

Attachment G
Stream and Lake Classifications

TABLE 1
Information for Streams with Baseflow Changes

Name (WBIC)	Special Designation (Trout Stream, ORW, ERW, none)	Natural Community	Watershed area (acres)	Sources of Data
Pebble Brook (769500)	None ¹	Cool (Warm Transition) Mainstem, Cool (Warm Transition) Headwater	Middle Fox River Watershed – 17.8 square miles	WDNR Presto Model.
Fox River (742500)	None	Cool (Warm Transition Headwater)	Middle Fox River Watershed – 126 square miles	Real-time data from USGS website at http://waterdata.usgs.gov/wi/nwis/uv/?site_no=05543830&PARA meter_cd=00065,00060 . Gage number 05543830 at Waukesha, WI.
Pebble Creek (771300)	Trout Water	Cool (Cold Transition) Headwater, Cool (Warm Transition) Headwater	Upper Fox River Watershed – 18.2 square miles	WDNR Presto Model.
Mill Brook (769400)	Trout Water	Cool (Warm Transition Headwater)	Lies within Middle Fox River Watershed	Watershed acreage unavailable. No stream gage and stream not identified in WDNR Presto Model.
Root River (2900)	None	Cool (Warm Transition) Mainstem, Warm Headwater, Warm Mainstem, Cool (Warm Transition), Headwater	Root River Watershed – 14.7 square miles	Real-time data from USGS website at http://waterdata.usgs.gov/wi/nwis/uv/?site_no=04087214&PARA meter_cd=00065,00060 . Gage number 04087214 at Grange Avenue at Greenfield, WI.
Menomonee River (16000)	None	Warm Mainstem	Menomonee River Watershed – 123 square miles	Real-time data from USGS website at http://waterdata.usgs.gov/wi/nwis/uv/?site_no=04087120&PARA meter_cd=00065,00060 . Gage number 04087120 at Wauwatosa, WI.
Underwood Creek (16700)	None	Warm Mainstem	Menomonee River Watershed – 18.2 square miles	Real-time data from USGS website at http://waterdata.usgs.gov/wi/nwis/uv/?site_no=04087088&PARA meter_cd=00065,00060 . Gage number 04087088 at Wauwatosa, WI.

TABLE 1

Information for Streams with Baseflow Changes

Name (WBIC)	Special Designation (Trout Stream, ORW, ERW, none)	Natural Community	Watershed area (acres)	Sources of Data
Bark River (813500)	None	Warm Mainstem	Bark River Watershed – 186 square miles	
Battle Creek (848300)	None	Warm Headwater	Lies within Oconomowoc River Watershed	

¹ Listed as “Cold Water Stream” in *The State of the Southeast Fox River Basin*, February, 2002, PUBL WT-701-2002, WDNR.

TABLE 2

Lakes – Lakes located in the 1 ft drawdown contour of shallow aquifers

Name (with WBIC)	Size	Maximum Depth	Natural Community (if available)	Control Structure Present (yes/no)
Saylesville Millpond (770100)	44 acres	4 feet	Drainage	Yes
Unnamed (5576154) (NE of Saylesville Millpond)	4 acres	No Information	No Information	No
Unnamed (5576582) (near Mill Creek)	No Information	No Information	No Information	No Information
Silver Lake (779800)	217 acres	44 feet	Deep Seepage	No
Upper Genesee Lake (788500)	32 acres	27 feet	Deep Headwater, Spring	No
Middle Genesee Lake (778300)	98 acres	40 feet	Deep Seepage Seepage	No
Laura Lake (848500)	9 acres	11 feet	Small Drainage	No
Unnamed Lake (5575037) (near Delafield)	13 acres	No Information	No Information	No Information
Duck Lake (775500)	21 acres	1 foot	Shallow Seepage	No

Notes: Data sources include GoogleEarth, the Wisconsin DNR Surface Water Viewer, and the Wisconsin DNR lake information database (searched by WBIC at <http://dnr.wi.gov/lakes/lakepages/Search.aspx>). In some cases, information for unnamed lakes was not available.

Attachment H
Spring Maps

FIGURE H-1 SHALLOW AQUIFER WITH FOX RIVER ALLUVIUM ONE FOOT DRAWDOWN AREA AND SPRINGS

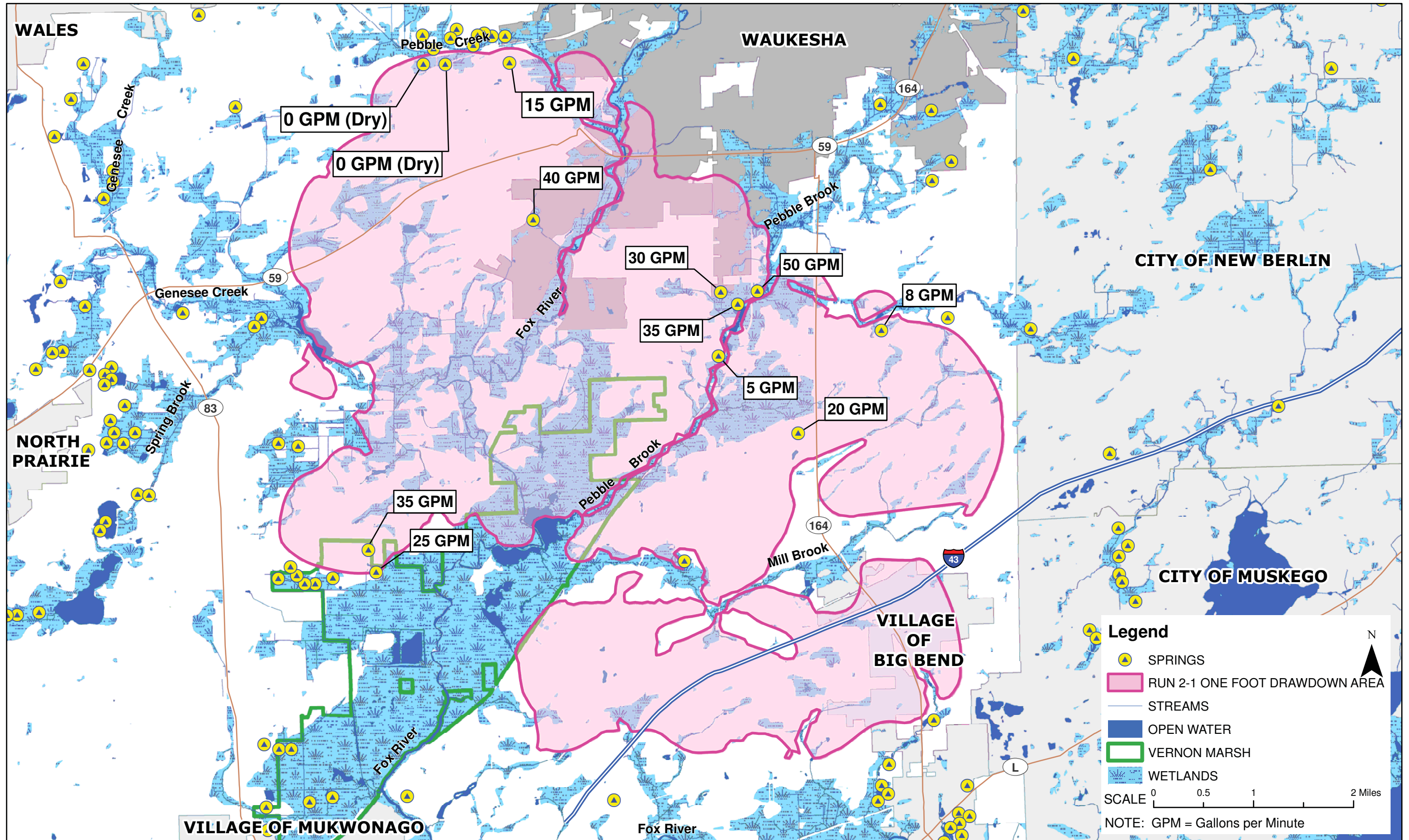
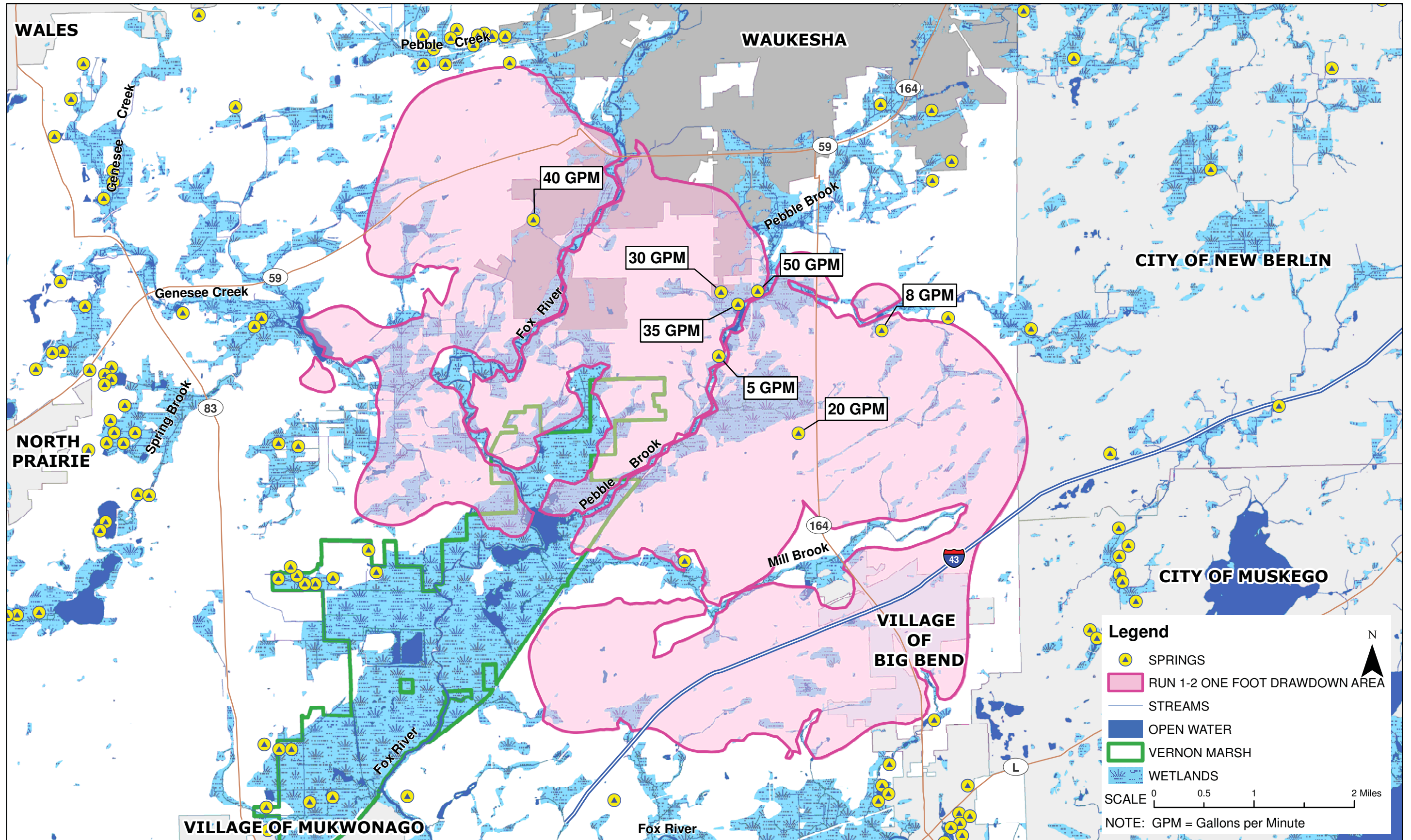


FIGURE H-2 DEEP AND SHALLOW AQUIFERS ONE FOOT DRAWDOWN AREA AND SPRINGS



**FIGURE H-3 WESTERN UNCONFINED AQUIFER
AT 10 MGD ONE FOOT DRAWDOWN AREA AND SPRINGS**

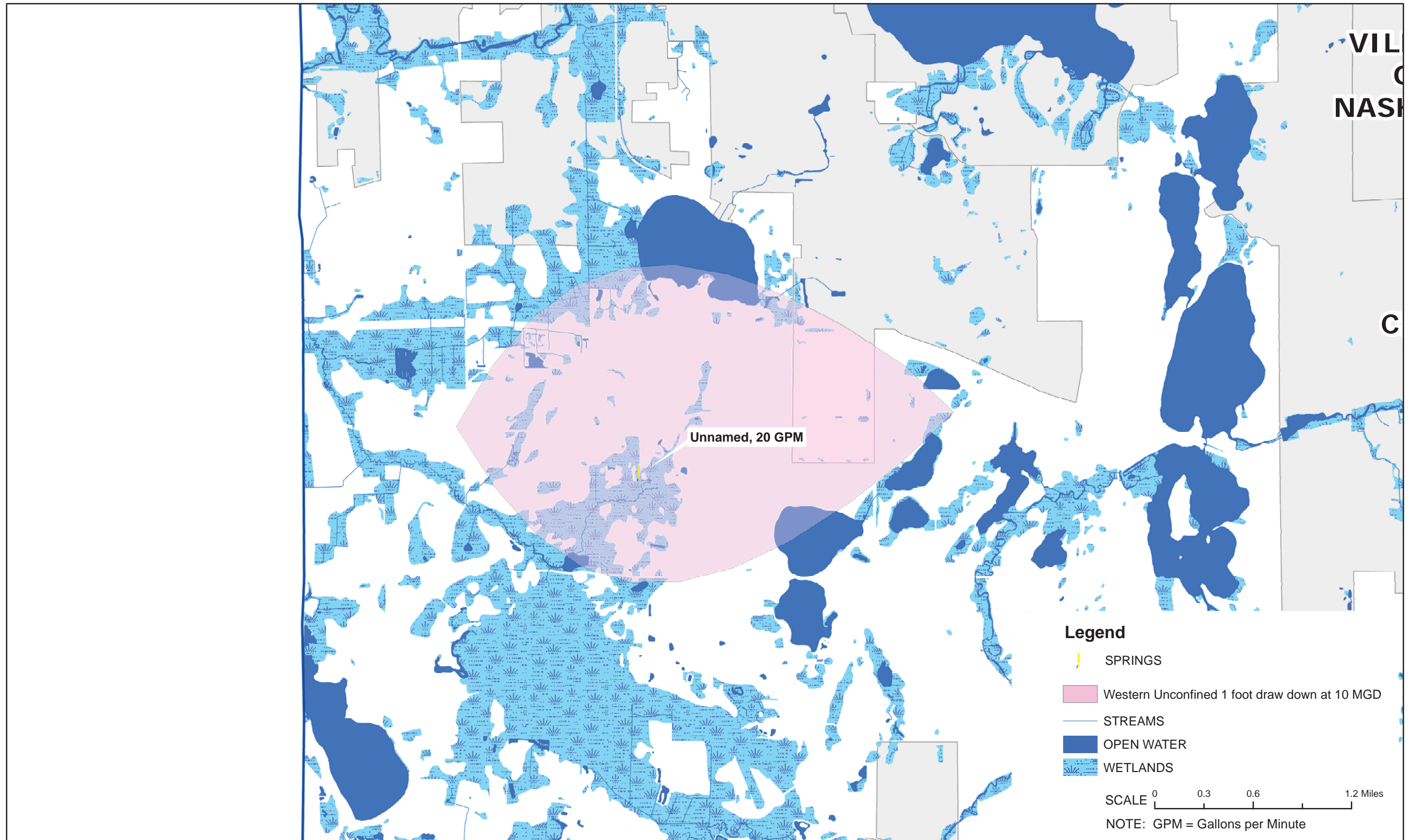


FIGURE H-4 1 MILE RADIUS AROUND THE POTENTIAL DOLOMITE WELLS AND SPRINGS

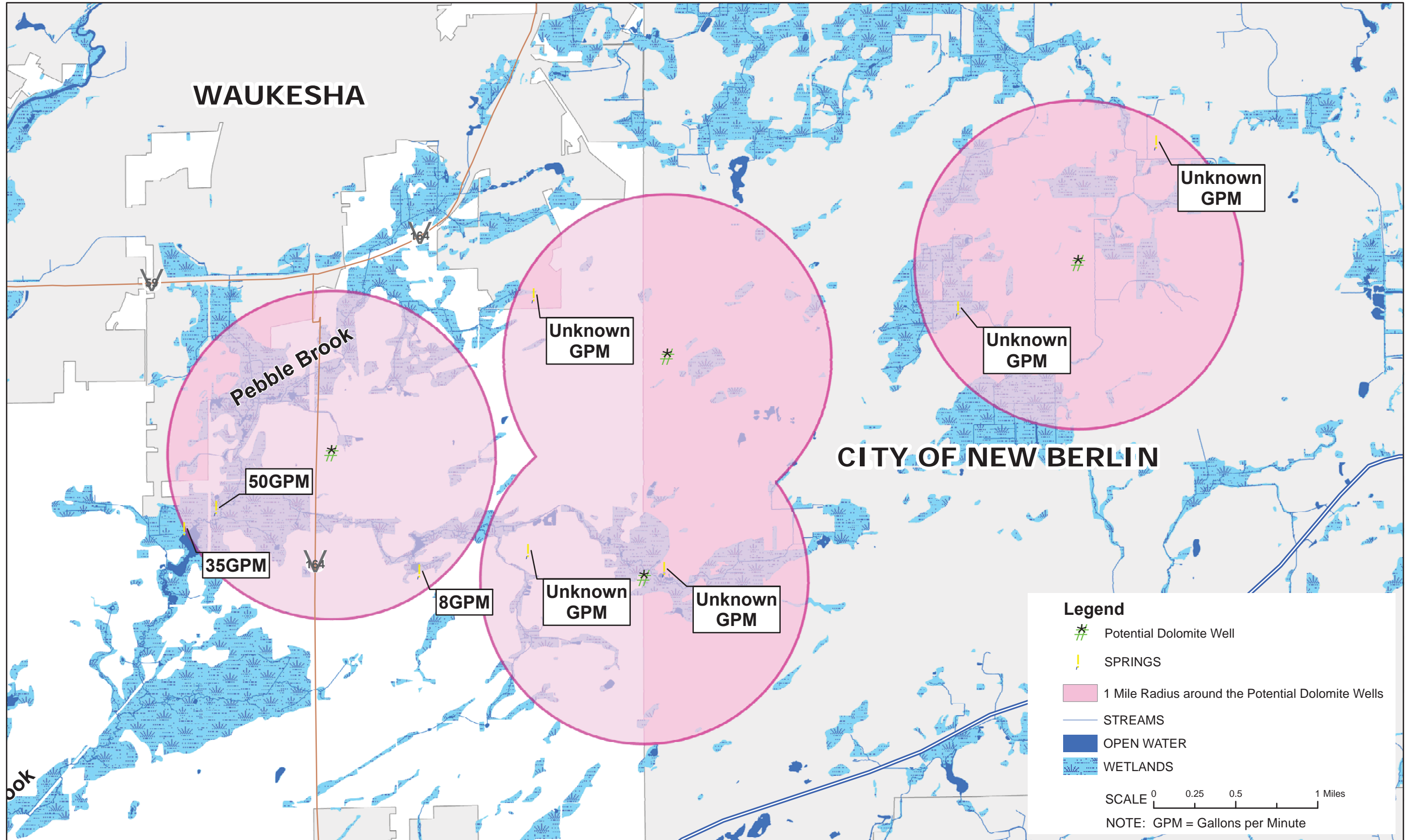
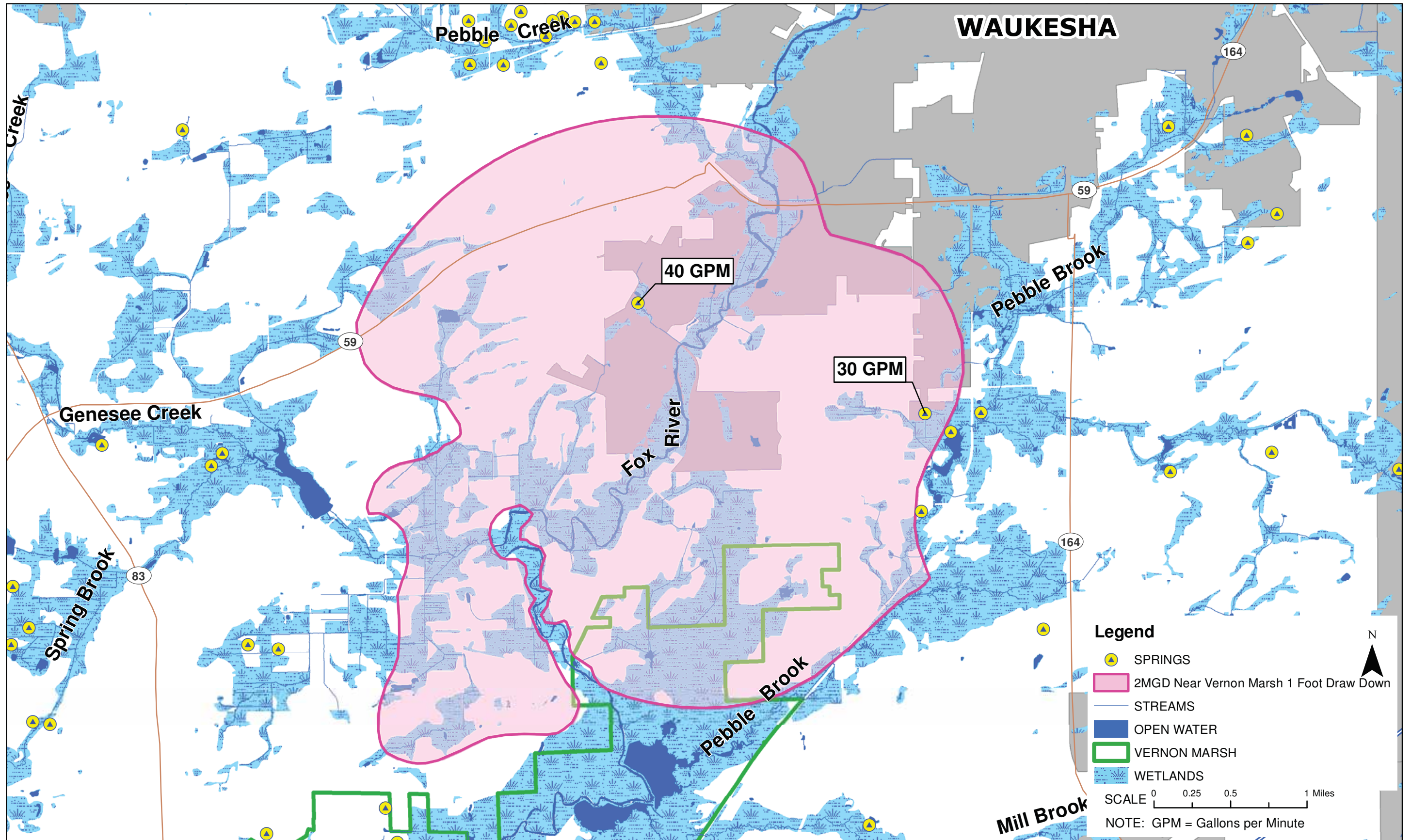
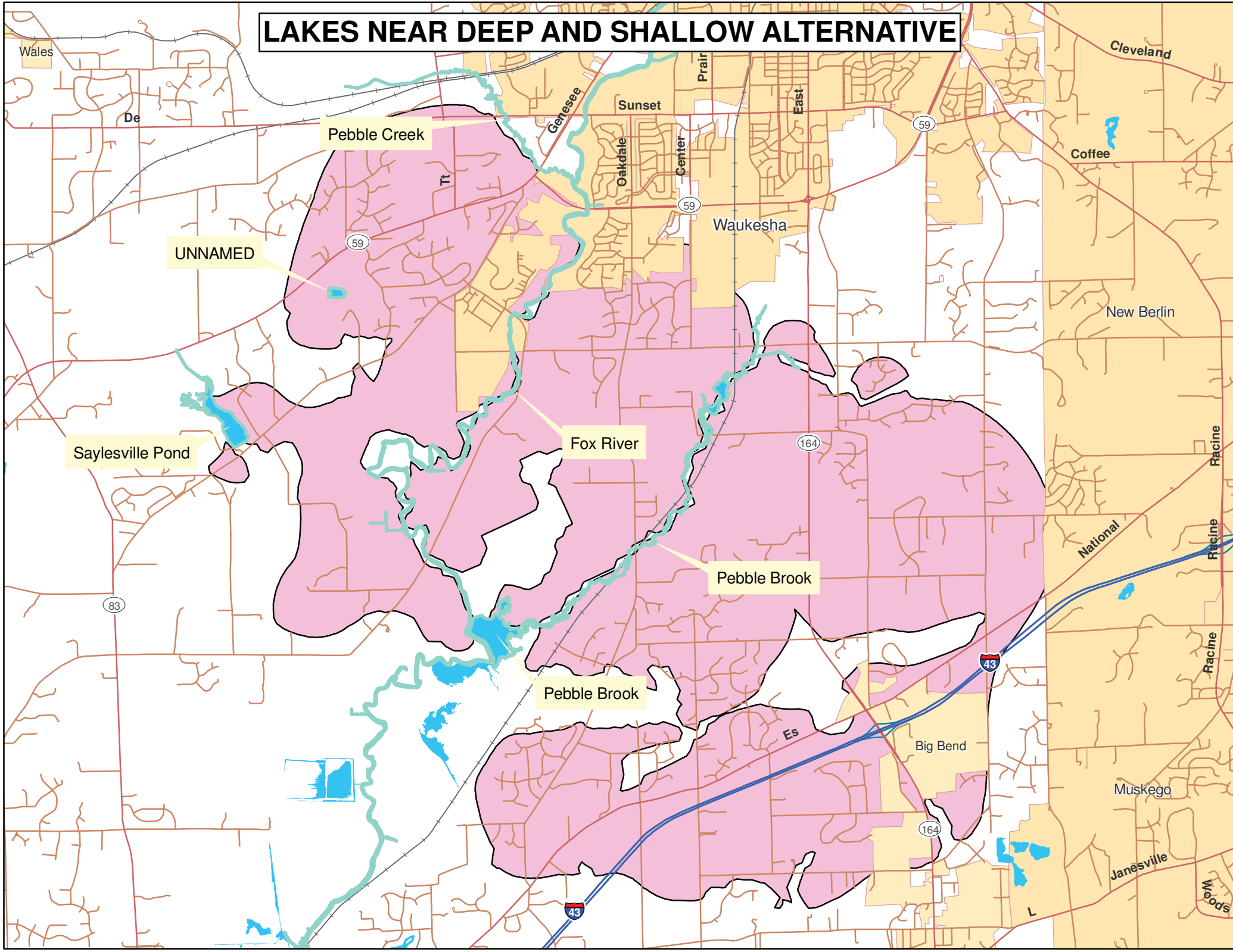


FIGURE H-5 2MGD NEAR VERNON MARSH ON FOOT DRAWDOWN AREA AND SPRINGS

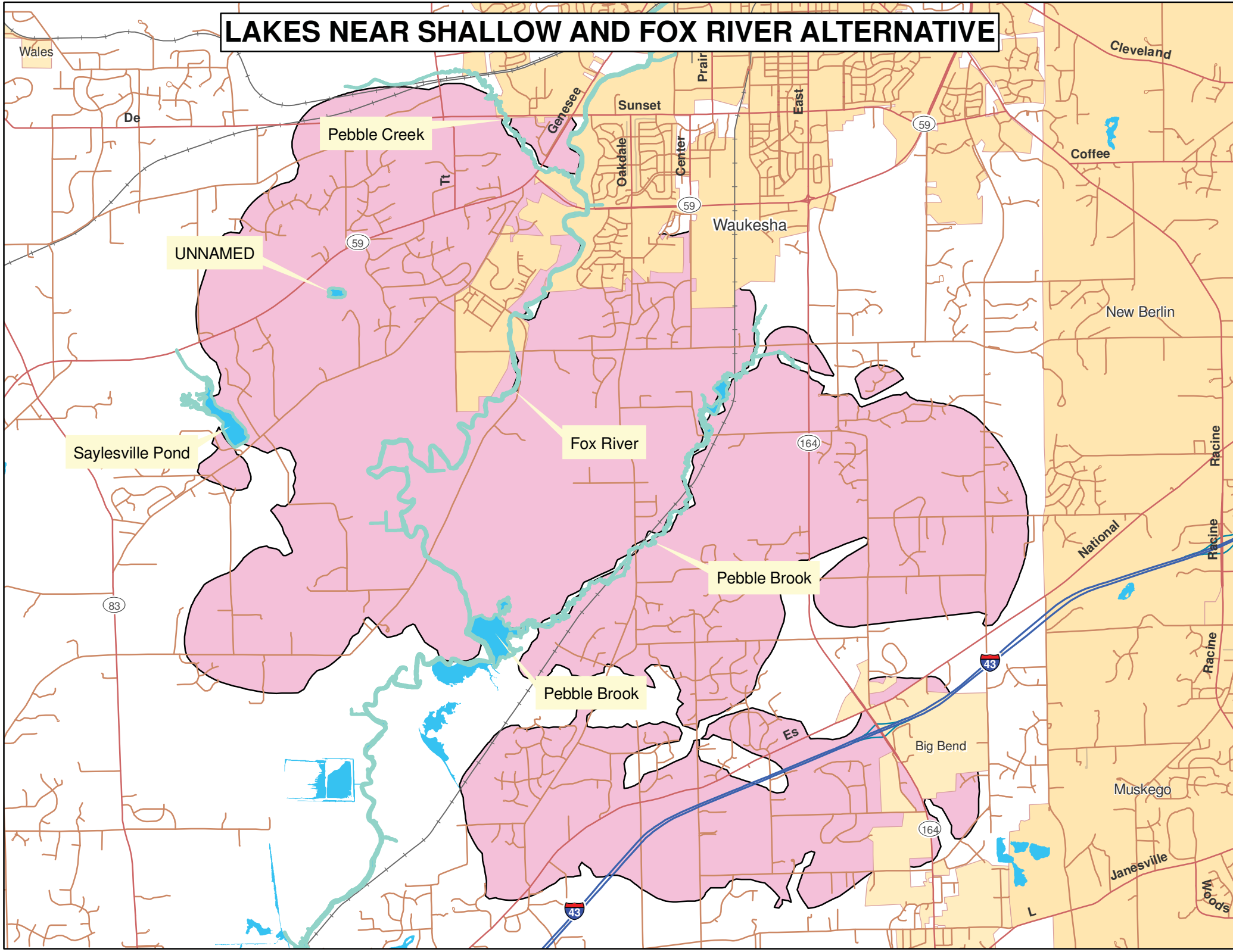


Attachment I
Lake Maps

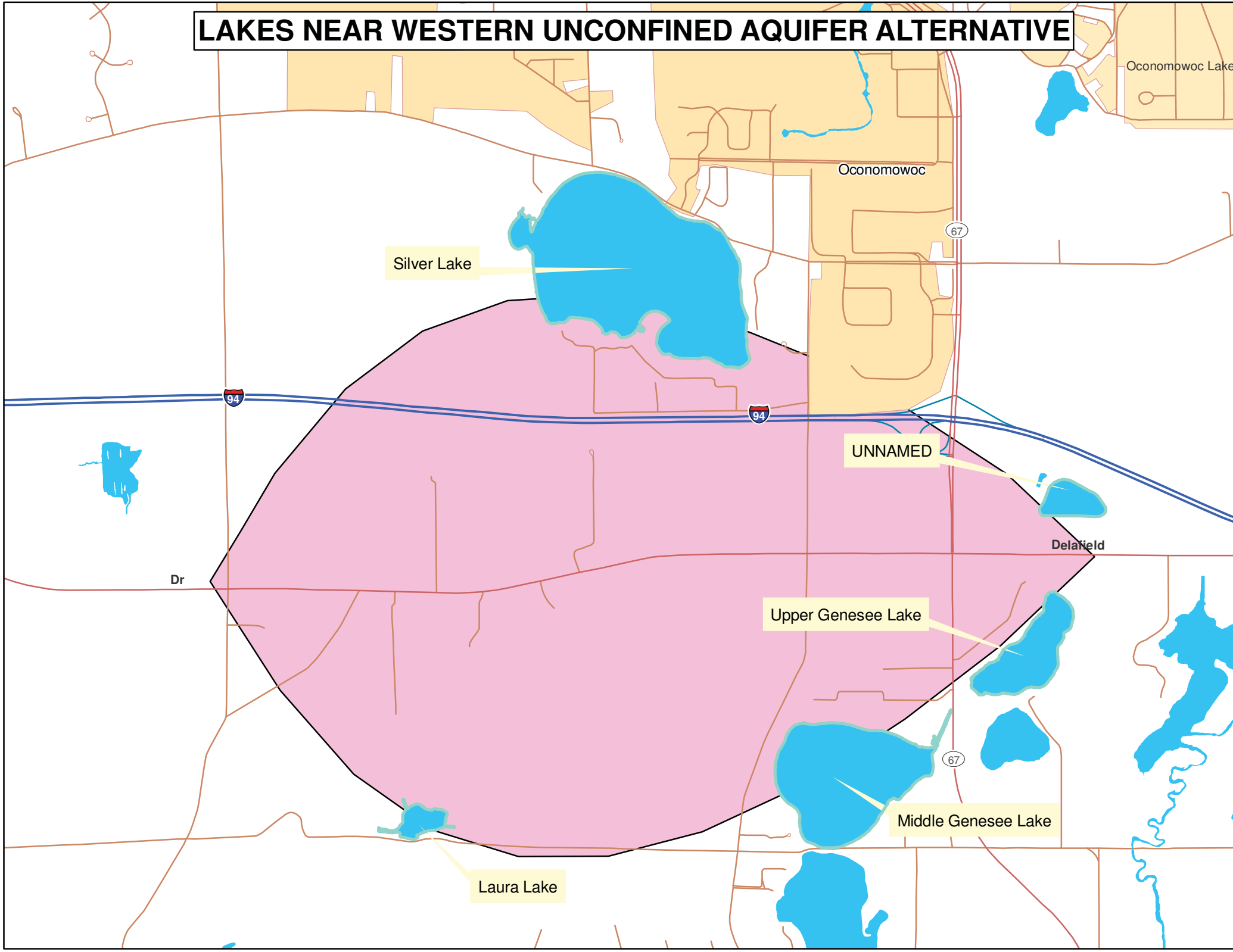
LAKES NEAR DEEP AND SHALLOW ALTERNATIVE



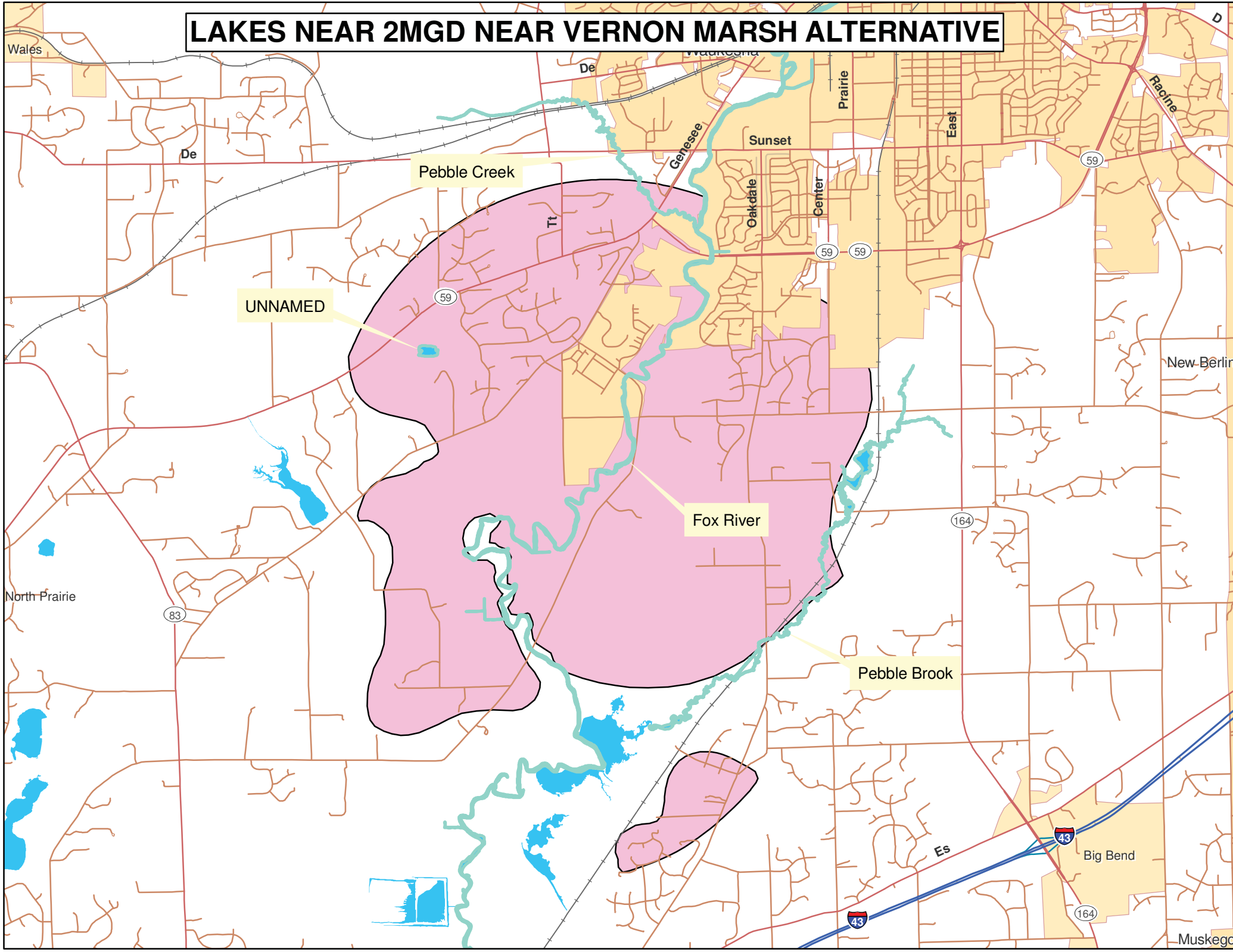
LAKES NEAR SHALLOW AND FOX RIVER ALTERNATIVE



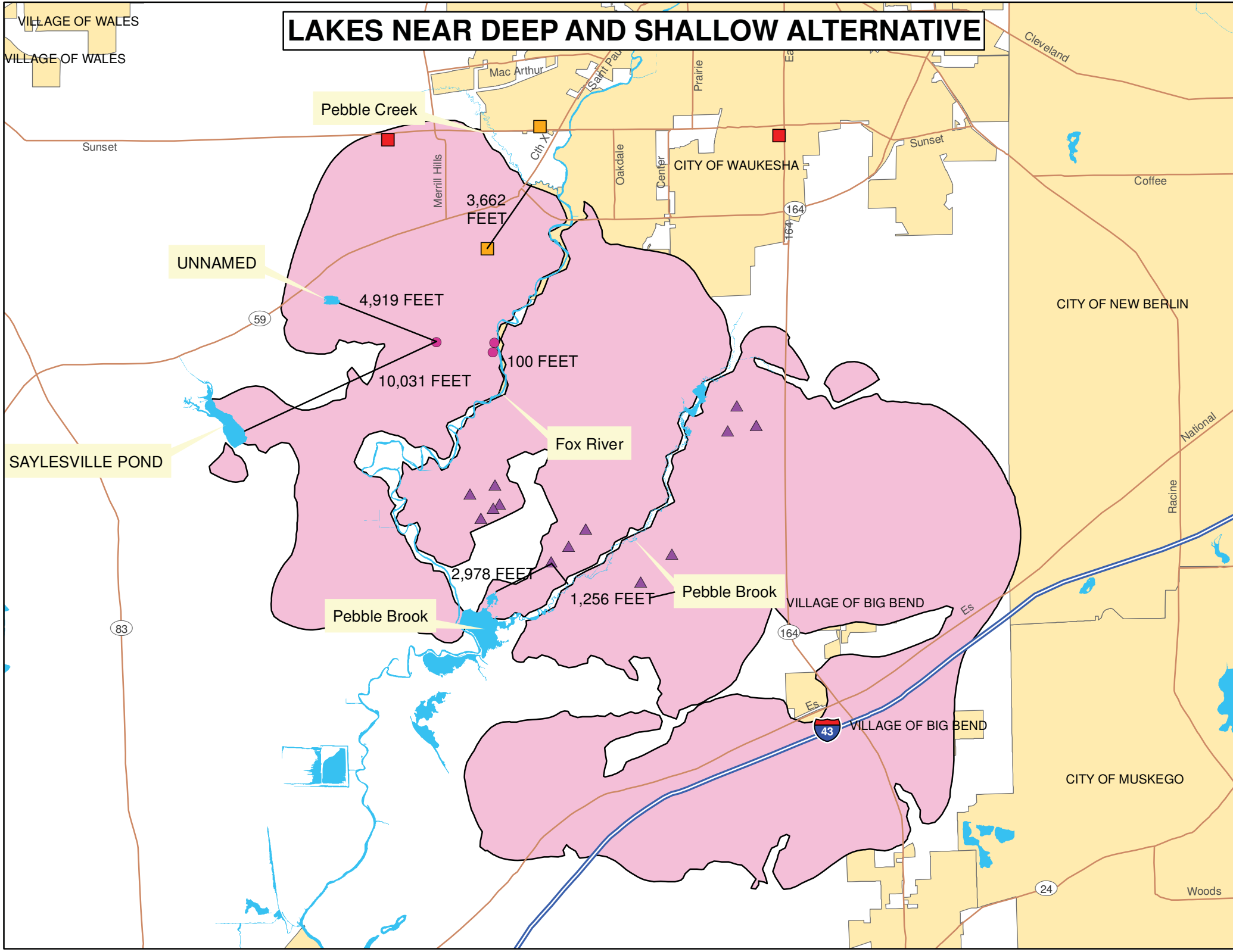
LAKES NEAR WESTERN UNCONFINED AQUIFER ALTERNATIVE



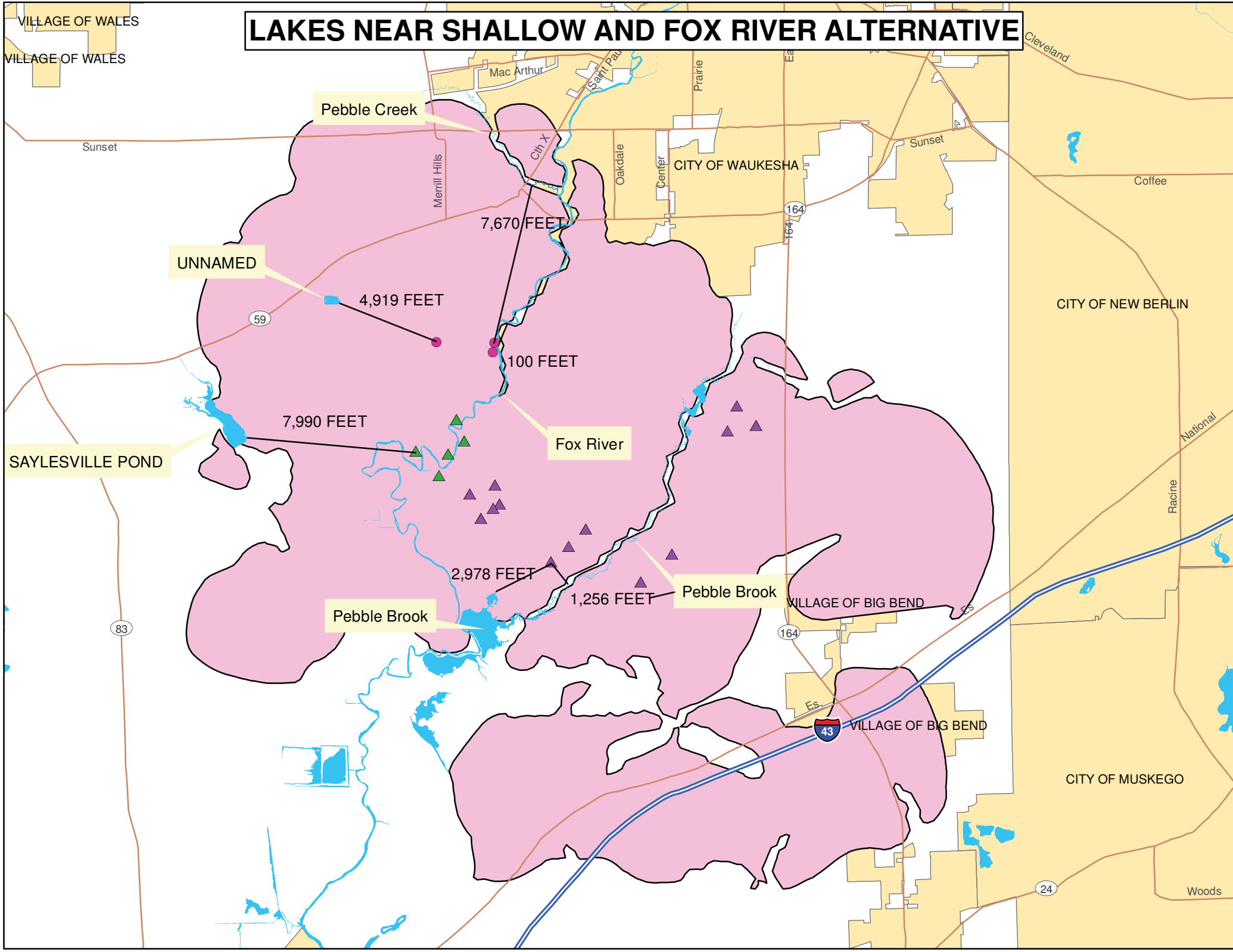
LAKES NEAR 2MGD NEAR VERNON MARSH ALTERNATIVE



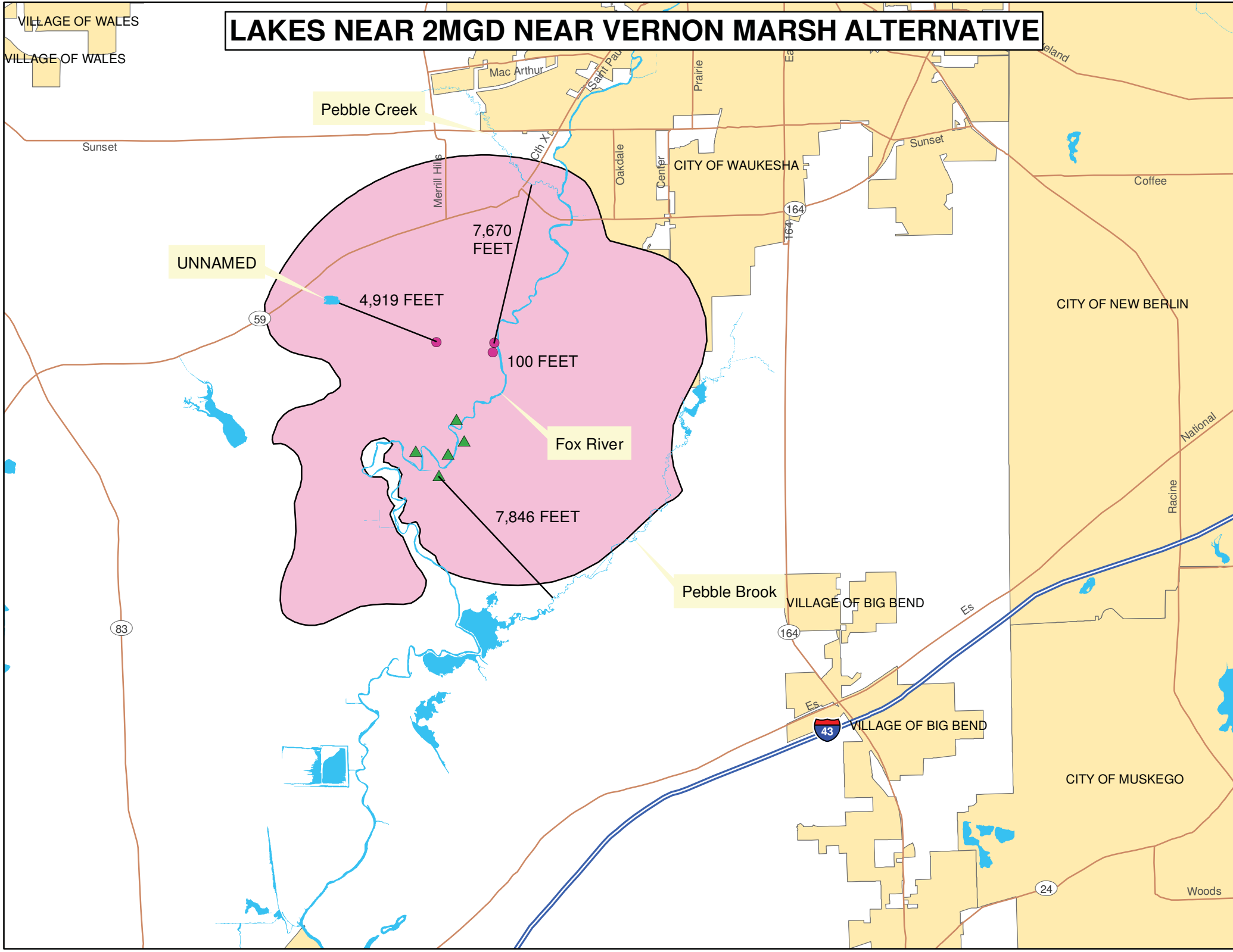
LAKES NEAR DEEP AND SHALLOW ALTERNATIVE



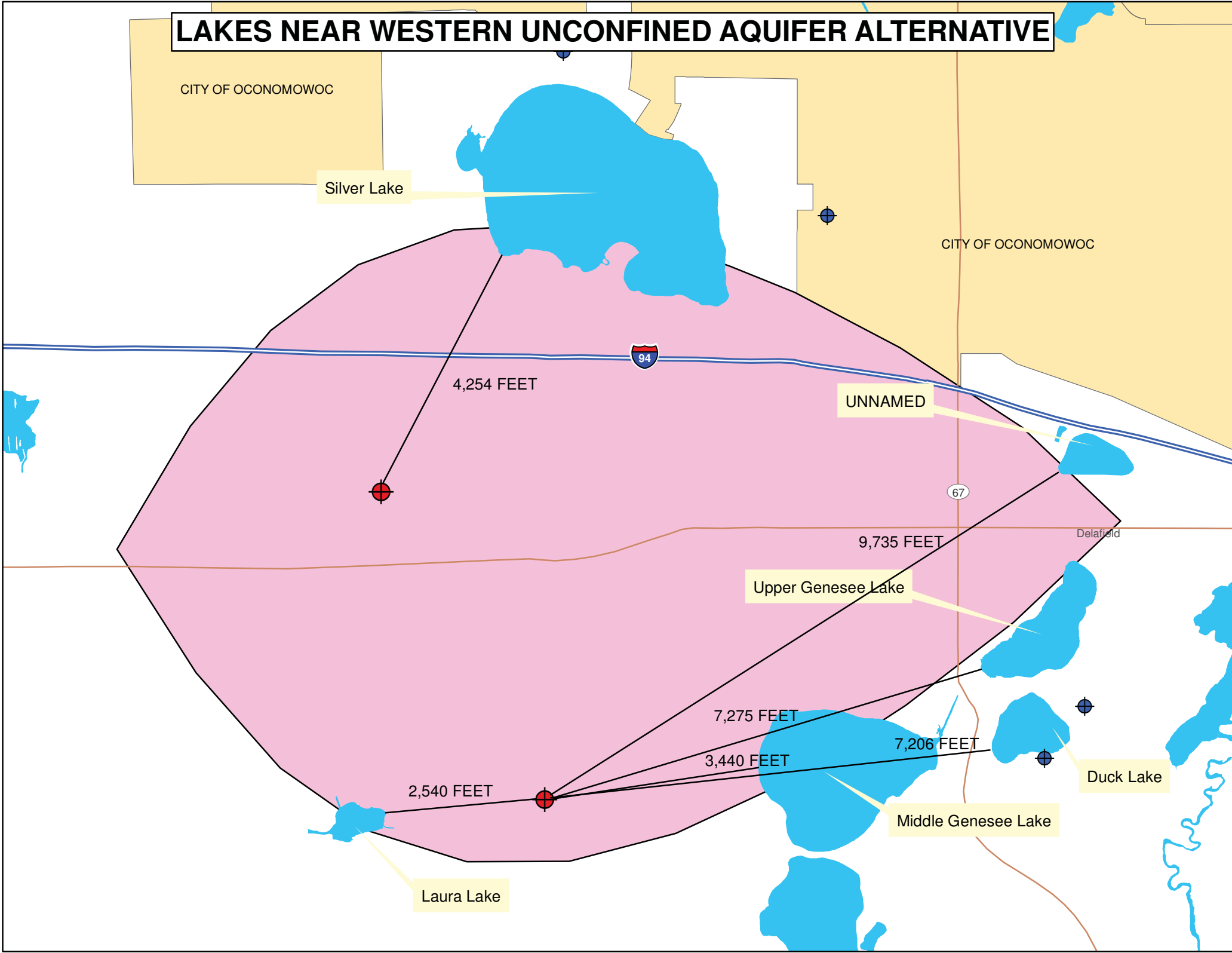
LAKES NEAR SHALLOW AND FOX RIVER ALTERNATIVE



LAKES NEAR 2MGD NEAR VERNON MARSH ALTERNATIVE



LAKES NEAR WESTERN UNCONFINED AQUIFER ALTERNATIVE



Attachment J
Wetlands Crossed

TABLE 6-43
Wetlands Crossed by the Alternatives (Acres)

Alternative Name	Wetlands (ac)										Total	
	Emergent/Wet Meadow		Scrub/Shrub		Forested		Open Water		Other ^c			
	Temporary Land Affected ^a	Permanent Land Affected ^b	Temporary Land Affected ^a	Permanent Land Affected ^b	Temporary Land Affected ^a	Permanent Land Affected ^b	Temporary Land Affected ^a	Permanent Land Affected ^b	Temporary Land Affected ^a	Permanent Land Affected ^b	Temporary Wetlands Affected ^a	Permanent Wetland Affected ^b
Water Supply Alternatives												
Deep and Shallow Wells												
Pipeline & Aboveground Structures ^d	4	2	5	1	2	1	0	0	<1	0	12	4
Areas of 1-Foot or Greater Groundwater Drawdown	710	710	1,294	1,294	932	932	89	89	62	62	3,087	3,087
Areas of 5-Foot or Greater Groundwater Drawdown ^e	241	241	419	419	307	307	11	11	14	14	992	992
Deep and Shallow Wells Total ^f	714	712	1,299	1,295	934	933	89	89	63	62	3,099	3,091
Shallow Aquifer and Fox River Alluvium												
Pipeline & Aboveground Structures ^d	4	2	7	2	11	3	0	0	<1	0	23	7
Areas of 1-Foot or Greater Groundwater Drawdown	1,079	1,079	1,558	1,558	1,279	1,279	103	103	87	87	4,106	4,106
Areas of 5-Foot or Greater Groundwater Drawdown ^e	475	475	871	871	548	548	37	37	33	33	1,964	1,964
Shallow Aquifer and Fox River Alluvium Total ^f	1,083	1,081	1,565	1,560	1,290	1,282	103	103	88	87	4,129	4,113
Lake Michigan Supply Alternatives												
Lake Michigan (City of Milwaukee) ^g	1	0	2	<1	4	1	<1	0	0	0	8	1
Lake Michigan (City of Oak Creek) Alignment 1 ^g	3	0	4	1	6	1	<1	0	0	0	13	1
Lake Michigan (City of Oak Creek) Alignment 2 ^g	0.08	0	0.10	0	0.36	0	0	0	0	0	0.54	0
Lake Michigan (City of Racine) ^g	16	0	22	4	7	1	2	0	6	0	52	6
Return Flow Alternatives												
Underwood Creek to Lake Michigan ^g	2	0	2	0	5	1	<1	0	0	0	9	1
Root River to Lake Michigan Alignment 1 ^g	2	0	3	<0.1	7	1	<1	0	0	0	12	1
Root River to Lake Michigan Alignment 2 ^g	0.07	0	0.10	0	0.36	0.01	0	0	0.04	0	0.58	0.01
Direct to Lake Michigan ^g	2	0	2	0	1	<1	<1	0	<1	0	5	<1

Source: WWI

^a Includes all areas being temporarily impacted by the construction of the supply and return flow alternatives. Total values are slightly different due to rounding.

^b Includes all land being disturbed permanently for groundwater drawdowns and the operation of the alternatives, which includes new access roads, new aboveground structures, and pipeline maintenance corridors, where applicable. Total values are slightly different due to rounding.

^c Includes filled/draind wetlands, and flats/unvegetated wet soil areas.

^d Includes pipeline alignment, new access roads (15 feet wide), well houses, and WTP.

^e The Areas of the 5-Foot or Greater Groundwater Drawdown is contained within the Areas of the 1-Foot or Greater Groundwater Drawdown.

^f Includes Pipeline & Aboveground Structures and Areas of 1-Foot or Greater Groundwater Drawdown.

^g The majority of pipeline alignments follow previously disturbed areas and maintained utility corridors. Forested wetlands are generally not present in maintained utility corridors. Potential permanent wetland impacts are consequently conservative. Permanent wetland impacts incorporated in the Environmental Report are consequently estimated to be less than 5 acres, minor adverse impact.

TABLE J-1

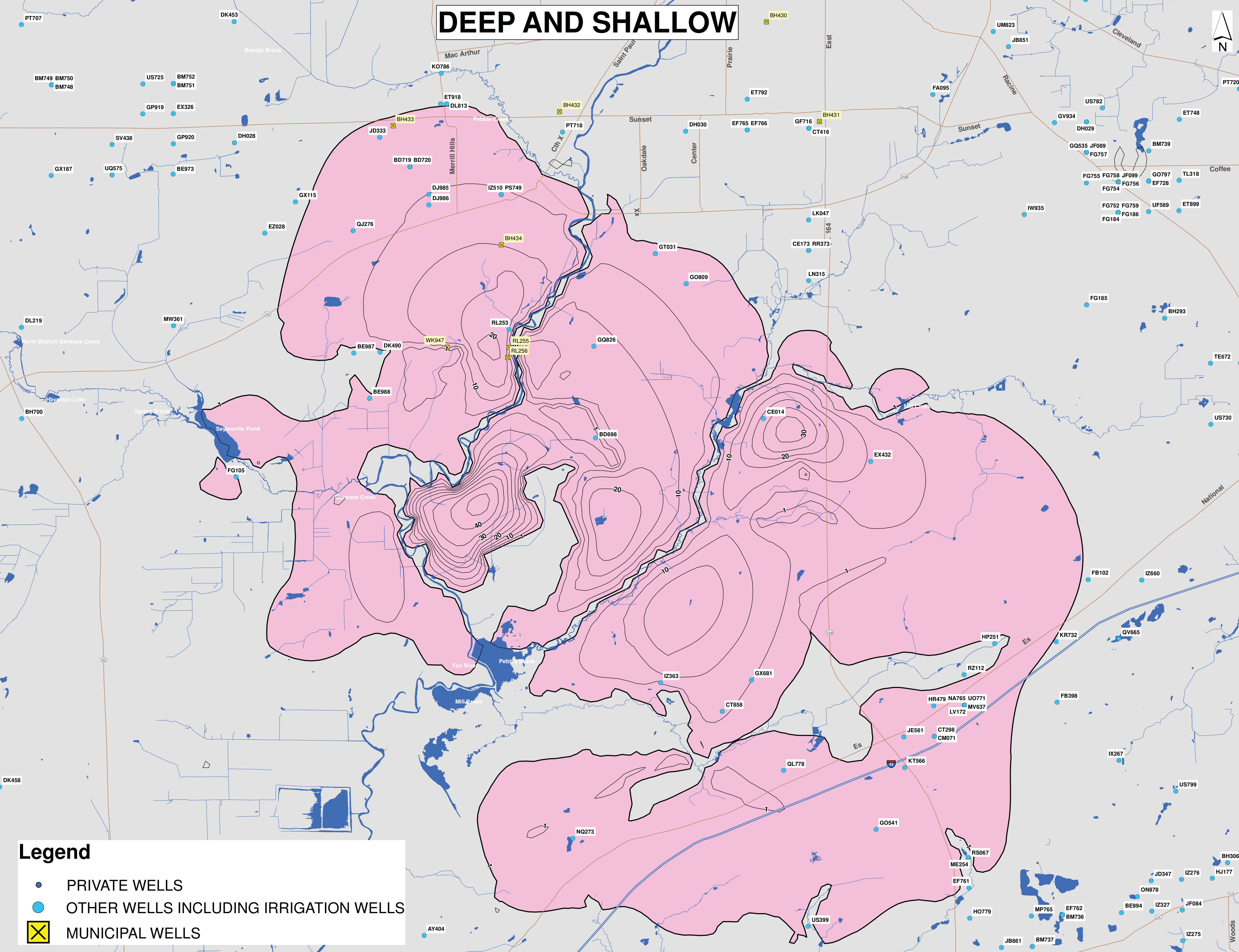
Wetlands Crossed by the Alternatives (Acres)

Alternative Name	Wetlands					TOTAL
	Permanent Land Affected					
	Emergent/Wet Meadow	Scrub/Shrub	Forested	Open Water	Other ¹	
Water Supply Alternatives						
10 MGD Western Unconfined Deep Aquifer	50	89	248	34	59	480
2 MGD Near Vernon Marsh	534	830	645	32	34	2,075

¹ Includes aquatic bed and deep water lake wetlands for the Western Unconfined Deep Aquifer alternative, and filled drained wetlands, aquatic bed, and flats/unvegetated wet soil areas for the 2 MGD Near Vernon Marsh alternative.

Attachment K
Well Maps

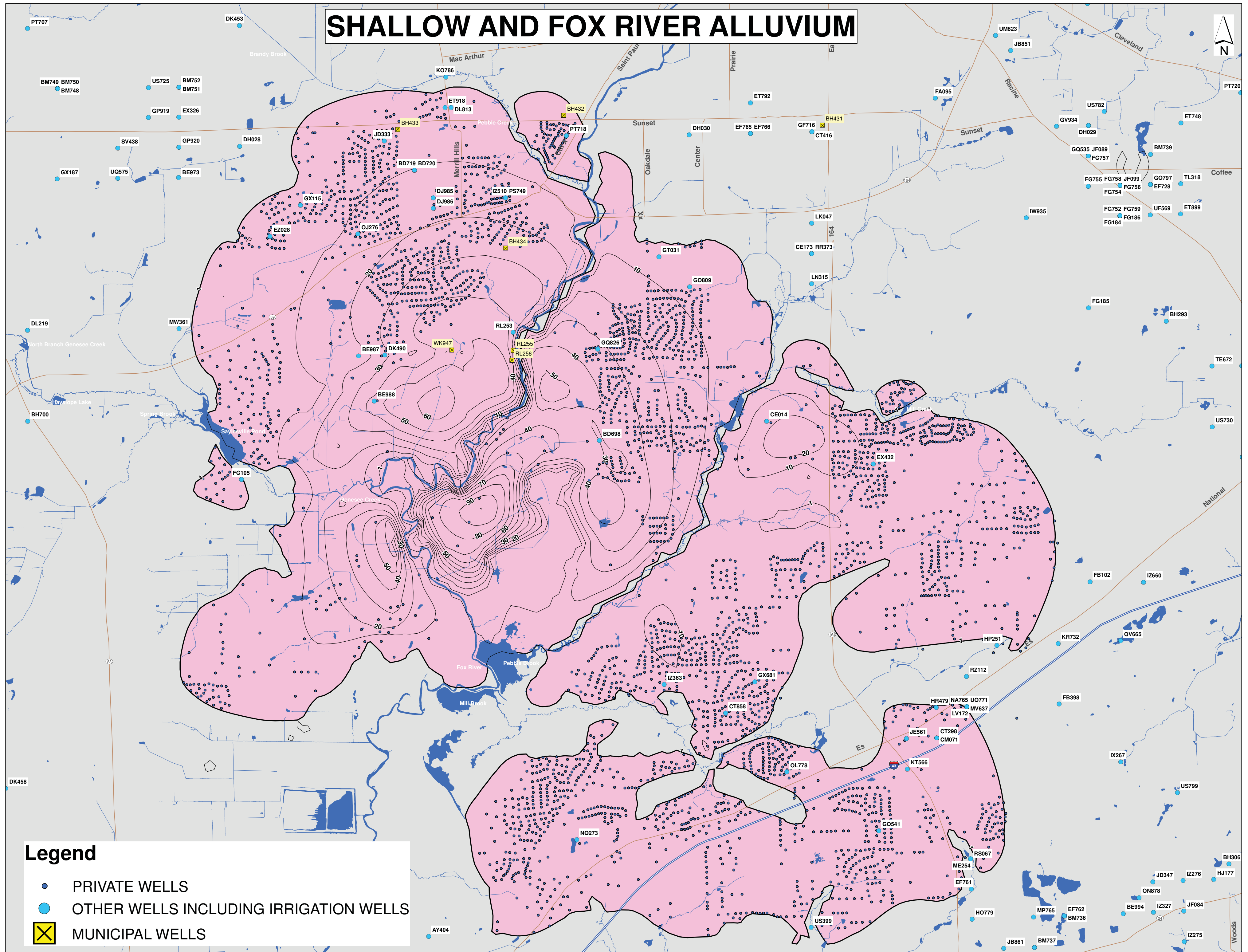
DEEP AND SHALLOW



Legend

- PRIVATE WELLS
- OTHER WELLS INCLUDING IRRIGATION WELLS
- ⊠ MUNICIPAL WELLS

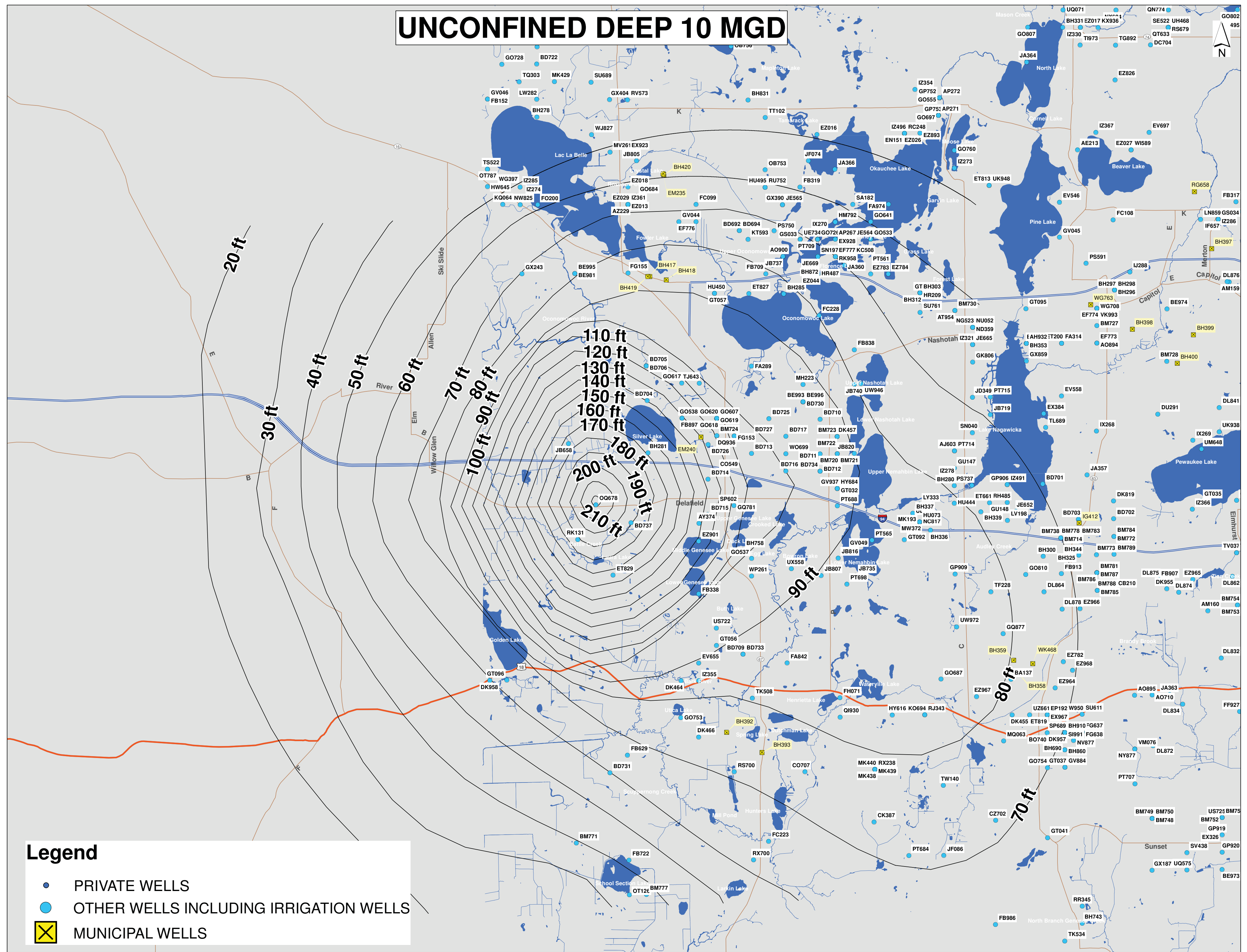
SHALLOW AND FOX RIVER ALLUVIUM



Legend

- PRIVATE WELLS
- OTHER WELLS INCLUDING IRRIGATION WELLS
- ⊗ MUNICIPAL WELLS

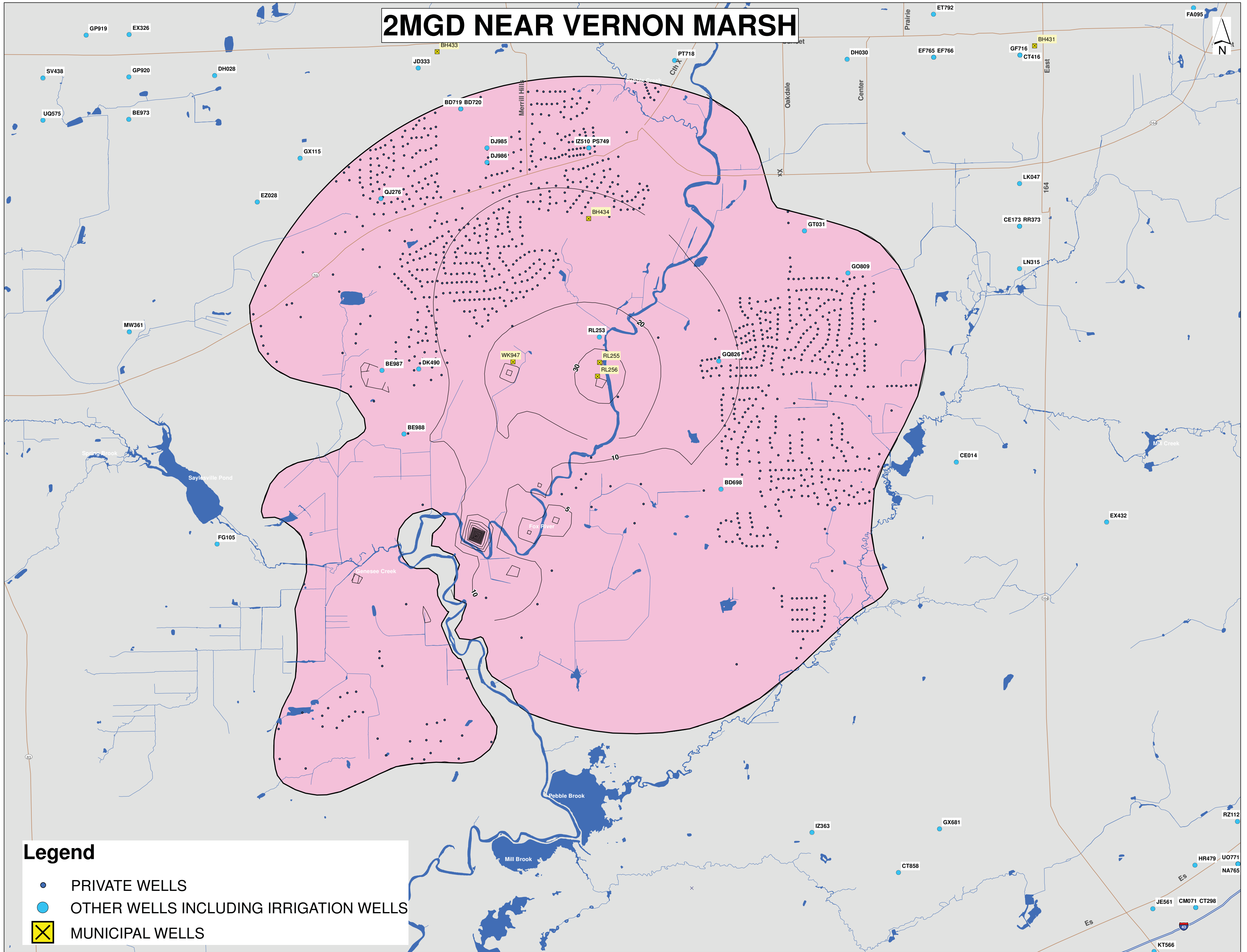
UNCONFINED DEEP 10 MGD



Legend

- PRIVATE WELLS
- OTHER WELLS INCLUDING IRRIGATION WELLS
- ⊗ MUNICIPAL WELLS

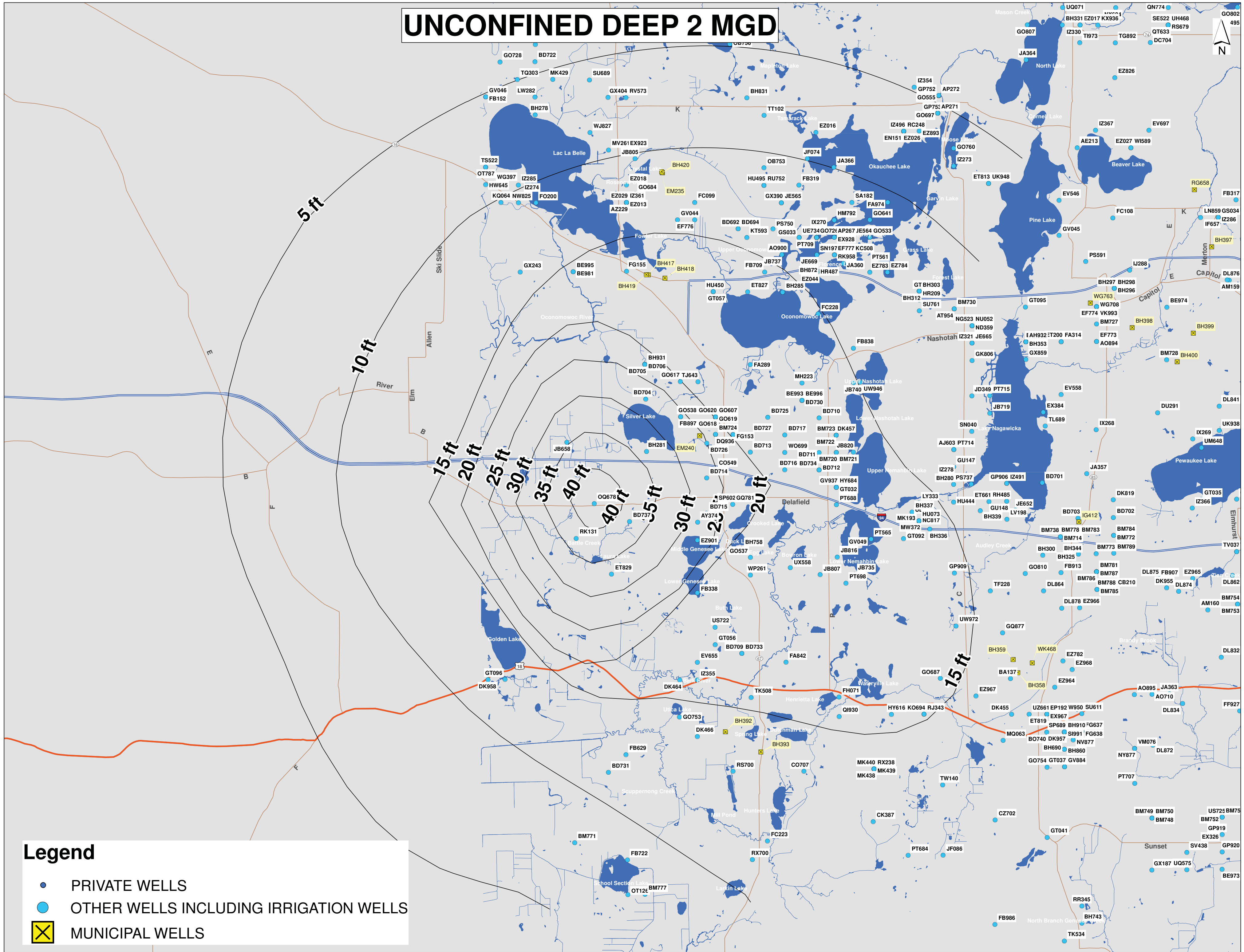
2MGD NEAR VERNON MARSH



Legend

- PRIVATE WELLS
- OTHER WELLS INCLUDING IRRIGATION WELLS
- ⊗ MUNICIPAL WELLS

UNCONFINED DEEP 2 MGD



Legend

- PRIVATE WELLS
- OTHER WELLS INCLUDING IRRIGATION WELLS
- ⊗ MUNICIPAL WELLS