

# Re-sequenced Wastewater & Well Permitting Options

Wake County Environmental Services  
May 20, 2020



# Presentation Outline

- ❖ Overview of Permitting Timeline
- ❖ Resequencing the Wastewater Permit
- ❖ Permitting Menu
- ❖ Choosing the Right Permit
- ❖ Strategies to support streamlined permit approval
- ❖ Communication



# Current Permit Process

Wastewater and Building Permit applications submitted together

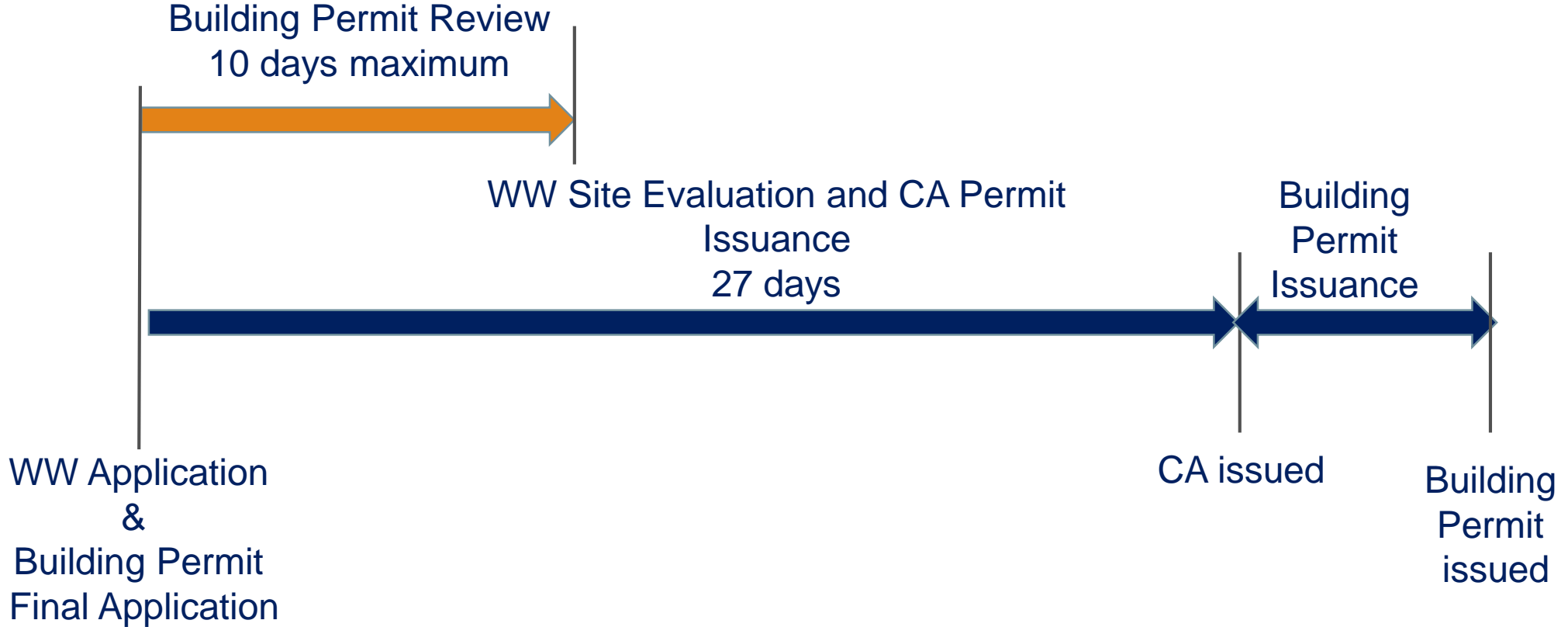
Application includes final building footprint

Issuance of the Building Permit dependent upon Wastewater permit timeline:

- Site survey
- Soil evaluation
- System layout and design



# Current Permitting Timeline

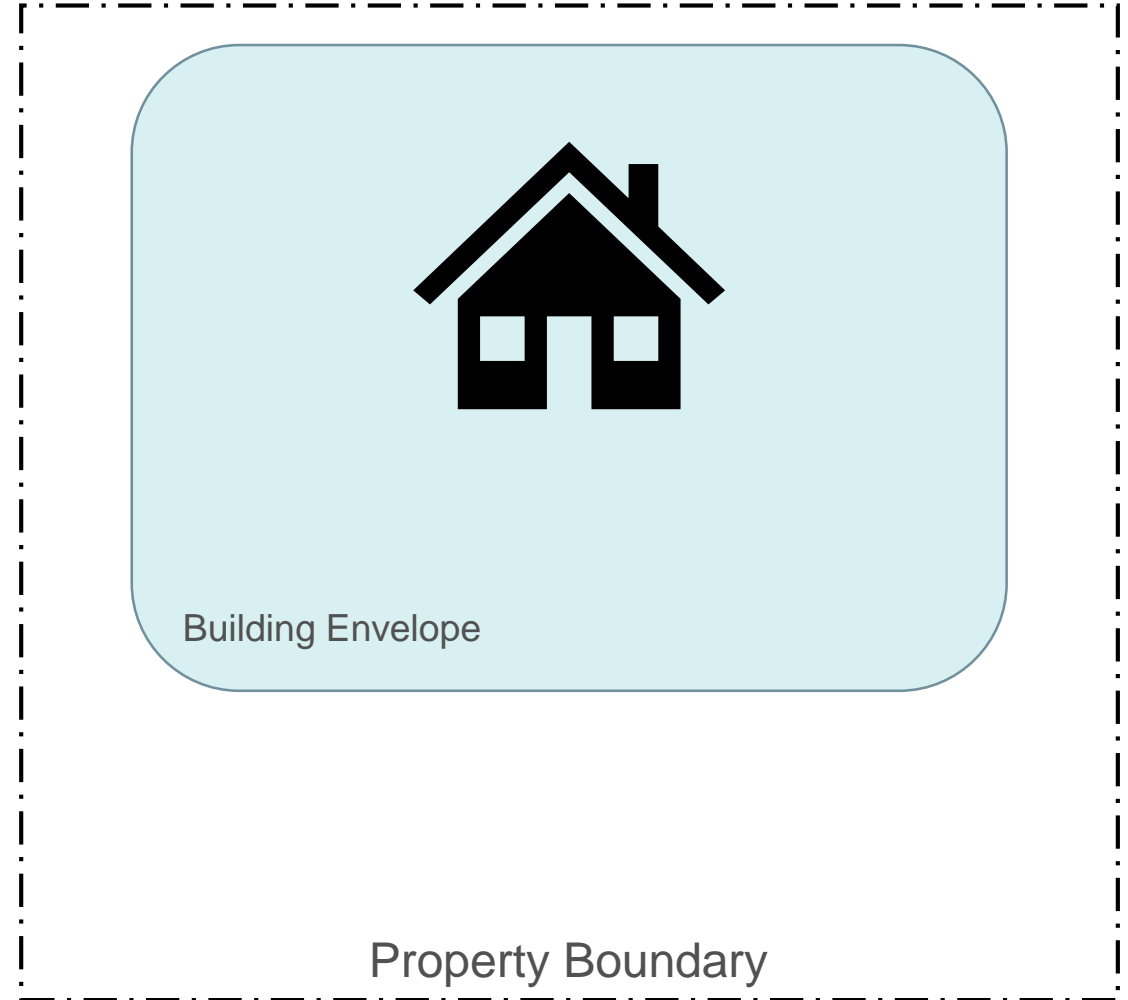


# Re-sequenced Permit Process

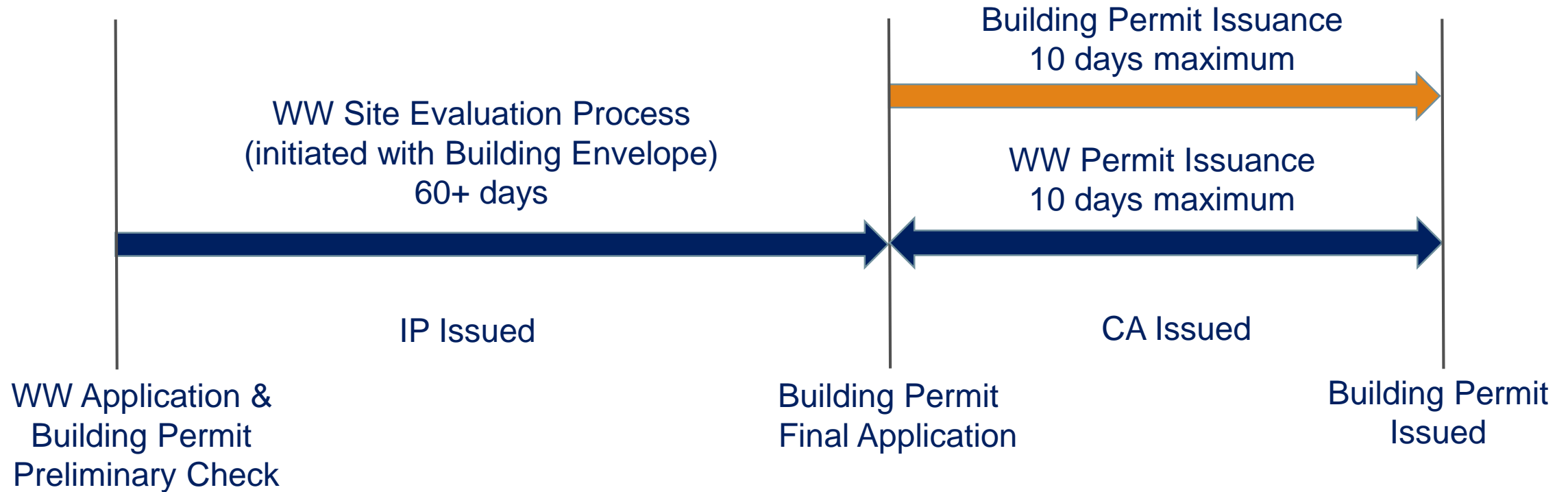
Wastewater Application submitted in advance of Final Building Application

Building Envelope encompasses any potential building footprint

Building Footprint will be compared to approved Building Envelope



# Re-sequenced Permit Process





# Permitting Options

## Choosing the Right Permit

# Choosing the Right Wastewater/Well Permit

Engineered  
Option Permit

SL 2020-3  
Option Permit  
for COVID-19

Engineered  
Flow  
Reduction

Licensed Soil  
Scientist  
Evaluation

Subdivision  
Blitz

Well Permit

Approve Use  
of Existing  
Well





# Engineered Option Permit

## Benefits

Owner can plan wastewater permitting and construction schedule independently.  
County acts within 15 business days to issue construction approval.

## Drawbacks

Owner must hire engineer for inspections, future modifications, upgrades or repairs  
No County QA/QC process

## Applicable Permits

Engineered Option- New  
Engineered Option- Expansion  
Engineered Option- Addition  
Engineered Option- Existing

# SL 2020-3 Option Permit for COVID-19\*

## Benefits

Owner can plan wastewater permitting and construction schedule independently.  
County acts within 15 business days to issue construction approval.

## Drawbacks

Owner must hire certified LSS for inspections, future modifications, upgrades or repairs  
No County QA/QC process

## Applicable Permits

LSS SL 2020-3 Option – Expansion  
LSS SL 2020-3 Option – Addition  
LSS SL 2020-3 Option – Existing  
LSS SL 2020-3 Option – New

\*This permit option is available until August 1, 2020

# Engineered Flow Reduction Permit

## Benefits

Flow reduction achieved through engineering design utilizing low-flow fixtures/technologies.  
Allows up to 25% less reduction in flow and drainfield space.

## Drawbacks

Plumbing fixtures required to be maintained  
Deviation from permitted fixtures may cause premature malfunction.

## Applicable Permits

Residential Permit-New  
Residential Permit-Expansion  
Residential Permit- Addition

# Licensed Soil Scientist (LSS) Evaluation

## Benefits

LSS delineates soil areas for initial and repair systems  
Environmental Services review limited to setbacks

## Drawbacks

None

## Applicable Permits

Residential Permit-New  
Residential Permit-Expansion  
Residential Permit- Addition  
Residential Permit- Existing

# Subdivision Blitz

## Benefits

Multiple lots reviewed by small team of permitting staff  
LSS on site to assist with challenging soil conditions

## Drawbacks

None

## Applicable Permits

Residential Permit-New

# Permit for New Well

## Benefits

Lower-cost water supply option for development outside of municipal limits

## Drawbacks

Time associated with water quality testing  
1 in 5 wells in eastern half of county will require radiological treatment  
Well owner responsible for future testing and maintenance

## Applicable Permits

Permit for New Well

# Approve Use of Existing Well

## Benefits

Avoid cost of drilling new well  
Lower-cost water supply option for development outside of municipal limits

## Drawbacks

Time associated with water quality testing  
1 in 5 wells in eastern half of county will require radiological treatment  
Older wells may require repairs.

## Applicable Permits

Approve Existing Well for New Construction

# Streamlining the Permit Process

- ✓ Apply as early as possible
- ✓ Prepare site for inspection
- ✓ Ensure fees are paid
- ✓ Private wells:
  - Install well as early as possible
  - Request wellhead inspection when well is fully operational





# Take Aways

- ❖ Re-sequenced Permitting Process is now available
- ❖ Many permit options
- ❖ Apply as early as possible



# Questions

**Environmental Service Support**  
**919-856-7400**

Permit Portal  
Scheduling Inspections  
Fees

**Wastewater Information Specialist**  
**919-856-7434**  
**wastewater@wakegov.com**

Design Questions  
Setbacks  
Operation & Maintenance



## Contact Us!