

MEMORANDUM

TO: File 536
FROM: Bill Warren, O&M Superintendent
SUBJECT: Platte River Ice Thickness Measurement Along Union Dike
DATE: February 4, 2014

On February 4, 2014, Pat McEvoy 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. There was an open water area beyond the last boring, so it was not possible to drill additional holes.

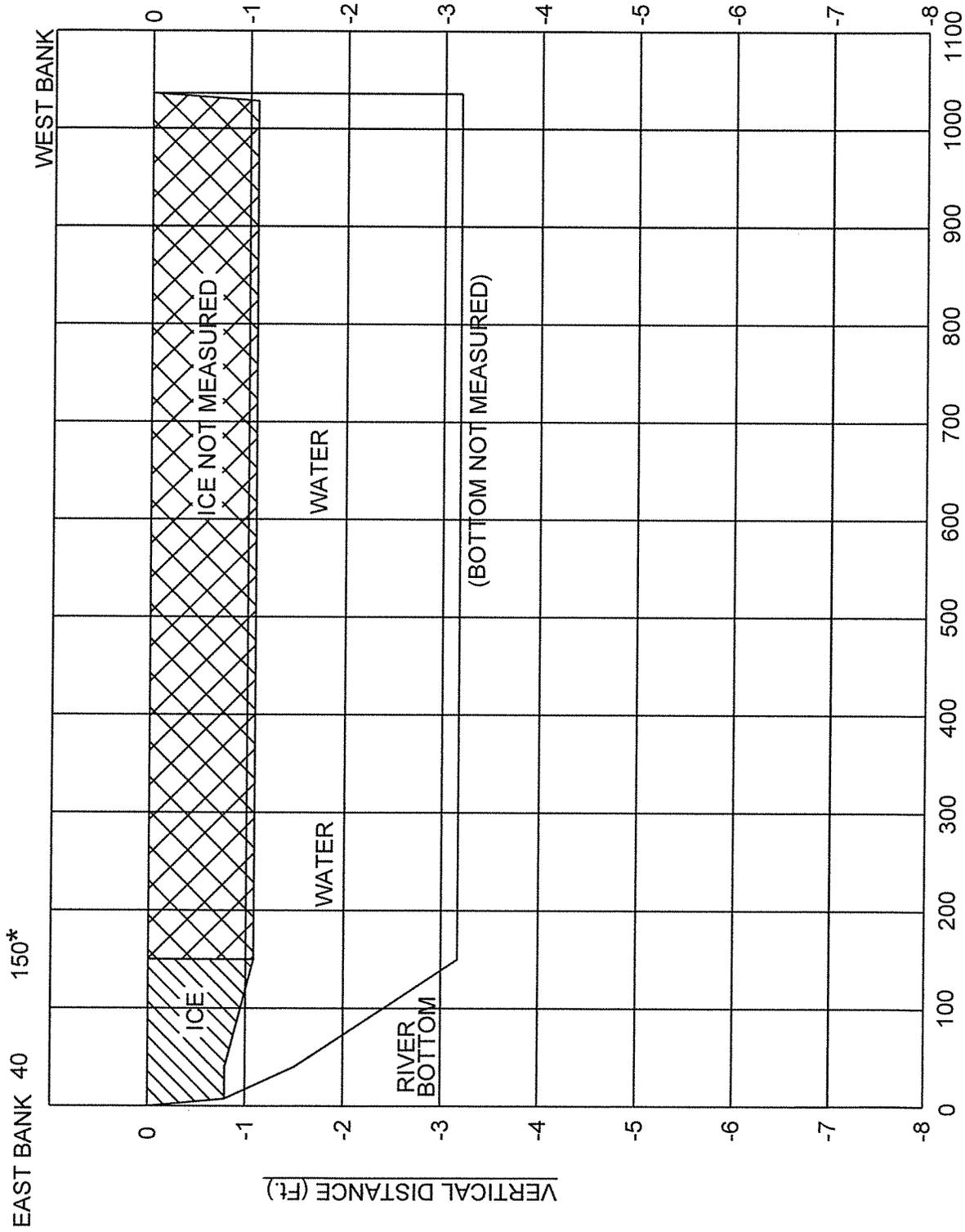
Distance From East Bank (Feet)	Ice Thickness (Inches)	Depth From Top of Ice to River Bed (Inches)
40	9.5	18.0
150*	13.0	38.0

*This hole is located about 850 feet from the west bank of the river. The average ice thickness is **11.3 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. 850' from the west bank.
 February 4th, 2014

HORIZONTAL DISTANCE (Ft.)



WEST

Looking Downstream