KJOLHAUG ENVIRONMENTAL SERVICES COMPANY

Providing Sound, Balanced, Comprehensive Natural Resource Solutions

Memorandum

Date: June 7, 2021

To: The City of Ramsey, MN

CC: Tracey Rust, Excelsior Group, LLC

From: Kyle Uhler, Kjolhaug Environmental Services Company (KES)

Re: Site Tree Survey Methods – Trott Brook Property Ramsey, MN (KES#2021-108)

The Trott Brook Property will be surveyed for the presence and extent of significant trees. The site was located in Section 9 & 10, Township 32N, Range 25W, City of Ramsey, Anoka County, Minnesota. Generally, the site was located north of Trout Brook, west of Nowthen Boulevard NW, south of 173rd Ave NW, and west of Variolite Street NW. The site boundaries corresponded to Anoka County PID: 10-32-25-21-0002, 10-32-25-22-0003, 10-32-25-22-0002, 09-32-25-11-0001, 09-32-25-14-0001, 09-32-25-13-0001, and 09-32-25-42-0003.

The 195.92-acres site was comprised of approximately 27.7 acres of trees observed in planted rows and growing naturally dispersed adjacent to the cropped areas. The purpose of this memo is to explain the survey methods that will be utilized to capture significant tree locations within the project boundaries as defined by the City of Ramsey; MN Code of Ordinances *Sec. 117-327 (C)(2) defines Significant Trees:*

a. *All species of oak that have a DBH of four inches or greater;*
b. *All evergreen species that have a DBH of four inches or greater; and*
c. *All other trees that have a DBH of eight inches or more.*

Tree Survey Methods

Natural Wooded Areas Survey (Figure 1)

- All significant trees located in "Natural Woodland" will be sampled, approximately 10.9-acres.
- All significant trees located within wetland impacts will be sampled.
- All significant trees sampled would capture species, DBH, location, and health condition.

Planted Wooded Areas Plot Survey (Figure 2)

- The plot survey will utilize 17 randomly located 1/10th acre plots centered systematically across the contiguous planted woodland. The planted woodland cover approximately ~16.58 acres on the site, so this method would sample 1.7-ac of that area.
- From each plot center all significant trees will be sampled within a 37.2 ft radius. Only plot centers with a minimal distance of 37.2 feet form the edge of the planted woodland edge were utilized.
- All significant trees sampled would be sampled for species, DBH, location, and health condition.

Summary

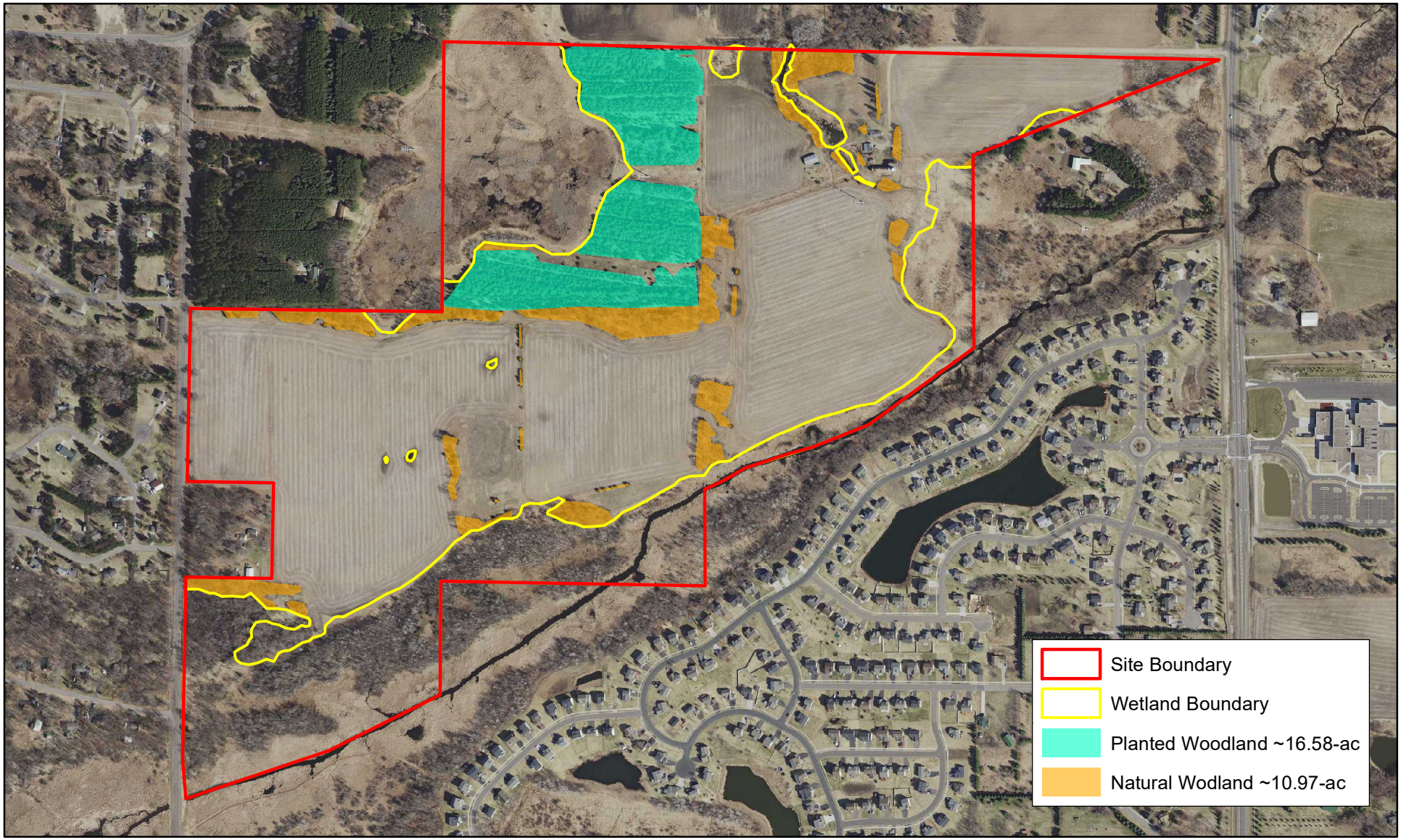
This method will produce; (1) the total basal area, species, location, and health condition for all trees in the natural woodland, (2) a per acre relative basal area, relative species abundances, and relative specie condition for the planted woodland areas. This survey will create a site-specific tree inventory for the Trott Brook Property in Ramsey, MN.

Trout Brook Property - Ramsey, MN

Site Assessment for Significant Trees

FIGURES

1. Tree Survey Overview
2. Planted Woodland Method



Tree Survey Overview

N

0 500 Feet

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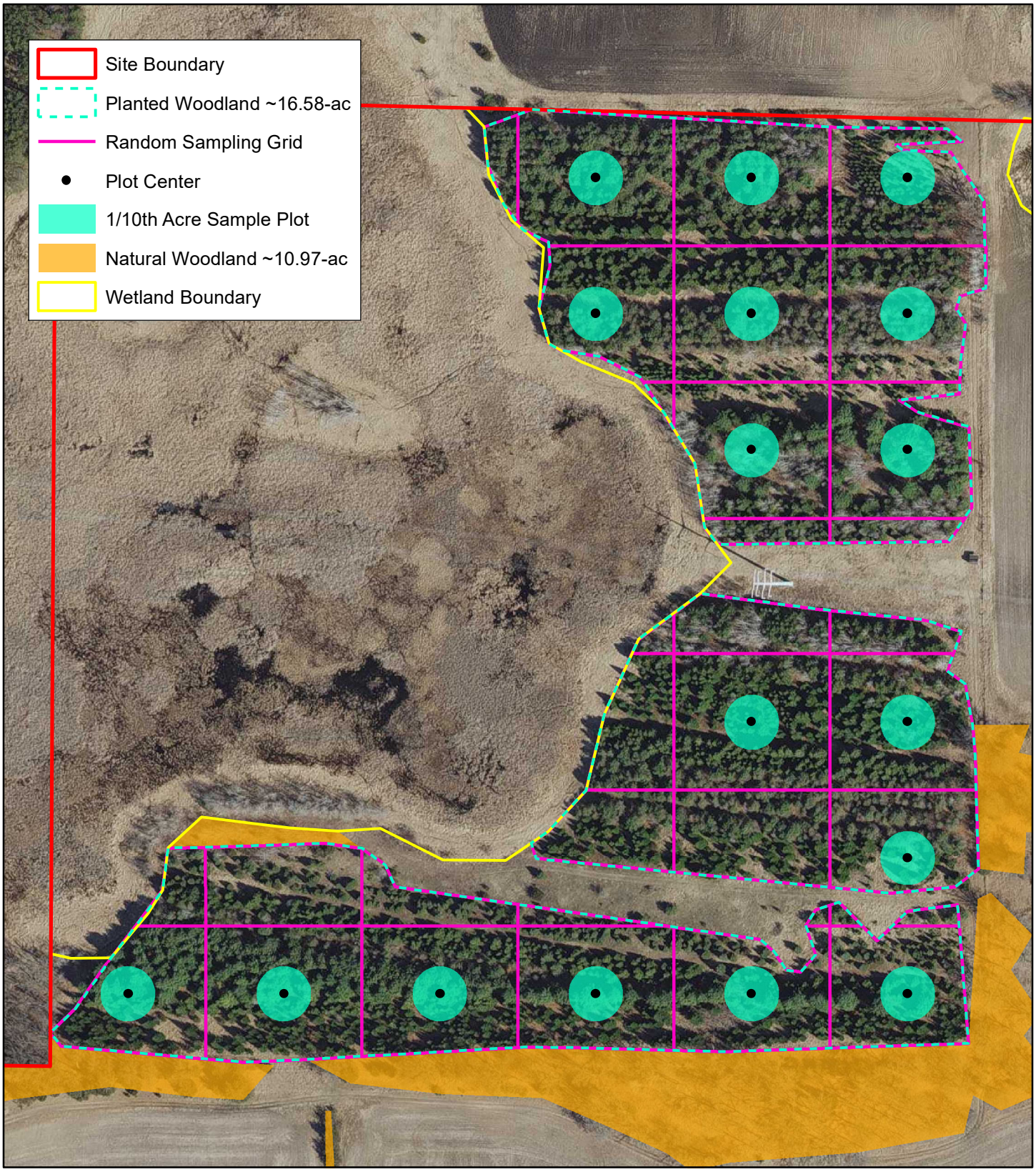
Source: MNGEO Spatial Commons

Trott Brook Property (KES 2021-108)
Ramsey, Minnesota

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.



Planted Woodland Proposed Sampling Method 6/7/2021

N

0 185 Feet

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Source: MNGEO Spatial Commons

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