

APPENDIX G

Traffic Management Plan

G. TRAFFIC MANAGEMENT PLAN

NUREG/CR-7002 indicates that the existing TCPs identified by the offsite agencies should be used in the evacuation simulation modeling. The traffic and access control plans for the EPZ were provided by each county.

These plans were reviewed and the TCPs were modeled accordingly.

G.1 Traffic Control Points

As discussed in Section 9, traffic control points at intersections (which are controlled) are modeled as actuated signals. If an intersection has a pre-timed signal, stop, or yield control, and the intersection is identified as a traffic control point, the control type was changed to an actuated signal in the DYNEV II system. Table K-2 provides the control type and node number for those nodes which are controlled. If the existing control was changed due to the point being a TCP, the control type is indicated as "Traffic Control Point" in Table K-2.

It is assumed that TCPs will be established within 2 hours of the advisory to evacuate to discourage through travelers from using major through routes which traverse the EPZ. As discussed in Section 3.7, external traffic was considered on one route which traverses the study area – I 43 – in this analysis. The generation of the external trips on I 43 are also assumed to cease at 2 hours after the advisory to evacuate in the simulation.

Figure G-1 maps the TCPs identified in the county emergency plans. These TCPs are concentrated on roadways giving access to the EPZ and would be manned during evacuation by traffic guides who would direct evacuees in the proper direction away from PBNP and facilitate the flow of traffic through the intersections.

This study did not identify any additional intersections that should be identified as TCPs.

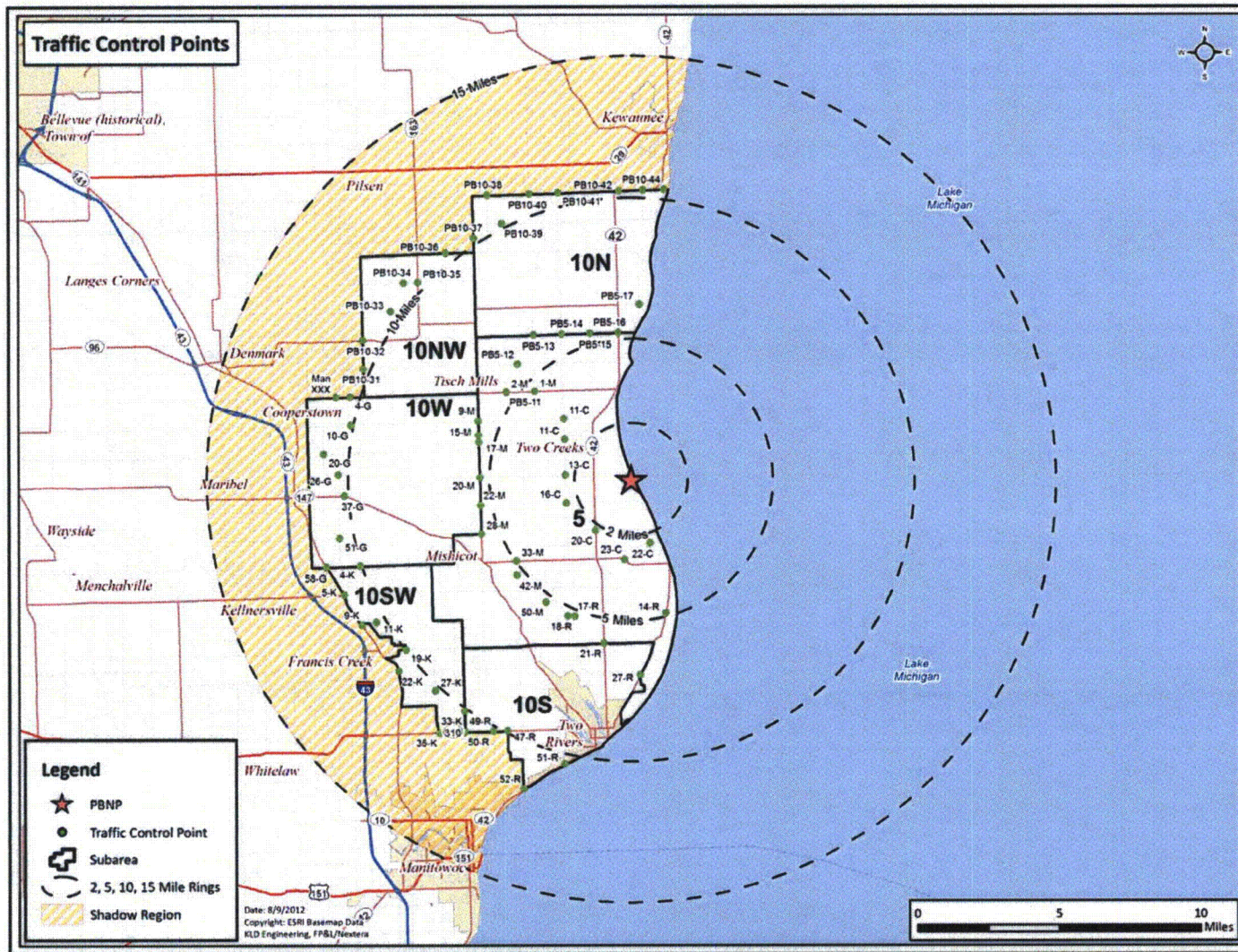


Figure G-1. Traffic Control Points for the Point Beach Nuclear Plant

APPENDIX H
Evacuation Regions

H EVACUATION REGIONS

This appendix presents the evacuation percentages for each Evacuation Region (Table H-1) and maps of all Evacuation Regions. The percentages presented in Table H-1 are based on the methodology discussed in assumption 5 of Section 2.2 and shown in Figure 2-1.

Note the baseline ETE study assumes 20 percent of households will not comply with the shelter advisory, as per Section 2.5.2 of NUREG/CR-7002.

Table H-1. Percent of Subarea Population Evacuating for Each Region

Region	Description	Subarea					
		5	10N	10NW	10W	10SW	10S
R01	2-Mile Ring	100%	20%	20%	20%	20%	20%
N/A	5-Mile Ring	Refer to Region R01					
R02	Full EPZ	100%	100%	100%	100%	100%	100%
Evacuate 2-Mile Radius and Downwind to 5-Mile Radius							
Region	Wind Direction From:	Subarea					
		5	10N	10NW	10W	10SW	10S
N/A	All Directions	Refer to Region R01					
Evacuate 5-Mile Radius and Downwind to EPZ Boundary							
Region	Wind Direction From:	Subarea					
		5	10N	10NW	10W	10SW	10S
R03	NNW, N	100%	20%	20%	20%	20%	100%
R04	NNE	100%	20%	20%	20%	100%	100%
R05	NE, ENE	100%	20%	20%	100%	100%	100%
R06	E	100%	20%	100%	100%	100%	20%
R07	ESE, SE	100%	100%	100%	100%	20%	20%
R08	SSE	100%	100%	100%	20%	20%	20%
R09	S, SSW	100%	100%	20%	20%	20%	20%
N/A	SW, WSW, W, WNW, NW	Refer to Region R01					
Staged Evacuation 5-Mile Radius Evacuates, then Evacuate Downwind to the EPZ Boundary							
Region	Wind Direction From:	Subarea					
		5	10N	10NW	10W	10SW	10S
R10	NNW, N	100%	20%	20%	20%	20%	100%
R11	NNE	100%	20%	20%	20%	100%	100%
R12	NE, ENE	100%	20%	20%	100%	100%	100%
R13	E	100%	20%	100%	100%	100%	20%
R14	ESE, SE	100%	100%	100%	100%	20%	20%
R15	SSE	100%	100%	100%	20%	20%	20%
R16	S, SSW	100%	100%	20%	20%	20%	20%
N/A	SW, WSW, W, WNW, NW	Refer to Region R01					
R17	Full EPZ	100%	100%	100%	100%	100%	100%
Point Beach Specific Regions							
Region	Description	Subarea					
		5	10N	10NW	10W	10SW	10S
R18	PB Evac 5	100%	20%	100%	100%	100%	100%
R19	PB Evac 7	100%	100%	100%	100%	100%	20%
Subarea(s) Shelter-in-Place until 90% ETE for R01/R02, then Evacuate		Subarea(s) Shelter-in-Place				Subarea(s) Evacuate	

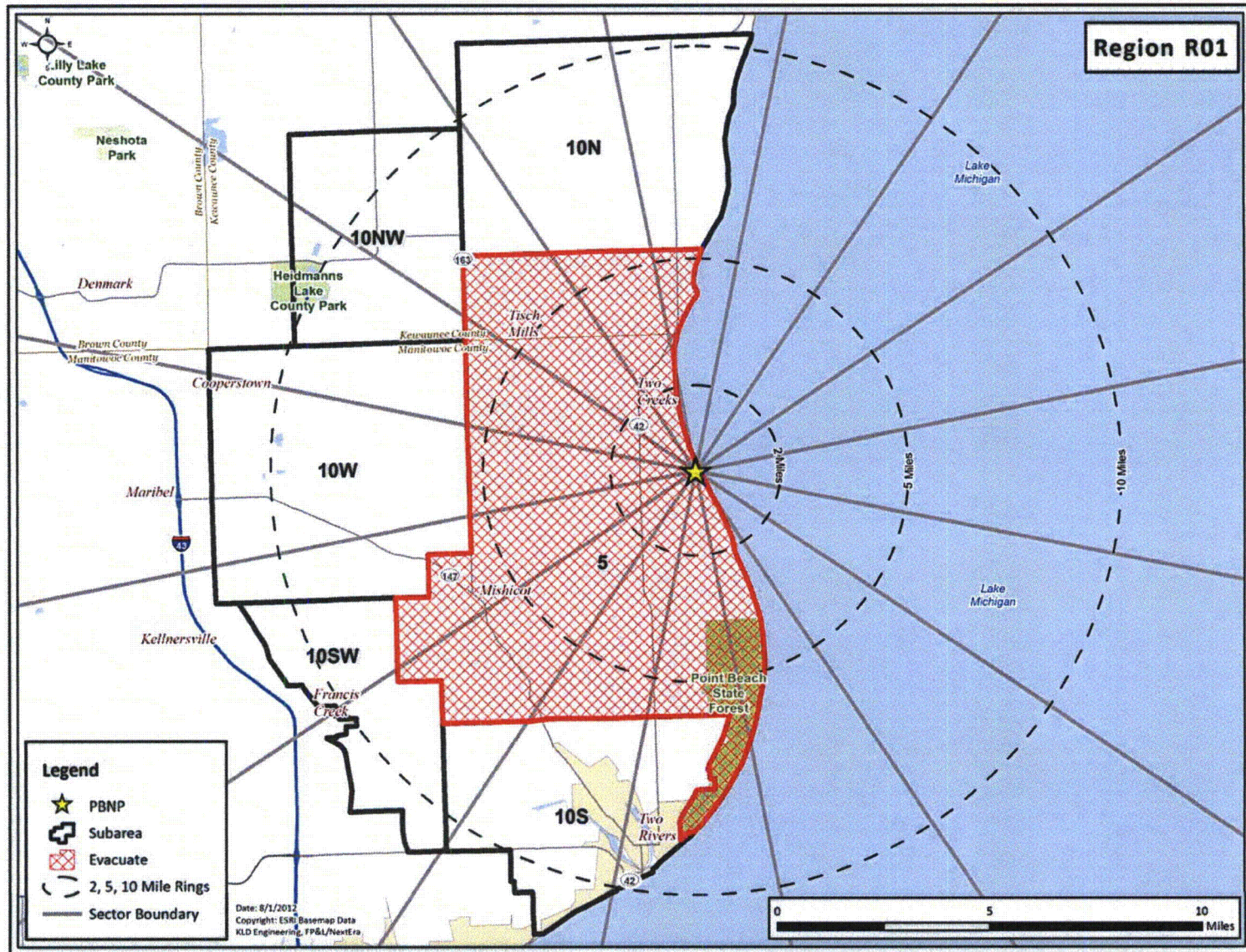


Figure H-1. Region R01

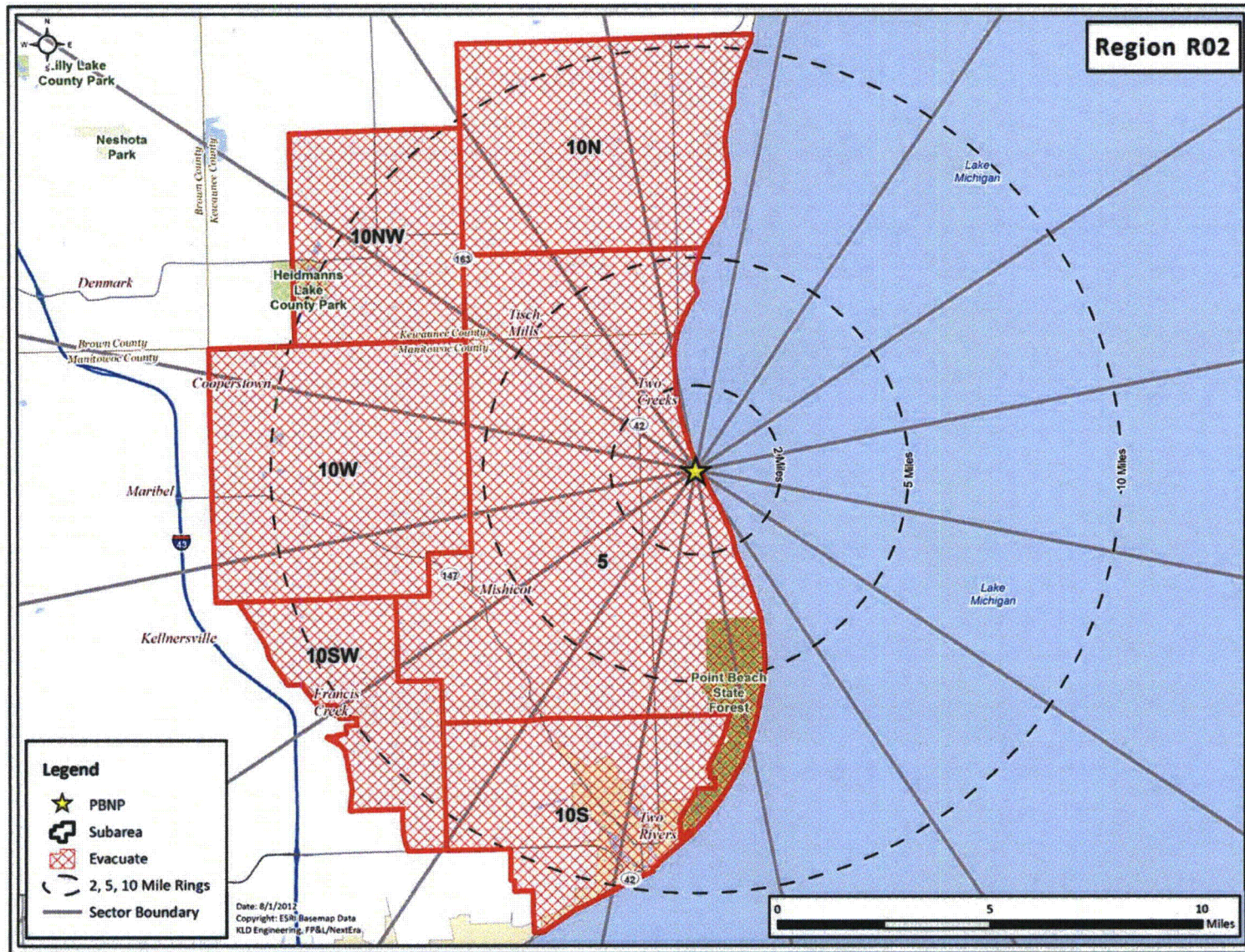


Figure H-2. Region R02

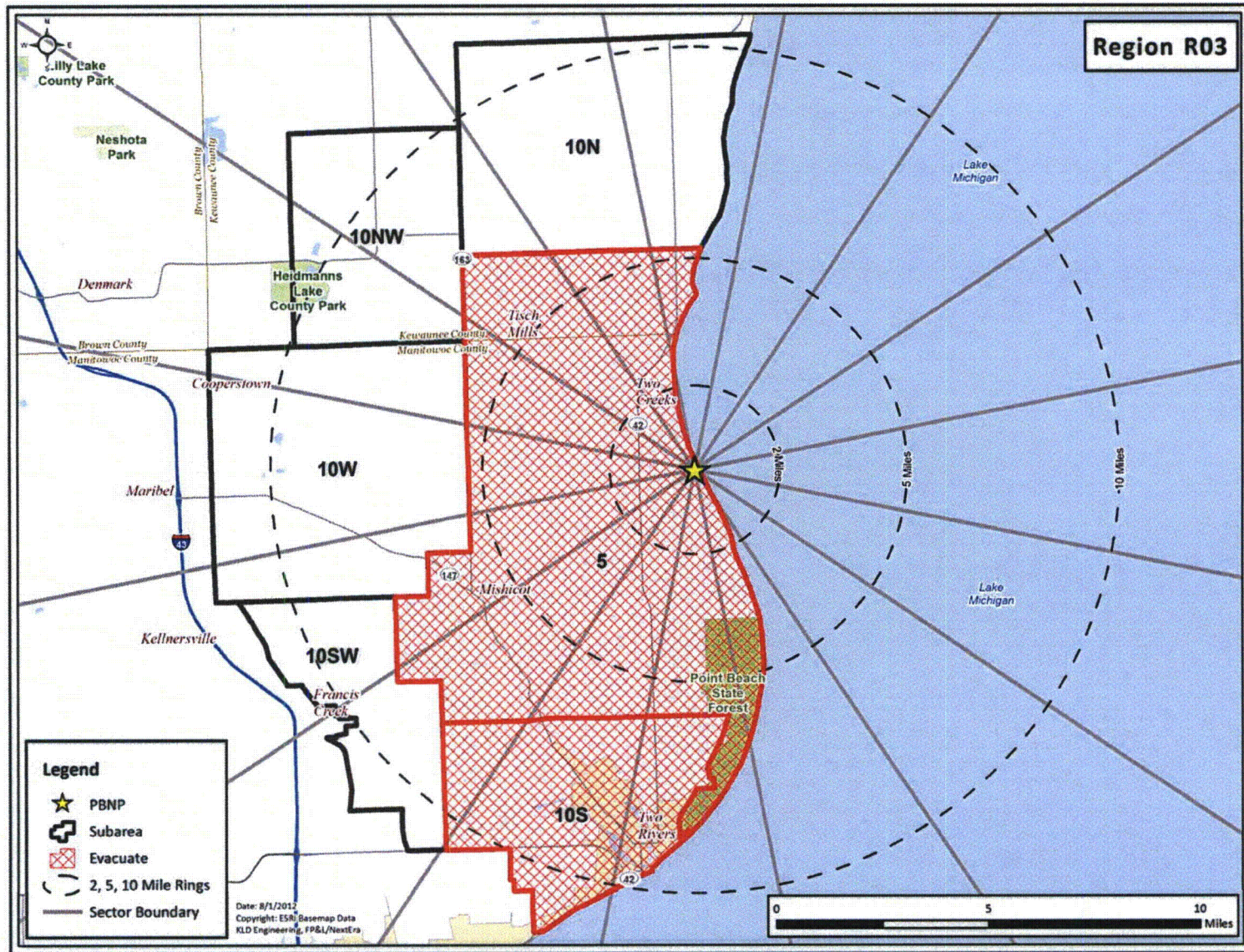


Figure H-3. Region R03

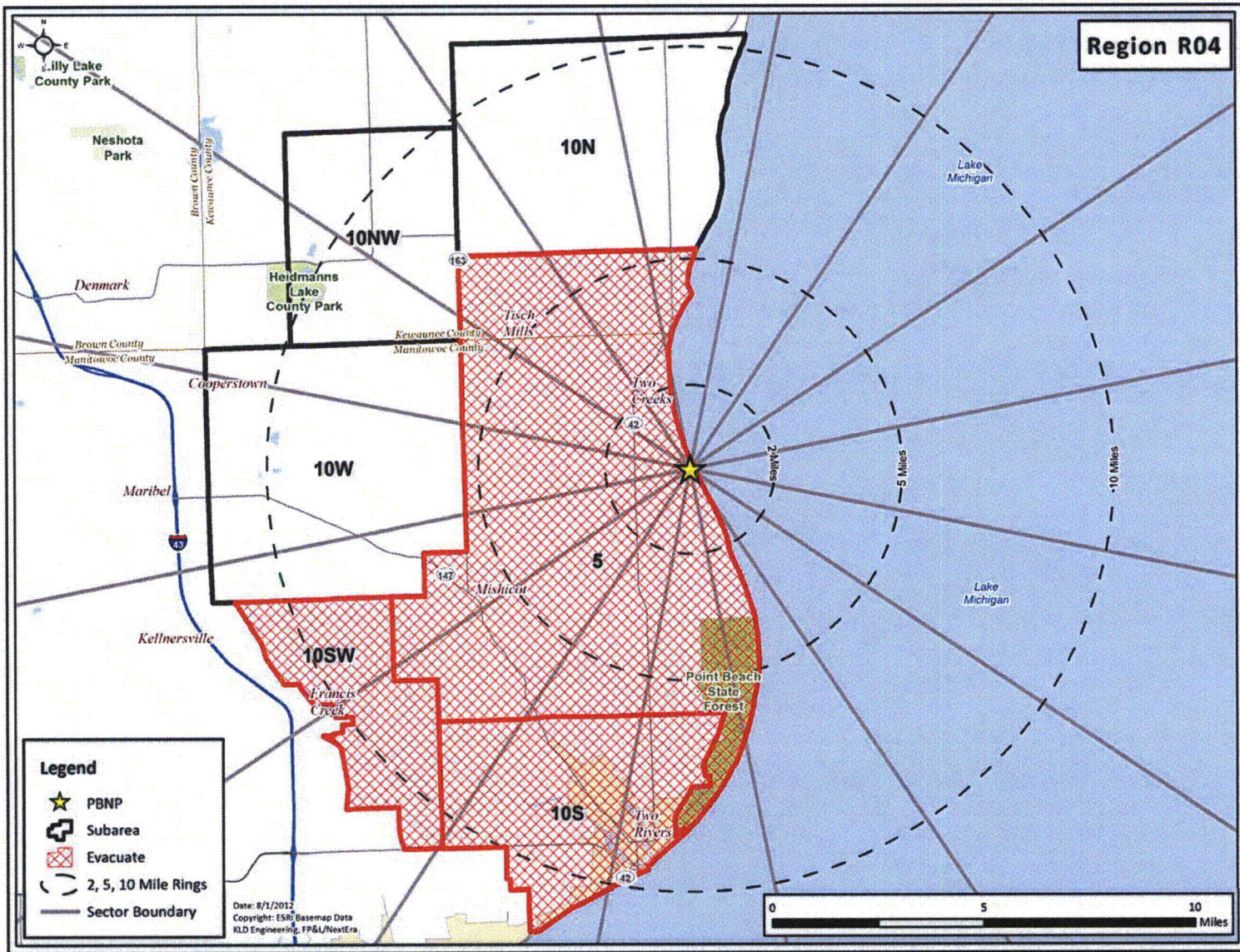


Figure H-4. Region R04

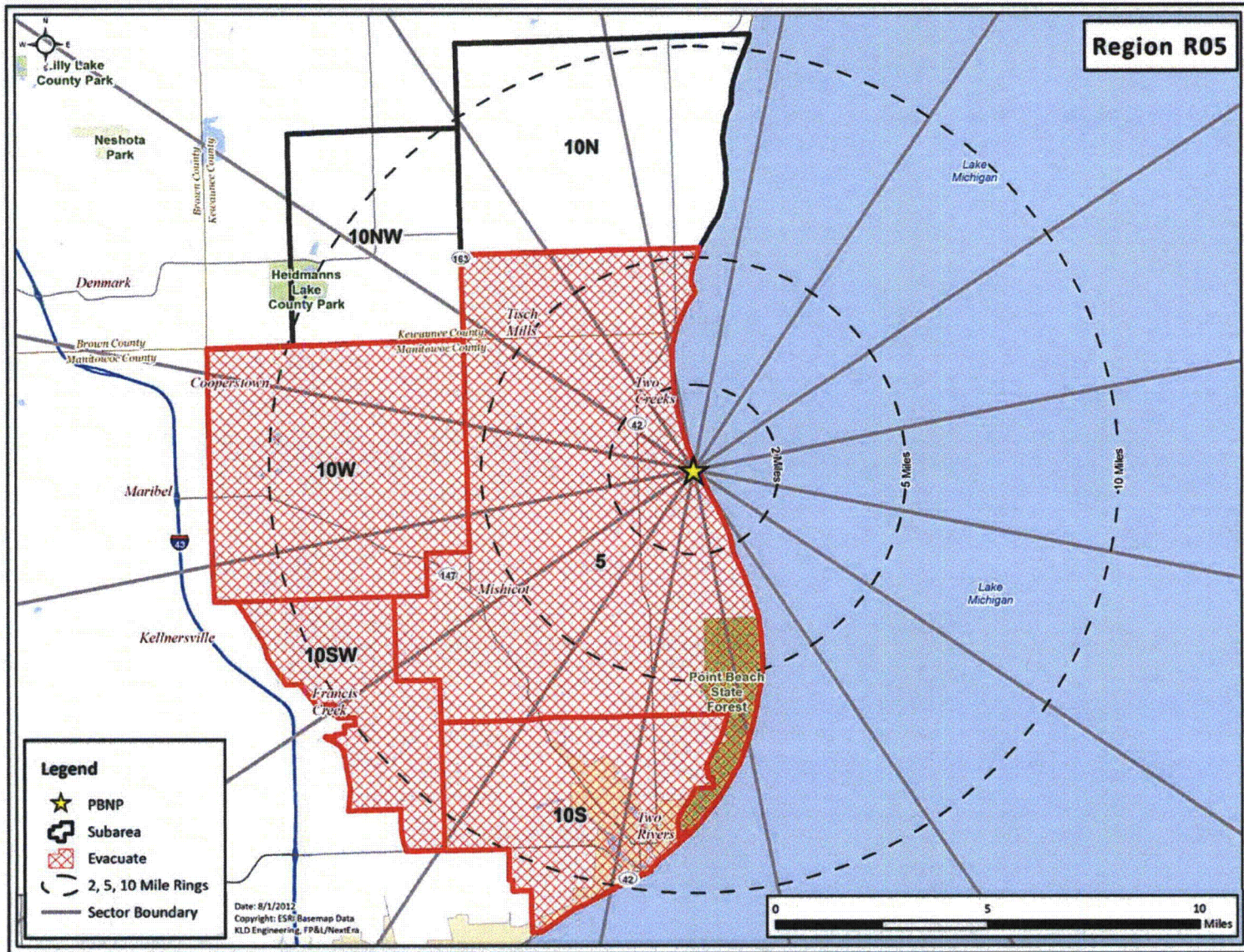


Figure H-5. Region R05

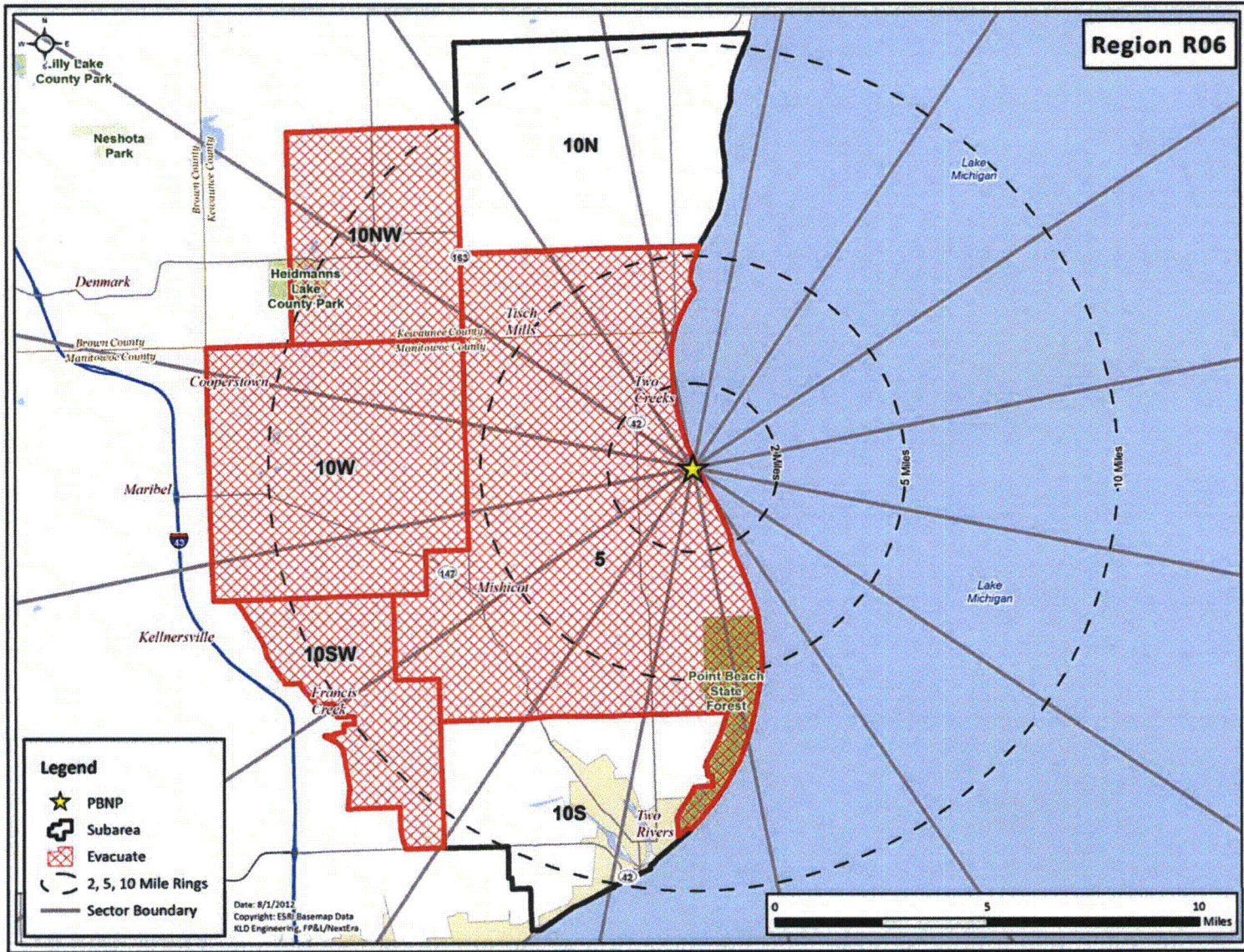


Figure H-6. Region R06

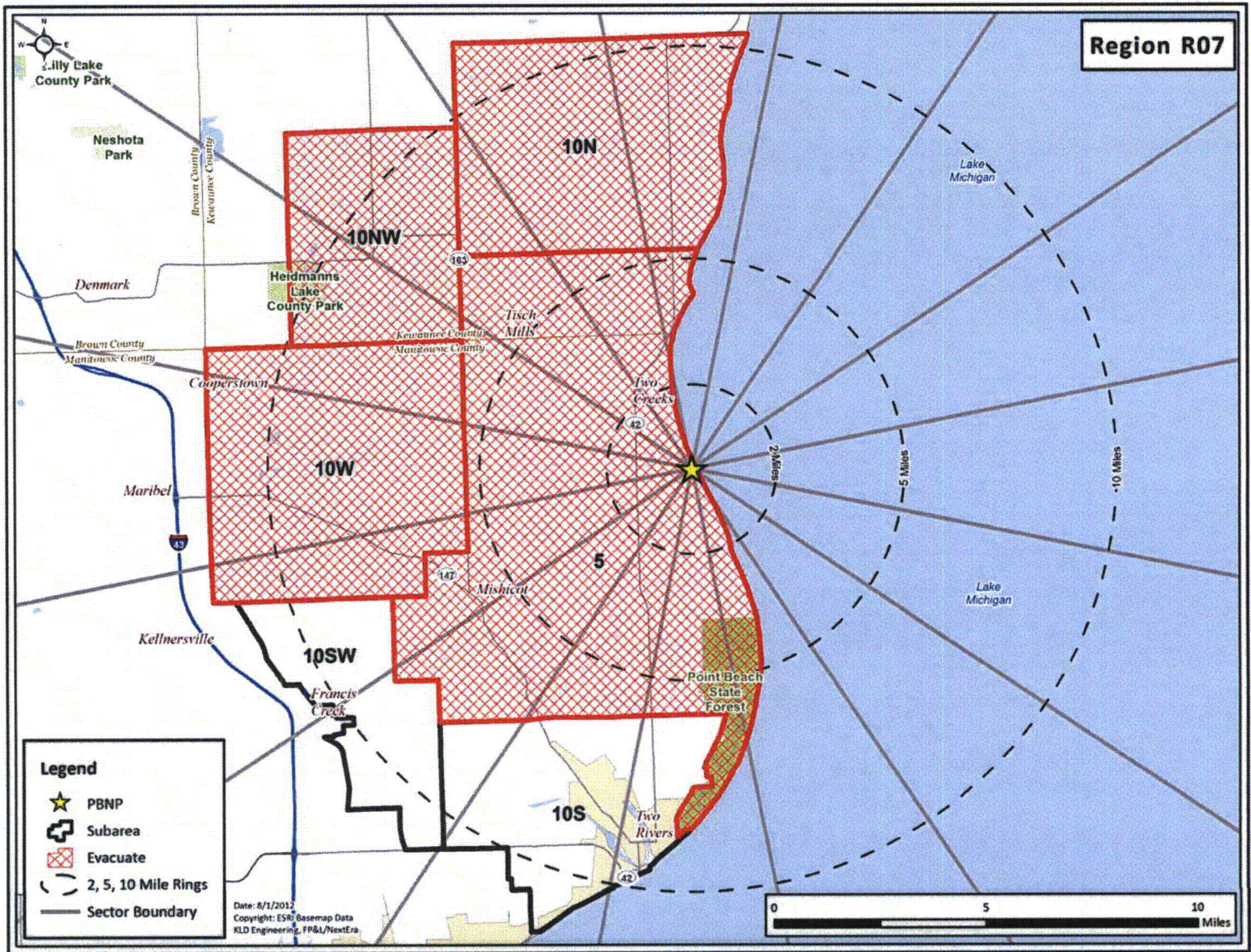


Figure H-7. Region R07

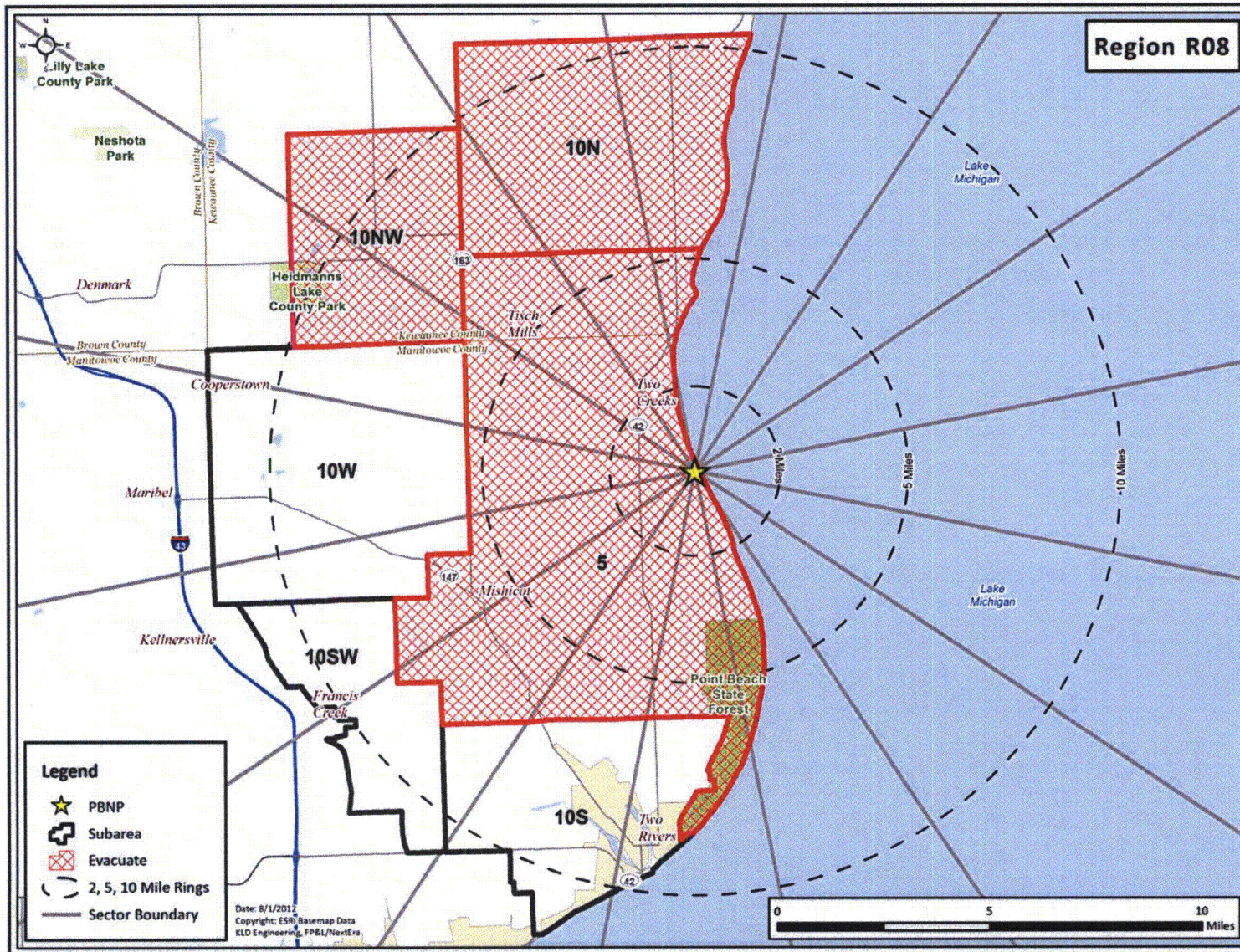


Figure H-8. Region R08

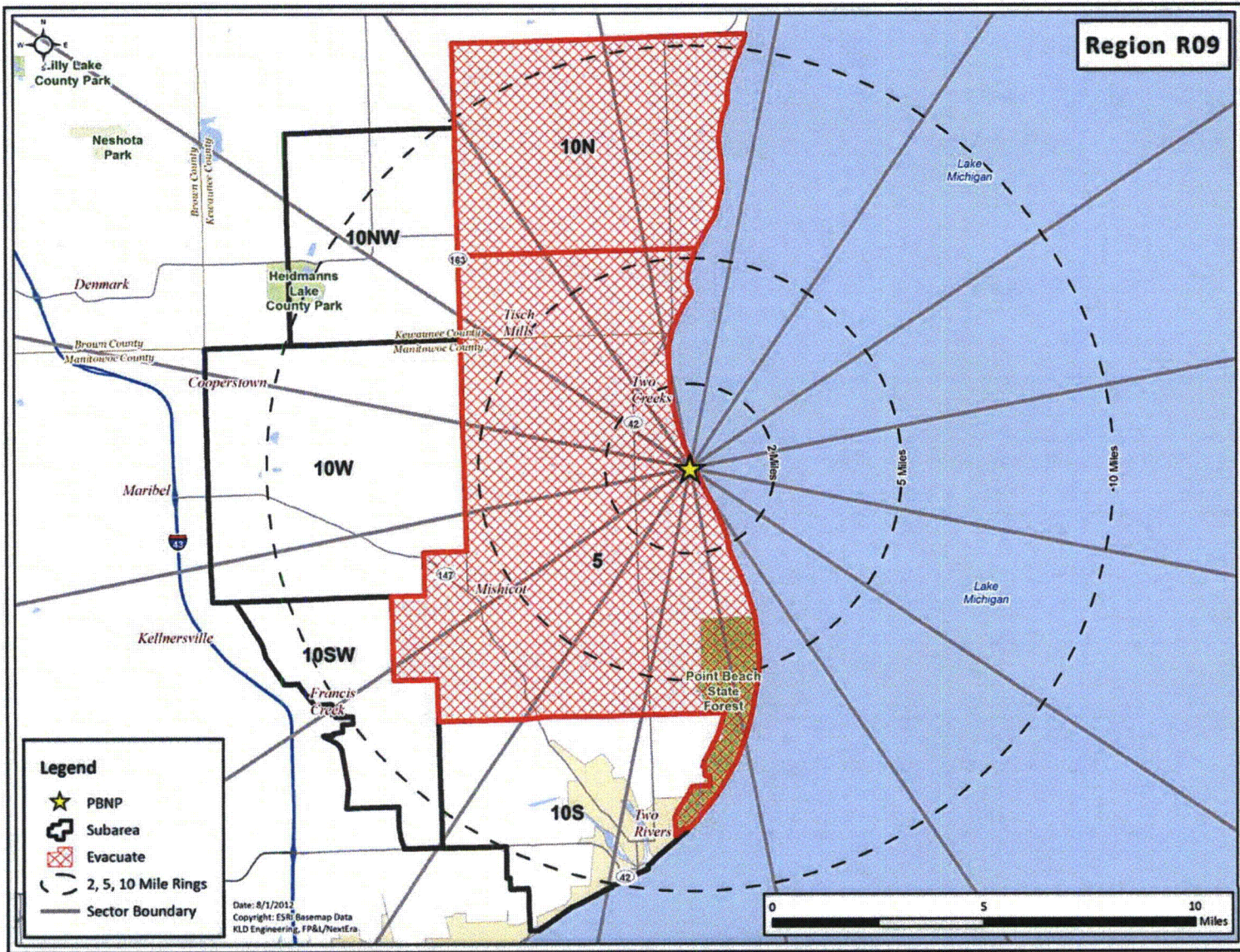


Figure H-9. Region R09

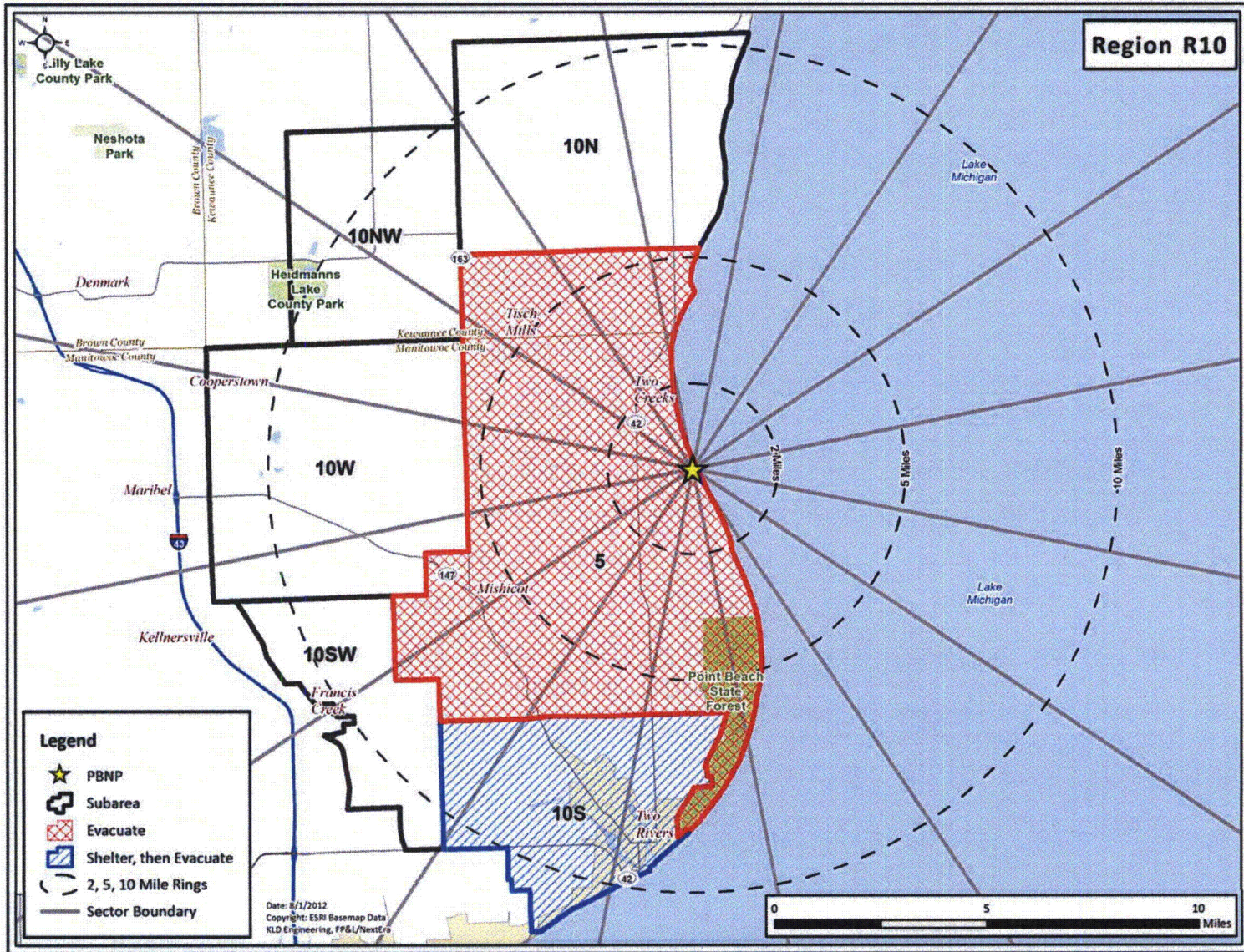


Figure H-10. Region R10

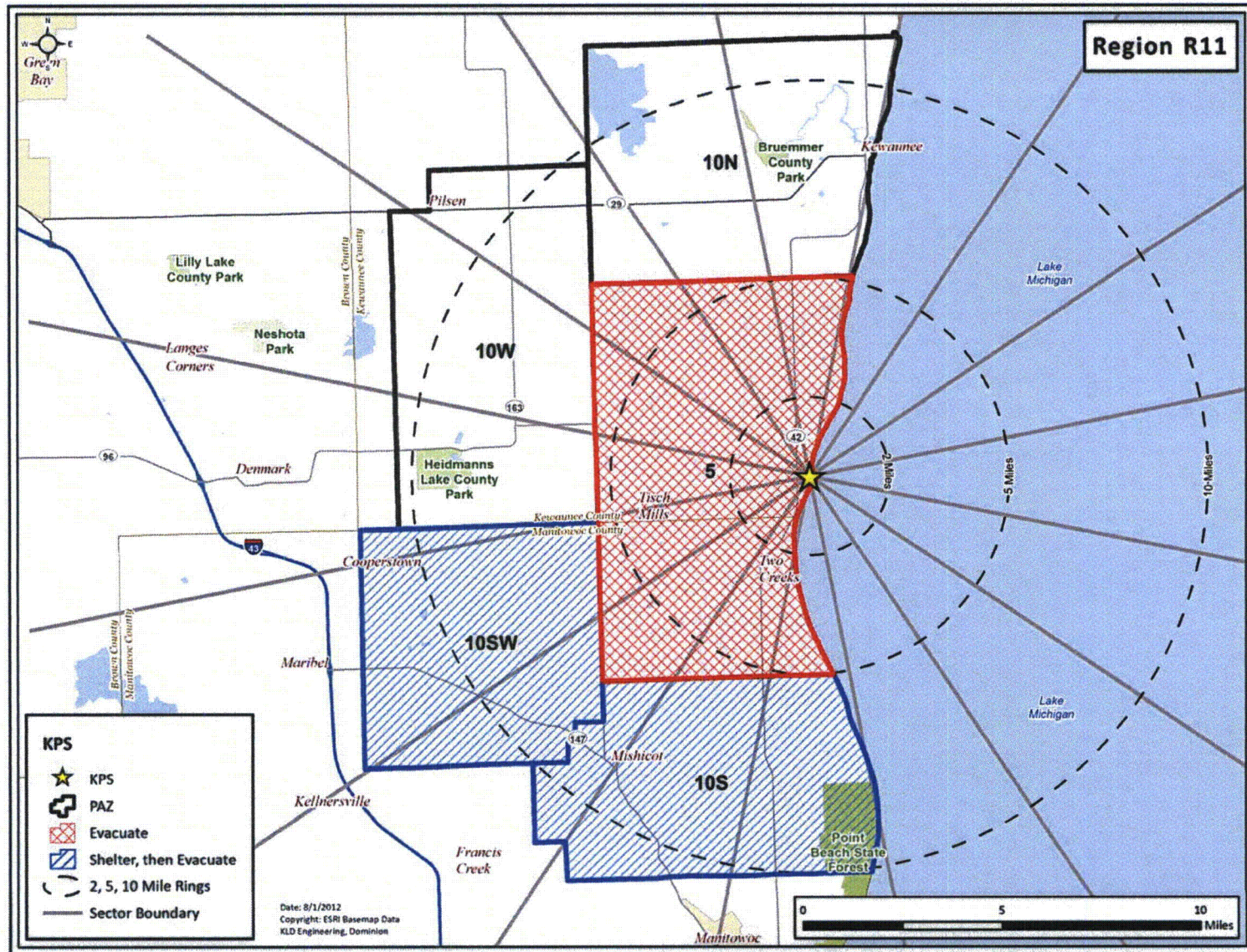


Figure H-11. Region R11

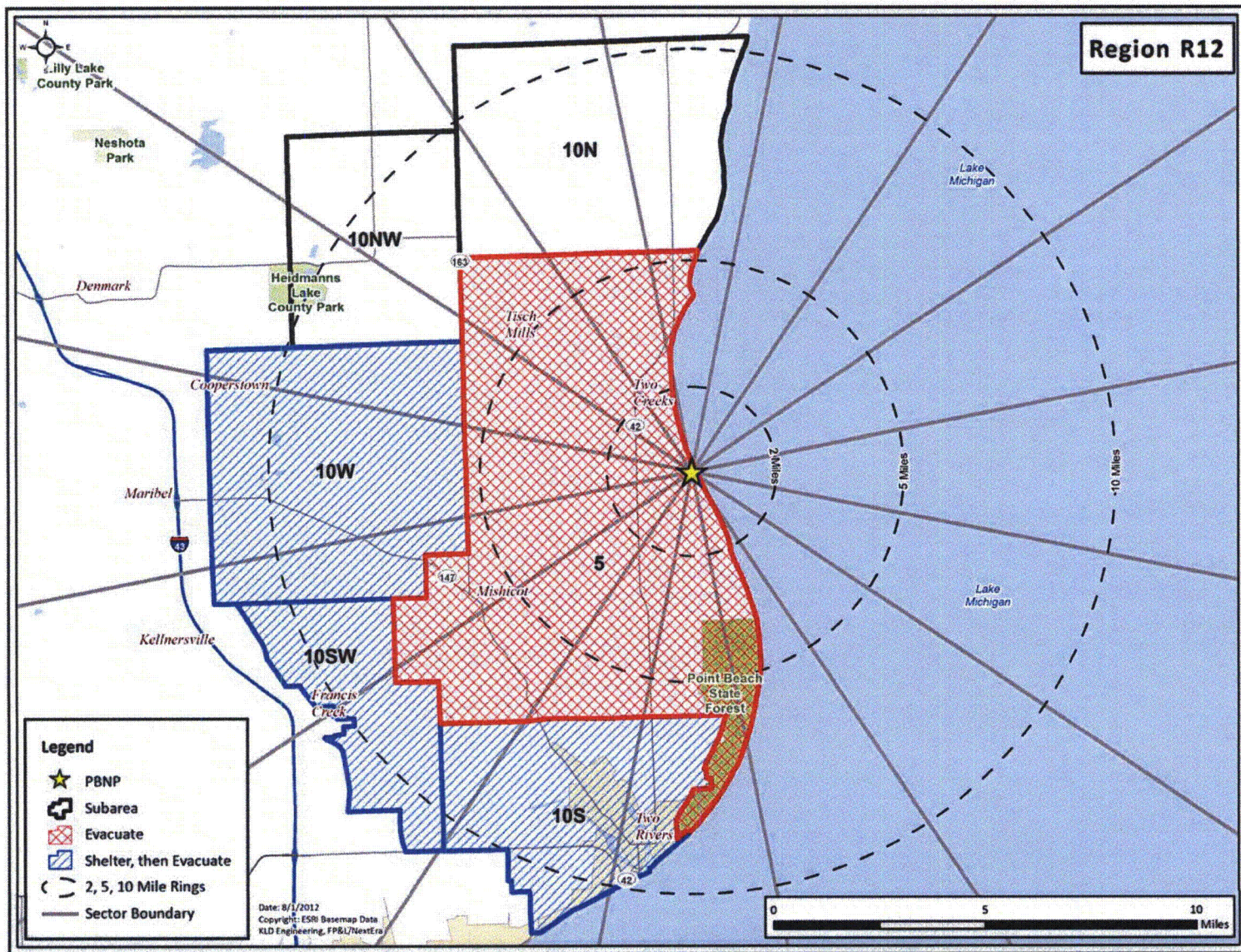


Figure H-12. Region R12

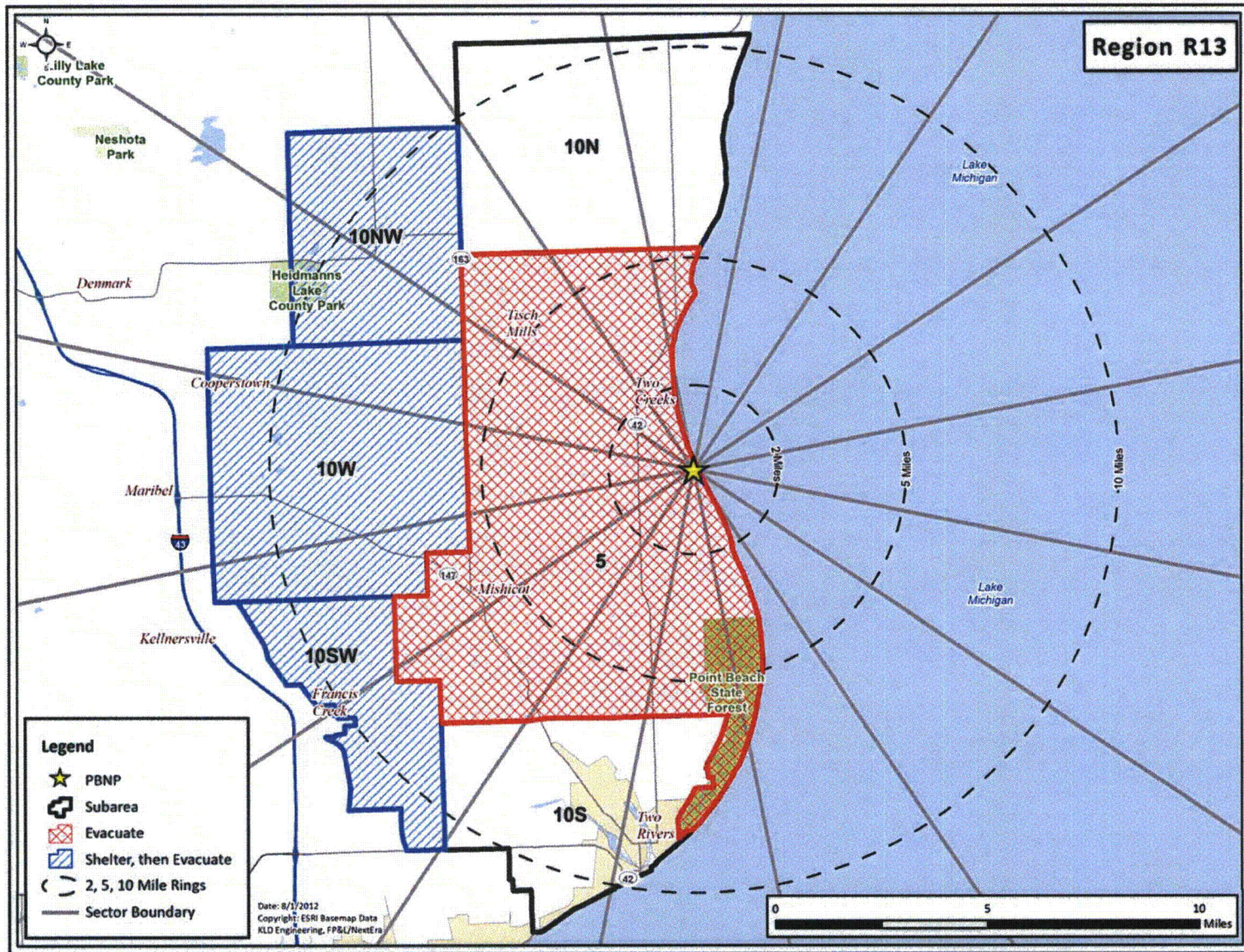


Figure H-13. Region R13

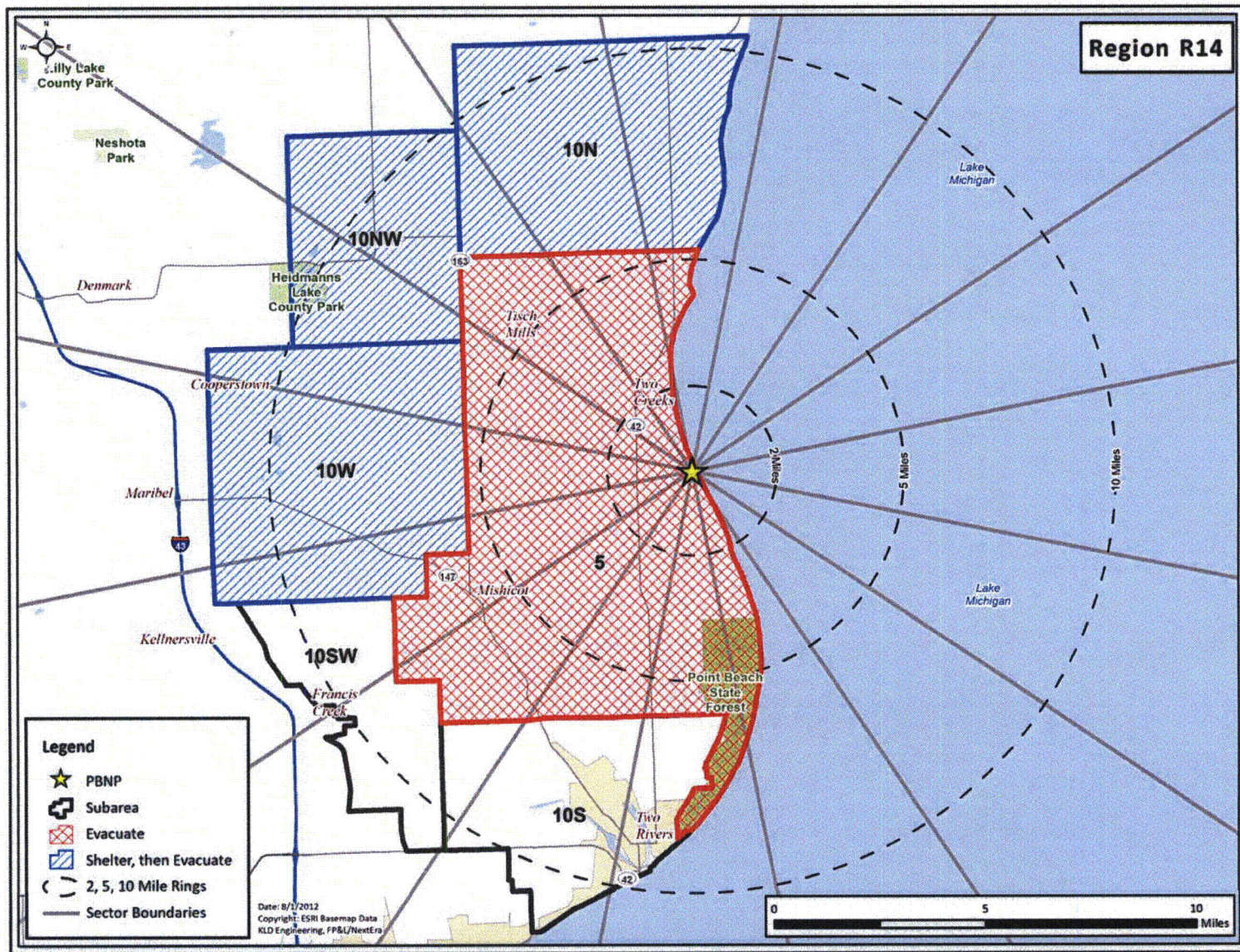


Figure H-14. Region R14

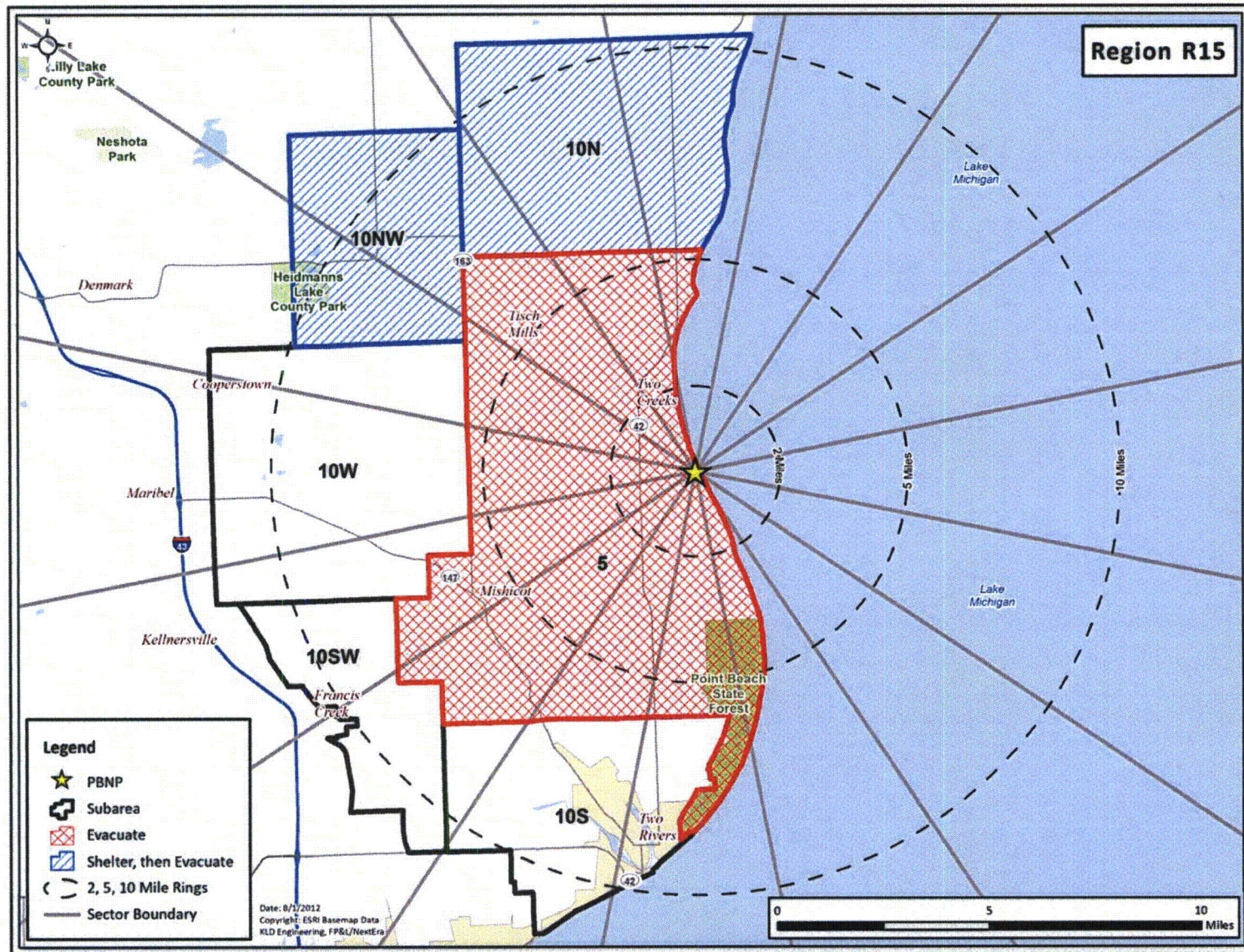


Figure H-15. Region R15

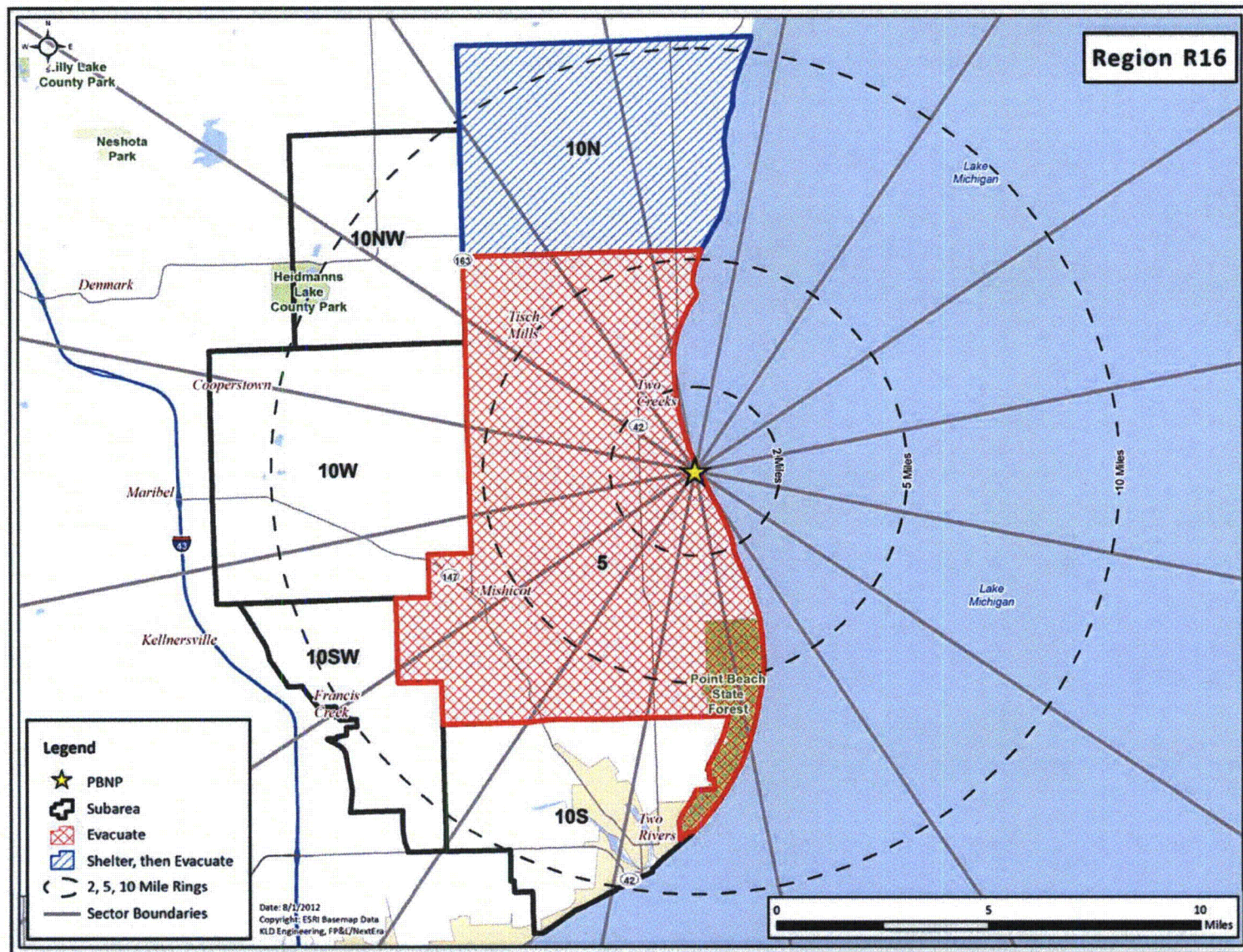


Figure H-16. Region R16

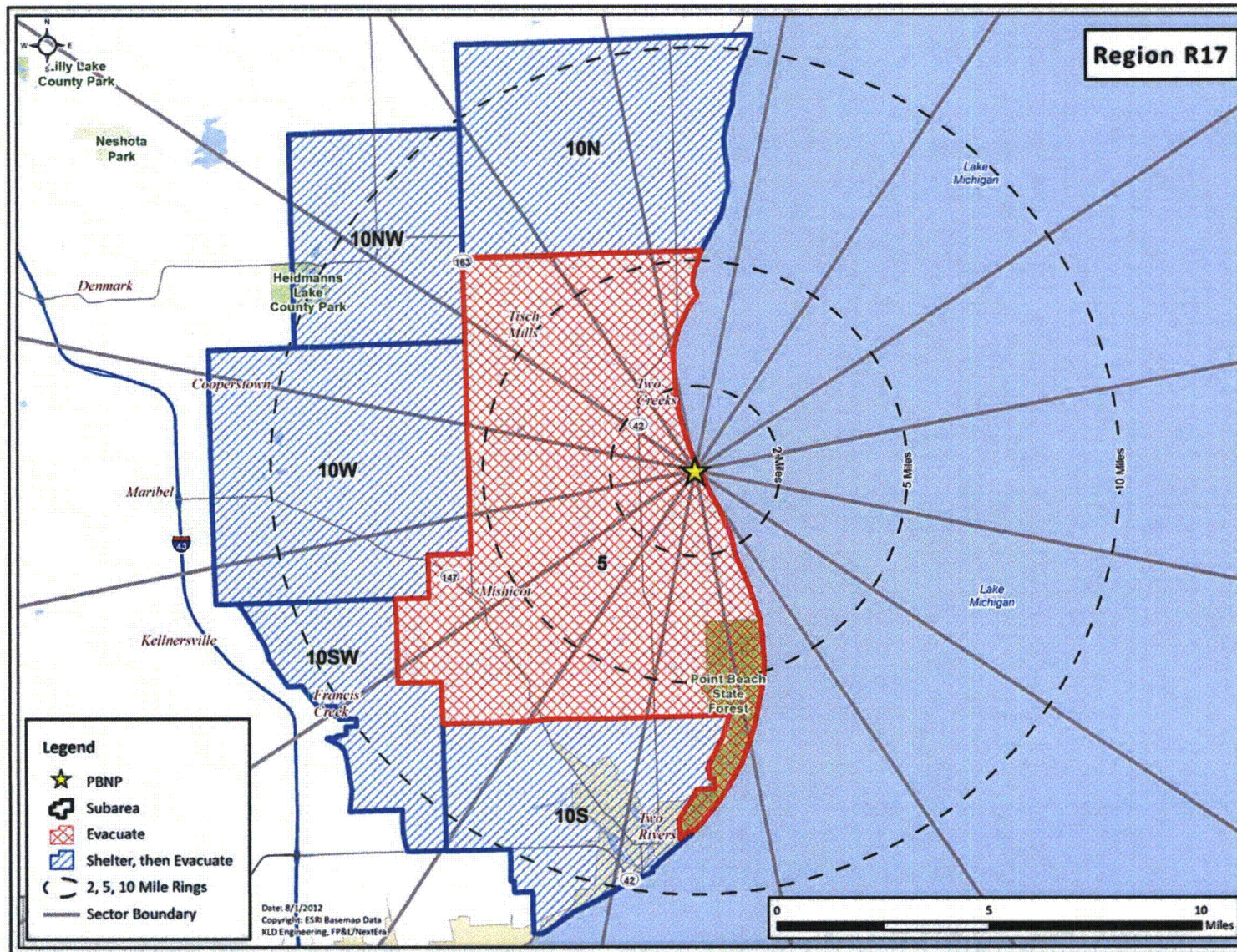


Figure H-17. Region R17

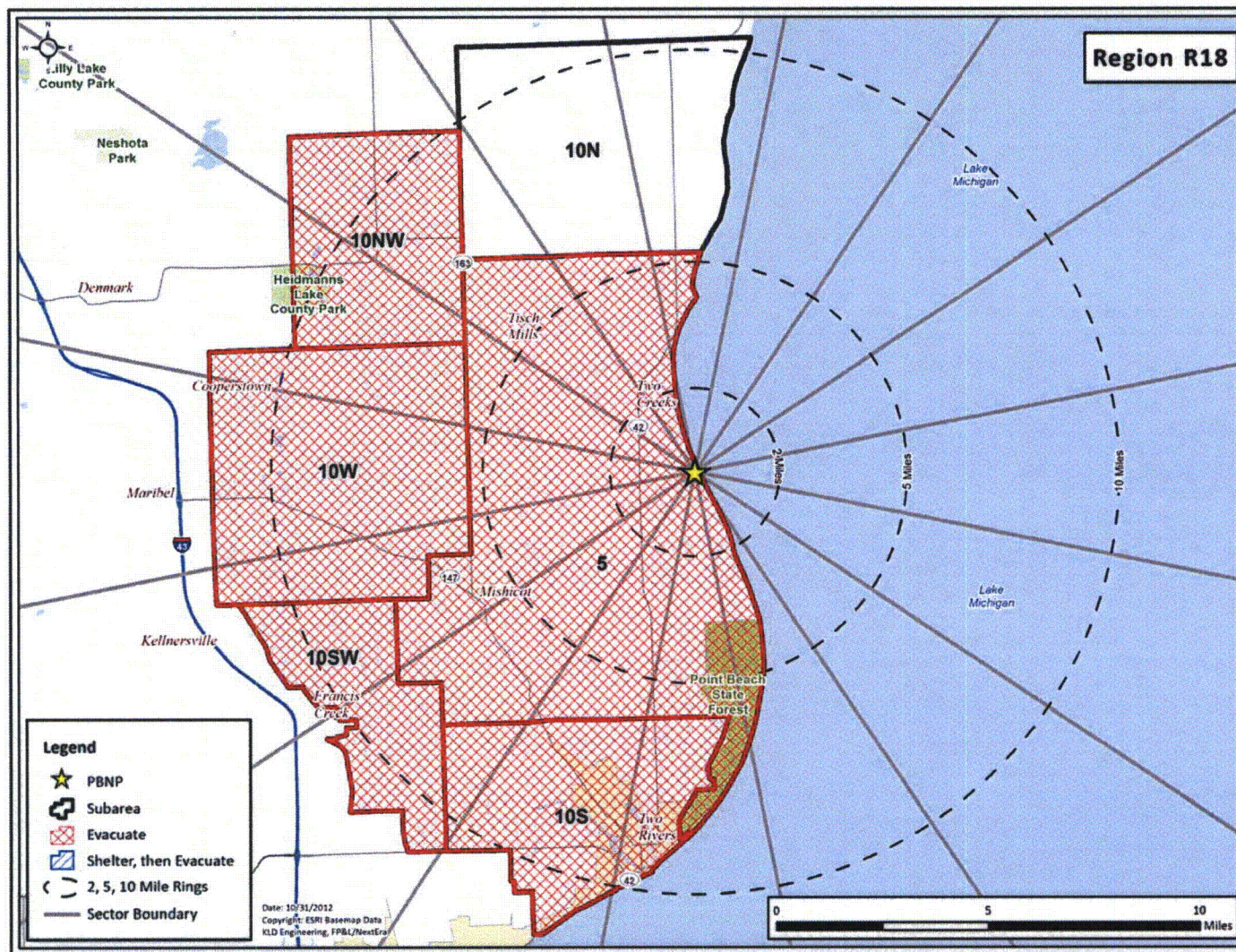


Figure H-18. Region R18

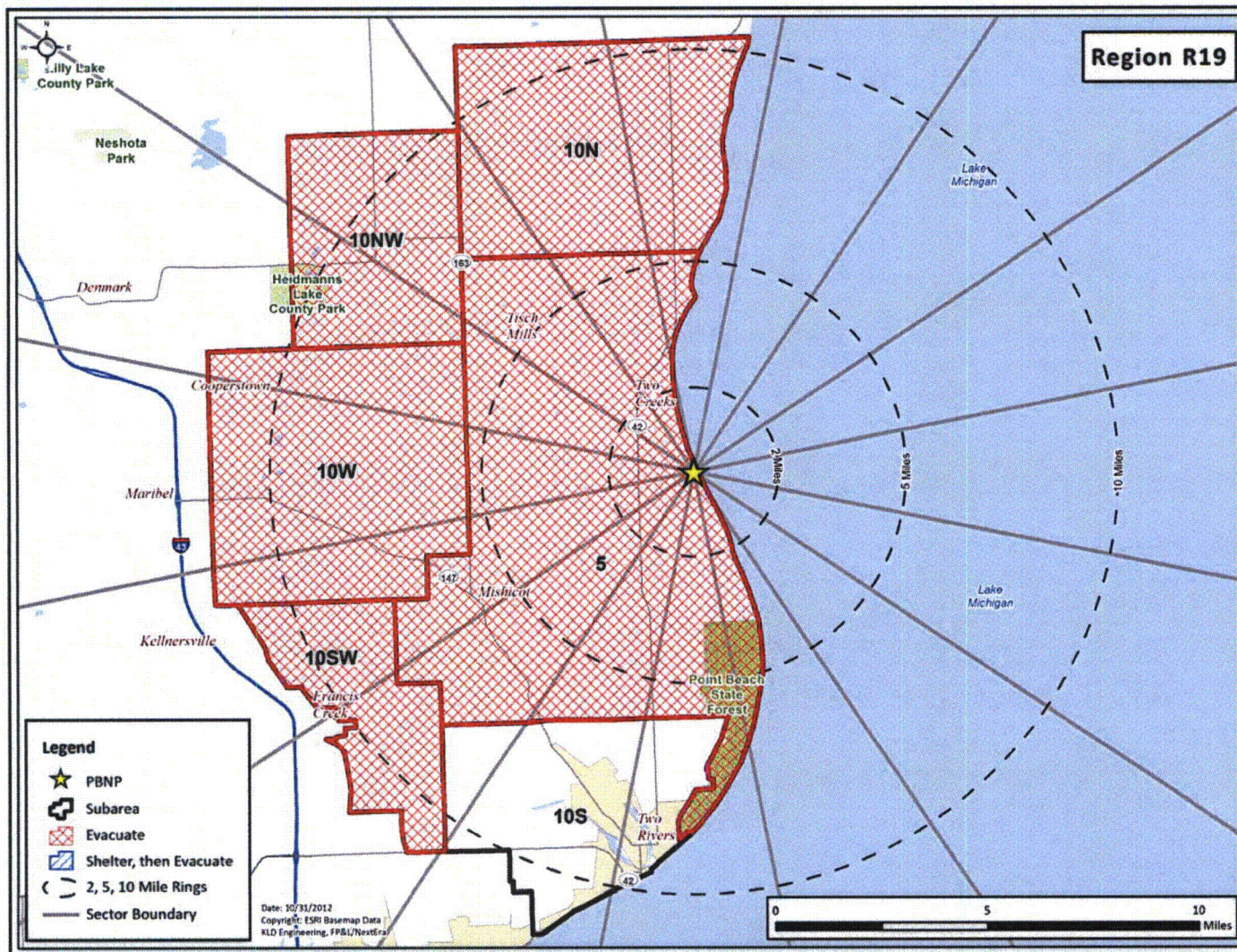


Figure H-19. Region R19