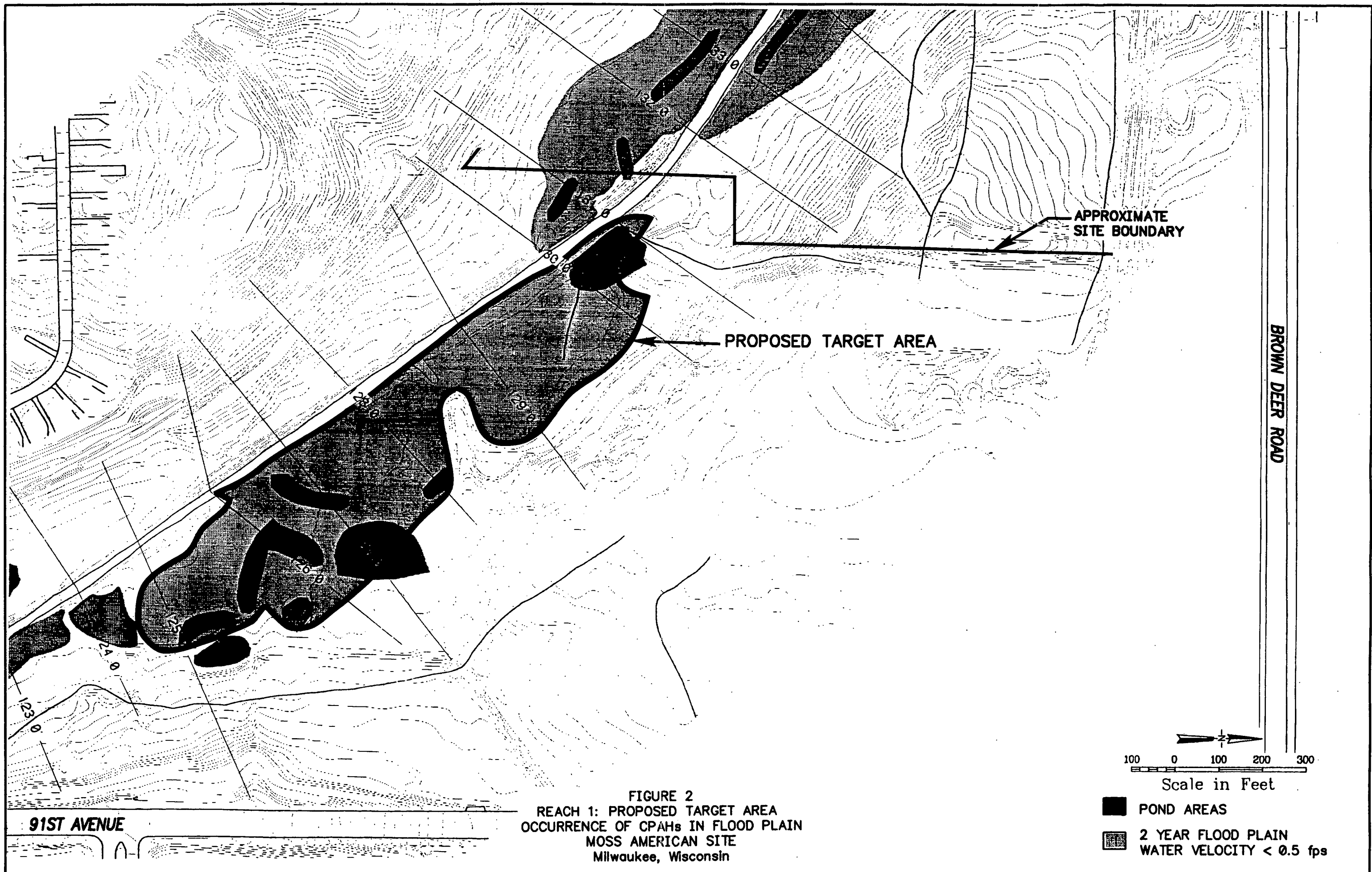


FIGURE 2
 REACH 1: PROPOSED TARGET AREA
 OCCURRENCE OF CPAHs IN FLOOD PLAIN
 MOSS AMERICAN SITE
 Milwaukee, Wisconsin

Scale in Feet

100 0 100 200 300

■ POND AREAS
 ▨ 2 YEAR FLOOD PLAIN
 WATER VELOCITY < 0.5 fps

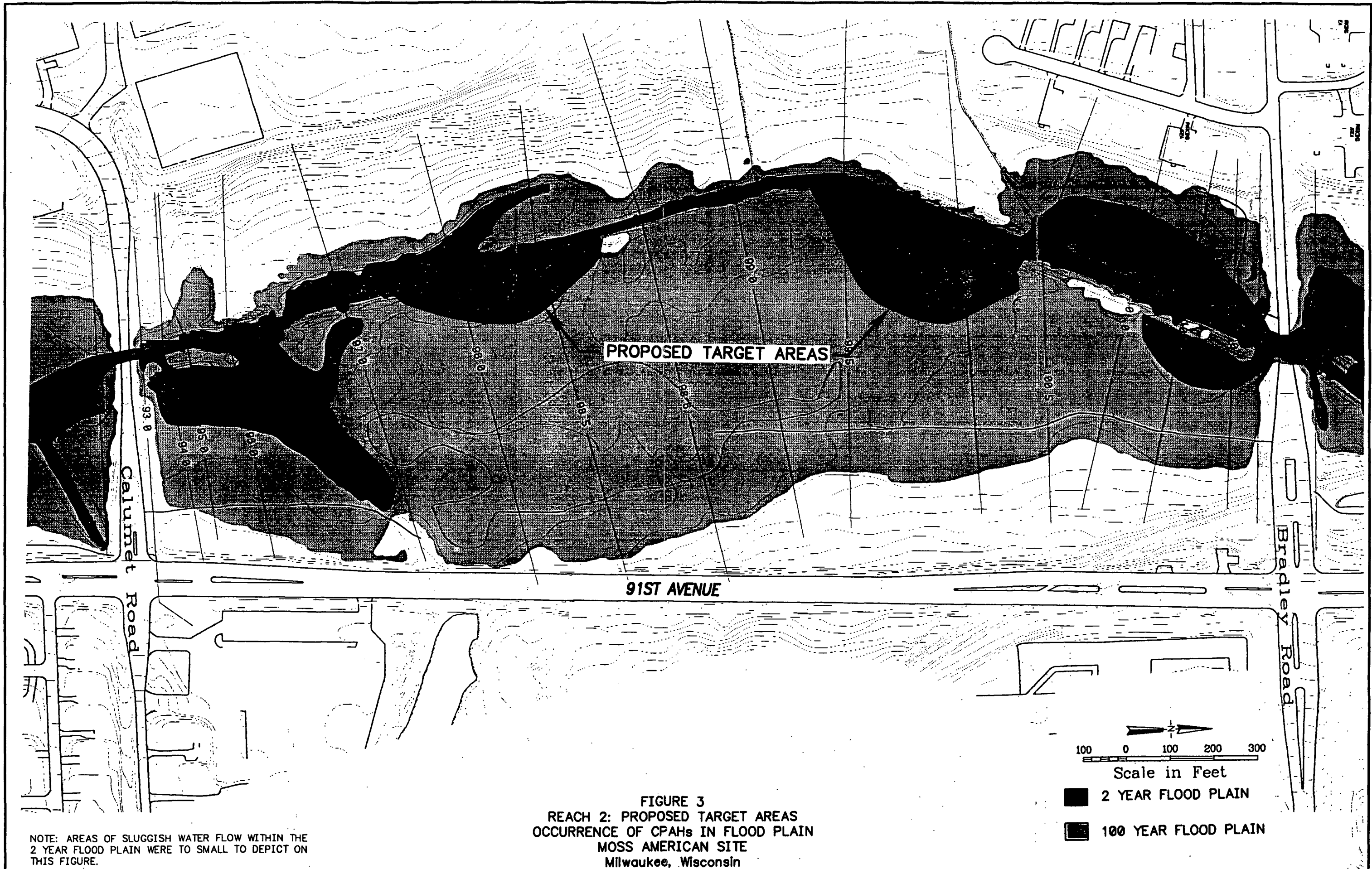


FIGURE 3
 REACH 2: PROPOSED TARGET AREAS
 OCCURRENCE OF CPAHs IN FLOOD PLAIN
 MOSS AMERICAN SITE
 Milwaukee, Wisconsin

NOTE: AREAS OF SLUGGISH WATER FLOW WITHIN THE 2 YEAR FLOOD PLAIN WERE TOO SMALL TO DEPICT ON THIS FIGURE.

100 0 100 200 300
 Scale in Feet
 ■ 2 YEAR FLOOD PLAIN
 ■ 100 YEAR FLOOD PLAIN

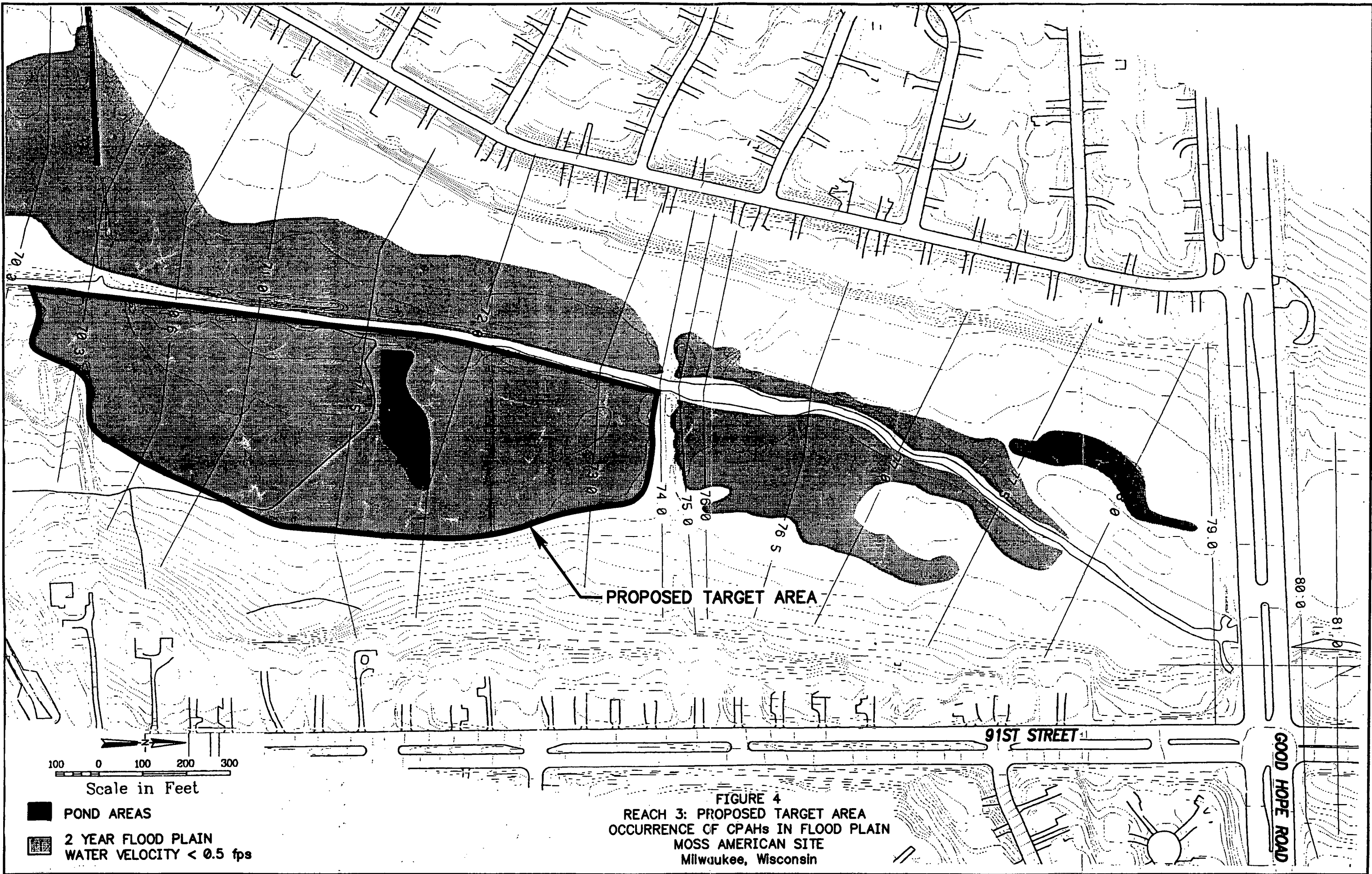
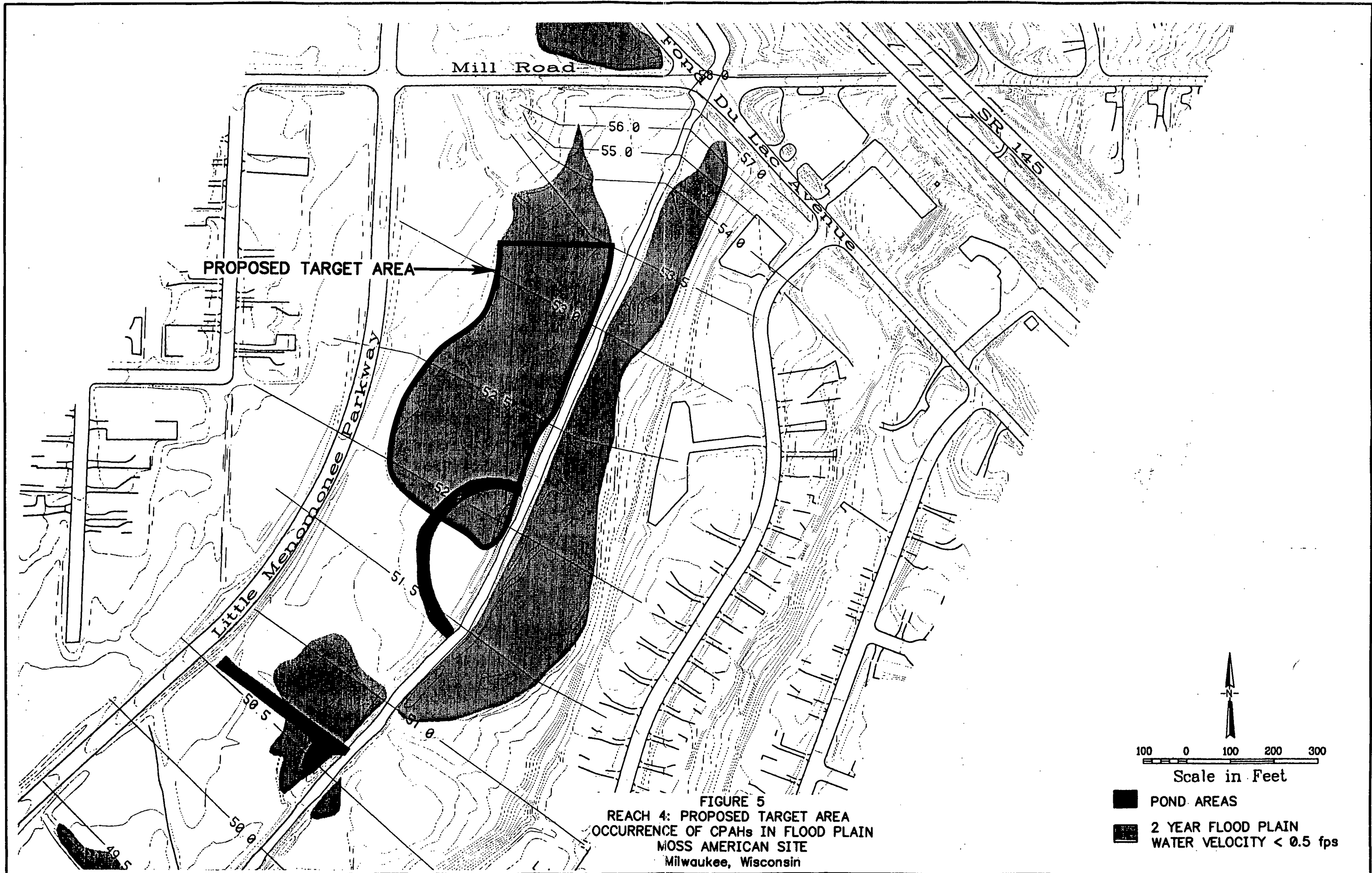
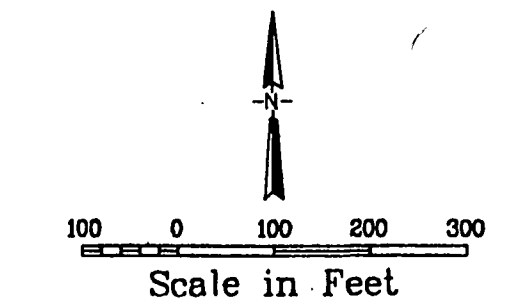


FIGURE 4
 REACH 3: PROPOSED TARGET AREA
 OCCURRENCE OF CPAHs IN FLOOD PLAIN
 MOSS AMERICAN SITE
 Milwaukee, Wisconsin



PROPOSED TARGET AREA

FIGURE 5
 REACH 4: PROPOSED TARGET AREA
 OCCURRENCE OF CPAHs IN FLOOD PLAIN
 MOSS AMERICAN SITE
 Milwaukee, Wisconsin



- POND AREAS
- 2 YEAR FLOOD PLAIN
WATER VELOCITY < 0.5 fps

