MEMORANDUM

TO: Commissioner Seggos
FROM: Robert K. Davies
DATE: December 12, 2018
RE: Town of Bristol and South Bristol Oak Wilt Commissioner's Order

Attached for your review and approval is the Town of Bristol and South Bristol Oak Wilt Commissioner's Orders to establish a quarantine district and protective zone including portions of the town of Bristol and South Bristol. We included language from the Department of Agriculture and Markets for allowing nursery stock movement and language for our own DEC permit for log and firewood, etc. movement.

Dispersal of Oak Wilt has been primarily characterized by forest management experiences and research conducted in Texas, Michigan and Wisconsin. Within the infested area, specified by the probability of root grafting and insect aided dispersal, there is no certain way to determine which susceptible trees are currently infested and which trees are not. The primary agents of dispersal away from infested areas are human assisted movements of infested wood material in the form of firewood, arboriculture trimmings and logs. These woody materials are attractive to the insect vectors of the disease who subsequently move onto healthy trees and take the disease with them. There are also several instances of suspected disease vectoring by contaminated arboriculture tools like saws and other cutting or clipping devices. There is little certainty for how long contaminated tools would be viable as disease vectors. The only sure way to reduce these risks is to restrict the movement of any wood materials out of the infested areas. All trees identified as infested must be eliminated at the site to reduce the sources of disease inoculum.

The primary known vectors are small sap feeding beetles that move the fungus spores from an infected host tree to an otherwise healthy tree. These beetles vector the disease by being attracted to and then feeding on the fungus resident in trees killed the previous year. During this feeding, these beetles get covered in the fungus spores which they then move to a healthy oak. The beetles deposit these spores during their feeding on the sap running from fresh wounds on otherwise healthy trees. These small wounds are frequently encountered in the spring and in all tree types following arboriculture pruning or storm or mechanical breakage or other injury. There are a
number of insects implicated in this vector pathway, but research to date has not been clear on the relative importance of the species or on precisely how they would vector the disease. Bark inhabiting beetles may also play a role, so moving materials that have not been dead for at least two full years would present a risk of disease transport by them as well. These risks for insect vectors expanding the infestation must be reduced or eliminated by destroying all infested trees and restricting the movement of any wood materials out of the infested area.

Please indicate your approval by signing the attached Order. Thank you.

Attachments
WHEREAS:

- Oak wilt is a serious tree disease that was first detected in the Great Lakes Region of the United States in 1944. Since that time, it has spread killing thousands of oak trees each year. Oak wilt is caused by a fungus, *Bretziella fagacearum*, which causes blockage of the water conducting vessels (xylem) of host trees slowing the movement of water within the tree whereby the leaves wilt and drop off. Infected red oak trees typically die within a few weeks of infection. The disease is spread through underground root systems and by beetles that colonize within infected trees. In addition, the spread of oak wilt disease is associated with the movement of firewood and other wood products. Thus, immediate action by the Department of Environmental Conservation ("Department") is necessary to eliminate this infestation and prevent the spread of this fungus to protect oak trees in the surrounding area and the entire state;

- In August 2008 oak wilt was confirmed for the first time in New York State on two properties in the community of Glen Oaks within the town of Glenville, Schenectady County, New York;

- On October 16, 2008, Commissioner Grannis issued an emergency order directing staff to develop an eradication plan with public involvement and to notify affected landowners; that order further established a protective zone and ordered that no person shall remove any oak tree or portion thereof from such protective zone;

- In October 2008 Department staff consulted with US Forest Service oak wilt experts to develop and implement a comprehensive oak wilt response and eradication plan for the infested area. This plan was developed with the involvement of the affected homeowners and community;
• In September 2016, Department and New York State Department of Agriculture and Markets ("NYSDAM") staff confirmed that oak wilt disease had infected oak trees in the Town of Canandaigua, Ontario County, New York. Commissioner Seggos issued an order directing staff to develop an eradication plan with public involvement and to notify affected landowners; that order further established a protective zone;

• In August 2018, the Department confirmed that oak wilt disease had infected oak trees in the Town of South Bristol, Ontario County, New York;

• The Environmental Conservation Law ("ECL") § 9-1303(5) authorizes the Department by order to establish a Quarantine District to prohibit the movement of materials which may be harboring forest tree diseases;

• ECL § 9-1303(7) empowers the Department to establish protective zones for the purpose of preventing the spread of forest tree diseases;

• Department staff has delineated the area infected with oak wilt disease within the Towns of South Bristol and Bristol in Ontario County, New York, as described on Schedule A, which shall be known hereinafter as the "Quarantine District and Protective Zone"; and

• ECL § 9-1303(7) provides that in establishing protective zones, the Department shall have the authority to enter onto private lands to make such modification in the composition of forest growth as it may deem necessary for the purpose of preventing the spread of forest tree diseases, including: spraying, cutting, destroying or otherwise treating trees or other vegetation located in the Protective Zone.

NOW, THEREFORE, pursuant to ECL § 9-1303 and based upon the above:

1. I HEREBY FIND that Oak Wilt Disease has infected oak trees in the Town of South Bristol, Ontario County, New York and that, in order to protect the forests of New York State, the Department must take immediate action to eradicate this infestation and prevent its spread;

   1A. Except as authorized by the Department by permit, no person shall move any living, dead, standing, cut or fallen oak trees or any portion thereof, including branches, logs, stumps or roots, green oak lumber and firewood (of any
species) outside of the Quarantine District and Protective Zone unless it has been chipped to less than one (1) inch in two (2) dimensions;

1B. Oak nursery stock grown for a period exceeding two years within the Quarantine District and Protective Zone may be moved out of the Quarantine District and Protective Zone only pursuant to a permit issued by the NYSDAM, Division of Plant Industry, specifically authorizing such movement, and only if the shipping nursery is under a compliance agreement with the NYSDAM, Division of Plant Industry. This compliance agreement will require oak wilt surveys in nurseries and specify production practices to minimize the risk of spreading oak wilt through nursery stock movement. It will also require nursery growers handling regulated articles to compile, maintain and make available for inspection for a period of two years, records of inventory and sales of regulated articles on a form or forms prescribed by the Commissioner of NYSDAM;

1C. Living or dead oak trees or any portion thereof and firewood (of any species) may be moved outside of the Quarantine District and Protective Zone under a Department, Division of Lands and Forests limited transportation permit, providing the materials are from sources apparently free of oak wilt disease; transportation of such materials shall only occur from August 1st through March 31st; materials shall be shipped with a copy of the permit and proper shipping documents.

2. I HEREBY ORDER Department staff to continue to develop and implement, with public involvement, an eradication plan including: (1) the removal of infected and potentially infected host trees, (2) proper disposal of infected material, and (3) any other action reasonably necessary to prevent the spread of oak wilt disease.

3. I FURTHER ORDER Department staff to continue to take reasonable steps and exercise due diligence to notify, work cooperatively with and enter into agreements with affected landowners as appropriate to implement the Department’s eradication plan;

4. I FURTHER ORDER that the infected area, as delineated on Schedule A and the attached map of boundaries, is designated as the Quarantine District and Protective Zone for the purposes of carrying out this order;
5. I FURTHER ORDER that the areas where oak is removed by the Department shall remain oak free, except as authorized by the Department in writing, including any appropriate preventive measures;

6. I FURTHER ORDER that a copy of this order be immediately filed in the Office of the Clerk of Ontario County; and

7. THIS ORDER SHALL BE EFFECTIVE ten days from the filing thereof with such Office and shall remain effective until oak wilt disease has been declared eradicated from within the Quarantine District and Protective Zone.

DATED: 1/7/19

Basil Seggos
Commissioner
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Including those parts of the Town of Bristol, and South Bristol, Ontario County forming a continuous block of properties including 6423 and 6371 Dugway Road and properties to the south; to all properties along Stid Hill Road including and north of 5914 Stid Hill Road and municipal parcel identification #3246002668; and including properties to the east of State Route 64 from municipal parcel identification #3220001392 through municipal parcel identification #324600200 and municipal parcel identification #’s 324600129, 324600161, and 324600864; and including properties to the west of State Route 21, including 5406, 5430, 5672, 5674, 5680, 5712, 5720, 5752, and 5774 State Route 21.