



DRAFT

**Wastewater
Treatment and
OSTDS
Remediation
Plan**

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**Town of
Montverde**
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INTRODUCTION

Florida's Clean Waterways Act (Senate Bill 712 – 2020) Subparagraph 403.067(7)(a)9., Florida Statutes, specifies that local governments (counties and municipalities) within a basin management action plan (BMAP) must develop a wastewater treatment plan and/or an onsite sewage treatment and disposal system (OSTDS) remediation plan if the Florida Department of Environmental Protection (FDEP) identifies these facilities as contributors of at least 20 percent of point source or nonpoint source nutrient pollution, or if FDEP determines remediation is necessary to achieve the total maximum daily load (TMDL). Based on its location within the Upper Ocklawaha BMAP, the Town of Montverde was notified by FDEP of its need to address these requirements.

Woodard & Curran prepared this report on behalf of, and in coordination with, the Town of Montverde. It presents the information requested by FDEP in the wastewater treatment plan and/or an onsite sewage treatment and disposal system (OSTDS) remediation plan guidance, as applicable to meet the Town's obligations under this provision of the Clean Waterways Act.

1. OSTDS REMEDIATION PLAN

1.1 Inventory of OSTDS in Local Service Area

The inventory of onsite sewage treatment and disposal systems (OSTDS) in the Town of Montverde's limits and local service area was prepared using 2022 GIS Data from the Florida Water Management Inventory (<https://gis.floridahealth.gov/flwmi/>) at the Florida Department of Health (FDOH). A map showing the known wastewater disposal method of each parcel within the Town limits and larger service area is shown in Figure 1.

A summary of the total parcels broken down by wastewater disposal classification is provided in Table 1-1. The counts for each classification were based on the same 2022 FLWMI data as Figure 1, though supplemented with sewer customer counts from the Town's Wastewater Utility as of the end of 2023.

TABLE 1-1: PARCEL COUNTS BY WASTEWATER DISPOSAL CLASSIFICATION

Classification	Within Town Limits	Remainder of Service Area	TOTAL
Known Central Sewer	70	80	150
Known Onsite Septic	634	110	744
Likely Onsite Septic	0	178	178
Somewhat Likely Onsite Septic	0	3	3
Unknown, No Data	14	17	31
TOTAL	718	388	1,106

From this data we conclude there are 634 OSTDS within the Town limits, and another 291 outside the Town limits that are within the Town's designated utility service area, for a total of 925.

1.2 Estimate of Future OSTDS Growth

As part of the development approval process within the Town limits, the Town Council presently requires that new developments be constructed with central sewer collection systems. The Town has taken a similar position for all major developments in its utility service area, where it has review and approval authority for wastewater treatment and disposal methods. Therefore, no new OSTDS growth is anticipated during the 20-year planning period.

1.3 Inventory of OSTDS to be Eliminated

The Town has initiated the process of implementing a central wastewater collection system and treatment plant to eliminate the use of OSTDS where feasible within the Town limits and utility service area. Design is presently underway on the initial phase (Phase 1A) of this system, which is expected to include a new wastewater treatment plant, primary wastewater transmission system infrastructure, and a collection in the Town's southwest area comprising the Magnolia Terrace and Four Lakes residential developments. This phase will eliminate approximately 150 OSTDS currently in use on those parcels.

The next phase (Phase 1B) of the Town’s wastewater system will expand the collection system infrastructure and treatment plant capacity to serve additional homes and businesses in the Downtown and Franklin Pond areas centrally located within the Town – eliminating an additional 250 septic tanks.

Future phases will include the additional collection infrastructure to connect the remainder of developed parcels within the Town limits and utility service area, where feasible and as funding becomes available. The conceptual plan for the initial and future phases of the proposed system is shown in Figure 2.

1.4 Anticipated Schedule for Development of Treatment and Collection Projects

The anticipated schedule for central wastewater treatment and collection system projects is provided in Table 1-2.

TABLE 1-2: WASTEWATER PROJECT DEVELOPMENT MILESTONES

Phase	Stage	Start	End
Phase 1A	Planning	July 2022	July 2023
	Design	August 2023	December 2024
	Construction	August 2024	June 2026
Phase 1B	Planning	January 2023	December 2023
	Design	TBD	TBD
	Construction	TBD	TBD
Future (to Buildout)	Planning	TBD	TBD
	Design	TBD	TBD
	Construction	TBD	TBD

1.5 Estimated Cost of Sewer Collection Projects

The conceptual capital cost estimates of the planned wastewater collection and treatment system projects are provided in Table 1-3.

TABLE 1-3: CONCEPTUAL CAPITAL COSTS OF WASTEWATER PROJECTS

Phase	Wastewater Collection & Transmission	Wastewater Treatment & Disposal	TOTAL
Phase 1A	\$4,000,000	\$11,000,000	\$15,000,000
Phase 1B	\$2,000,000	\$6,000,000	\$8,000,000
Future (to Buildout)	TBD	TBD	TBD
TOTAL	\$6,000,000	\$17,000,000	\$23,000,000

1.6 Potential OSTDS Upgrades to Enhanced Nutrient Reduction

Given the Town's present plans to eliminate OSTDS within its Town limits and service area through implementation of a central sewer system, there are presently no parcels with an identified need to upgrade to Enhanced Nutrient Reducing onsite systems.

1.7 Estimated Cost of OSTDS Upgrades

Given the Town's present plans to eliminate OSTDS within its Town limits and service area through implementation of a central sewer system, there are presently no known costs to estimate for upgrades to Enhanced Nutrient Reducing onsite systems.

1.8 Other Projects Needed to Achieve Load Reductions

No other projects have been identified to achieve load reductions.

2. WASTEWATER TREATMENT PLAN

At present, there is one known wastewater treatment plant in operation within the Town of Montverde. Montverde Academy operates an extended aeration wastewater treatment plant that serves its campus. The treatment plant is located in the northwest corner of the campus near the shore of Lake Florence.

Phase 1A of the Town of Montverde's proposed central wastewater collection and treatment system incorporates the treatment of existing and future wastewater flows from Montverde Academy, enabling its existing treatment plant to be decommissioned. Because Phase 1A is presently under design, the permitted capacity and effluent limits are yet to be determined.

FIGURES

FIGURE 1: PARCEL MAP SHOWING WASTEWATER DISPOSAL METHODS

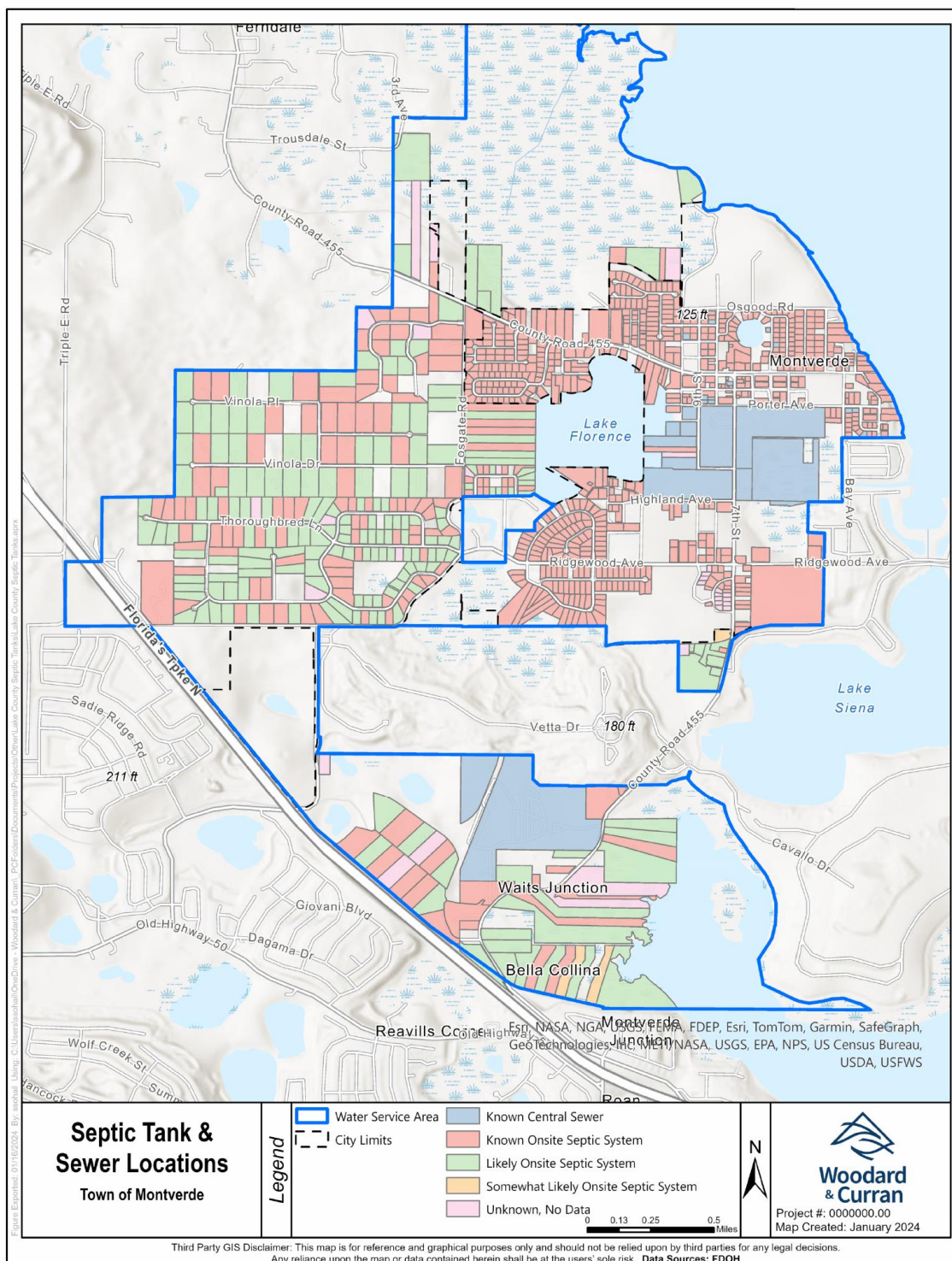
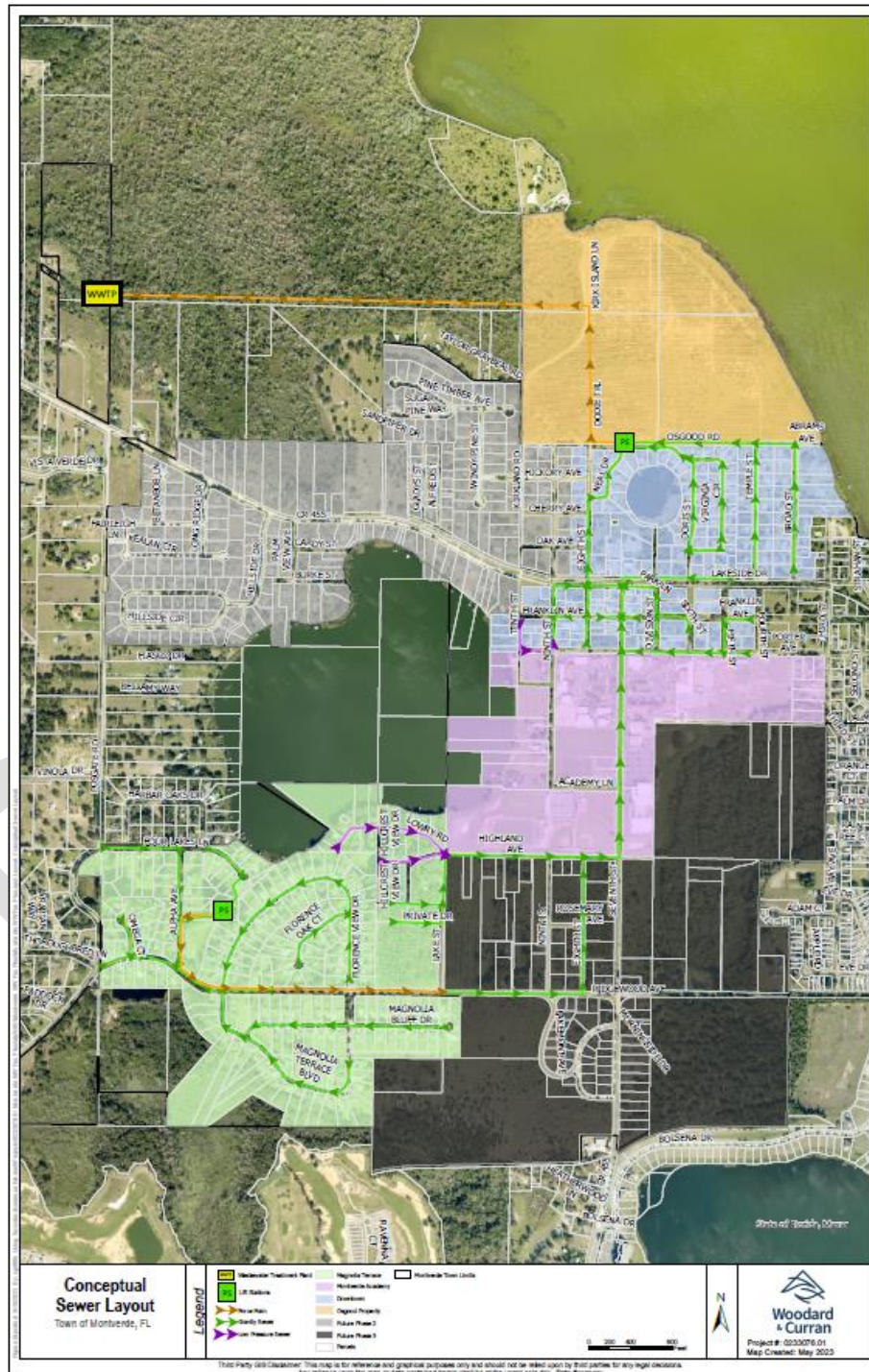


FIGURE 2: CONCEPTUAL SEWER LAYOUT



APPENDIX A: SUPPORTING INFORMATION

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