

BOARD OF COUNTY COMMISSIONERS OF CITRUS COUNTY, FLORIDA
Citrus County Courthouse
Room 100, 110 N. Apopka Avenue, Inverness, FL 34450

AGENDA

WORKSHOP

January 19, 2021 9:30 AM

Scott Carnahan, Chair, District 4 Ronald E. Kitchen Jr., 1st Vice Chair, District 2 Ruthie Davis Schlabach, 2nd Vice Chair, District 3 Jeff Kinnard D.C., Commissioner District 1 Holly L. Davis, Commissioner, District 5	Angela Vick, Clerk of the Circuit Court Charles R. Oliver, County Administrator Denise A. Dymond Lyn, County Attorney
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MISSION

Citrus County Government is a value-driven organization dedicated to responsive citizen service by providing quality programs, services and facilities to build a strong community and promote the best quality of life for our citizens.

All persons desiring to address the County Commission will be asked to limit their comments to the specific subject being discussed.

The Board gives citizens multiple opportunities for **PUBLIC INPUT**. All members of the public wishing to speak at the "Open To The Public" portion of a meeting will have three (3) minutes per person to make their request or presentation or five (5) minutes if they represent an organization with the appropriate documentation on file with the Clerk of Courts. If the request or presentation deals with a matter that requires investigation by County Staff, the Chairman will refer it to the County Administrator to follow-up with the person making the request.

Any person who decides to appeal any decision of the Governing Body with respect to any matter considered at this meeting will need a record of the proceedings and for such purpose may need to provide that a verbatim record of proceeding is made which record includes testimony and evidence upon which the appeal is to be based. (Section 286.0105 Florida Statutes)

Any person requiring reasonable accommodation at this meeting because of a disability or physical impairment should contact the County Administrator's Office, Lecanto Government Bldg., 3600 W. Sovereign Path, Suite 267, Lecanto, FL 34461 (352) 527-5210, TTY (352) 527-5312 at least two days before the meeting.

A. CALL TO ORDER

A.1. Invocation

A.2. Pledge of Allegiance

A.3. Roll Call

B. WORKSHOP SOLID WASTE STRATEGY PLAN

B.1. Conduct a Workshop For Wastewater Treatment Feasibility Analysis

Conduct a workshop on Tuesday, January 19th, at 9:30 a.m., for Water Resources to update the Board on the progress of the Wastewater Treatment Feasibility Analysis (septic to sewer).

C. OPEN TO THE PUBLIC

D. UPCOMING MEETINGS

- | |
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| 1. Regular Meeting: January 19, 2021, at 1:00 PM , Citrus County Courthouse, Room 100, 110 N. Apopka Avenue, Inverness, FL 34450 |
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E. UPCOMING WORKSHOPS AND SPECIAL MEETINGS

F. ADJOURN



AGENDA MEMORANDUM

FROM:	Ken Cheek, Director, Water Resources Department
SUBJECT:	Conduct a Workshop For Wastewater Treatment Feasibility Analysis
AGENDA DATE:	January 19, 2021

BRIEF OVERVIEW:

It is the intent of the Department of Water Resources to conduct a workshop with the BOCC for Tuesday, January 19th, 2021, at 9:30 a.m. The staff presentation will include the following:

- A review of the Basin Management Action Plans
- A review of past and current project phases and associated funding (FDEP, SWFWMD and Special Assessments)
- The goal of the ongoing Wastewater Treatment Facility Feasibility Analysis
- Preliminary results of the Feasibility Analysis

BUDGET IMPACT/FUNDING SOURCE:

Account No.	Account Title	Current Budget	YTD Expenditures	Encumbrances	Available Balance
					\$0

RECOMMENDED ACTION:

Conduct a workshop on Tuesday, January 19th, at 9:30 a.m., for Water Resources to update the Board on the progress of the Wastewater Treatment Feasibility Analysis (septic to sewer).

Wastewater Treatment Facility Feasibility Analysis

Attachment: WWTFA Presentation (12389 : Conduct a Workshop For Wastewater



CITRUS COUNTY'S NATURAL RESOURCES

- Home to Homosassa, Chassahowitzka, and Crystal River/Kings Bay springs group
- Nearly 100 springs in total
- Fed from Upper Floridan aquifer groundwater
- Tourism since early 1800s, drawing 500,000 people/year to Citrus County
- In 2019 tourism brought \$270 million in revenue
- 43% of visitors came for "manatee watching"

1947

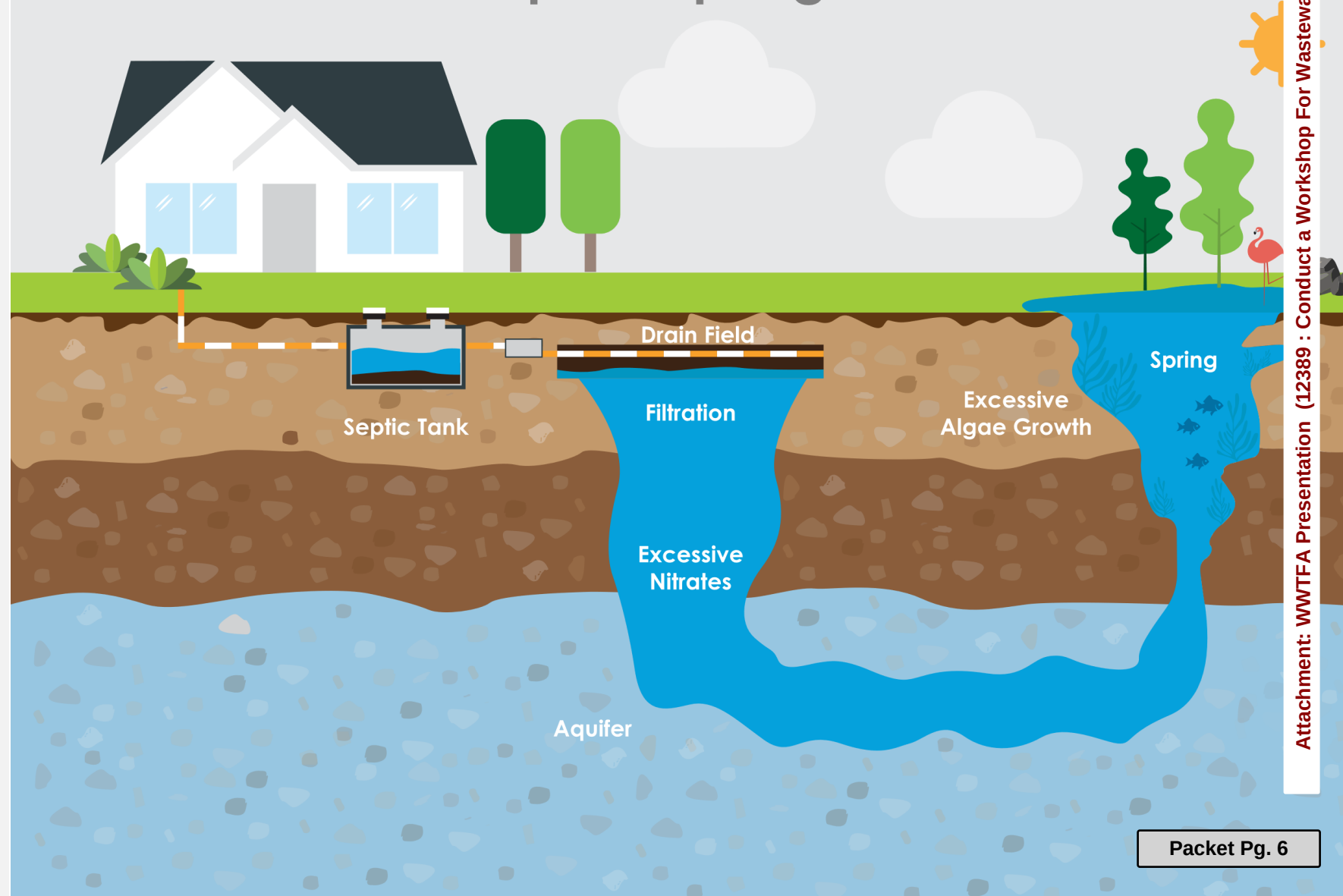
Homosassa Springs

SEPTIC SYSTEMS & THE ENVIRONMENT

- Approximately 41,000 septic systems currently installed
- Traditional septic system consists of septic tank and drain field
 - Proper installation above water table
 - Regular maintenance
 - Little wastewater treatment (N)
- Advanced septic systems include enhancements in tank/drain field
 - Proper installation
 - Regular maintenance
 - Includes mechanical parts
 - Higher level of treatment (N)

SLIDE B

How Septic Systems Impact Springs



B.1.a

Attachment: WWTF A Presentation (12389 : Conduct a Workshop For Wastewater

Packet Pg. 6

SEPTIC-TO-SEWER INITIATIVES TO DATE



Attachment: WWTEFA Presentation (12389 : Conduct a Workshop For Wastewater

TMDL, BMAP, & PFA?

What is a TMDL (Total Maximum Daily Load)?

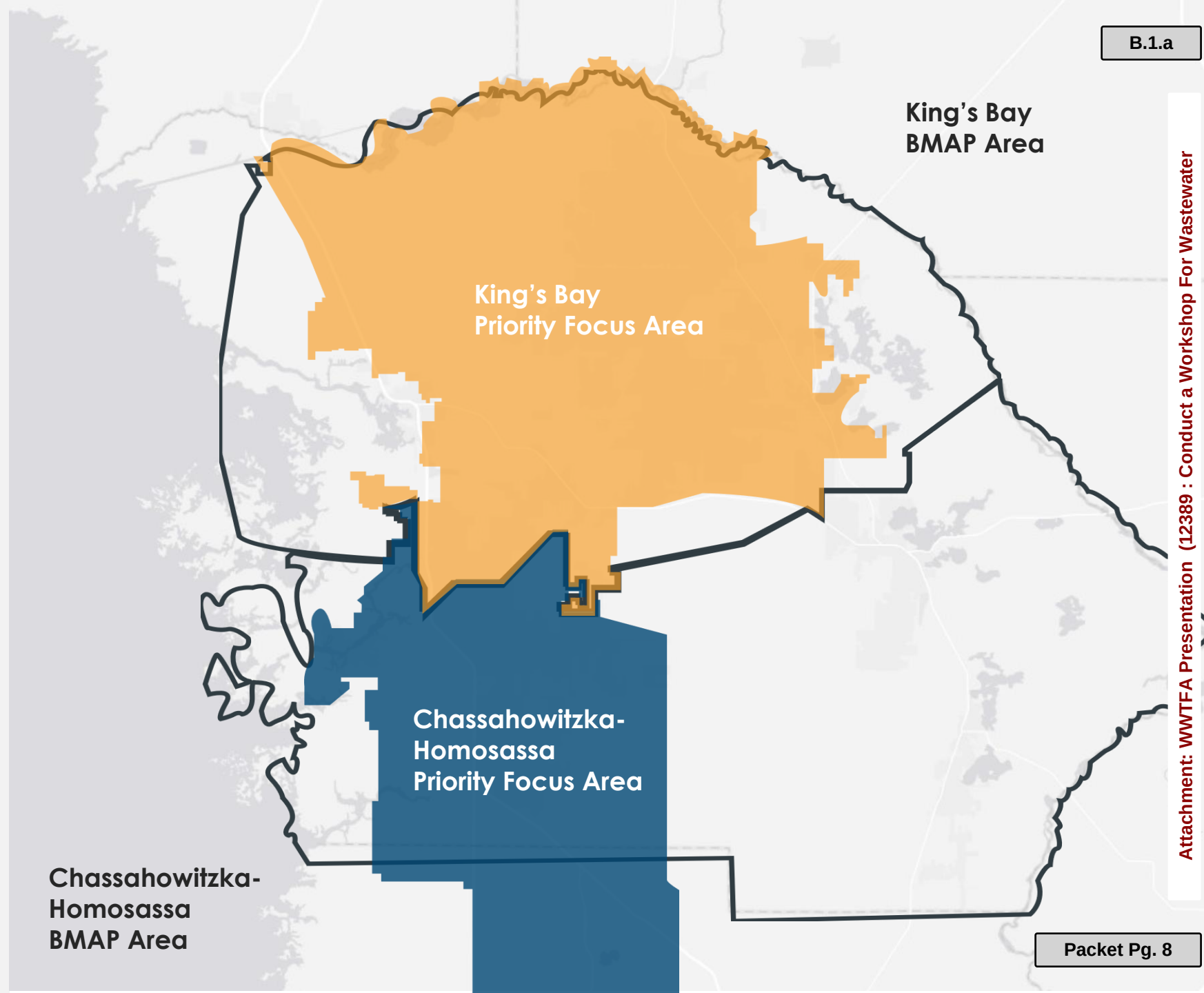
- Maximum amount of a pollutant allowed to enter a water body
- 0.23 mg/l for Nitrate

What is a BMAP (Basin Management Action Plan)?

- Plans developed to reduce pollutants in water bodies in order to meet the TMDL

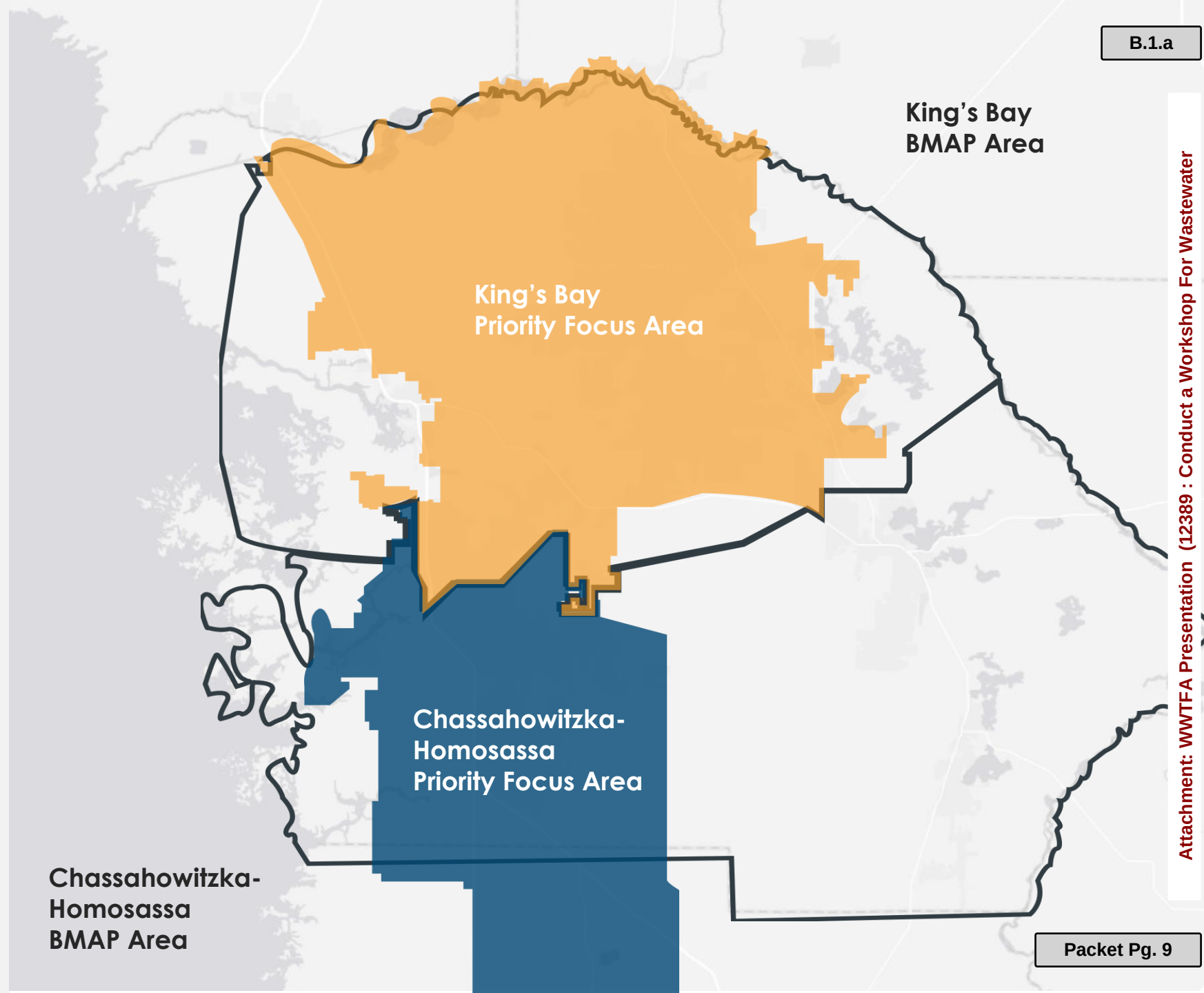
What is a PFA (Priority Focus Area)?

- The most critical area within the BMAP



BMAP OBJECTIVES

- Reduce nitrogen discharge from conventional septic systems
- Recommend areas to be served by upgraded septic systems or sewer
- Determine infrastructure improvements to accommodate additional wastewater flows
- Develop an implementation plan that minimizes costs and prioritizes areas to be served based on infrastructure



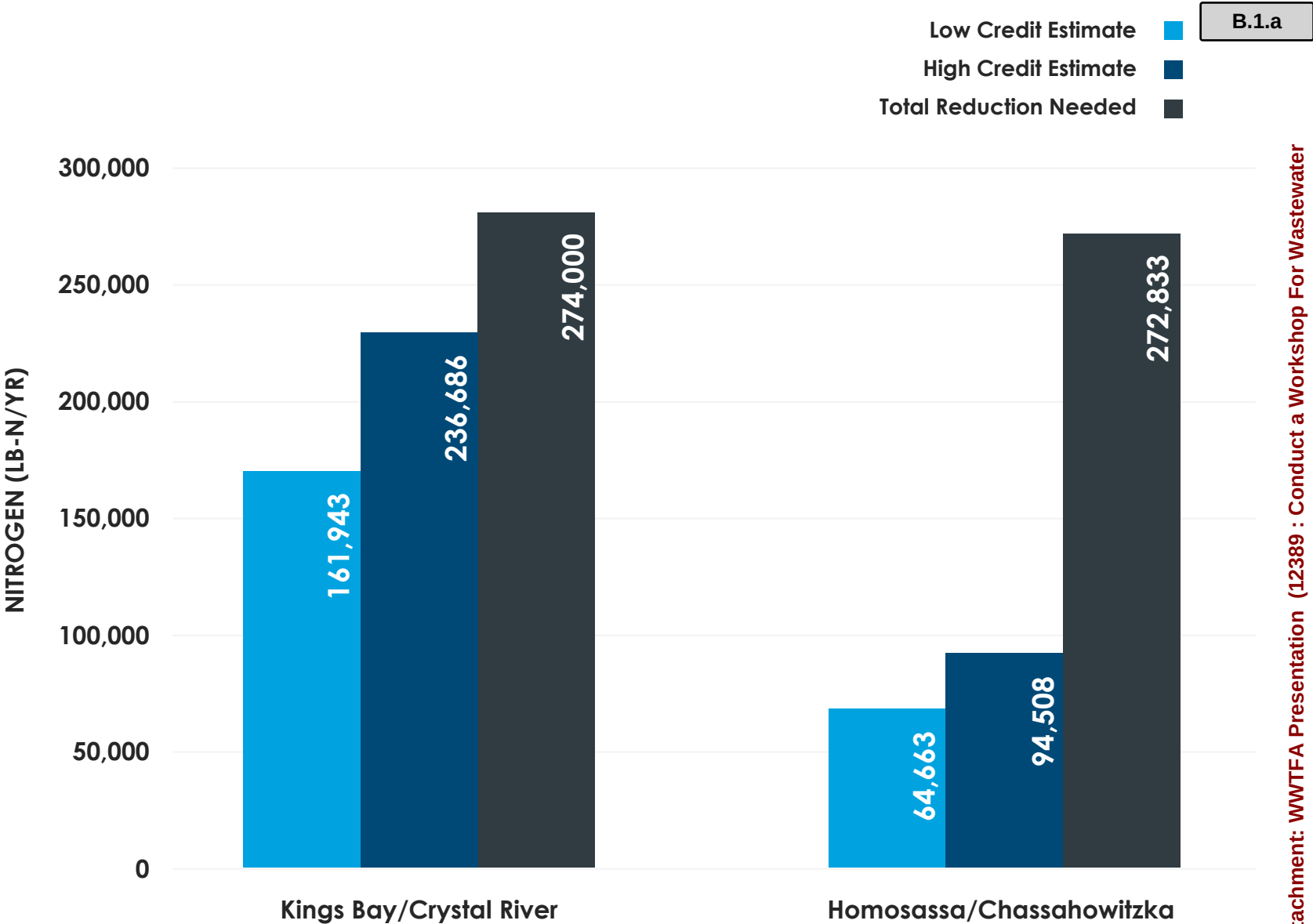
BMAP GOAL & REQUIREMENTS

Goal

- Develop a cost-effective plan to reduce the nitrogen load affecting our springs.

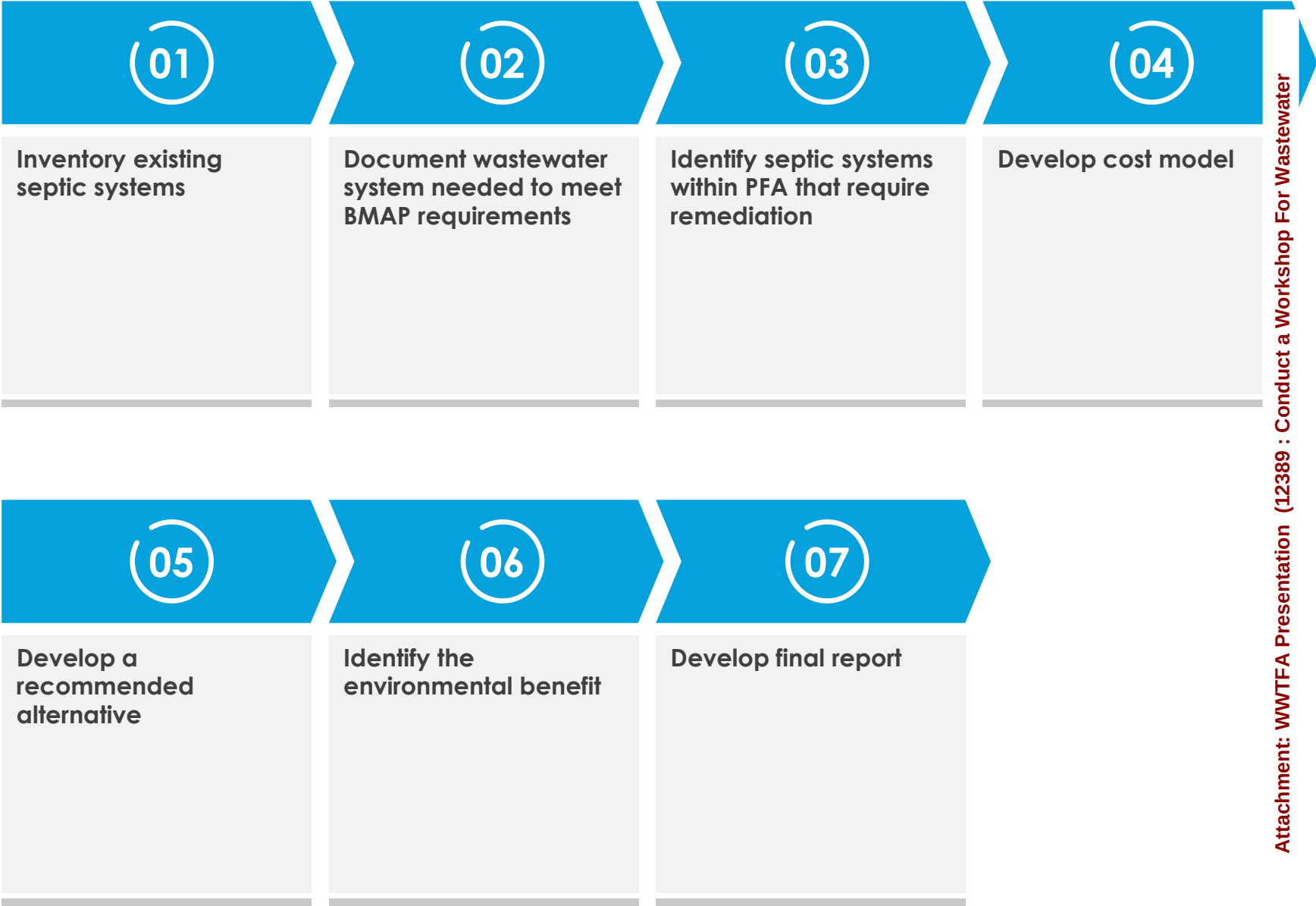
Requirements

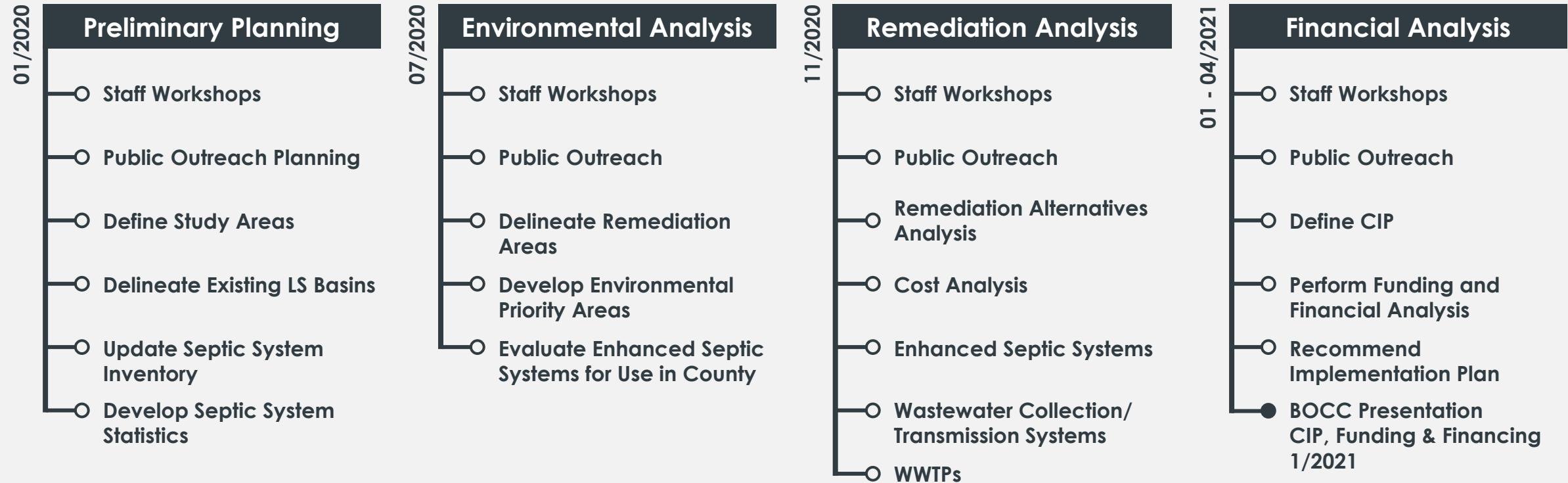
- In BMAP areas
 - Limit nitrogen in wastewater treatment facility effluent
- In Priority Focus Areas
 - Limit new septic systems
 - Address existing septic systems



FDEP WASTEWATER TREATMENT FEASIBILITY ANALYSIS

Study funded by FDEP for 9
counties with Class I Outstanding
Florida Springs (OFS)





Attachment: WWTFEA Presentation (12389 : Conduct a Workshop For Wastewater

PROJECT AREAS

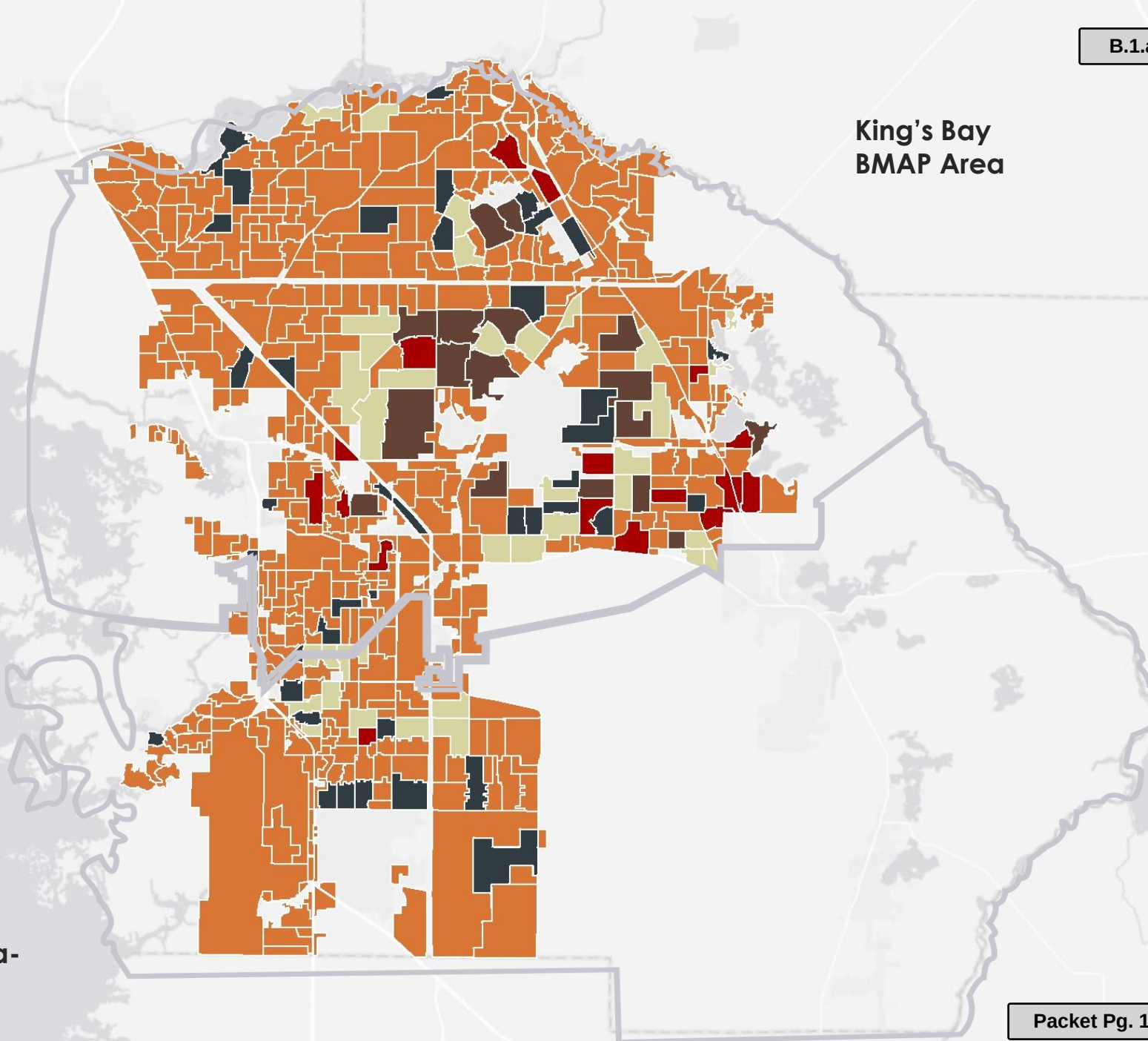
Environmental scoring criteria used to develop project areas

- Within the PFAs
- Nitrogen load per acre
- Average age of septic system
- Scored from least (1) to most (5) critical

1	(488)
2	(40)
3	(35)
4	(18)
5	(17)

Chassahowitzka-Homosassa
BMAP Area

King's Bay
BMAP Area

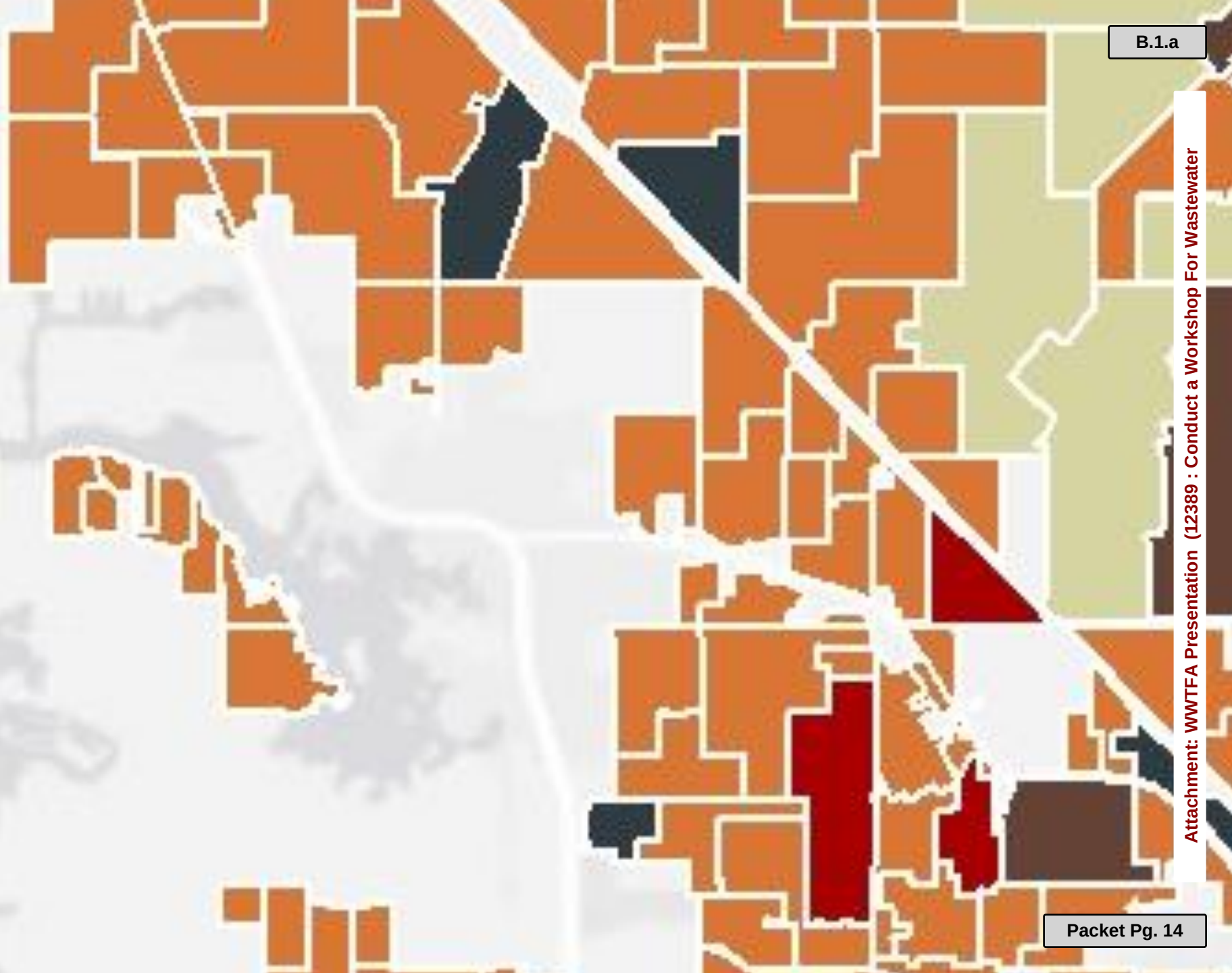


PROJECT AREAS

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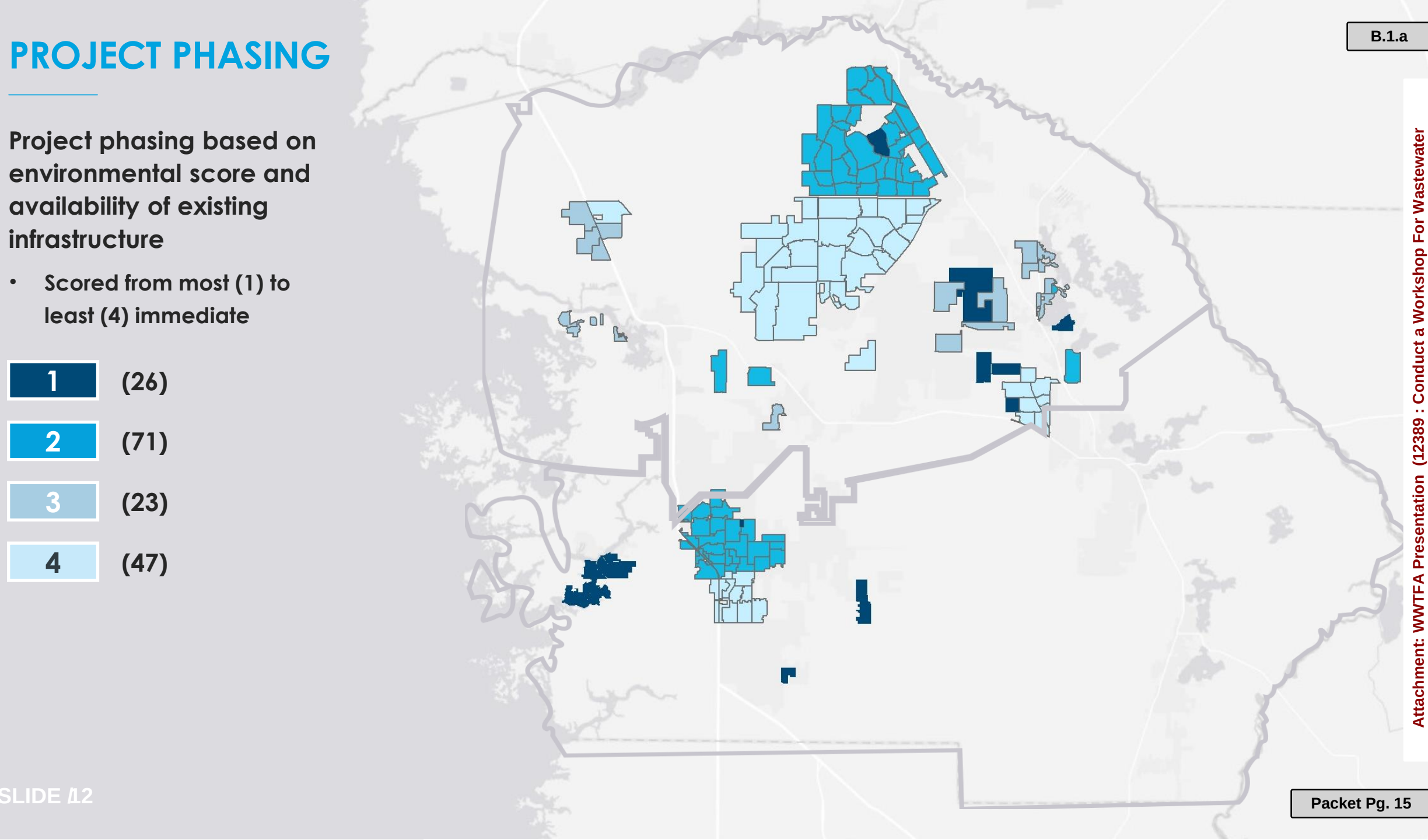


PROJECT PHASING

Project phasing based on environmental score and availability of existing infrastructure

- Scored from most (1) to least (4) immediate

1	(26)
2	(71)
3	(23)
4	(47)

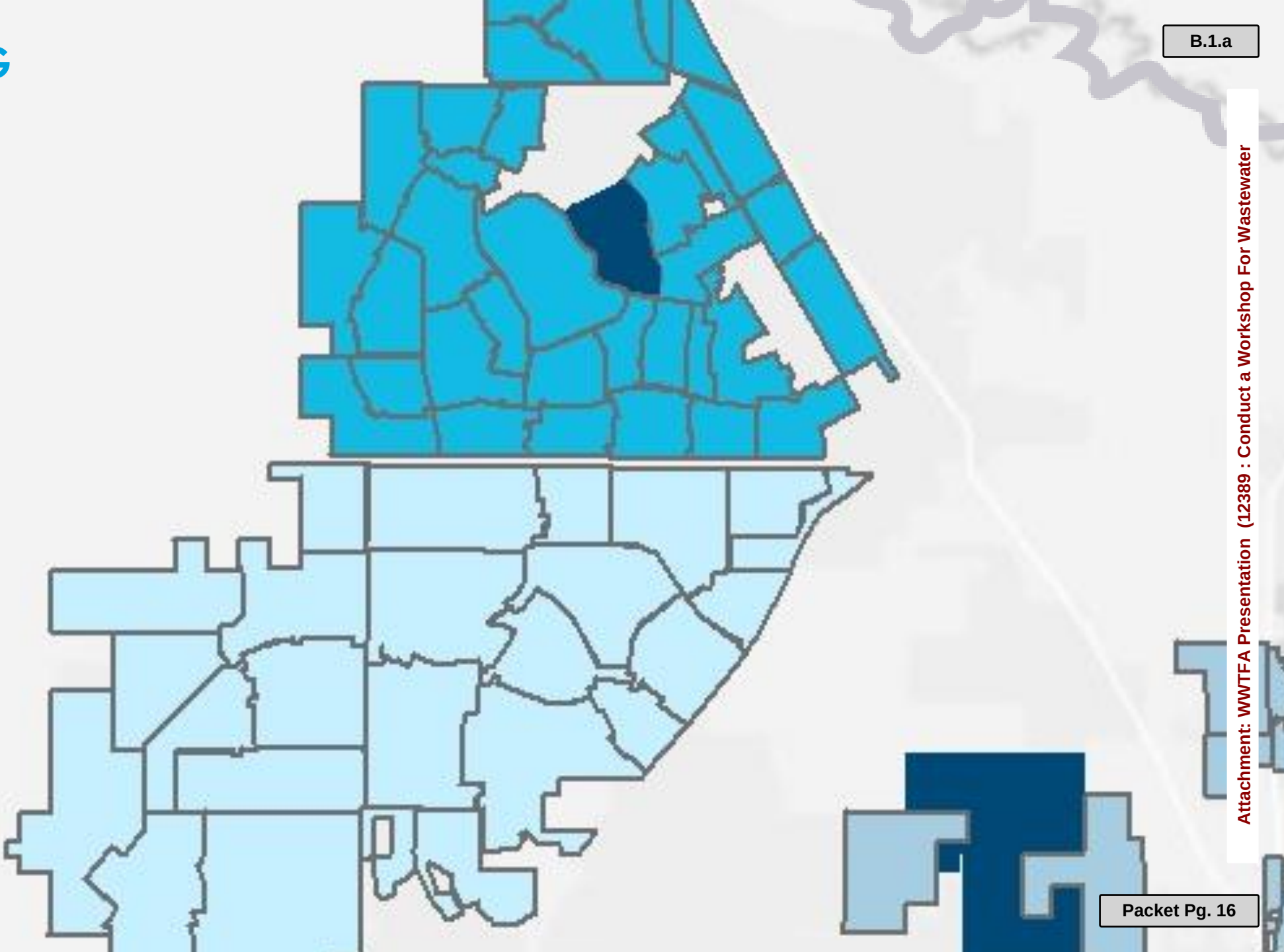


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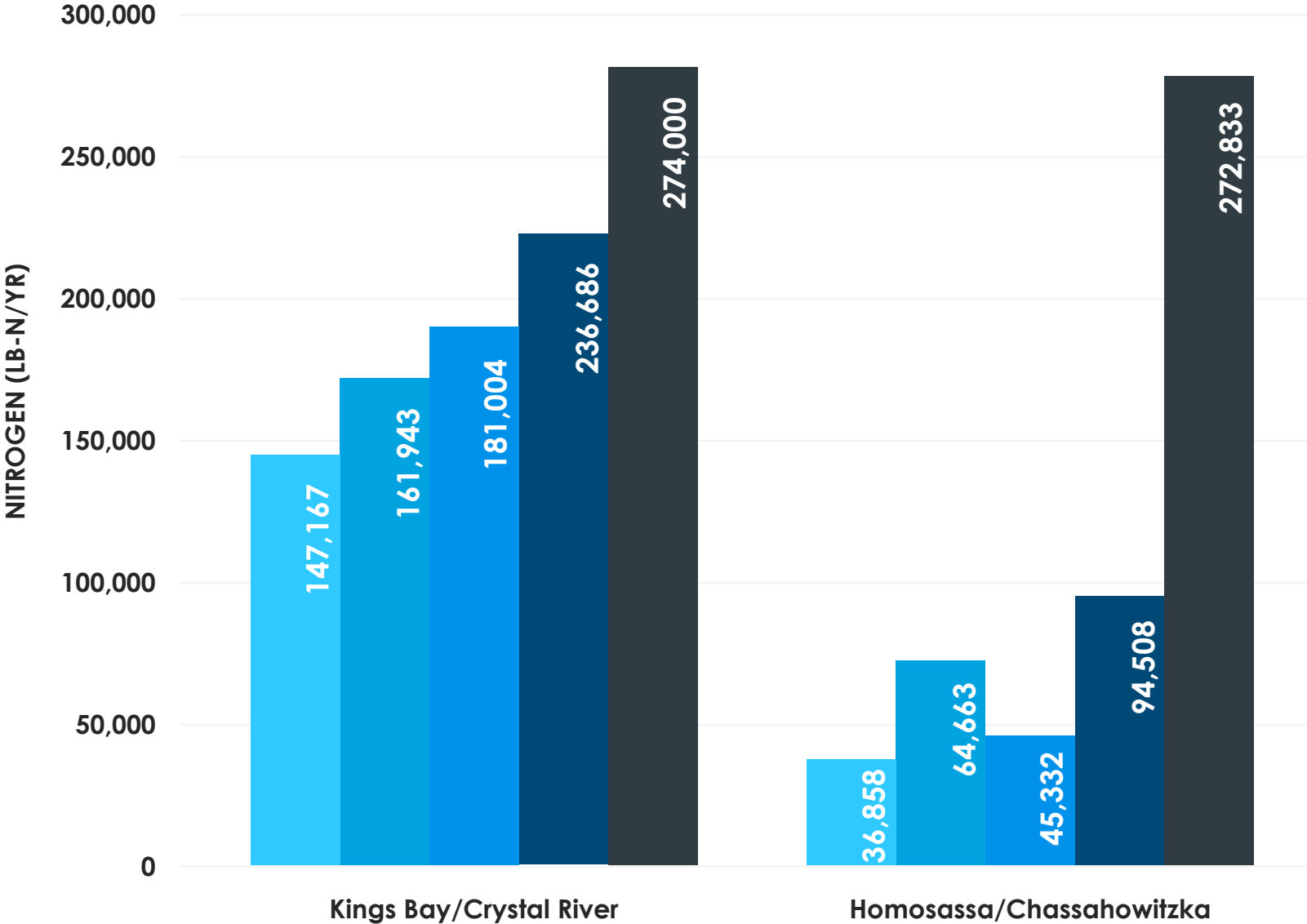
1	(26)
2	(71)
3	(23)
4	(47)



PLANNED NITROGEN CREDITS

Using environmental scoring, project areas, and project phasing, we developed our planned nitrogen credits

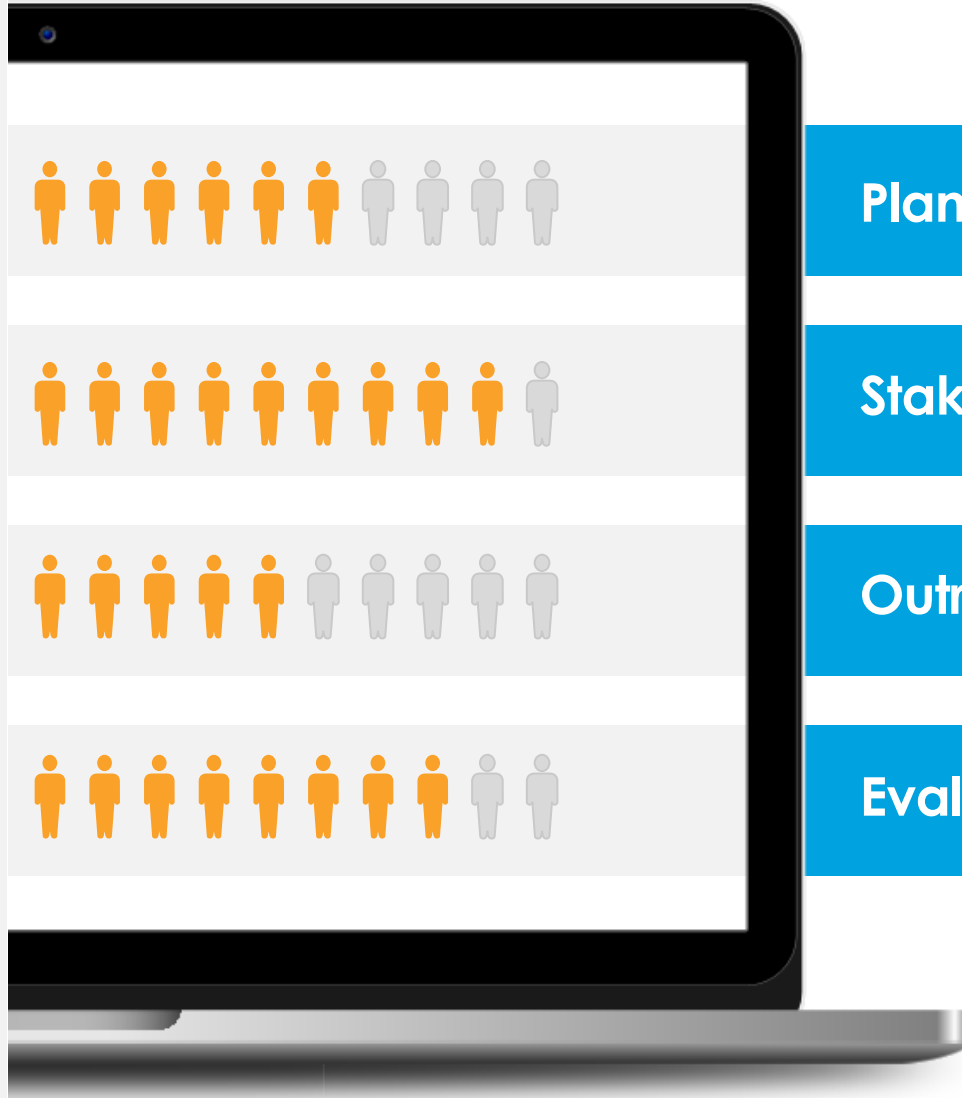
- Planned Low Credit Estimate
- BMAP Estimated Low Credit
- Planned High Credit Estimate
- BMAP Estimated High Credit
- Total Reduction Needed



PUBLIC INVOLVEMENT PROCESS

Stakeholders

- Citrus County
- FDEP
- Southwest Florida Water Management District
- Florida Fish & Wildlife Commission
- Save Crystal River
- Homosassa River Alliance
- Florida Springs Institute
- Crystal River State Park
- Crabbers, Fisherman, Fishing Guides/Charters



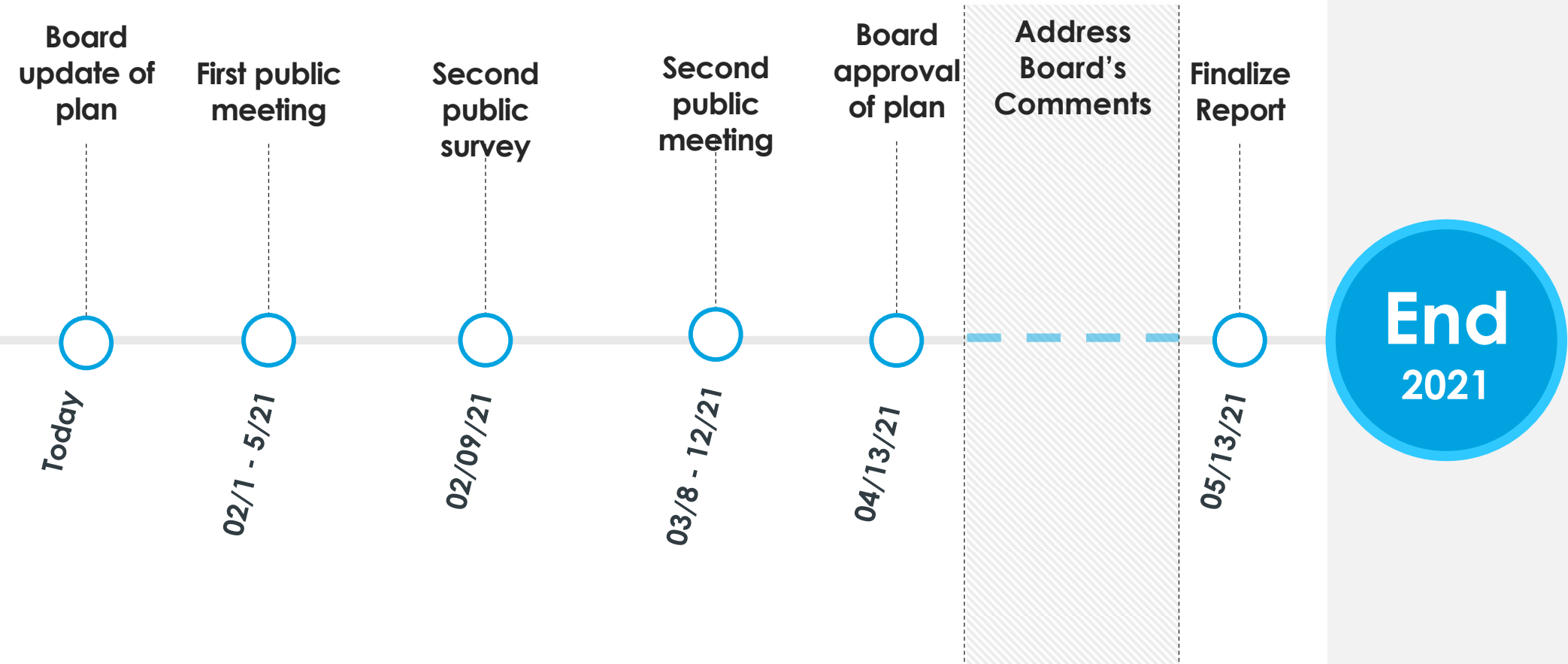
Plan Development

Stakeholder Identification

Outreach Strategies

Evaluation & Analysis

NEXT STEPS



QUESTIONS?