1500 North Mantua Street
Kent, Ohio 44240
www.Davey.com

Davey Institute Plant and Soil Diagnostic Laboratories

Client: Harmony Community District (CDD)
3500 Harmony Square
Harmony, FL 34773

Territory: 141505 Harmony CDL
Territory Manager: Rick Mansfield

Plant Laboratory Number: 16-632-633a
Plant Species: Laurel Oak (*Quercus laurifolia*) Tree #1 and #2

Part Submitted: Branches with leaves; digital images
Sample Condition: Fair, Dry
Soil Laboratory Number: 325-330-16

Submitter Observations: Leaf spot/blight, leaf discoloration, dead. Branches – dieback
Laboratory Observations: Foliage – beta spores of a *Phomopsis* sp. fungus; spores of a *Monochaetia* sp. fungus; off-color green; necrotic spots; overall thinning of canopy. Branch – spores of a *Monochaetia* sp. and a *Truncatella* sp. fungi; dieback; vascular discoloration; cankers

Diagnosis: Adverse environmental conditions and/or poor site conditions suspected

History of the Site: Three laurel oaks in close physical proximity died suddenly. Death of trees was noted 4/28/14. Previously diagnosed with Oak Bot Canker (*Diplodia corticola*) by the University of FL Forest Health Laboratory at the School of Forest Resources and Conservation. In February of 2016, symptoms were observed on several new trees. Trees are located in a lawn setting with nearby sidewalks.

Follow-up Report:

Culture results: Phomopsis leaf spot was confirmed microscopically on both samples. The *Monochaetia* sp. and *Truncatella* sp. fungi confirmed on leaves and stem tissue appear to be secondary invaders on senescing tissue. No evidence of Botryosphaeria canker has yet been identified in culture. No evidence of oak wilt has been found in culture. The Davey Lab will hold the cultures for one more week. A Final Report will be sent at that time.

Adverse environmental conditions and/or poor site conditions are suspected as the primary cause of decline. These types of abiotic problems can promote development of Bot Canker of Oak and other decline-related diseases, Oak wilt and Dothiorella wilt.

See Web site for more information on Bot Canker of Oak in Florida: http://edis.ifas.ufl.edu/fr386