CITRUS ADVANCED TECHNOLOGY PROGRAM

QUARTERLY & FINAL PROGRESS REPORT FORM: Control of Citrus Greening, Canker & Emerging Diseases of Citrus

▶**PROJECT QUARTER END** June 2023 ◉ *Quarterly Report* ○ *Final*

Proposal Title

Directed research – Evaluation of different trunk injection devices and oxytetracycline formulations for efficacy against HLB, phytotoxicity, and feasibility

Today's Date: 07/14/2023

Sponsoring Organization (drop-down): Citrus Research and Development Foundation

Category (drop down): Horticultural & Management

ABSTRACT (Executive Summary-public report-do not disclose proprietary information or intellectual property)

1. Please state project objectives and what work was done this quarter to address them:

Objectives: 1) Test the efficacy of different injection devices, 2) Determine the most effective formulation of OTC, 3) Determine the best month of injection and most appropriate OTC concentration based on tree size.

Trial 1: Located in SW Florida (Duda) - 8-year-old Valencia/Carrizo trees.

HLB ratings were conducted. Wounds from year 1 injections were assessed. Year-2 April injections were completed. Leaves were collected for CLas analysis prior to injections.

Trial 2: Located in SW Florida (Graves Bros) - 8-year-old Valencia/Kuharske trees.

Trees were harvested and fruit quality analysis was completed. HLB ratings were conducted. Wounds from year 1 injections were assessed. Year-2 injections were completed. Leaves were collected for CLas analysis prior to injections.

Trial 3: Located on the east coast (Graves Bros) - 9 year-old Valencia/sour orange trees.

Trees were harvested and fruit quality analysis was completed. HLB ratings were conducted. Wounds from year 1 injections were assessed. Year-2 injections were completed. Leaves were collected for CLas analysis prior to injections.

Trial 4: Located on the east coast (Graves Bros) - 4-year-old Valencia/x639 trees.

Year-2 May injections were completed. HLB ratings were conducted. Wounds from year 1 injections were assessed. Leaves were collected for CLas analysis prior to injections.

Trial 5: Located on the central ridge (King Ranch) - 4-year-old OLL-8/x639 trees.

Year-2 May injections were completed. HLB ratings were conducted. Wounds from year 1 injections were assessed.

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Organization: UF/IFAS SWFREC

Sponsor Project Number: 22-001

Project Duration (years): 2 *Year of Project* 2

% Completion of Objectives (FDACS requirement): 58.00%

CITRUS RESEARCH AND DEVELOPMENT FOUNDATION, INC.