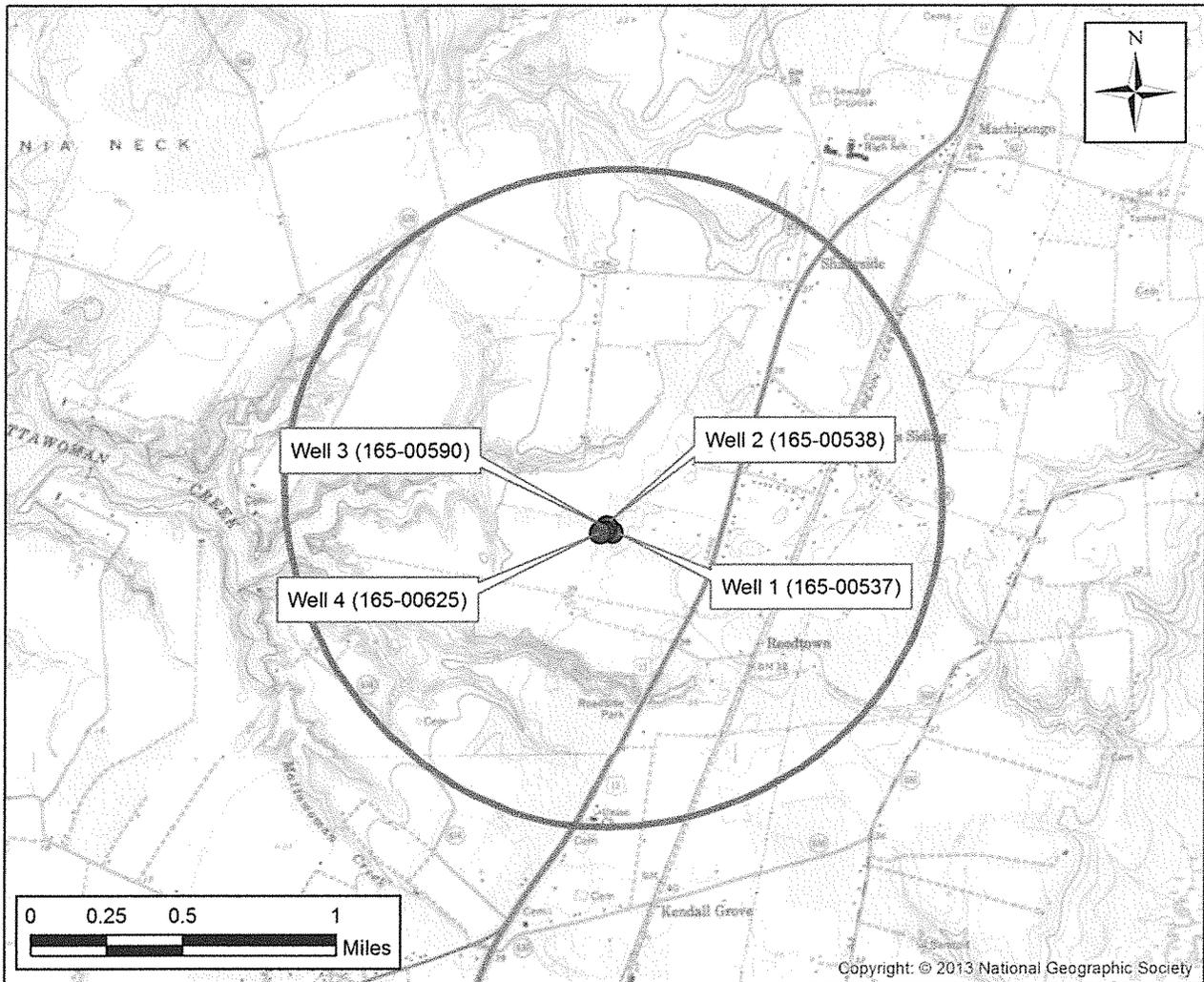


Highway Farm Area of Impact - Upper Yorktown-Eastover Aquifer



● Highway Farm Wells

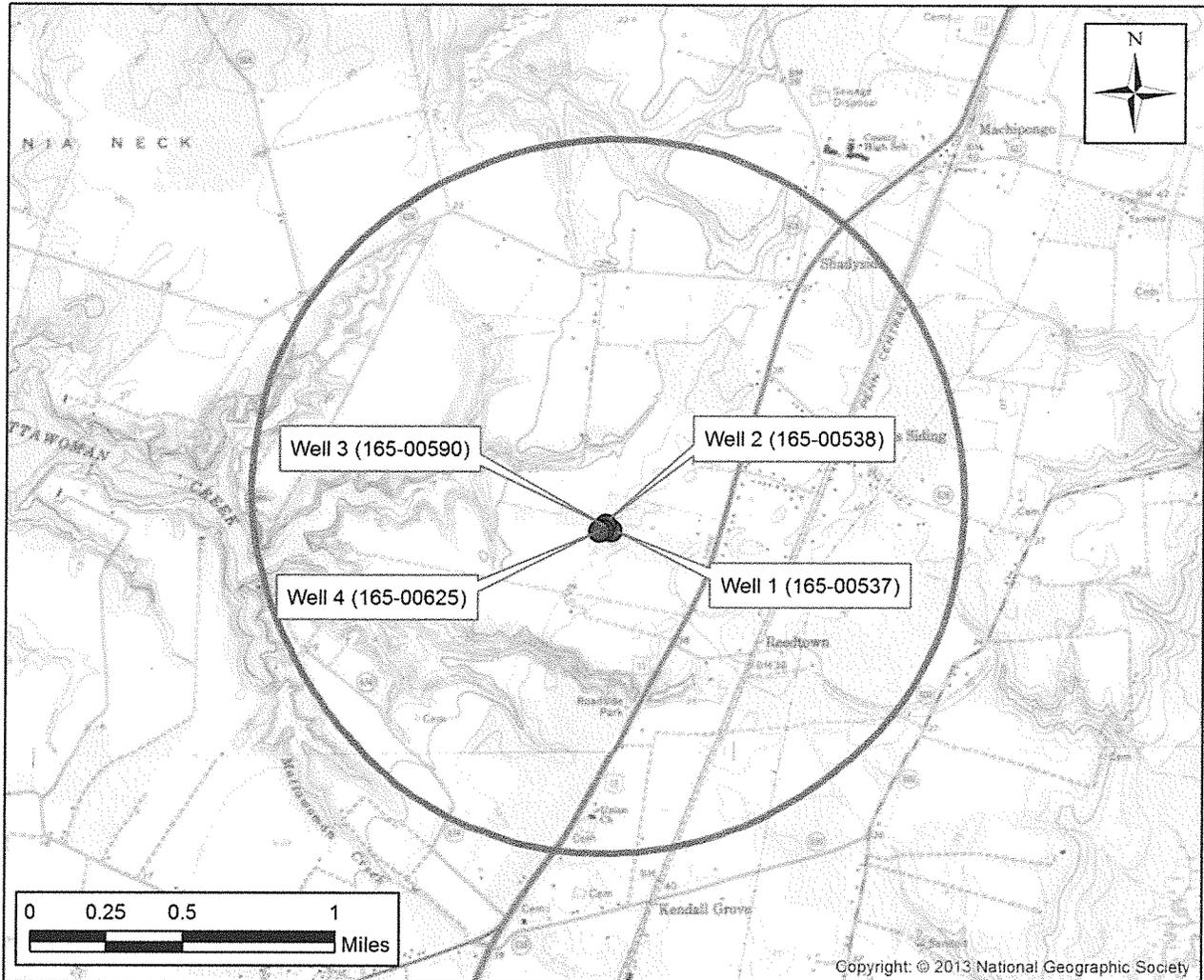
○ Upper Yorktown-Eastover Area of Impact

Simulated drawdown at or exceeding one foot in the Upper Yorktown-Eastover aquifer resulting from a 10 year lump sum of 394,000,000 gallons simulated for 7 years at 49,390,000 gallons per year followed by 78 days at 18,950,000 gallons per month from the Upper Yorktown-Eastover and Lower Yorktown-Eastover aquifers. Maximum radius of one-foot drawdown (Area of Impact) occurs 1.2 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply November 3, 2014



Highway Farm Area of Impact - Middle Yorktown-Eastover Aquifer



● Highway Farm Wells

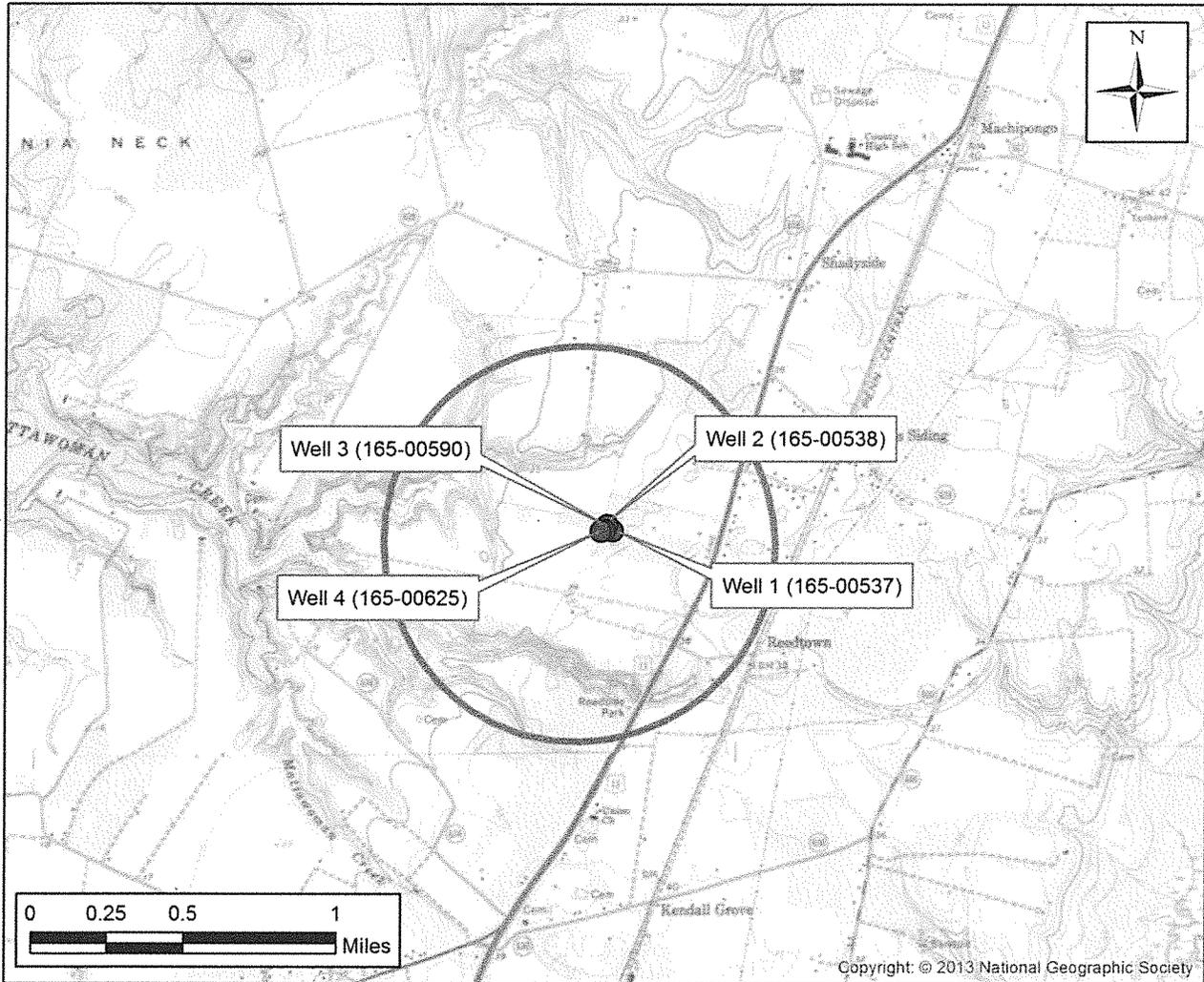
○ Middle Yorktown-Eastover Area of Impact

Simulated drawdown at or exceeding one foot in the Middle Yorktown-Eastover aquifer resulting from a 10 year lump sum of 394,000,000 gallons simulated for 7 years at 49,390,000 gallons per year followed by 78 days at 18,950,000 gallons per month from the Upper Yorktown-Eastover and Lower Yorktown-Eastover aquifers. Maximum radius of one-foot drawdown (Area of Impact) occurs 1.3 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed
by Aquaveo, LLC for the Virginia
DEQ, Office of Water Supply
November 3, 2014



Highway Farm Area of Impact - Lower Yorktown-Eastover Aquifer



● Highway Farm Wells

○ Lower Yorktown-Eastover Area of Impact

Simulated drawdown at or exceeding one foot in the Lower Yorktown-Eastover aquifer resulting from a 10 year lump sum of 394,000,000 gallons simulated for 7 years at 49,390,000 gallons per year followed by 78 days at 18,950,000 gallons per month from the Upper Yorktown-Eastover and Lower Yorktown-Eastover aquifers. Maximum radius of one-foot drawdown (Area of Impact) occurs 0.8 miles from the pumping center. The Virginia Eastern Shore Model developed by the USGS was used to simulate drawdown.

Technical evaluation performed by Aquaveo, LLC for the Virginia DEQ, Office of Water Supply November 3, 2014

