

Town of Palm Shores

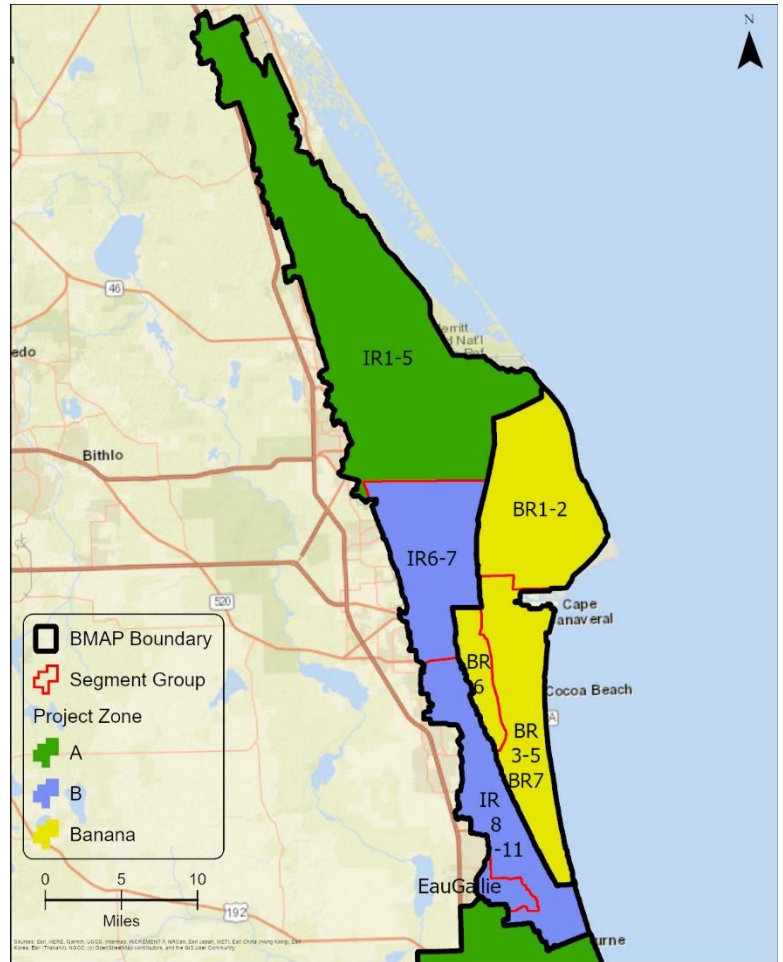
North Indian River Lagoon Basin Management Action Plan (BMAP)

Draft Allocations March 2020

Summary:

- Used load estimation tool (LET) developed from Spatial Watershed Iterative Loading (SWIL) Model to calculate total nitrogen (TN) and total phosphorus (TP) starting loads for each total maximum daily load (TMDL) “Segment Group”
- Applied percent reduction from TMDL for each Segment Group (see tables below) to calculate total TN and TP load reduction required for each Segment Group
- Used LET to calculate total anthropogenic starting load in each Segment Group and determine the percent each entity contributed to the total anthropogenic starting load.
- Multiplied the load reduction required in the Segment Group by the percent each entity contributed to the total anthropogenic starting load to calculate each entity’s required reductions within each Segment Group.

Note: Numbers have been rounded for display in this document but were not rounded during the full calculation process.

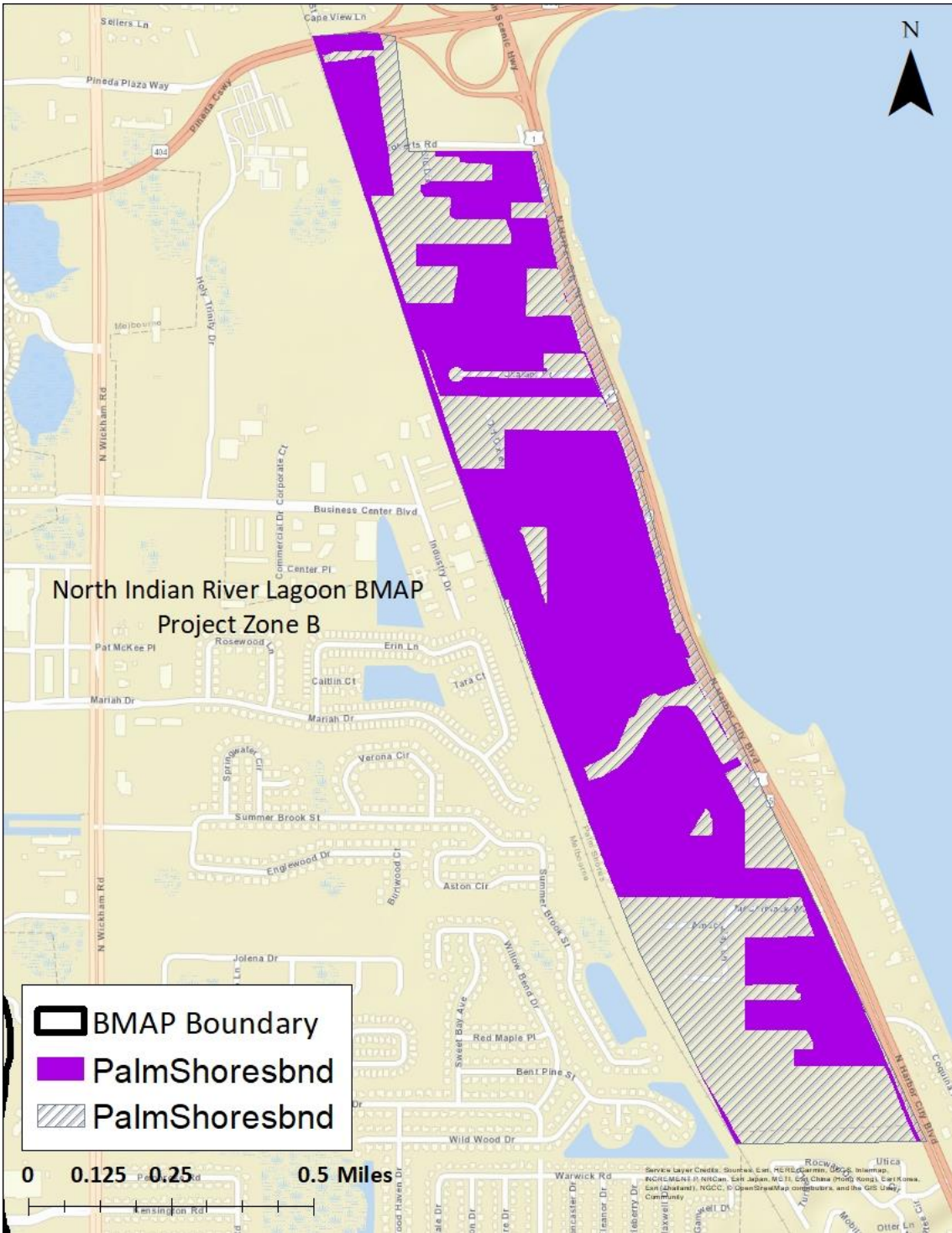


Required Reductions Per TMDL Segment Group

BMAP	Project Zone	TMDL Segment Group	% TN TMDL Total Reduction	% TP TMDL Total Reduction
North IRL	A	IR1-5	35%	47%
North IRL	B	IR6-7	36%	53%
North IRL	B	IR8-11	36%	48%
North IRL	B	EauGallie	51%	58%

New Load Calculations from SWIL Model

BMAP	Project Zone	TN (lbs/yr)			TP (lbs/yr)		
		Starting Load	Required Reductions	Allocation	Starting Load	Required Reductions	Allocation
North Indian River	B	1,478	605	873	213	114	99
Total		1,478	605	873	213	114	99



Draft Project Credit Recalculations

Using the LET and geographic information systems (GIS) tools, base loads for the project treatment areas were updated for all projects that require a base load for credit calculations. This allowed the project credits to be recalculated using the same foundation that was used for the updated allocations.

Current verified and completed projects:

North Indian River Lagoon

TN (lbs/yr)			TP (lbs/yr)		
Required Reductions	Updated Project Credits	% Reductions Achieved	Required Reductions	Updated Project Credits	% Reductions Achieved
605	0	0%	114	0	0%

These credits represent the Town of Palm Shores' status as of April 2020 – there will continue to be opportunities to submit new projects and obtain additional credits.

Notes:

- At present, the town has no projects on record for the BMAP, however it is likely the town already has some storm water management practices that can be credited towards the reduction of nutrients to the lagoon:
 - Are there any education efforts such as involvement with the Florida Yards and Neighborhoods (FYN) program; irrigation, fertilizer, landscaping, and/or pet waste ordinances; the town hosts a storm water treatment website or webpage, information pamphlets, and/or public service announcements; inspection programs for illicit discharges?
 - Are there any street sweeping efforts within the town?
 - Are there swales or other detention/retention storm water treatment within the town that go above and beyond their permitting requirements?
 - Additional projects are detailed in the PDF attachment "BMP Efficiencies July 2018"