

MEMORANDUM

TO: File 536
FROM: Bill Warren, O&M Superintendent
SUBJECT: Platte River Ice Thickness Measurement Along Union Dike
DATE: January 7, 2014

On January 7, 2014, the writer performed ice thickness measurements on the Platte River. The measurements were taken perpendicular to the river flow, near the dike's 10 jetty project location, near Werner Property south line, at approximately Station 155+00 (1.1 miles upstream of Highway 64).

A gas powered auger was used to drill the holes. The location of the holes on the table below were measured (stepped off) from the east bank of the Platte River. Ice was too thin past 420 ft. hole to permit ice boring.

Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top of Ice to River Bed (Inches)
40	14.0	22.0
140	12.0	38.0
240	13.0	30.0
420*	11.0	38.0

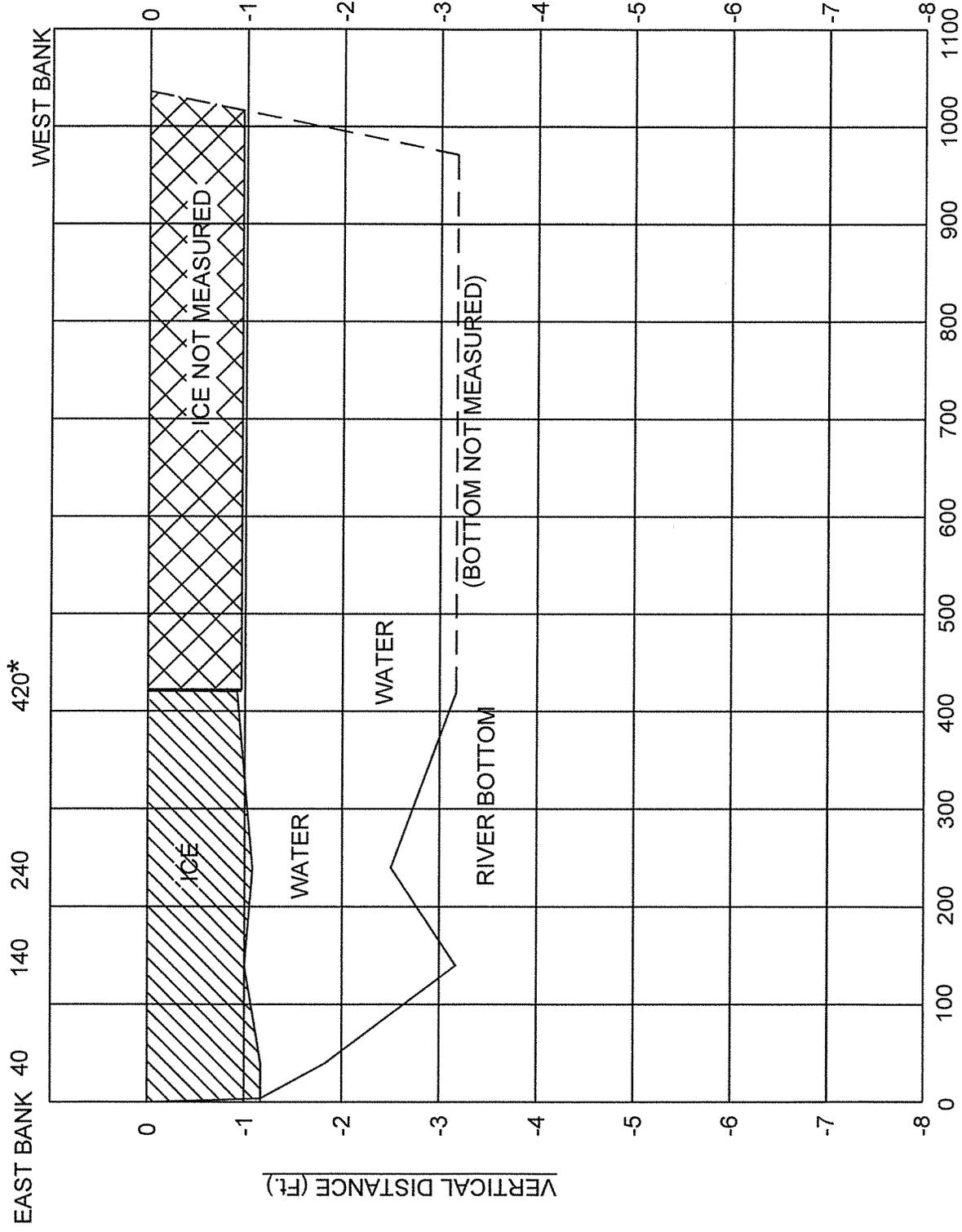
*This hole is located about 580 feet from the west bank of the river. The average ice thickness is **12.5 inches**.

Enclosure

CC: John Winkler, Marlin J. Petermann, Martin Cleveland, Amanda Grint,
Emmett Egr, and Directors, P-MRNRD
Mary Baker, NEMA
Bill Jones, NDNR
David Pearson, NWS
Kim Thomas, USACE

PLATTE RIVER: 1.1 Miles Upstream of Hwy. 64 (STA. 155+00, UNION DIKE)

(Werner Property)



*Hole location is approx. 580' from the west bank.
January 7th, 2014

HORIZONTAL DISTANCE (Ft.)

WEST 
Looking Downstream

PAPIO-MISSOURI RIVER
NATURAL
RESOURCES
DISTRICT
8901 S. 154th St.
Omaha, NE 68138-3621

MEMORANDUM

TO: File 536
FROM: Bill Warren, O&M Superintendent
SUBJECT: Platte River Ice Thickness Measurement Along Western Sarpy Levee
DATE: January 7, 2014

On January 7, 2014, the writer performed ice thickness measurements on the Platte River. The measurements were taken perpendicular to the river flow, near the levee in Beacon View area, at approximately Station 31+00 (0.6 miles upstream of BNSFRR).

A gas powered auger was used to drill the holes. The location of the holes on the table below were measured (stepped off) from the east bank of the Platte River. Ice was too thin past 350 ft. hole to permit ice boring.

Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top of Ice to River Bed (Inches)
50	10.0	26.0
150	11.0	22.0
250	12.0	39.0
350*	12.0	23.0

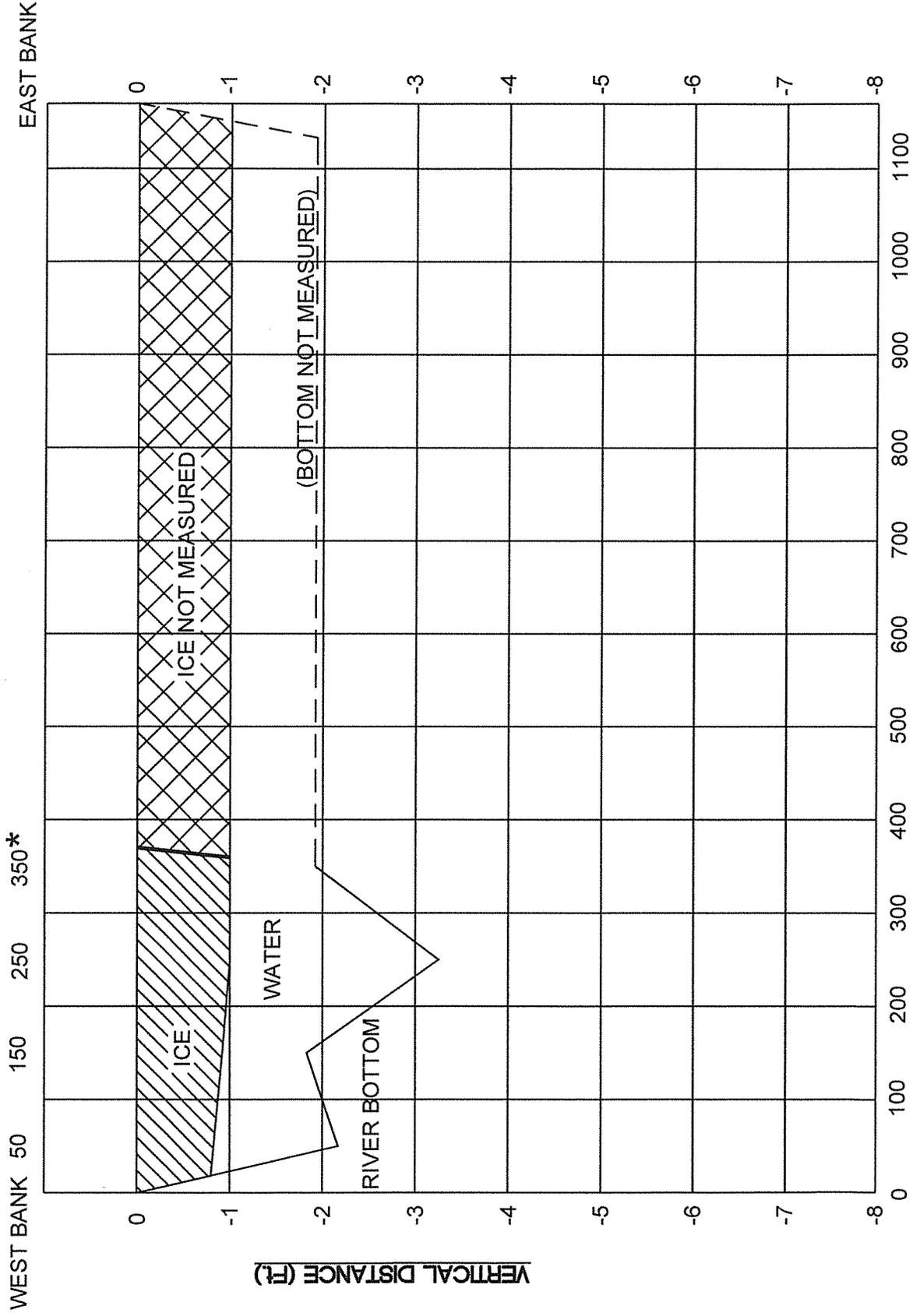
*This hole is located about 800 feet from the west bank of the river. The average ice thickness is **11 inches**.

Enclosure

CC: John Winkler, Marlin J. Petermann, Martin Cleveland, Amanda Grint,
Emmett Egr, and Directors, P-MRNRD
Mary Baker, NEMA
Bill Jones, NDNR
David Pearson, NWS
Kim Thomas, USACE

PLATTE RIVER: 0.6 MILES UPSTREAM OF BNSFRR (STA. 31+00 WESTERN SARPY LEVEE)

(NEAR CAMP ASHLAND)



EAST 
Looking Upstream

HORIZONTAL DISTANCE (Ft.)

*Hole Location is approx. 800'
from the East bank.
January 7th, 2014