Town of Lake Park Stakeholder Meeting August 22, 2022

OLD DIXIE SEPTIC TO SEWER CONCEPTUAL REPORT

PRESENTED BY:



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Job#: 18187.27

THE 3 SECTIONS

- Section 1 South-Section Tri City Industrial Park 29 Properties
- · Section 2 Mid-Section Lake Park Public Works 6 Properties
- Section 3 North-Section

7 Properties

Total of 42 Properties



CURRENT SITUATION

- All 42 properties are on septic-type systems
- Groundwater contamination concerns ongoing
- State regulations are discussed annually regarding the adverse environmental impact of these systems
- Palm Beach County Health Department continues to tighten their regulations
- · Re-development could be a potential problem
- Property values may remain stagnant

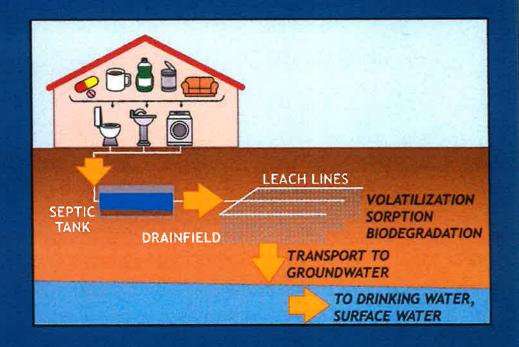
CURRENT WASTEWATER SYSTEM

- THE SEPTIC TANK PROCESS:
 - An underground chamber holds wastewater from a building or home
 - The waste settles and is broken down by naturally occurring enzymes and bacteria
 - The treated wastewater is then drained through underground drainage pipes on the property



CURRENT SEPTIC TANK CONCERNS

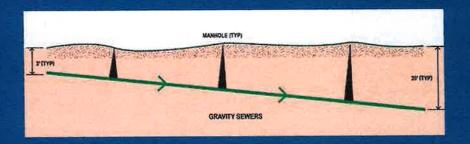
- Concern over effectiveness of the septic tanks for larger-scale industrial use
- Concern over hazardous
 waste discharge which
 cannot be treated by septic
 tanks



TWO REPLACEMENT ALTERNATIVES

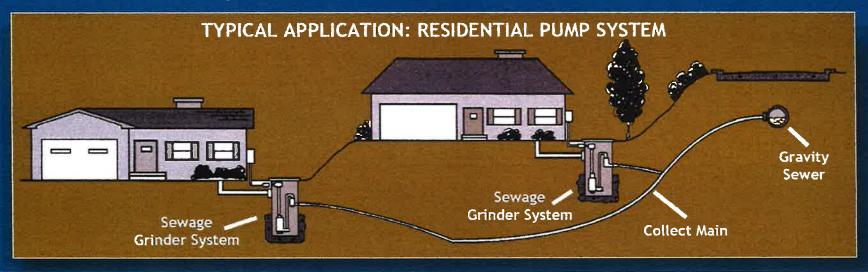
- · The low pressure system in which every property will have one
- The gravity/low pressure combination system where the South-Section (1) will have a gravity sewer, and the rest will have the low pressure





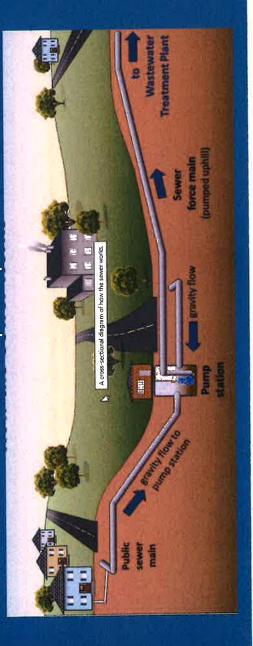
LOW PRESSURE

- The low pressure sewer system:
 - Uses a small pump station located at each property to move wastewater from the building to the regional wastewater treatment facility



GRAVITY SEWER

- The gravity sewer system:
- · Use pipe that are constructed by gravity (called laterals) from a building to a main gravity system.
- · All of the wastewater will travel to a lift station, where it pumps the wastewater to another pump station or a treatment plant.



Systems Summary

COST SUMMARY: LOW PRESSURE





Septic to Sewer Feasibility Report

April 2022 Project No. 18187.27

Summary of Estimated Costs -Low Pressure System

		Conceptual Capital Construction Cost	Operation and Impintenance Estimated Annual Costs?	Annual Construction Cost Arnortized over 20 years at 4% interest rate	Total annual cost (Maintenance and amortized construction cost)	Average annual cost per property ^a
natives	Proposed SUA Public System	~\$1.04 million	Paid by SUA. (excludes monthly sewer billing)	\$75.6k	\$75.6k	\$1,800
Alter	Proposed Onsite Private System (AB 42 properties)	~\$3.80 million	-\$190k (paid by property owner)	\$276k	\$466k	\$11.090
Proposed	Total	~\$4.84 million	~\$190k (paid by property owner)	\$352k	\$542k	\$12.890

¹ Cost does not include Seacoast Utilities fees for reservation and administration charges.

Cost includes the following assumptions: SUA sewer base fee of \$30 per month per property as well as usage fee of \$0.79/1000 gallons. \$1,000 per year per property for lift station maintenance, electricity costs, and 3% of construction cost for ongoing annual renewal and replacement costs.

³ This cost is the total cost divided evenly over the 42 properties analyzed in this report, and is an average. This is an estimate of the annual total costs during a 20-year loan payback period. The actual cost to each property will vary per the enclosed detailed cost breakdowns – see Appendix J

COST SUMMARY: GRAVITY/LOW PRESSURE





Septic to Sewer Feasibility Report

February 2022 Project No. 18187.27

Summary of Estimated Costs -Gravity / Low Pressure Combination System

		Conceptual Capital Construction Cost	Operation and Maintenance Estimated Annual Costs	Annual Construction Cost Amortized over 20 years at 4% interest rate	Total annual cost (/u/aintenance and amorfized construction cost)	Average annual cost per property:
Alternatives	Proposed SUA Public System	~\$3.14 million	Paid by SUA. (excludes monthly sewer billing)	\$217k	\$217k	\$5,160
	Proposed Onsite Private System (All 42 properties)	~\$1.60 million	~\$60k (pald by property owner)	\$116k	\$176k	\$4,190
Proposed	Tofal	-\$4.74 million	-\$60k (paid by property owner)	\$333k	\$393k	\$9,350

Cost does not include Seacoast Utilities fees for reservation and administration charges.

Cost includes the following assumptions: SUA sewer base fee of \$30 per month per property as well as usage fee of \$0.79/1000 gallons, 2% of construction cost for ongoing annual renewal and replacement costs.

This cost is the total cost divided evenly over the 42 properties analyzed in this report, and is an average. This is an estimate of the annual total costs during a 20-year loan payback period. The actual cost to each property will vary per the enclosed detailed cost breakdowns – see Appendix K

HOW WILL IT BE PAID?

- Several Options
 - Special assessments
 - For public utilities: State/Local taxes or public grants/loans (ARPA Project)
 - For private parcels: direct billing or local taxes
 - Potential bond referendum from Palm Beach County (\$30 million)



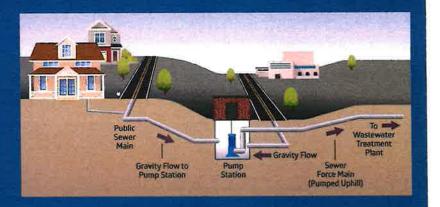


SUMMARY/ RECOMMENDATION

- Both the gravity and low pressure systems have their advantages and limitations.
- The gravity/low pressure combination system is the recommended option due to lowest construction and maintenance costs.







NEXT STEPS

- Meet with the stakeholders this summer to discuss the project and seek public input (August 22, 2022)
- Engage a financial management consulting firm to discuss funding options for both private and public properties
- Continue to coordinate with Seacoast Utilities to monitor any utility changes, cost changes, and design needs
- Decide on the ultimate alternative in order to prepare a construction set of plans and an opinion of cost
- Have a funding plan in place to ultimately bid out the project for construction

ANY QUESTIONS?



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