



Utility Master Plans

Utilities Department
Quarterly Business Meeting
May 15, 2018



Master Plans

- Communication tool
- Developed from long-range vision
- Identify the “built-out” system condition
- Serve as *guideline* for system development and investment
- Population-triggered events (not date-certain)

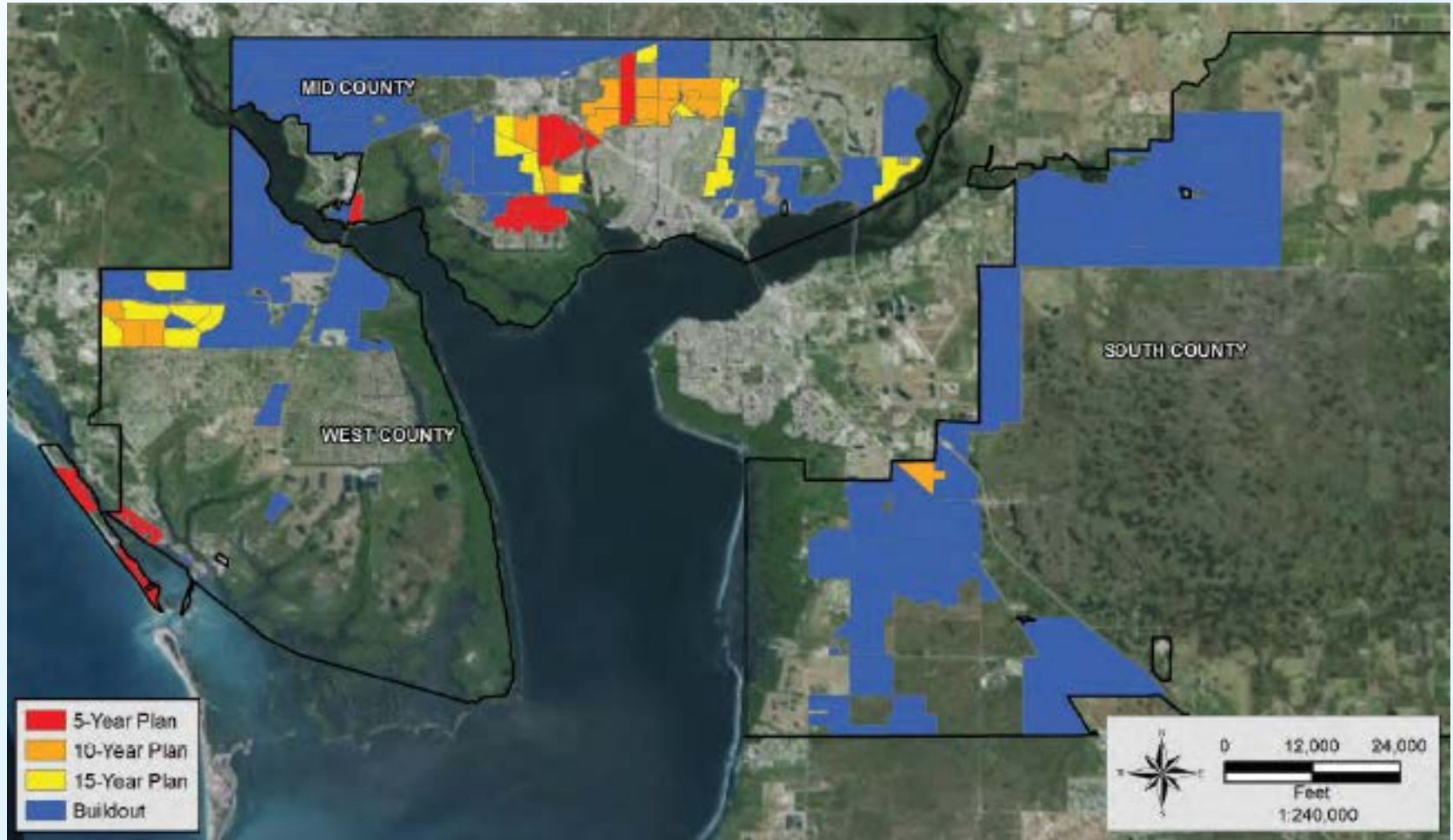


Sewer Master Plan

- Completed Oct 2017
- 15 year plan for septic-to-sewer program
- Includes lift stations, force mains, etc.
- Could be used to shape development



Example detail 1





Example detail 2

Identifier	Name	Existing ERCs	Total ERCs	Project Cost
M67	Crestview Circle	64	85	\$ 1,100,000



■ Proposed Pump Station	— Existing Force Main
■ Existing Pump Station	— Existing Low Pressure Main
— Proposed Force Main	— Existing Gravity System
 Project Area Boundary	— Existing Vacuum System

0 220 440
Feet
1:4,710

Project Cost	\$1,100,000
Assessments	960,000
Growth Increment	110,250
Grants	100,000
Subsidy	0
Difference (to Fund)	(70,250)

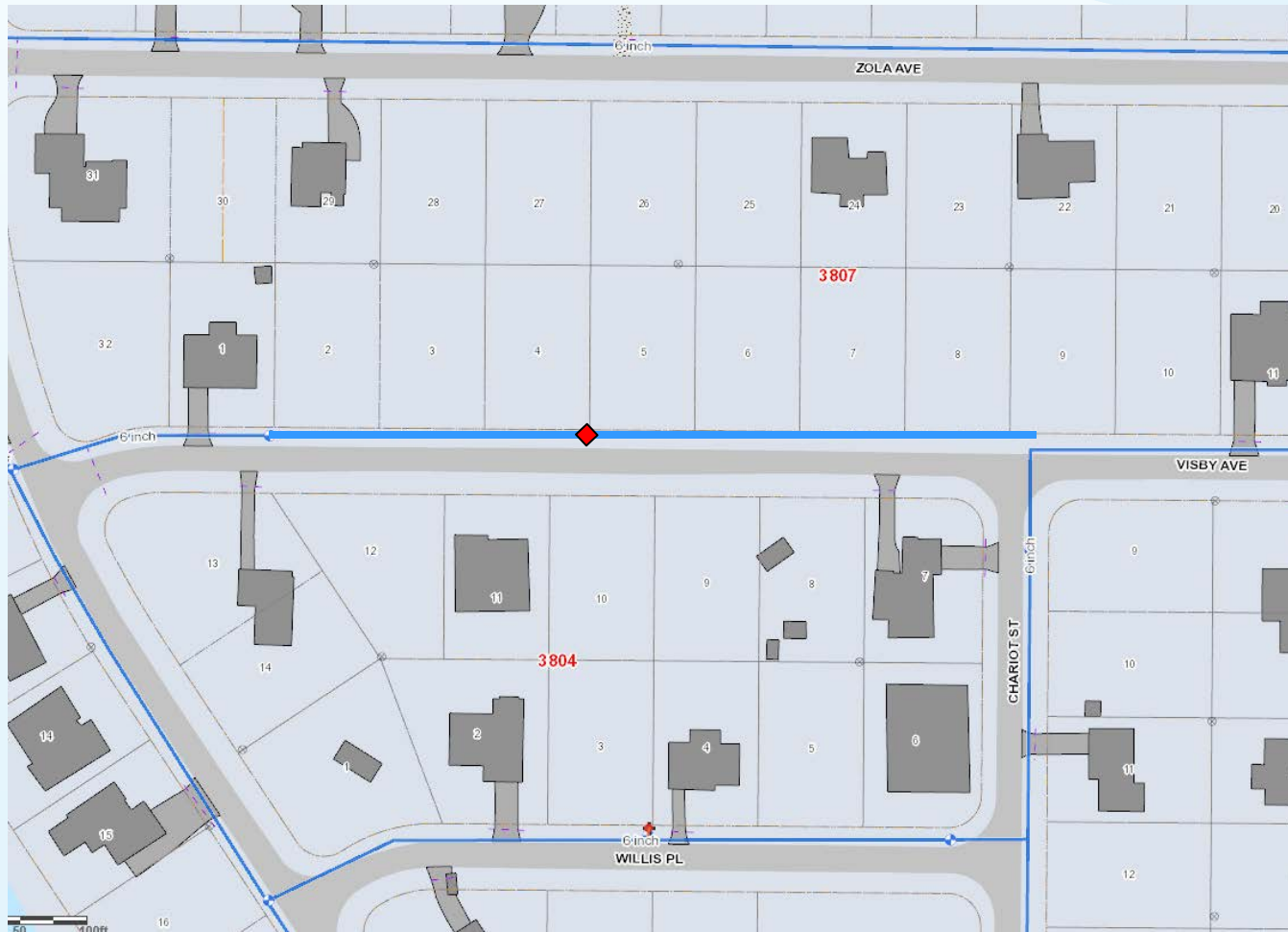


Water Master Plan

- Would include:
 - Sources
 - Transmission
 - Treatment
 - Storage
 - Distribution
 - Security
- Identify long- and short-range projects
 - Hwy74 wells
 - Closing “loops”
 - Future land use
 - storage capacity
 - private well relief
 - expansion areas



Closing “the loop” and *private well relief*





Hard water and high salinity causes corrosion and early destruction of equipment and appliances



Support development





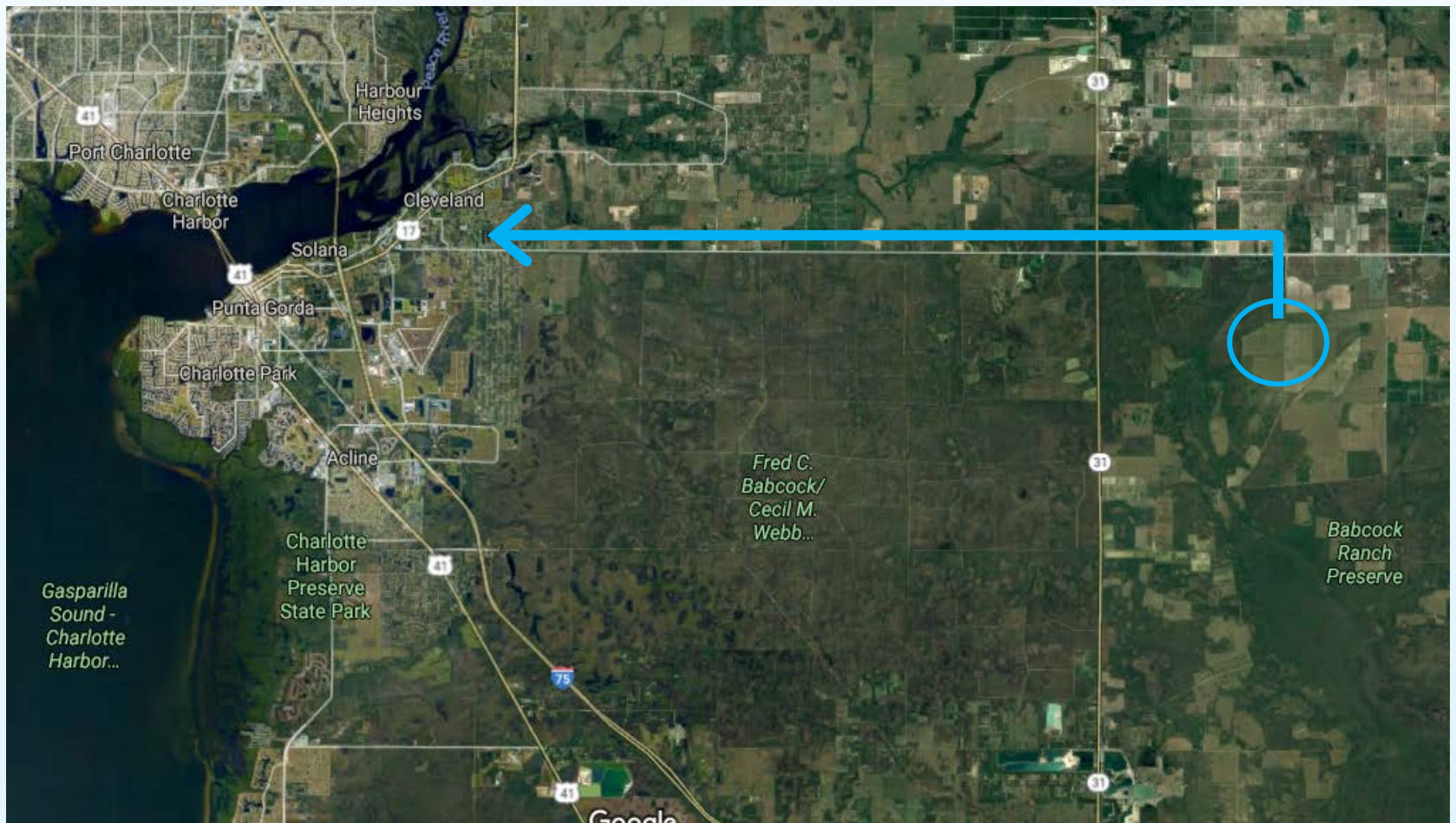
Hwy 74 Well field

- Currently permitted for 3-12 MGD
- Use-or-lose permit by 2031
- \$150M for transmission line
- Excellent water quality and quantity



Hwy 74 Well field

20-mile transmission line to connect





Water Master Plan

- Also include **Reclaimed** Water Planning

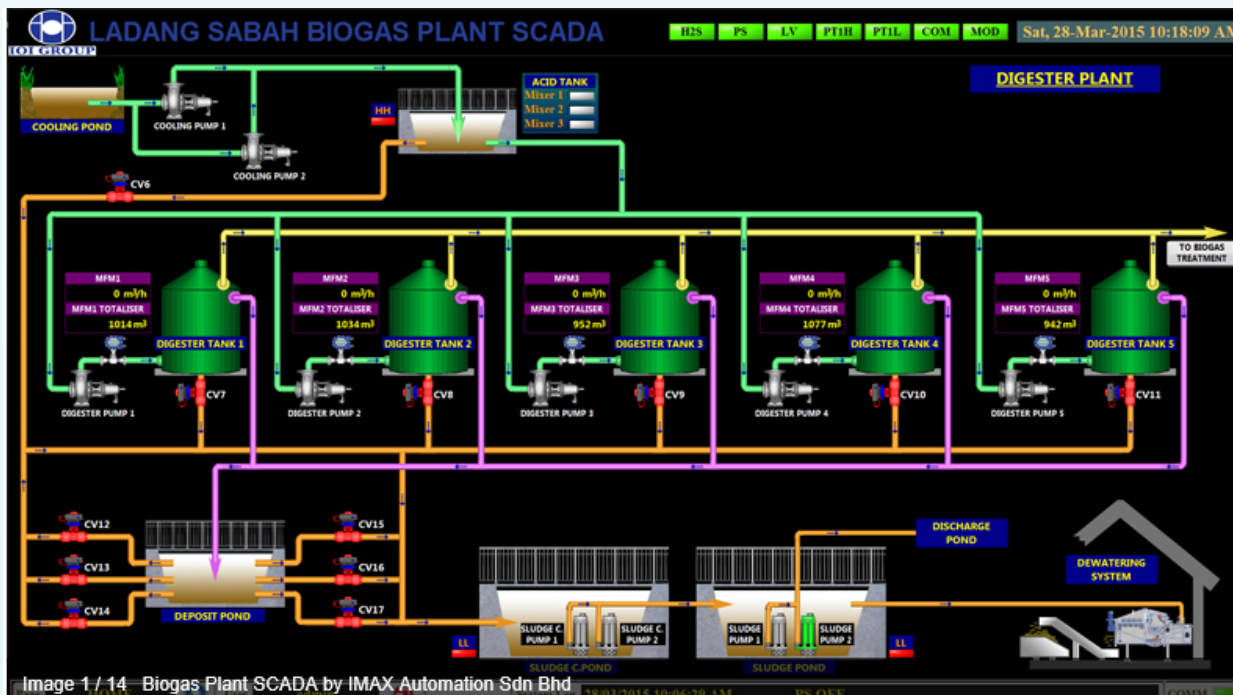
Opportunities for improving quantity and delivery pressures across system.

Develop policies for pond-delivery, storage tanks, and establish LOS expectations



SCADA Master Plan

- Supervisory Control and Data Acquisition
 - Communication network of sensors, servos, computers, and graphical user interface





Conclusion

- Master Planning is critical for identifying and communicating long range objectives
- Individual projects could be ready to as development occurs
- Projects could influence development



Thank you

