



DRAFT

**Wastewater
Treatment and
OSTDS
Remediation
Plan**

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City of Mascotte
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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 City of Mascotte was notified by FDEP of its need to address these requirements.

Woodard & Curran prepared this report on behalf of, and in coordination with, the City of Mascotte. 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 City'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 City of Mascotte'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 City 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 updated sewer customer counts from the City'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	273	0	273
Known Onsite Septic	1,497	232	1,729
Likely Onsite Septic	577	471	1,048
Somewhat Likely Onsite Septic	9	19	28
Unknown, No Data	93	45	138
TOTAL	2,449	767	3,216

From this data we conclude there are 2,083 OSTDS within the City limits, and another 722 outside the City limits that are within the City's designated utility service area, for a total of 2,805.

1.2 Estimate of Future OSTDS Growth

The city's land development regulations require that every developed lot within a subdivision shall be served by a wastewater treatment and disposal system that is adequate to accommodate the reasonable needs of the lot and that complies with all applicable City plans and all health regulations. For proposed new developments, the City shall require either connection to the City's central sewer system. The installation of OSTDS is only allowed where the City's central sewer system is unavailable.

The City has a program underway to expand its central sewer collection system, as laid out in a Clean Water Facilities Plan submitted to FDEP in January 2022. The primary focus of that plan was to expand the collection system to make connection available to new developments as they are identified. As this approach will avoid future growth of OSTDS in new developments, no new OSTDS growth is anticipated during the 20-year planning period.

1.3 Inventory of OSTDS to be Eliminated

The City has a program underway to expand its central sewer collection system, as laid out in a Clean Water Facilities Plan submitted to FDEP in January 2022. While the primary focus of that plan was to avoid future growth of OSTDS in new developments, the plan also includes the conversion of approximately 500 existing homes from OSTDS to central sewer. The location of these homes is shown in Figure 2 in the map areas designated as Dry Sewer Developments.

1.4 Anticipated Schedule for Development of Treatment and Collection Projects

The City of Mascotte's existing sewer collection system consists of approximately 10,000 linear feet (LF) of force main associated with two existing lift stations which serve three commercial businesses and one new residential development. Additionally, an inactive, dry gravity collection system is in place that serves approximately 500 homes, none of which are connected to the system. An Interlocal Agreement is in place with the City of Groveland to accept and treat the City's wastewater. The agreement provides Mascotte up to 275,000 gpd of capacity. Current usage is approximately 5,000 gpd.

Due to the projected growth that the City will undergo over the next 20 years, flows are anticipated to exceed existing treatment capacity within the 20-year planning period. Based on the life cycle analysis, it was determined to be most economical and advantageous for the City to continue to send flows to the City of Groveland for regional treatment via an Interlocal Agreement than to build and operate their own wastewater treatment plant. This will require an amendment to the existing Interlocal Agreement, which should include a revision to increase the total quantity of accepted flows to at least 1.37 MGD to meet the projected wastewater flows. The proposed improvements to the Mascotte collection system are shown in Figure 2. This includes eight new lift stations, retrofitting the existing Groveland Lift Station and installing associated force mains to convey flows to the City of Groveland. These improvements are planned to be implemented in the following phases:

- **Phase 1A** – Dry sewer developments and developments in design or construction with contributing wastewater flows to the existing interconnection to Groveland's Sampey WWTP
- **Phase 1B** – Approved developments with contributing wastewater flows to the existing interconnection to Groveland's Sampey WWTP
- **Phase 2** – Approved developments with contributing wastewater flows to the proposed interconnection to Groveland's Villa City WWTP
- **Phase 3** – Proposed developments with contributing wastewater flows to the proposed interconnection to the existing interconnection to Groveland's Sampey WWTP as well as to the proposed interconnection to Groveland's Villa City WWTP.

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	January 2021	January 2022
	Design	March 2023	December 2024
	Construction	March 2025	December 2026
Phase 1B	Planning	January 2021	January 2022
	Design	March 2023	December 2024
	Construction	March 2025	December 2026
Phase 2	Planning	January 2021	January 2022
	Design	TBD	TBD
	Construction	TBD	TBD
Phase 3	Planning	January 2021	January 2022
	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	\$8,100,000	\$3,200,000	\$11,300,000
Phase 1B	\$3,300,000	\$1,300,000	\$4,600,000
Phase 2	\$18,000,000	\$6,700,000	\$24,700,000
Phase 3	\$3,700,000	\$12,900,000	\$16,600,000
TOTAL	\$33,100,000	\$24,100,000	\$57,200,000

1.6 Potential OSTDS Upgrades to Enhanced Nutrient Reduction

Given the City's present focus on eliminating future OSTDS growth within its City limits and service area through expansion 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 City's present focus on eliminating future OSTDS growth within its City limits and service area through expansion of a central sewer system, there are currently no budgeted or known costs estimated 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.

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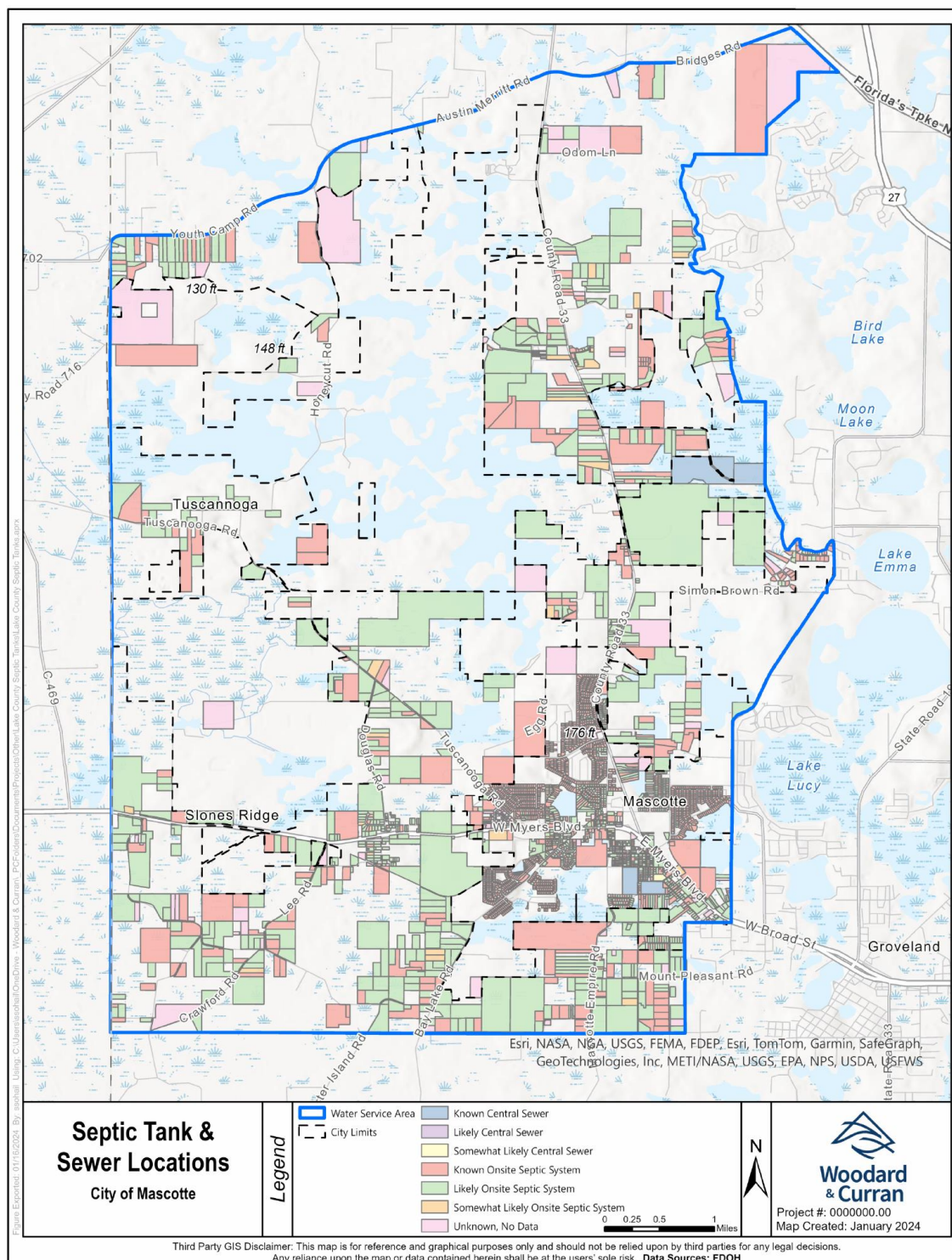
2. WASTEWATER TREATMENT PLAN

There are no wastewater treatment plants currently in operation within the City of Mascotte or its utility service area. Wastewater collected in Mascotte is currently sent to the City of Groveland for treatment at its Sampey Road WWTP. An Interlocal Agreement is in place with the City of Groveland to accept and treat up to 275,000 gpd from Mascotte. Current usage is approximately 5,000 gpd.

Due to the projected growth that the City will undergo over the next 20 years, flows are anticipated to exceed existing treatment capacity within the 20-year planning period. Based on the life cycle analysis, it was determined to be most economical and advantageous for the City to continue to send flows to the City of Groveland for regional treatment via an Interlocal Agreement than to build and operate their own wastewater treatment plant.

FIGURES

FIGURE 1: PARCEL MAP SHOWING WASTEWATER DISPOSAL METHODS



APPENDIX A: SUPPORTING INFORMATION

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