

NE3110905

R 07E R 08E



R 08E R 09W

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T 11N
T 10N

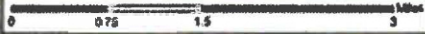
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R 07E R 08E

Midwest Interstate and Energy

Time-of-Travel (TOT) lines were created for each municipal well using the three dimensional numerical groundwater model MODFLOW. This model is based on the best known geologic, water level, and pumping information available. A number of model scenarios were run to examine the various potential capture zones for the wells. A composite capture zone, the area encompassing all modeled scenarios, was used to delineate the City's Wellhead Protection (WHP) Area as it provides an adequate buffer to account for seasonal changes and natural variability in the aquifer. Additionally, property boundaries, section lines, and water bodies were used to draw the WHP boundaries to allow for easier land management and identification.

- PWS Wells
- 1000R Buffer
- 1yr TOT
- 2yr TOT
- 10yr TOT
- 20yr TOT
- 50yr TOT
- WHP Boundary
- Composite Capture Area



WAVERLY
 LANCASTER COUNTY
 Modeled by WSP USA, Inc
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 Environmental Quality, June 2018

