

INDIVIDUAL PROJECT ORDER NUMBER 2025-02

Describing a specific Agreement between Kimley-Horn and Associates, Inc. (Kimley-Horn), and The City of Ocala (the City) in accordance with the terms of the Master Agreement Contract Eng/210895 for Continuing Professional Services dated September 25, 2022, which is incorporated herein by reference.

Identification of Project:

Project: Biosolids System Evaluation

Client: City of Ocala

Project Manager: Alan Garri, PE

General Category of Services:

1. The scope of work presented below was prepared following a discussion with the City of Ocala staff regarding biosolids system evaluations and conceptual design. Due to the recent cost increases associated with hauling the biosolids, the City requested Kimley-Horn to conduct an evaluation of various biosolids drying system replacement options to compare with the current method of hauling dewatered biosolids. The requested scope of work includes identifying drying alternatives with life cycle cost evaluations to compare each selected alternative. The City's goal is to evaluate biosolids disposal methods to confirm if the current method is the most cost effective.
2. The biosolids system evaluation project will generally consist of the following work:
 - a. Data gathering
 - b. Process calculations
 - c. Review biosolids drying system alternatives
 - d. Meetings with City staff to discuss alternatives
 - e. Cost opinions of preferred alternatives
 - f. Prepare an evaluation/recommendation report
3. The specific scope of services to be provided is described below.

SCOPE OF SERVICES

Task 1 – Data Gathering

- A. Kimley-Horn will meet with City staff at the WWTF site to kick-off the project, identify process equipment, and operating/process parameters.
- B. Kimley-Horn will review historical waste activated sludge (WAS) and feed sludge (FS) parameters with City staff to identify WAS and FS total suspended solids (TSS) and volatile suspended solids (VSS) characteristics and variability over time. Additionally, Kimley-Horn will review digester/sludge holding operational strategy and history with City staff.
- C. Kimley-Horn will perform a condition assessment and operational history review of the existing dewatering. The review is intended to provide a baseline for comparison to the alternatives.

- D. Kimley-Horn will review historical biosolids processing operation/maintenance costs with City staff. The financial review will include person-hour requirements, maintenance costs, hauling/disposal costs, and other related costs as identified by City staff. The financial and operational information will be used to determine an approximate cost per unit weight of finished product.

Task 2 –Drying System Evaluations

- A. Kimley-Horn will conduct a literature review of drying system options. The review will include compiling a list of available drying technologies, list of manufacturers, performance expectations, approximate capital cost, and approximate operation/maintenance cost for each technology.
- B. Kimley-Horn will review available drying options with City staff to identify specific technologies for further evaluation. Kimley-Horn will work with City staff to identify up to 3 specific drying options for further evaluation. to compare to the cost of hauling the dewatered biosolids.
- C. Kimley-Horn will work with City staff to refine the drying system technology and vendor list a final list of up to 3 drying systems. Kimley-Horn will request each vendor to provide preliminary design information, budgetary capital cost, operation/maintenance cost information, anticipated energy use, and system performance estimates. Kimley-Horn will prepare a present value life cycle cost evaluation for each alternative.

Task 3 – Evaluation Report

- A. Kimley-Horn will prepare a draft report that consists of a description of each alternative, list of pro and cons, and life cycle cost estimate. The report will include an alternative ranking matrix that will consist of considerations and weighting criteria developed through interaction with City staff.
- B. Kimley-Horn will review the draft report with City staff and make revisions based on the City's comments. Kimley-Horn will provide the City with up to five hard copies and one electronic copy of the final report.

ADDITIONAL SERVICES

Services requested that are not specifically included will be provided under a new and separate IPO agreement or can be performed on an hourly basis upon written authorization.

SCHEDULE

Kimley-Horn will begin services upon receipt of an executed agreement or written authorization from City staff. Kimley-Horn will provide the literature review within 45 calendar days of written authorization to proceed. Kimley-Horn will provide the draft evaluation report within 60 calendar days of the completing the drying system evaluations.

FEE AND EXPENSE

Kimley-Horn will perform the Scope of Services outlined above for a lump sum fee of \$80,585.43. All permitting, application, and similar project fees will be paid directly by the City. A breakdown of the fee per task is provided in the Attached Table A.

Attachments: Table A

ACCEPTED:

THE CITY OF OCALA, FLORIDA

KIMLEY-HORN AND ASSOCIATES, INC.

BY: _____

BY:  _____
Amber L. Gartner, PE

TITLE: _____

TITLE: Vice President

DATE: _____

DATE: February 20, 2025

**TABLE A
COST ESTIMATE FOR SERVICES**

PROJECT: Biosolids Study
 CLIENT: CITY OF OCALA
 KHA PM: Alan Garri, P.E.
 BASIS FOR ESTIMATE: COUNCIL-APPROVED HOURLY RATES, CONTRACT #ENG/210895

SHEET: 1 of 1
 DATE: 2/20/2025

		DIRECT LABOR (MAN-HOURS)											
		Project Manager 2	Chief Engineer 1	Senior Engineer 1B	Senior Engineer 2	Project Engineer 2	Project Engineer 1	Engineering Intern	Chief Designer	Secretary/ Clerical	LABOR HOURS	SUB (\$)	LABOR TOTAL
NO.	DESCRIPTION	\$224.86	\$305.66	\$262.47	\$260.05	\$225.65	\$175.50	\$137.42	\$170.09	\$103.26			
Task 1	Data Gathering	10	8			45		60		20	143.0		\$ 25,158.53
Task 2	Dewatering/Drying System Evaluations	10	20	20		30		60		10	150.0		\$ 29,658.50
Task 3	Evaluation Report	10	10	20		40		30		20	130.0		\$ 25,768.40
											0.0		\$ -
											0.0		\$ -
											0.0		\$ -
											0.0		\$ -
SUB TOTAL:												\$ -	\$ 80,585.43
GRAND TOTAL:												\$	80,585.43