



**Phase 2**  
**Charlotte Harbor**  
**Water Quality Initiative**  
**Ackerman Countryman**

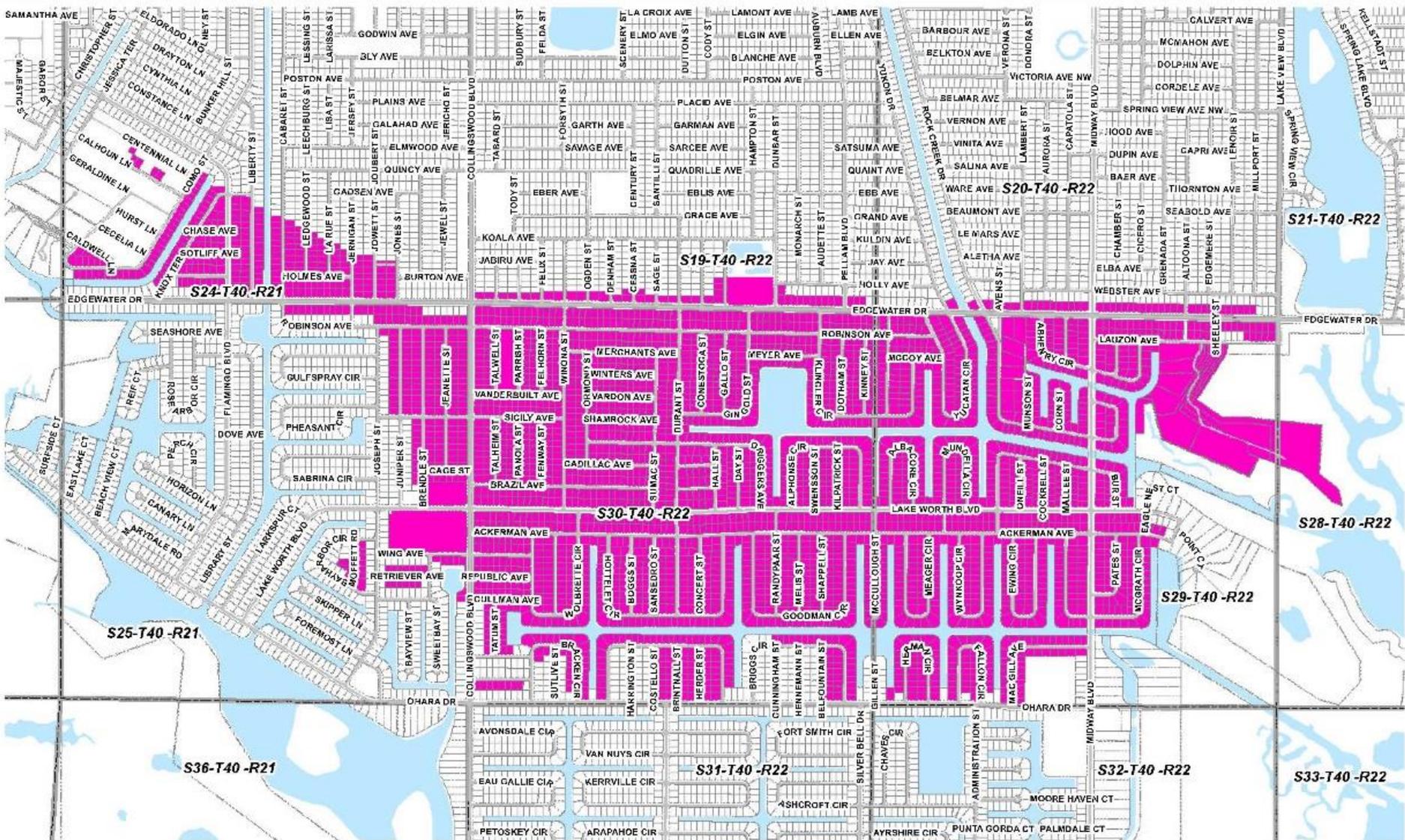
**Public Outreach**  
**April 26, 2016**  
**May 3, 2016**



# CHARLOTTE COUNTY

## PHASE 2 CHARLOTTE HARBOR WATER QUALITY INITIATIVE

### COUNTRYMAN-ACKERMAN SEWER EXPANSION MSBU



Map prepared by Charlotte County Utilities, 4/27/2016.  
 Created by: David C. ...  
 Charlotte County Utilities, 100 ...  
 Phone: ...  
 Email: ...  
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ASSESSED SEWER PARCELS



2

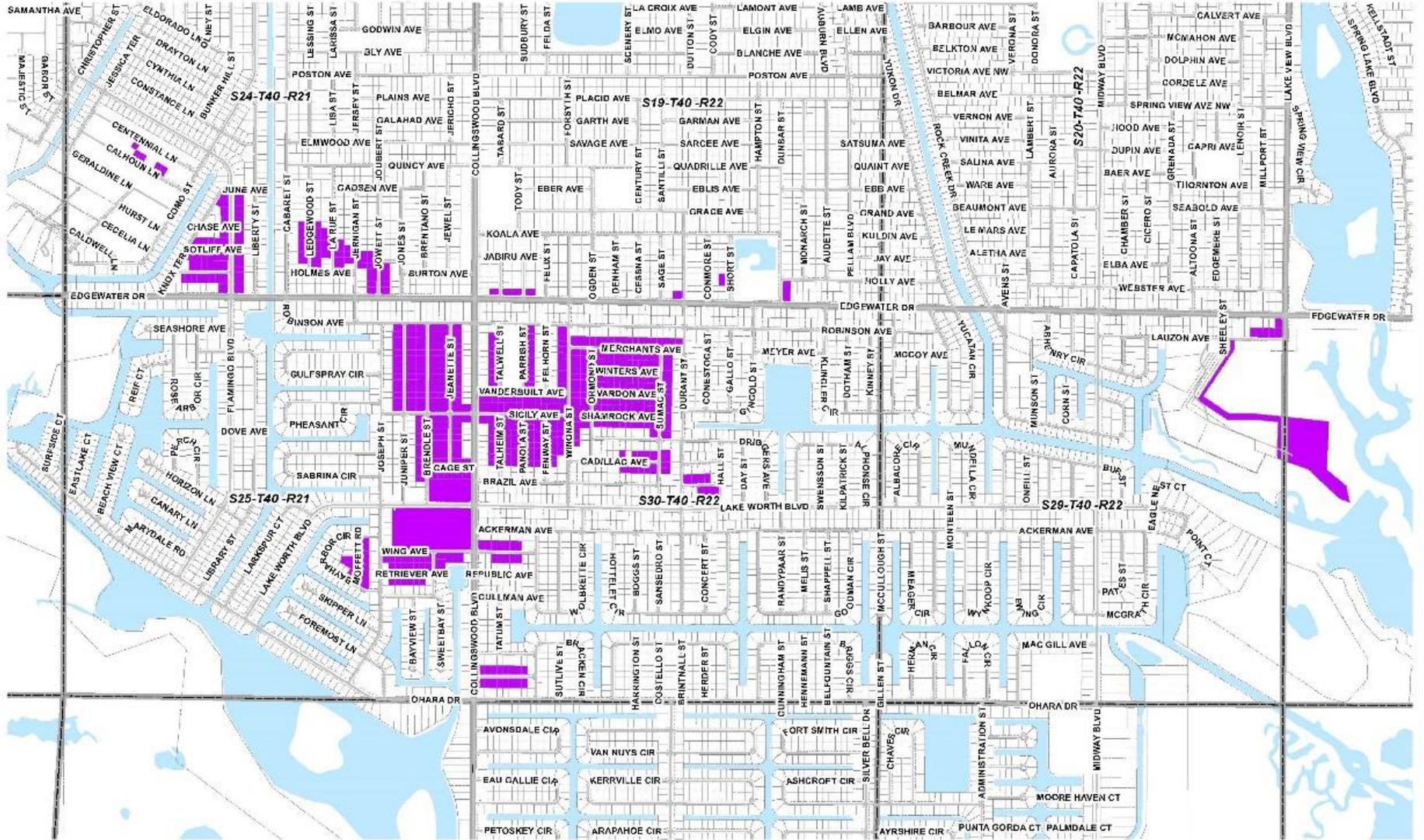




# CHARLOTTE COUNTY

## PHASE 2 CHARLOTTE HARBOR WATER QUALITY INITIATIVE

### COUNTRYMAN-ACKERMAN WATER EXPANSION MSBU



Map Date: 05/20/21  
 Date: 05/20/21  
 Created by: David E. Carr  
 Charlotte County, Florida  
 Parcel Data: 2021  
 Assessed Water Parcels  
 This map is a representation of assessed water parcels for the Charlotte Harbor Water Quality Initiative. It is not intended to be used for legal purposes. For more information, please contact the Charlotte County Water Utility Department at (888) 322-7273 or (888) 322-7274. The information on this map is for informational purposes only and does not constitute an offer of insurance or any other financial product. The information on this map is for informational purposes only and does not constitute an offer of insurance or any other financial product.

ASSESSED WATER PARCELS



0 600 1,200 2,400  
 Feet



# Project Description

- Definition of Project
  - Phase 2 of the Master Sewer Plan
  - Central Sewer Service to 3,343 properties
  - Extend potable water service to 585 properties
  - Rehabilitating and revitalizing existing infrastructure





# Status of Project

- July 2015 Board Approved RFP Design Process
- February 9, 2016 Board approved negotiations with top ranked design firm.
  - Giffels-Webster was the top ranked firm
- Design contract executed
  - Contract March 16, 2016
- Design has been initiated



# Proposed Project Timetable

- Final Design MSBU Approval September 2016
- Assessment Starts: November 2016
- Design Completion: 2017- 2018
  - 4 to 5 individual project zones
  - Construction Zone A: Start Fall 2017
- Estimated 3 years to complete construction in all zones



# First Time Assessment – Phase 2

## Ackerman Countryman MSBU

- Sewer MSBU
  - Costs allocated by ERU – 3,343
  - Annual assessment \$48.04 per ERU years 1 - 3
- Potable Water MSBU
  - Costs allocated by ERU – 585
  - Annual assessment \$25.00 per ERU years 1 - 3



# Proposed Sewer Expansion Costs

💧 Phase 2 – Proposed Future Construction MSBU

💧 Estimated Cost per Lot

Project Cost	\$ 11,591.43
Connection Fee	<u>\$ 2,408.57</u>
Assessment	\$ 14,000.00
On-lot connection	<u>\$ 1,600 per lot</u>
Total	\$ 15,600.00



# Sewer Assessment Breakdown

- Less than \$60 per month
- Less than \$2.00 per day
- Less than most X-Large cups of coffee at your favorite shops





# Proposed Water Expansion Costs

## 💧 Phase 2 – Proposed Future Construction MSBU

### 💧 Estimated Cost per Lot

Construction Cost	\$ 6,124.51
Connection Fee	<u>\$ 2,575.49</u>
Assessment	\$ 8,700.00
On-lot connection	\$ <u>1,200 per lot</u>
Total	\$ 9,900.00



# Water Assessment Breakdown

- Less than \$40.00 per month
- Less than \$1.30 per day
- Less than most X-Large cups of coffee at your favorite shops





# MSBU

- The MSBU assessment follows the land.
- At property sale there is no lien to satisfy.





# Onsite Septic Failures

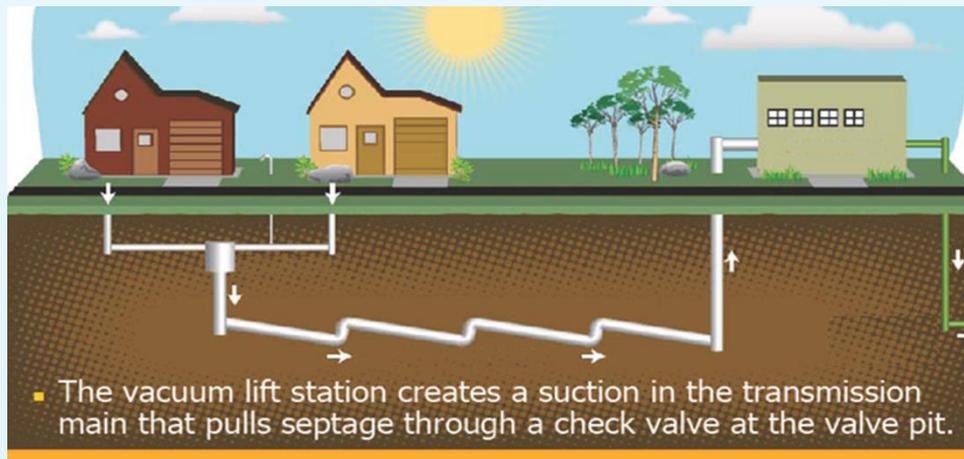
- Utilities Department is working with the County Attorney Office, DOH, Florida Department of Environmental Protection (FDEP) to define a manner in which The Utilities Department can assist property owners with failed septic systems until connection to sewer can occur
- We are working hard to find a solution to help prevent undue financial hardships





# Home Connections to be made

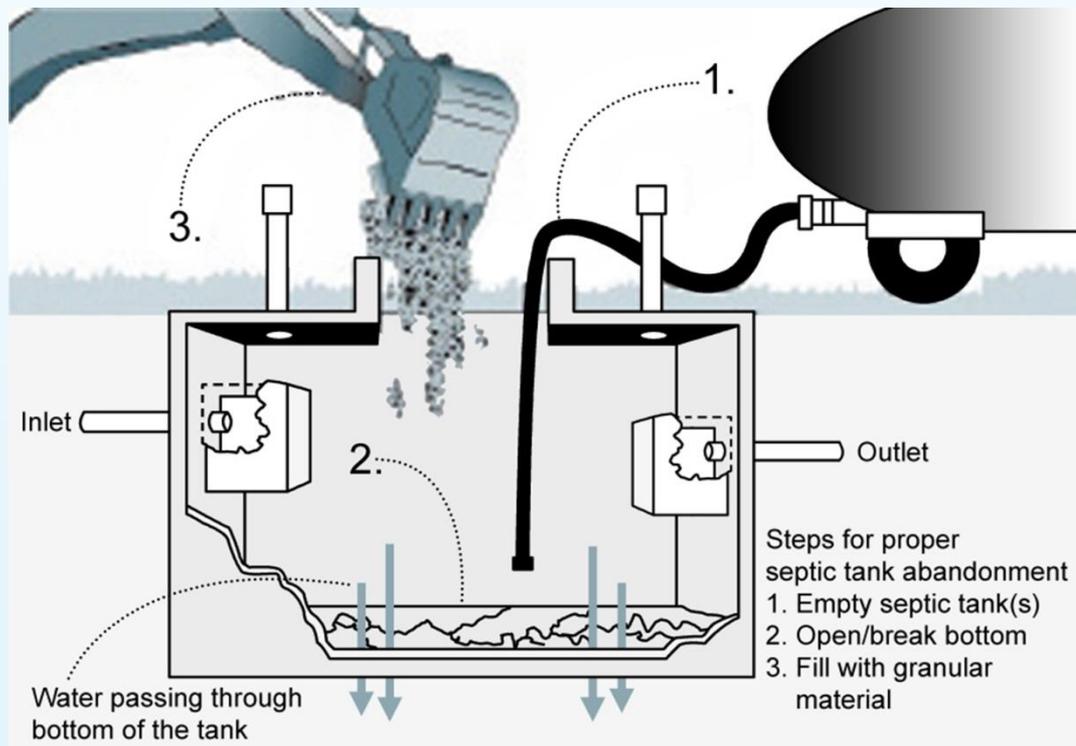
- After transitioning the home from septic to sewer, it is connected to the main sewer lines.
- Connection Options- Utilities Department Or Private Contractor to do the work?





# What happens with On-Lot Connections?

(Abandoning the septic tank)





# Pending Discussion Points

- MSBU staggered annual assessments
  - Allows for more accurate accounting prior to final annual assessments
- Interim services to assist failing onsite systems
- Customer status upon MSBU approval (Legislative action) – Health Department
- On lot installation services offered by County
- Deferred Hardship Program



# Sewer System Connection Types

- You may have one of the 3 types of sewer system connections:
  - Gravity Sewer
  - Vacuum Sewer
  - Low Pressure Sewer (LPS)

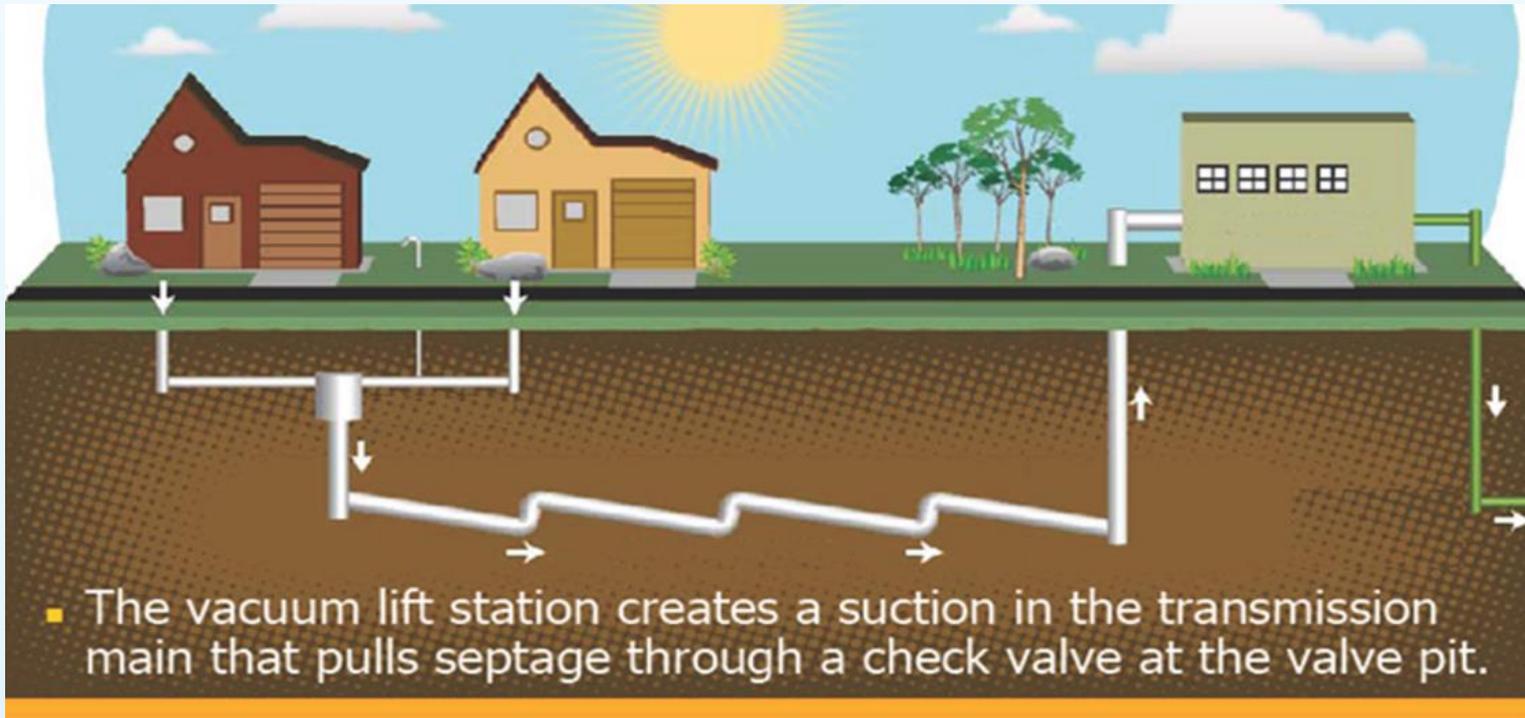


# What is a Gravity Sewer?

- All waste flows downstream through underground piping to central collection points
- Pumped from central collection points to the treatment facility



# What is a Vacuum Sewer?





# Vacuum Station Pictures 4/5/2016





# What is a Low Pressure Sewer System?



**Alarm Panel**

**Sewer Tank and Effluent Pump**



**Installation of the low pressure sewer tank**

09/11/2007 09:12 AM



# How does an LPS System Work

- The system basically consists of a control panel, an interceptor tank, and sump chamber unit which houses a small sewage effluent pump.
- The wastewater that is generated at home by flushing toilets, cleaning laundry, showering, and washing dishes flows into the tank.
- The sewage effluent pump sends the liquid water (effluent) through a small pressure line to a main pressure line and into a central sewer plant for final treatment.
- The solid waste that remains in each homeowner's LPS tank naturally degrades and is eventually pumped out by The Utilities Department.



# Design Work

- Jonathan H. Cole, P.E.  
President, Giffels-Webster Engineers, Inc





# What to Expect – During Design

- Survey Crews obtaining topographic information
- Some underground excavating to locate existing utilities
- Water quality sampling program initiated
- Intermittent ground water monitoring wells and canal sampling begins
- Determination of existing septic systems on the occupied properties



## CHARLOTTE COUNTY WASTEWATER EXPANSION PHASE 2 SEPTIC TANK LOCATION FORM & DRAWING

Date: \_\_\_\_\_ Phone No. : \_\_\_\_\_

Name: \_\_\_\_\_

Property Address: \_\_\_\_\_

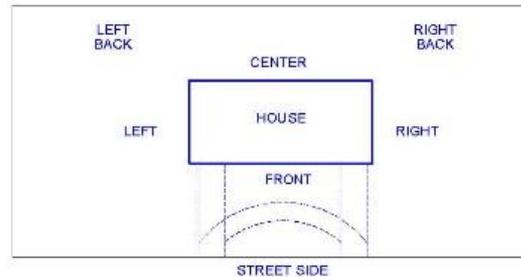
Mailing Address (if different): \_\_\_\_\_

Property Tax ID # (if known): \_\_\_\_\_

Own: \_\_\_\_\_ Rent: \_\_\_\_\_ Septic System Age (Approx.): \_\_\_\_\_

### ON THE DRAWING BELOW:

Please circle your septic tank location, show driveway location and indicate preferred location along the street for your sewer connection. Also mark the location of any drinking water wells, if applicable.





# SEPTIC TANK LOCATION FORM & DRAWING

- One of the key elements in the design of a cost-efficient retrofit sewer project is cooperation from home and business owners.
- We are asking that you provide some important information to help in designing the centralized sewer system that is compatible with the existing on-site wastewater disposal system on your property.
- The information that you provide may help minimize the disruption of your property when your on-site connection



# Questions/Comments

