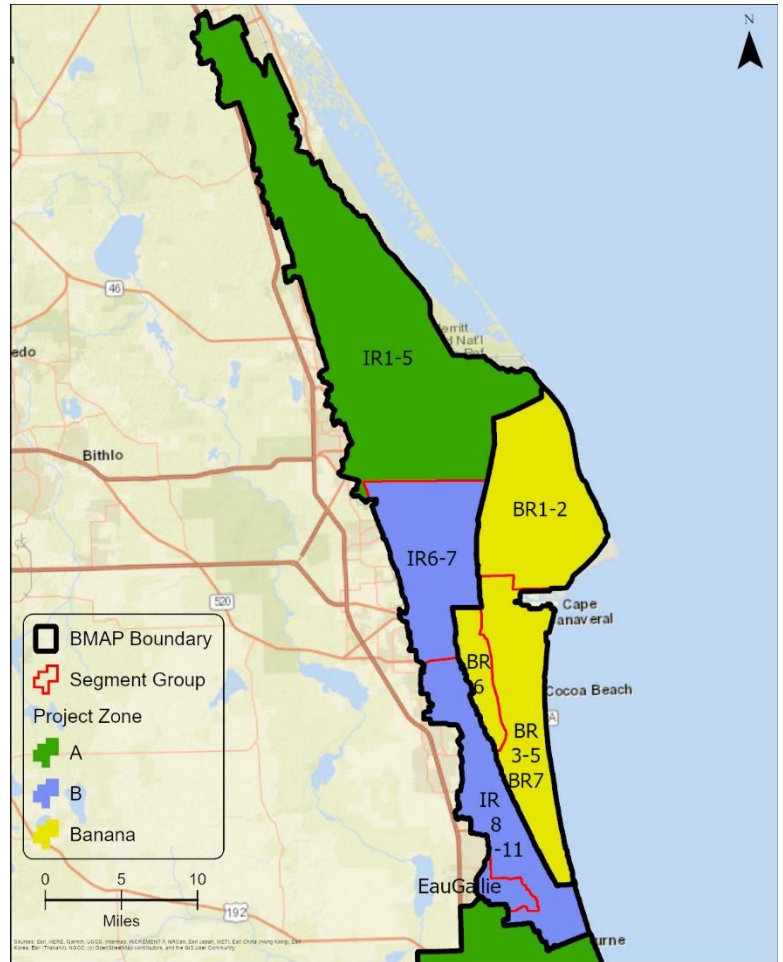


City of Rockledge
North Indian River Lagoon Basin Management Action Plan (BMAP)
Draft Allocations March 2020

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.

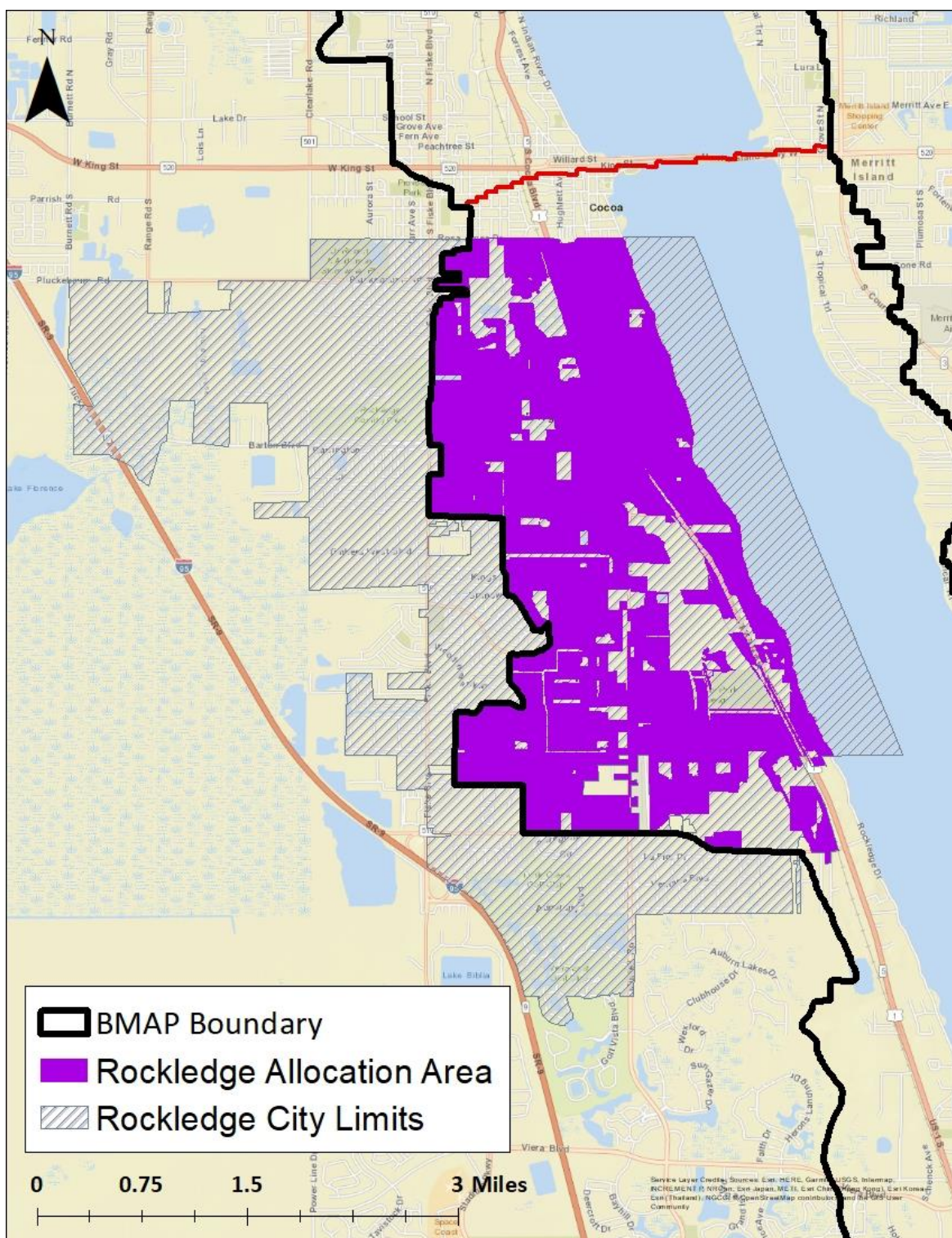


Required Reductions Per TMDL Segment Group

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	Eau Gallie	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	27,632	11,312	16,320	3,977	2,133	1,845
Total		27,632	11,312	16,320	3,977	2,133	1,845



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:

Banana River Lagoon

TN (lbs/yr)			TP (lbs/yr)		
Required Reductions	Updated Project Credits	% Reductions Achieved	Required Reductions	Updated Project Credits	% Reductions Achieved
11,312	8,895	79%	2,133	1,275	60%

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

Notes:

- The description for project **ROCK-22** appears to conflict with the project type. Please confirm the project type and any necessary additional information needed for the calculations.
- For **ROCK-17**, the acreage between the treatment area (TA) submitted in the Shapefile and the TA reported in the STAR are different. In supplemental documentation for project **ROCK-24**, it appears that these may be the same project.
- Additional information is needed to calculate the project efficiency at reducing nutrients for projects **ROCK-25 & ROCK-26**.
- There are 6 planned or underway projects with load reductions listed as "TBD" which can be calculated with the LET or other methods and added to total reductions once additional project information is received.