

FDEP Springs Funding FY2025 Applications

October 25, 2023

**My Home.
My Springs.**

Southwest Florida
Water Management District

#MySprings

FY2025 FDEP Springs Funding Applications Received								
Unit Number	Applicant	Project	Nitrogen Reduction (lbs/yr)	FDEP Request	WMD Request	Local Match	Other Funding	Total
APP01	Hernando County	Septic to Sewer District A Phase 2	2,782	\$ 800,000				\$ 800,000
APP02	Hernando County Utilities Department	Hernando County Private Package Plant Connections	595	\$ 5,000,000				\$ 5,000,000
		* Indicates multiyear funding request, only FY25 request listed						
	Application Count:	2	3,377	\$ 5,800,000	\$ -	\$ -	\$ -	\$ 5,800,000

APP01

Hernando County

Septic to Sewer District A Phase 2

FY2025

FDEP Springs Funding Application for Projects within the Southwest Florida Water Management District

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Southwest Florida
Water Management District
#MySprings

This application should be completed and emailed with the appropriate calculations and map to Lisa.Laupert@swfwmd.state.fl.us by 5:00PM on October 6, 2023.

1. Applicant Information

Entity Name: Hernando County

Is the Entity designated as an economically disadvantaged community? ☐ Yes ☒ No

Project Manager Name: Ron Patel

Project Manager Address: HCUD, 15365 Cortez Boulevard, Brooksville, FL 34613

Project Manager Phone Number: 352-540-6792

Project Manager Email Address: rpatel@co.hernando.fl.us

2. Project Information

Project Name: Septic to Sewer District A Phase 2

Project Type: Make Selection

Is this a multiyear project? ☐ Yes ☒ No

Note: For multiyear funding request, please download the [multiyear funding request spreadsheet](#), complete the form, and send in with this application.

What is the anticipated start and end date for the work that will be conducted under this funding request (in MM/YYYY)?

Start Date: 10/30/2024

End Date: 01/31/2026

If applicable, list the anticipated start and end dates for the design and construction phases (MM/YYYY).

Design: 10/30/2024 -

Construction: -

Estimated design completion at time of application (enter 0 if design is not yet started):

5 % complete

Are permits required? ☒ Yes ☐ No

If permits are required, please describe the required permits and the status at the time of application.

FDEP permits are required for the wastewater collection system

3. Project Benefit

Quantity of Water Made Available (mgd): N/A

Land Acquisition within Basin Management Action Plan (acres): N/A

Nitrogen Reduced (lbs/year): 2,782

Sediment Reduced (lbs/year): N/A

Please download the [FDEP Springs Funding guidance](#) document. Benefit calculations should be provided demonstrating how the benefit calculation was derived. A Map should be included showing the area of the project and depict notable features.

Please provide a full description of the project. For multiyear funded projects, please provide a description of the complete project, beginning to end, and a description explaining what phase will be covered by this funding request application.

Weeki Wachee Springs is impaired with high nitrates and has a Basin Management Action Plan was developed by the state to address this issue. This plan requires Hernando County to reduce the amount of nitrogen discharged to the groundwater within the BMAP area. Florida Department of Environmental Protection funded the county's OSTDS Remediation Feasibility Analysis Report to address the septic tanks that are contributing to the nitrogen loading. This feasibility analysis identified areas for completing septic to sewer conversions that would be appropriate. Septic to sewer district A is the closest area to the spring and was determined to have the most immediate impact. This district has been divided into two phases (phases 1 and 2) and phase 1 is currently under design and is planned for beginning construction in 2024. This application is for 30% design and 3rd party review for district A phase 2. 30% design is necessary to apply for future funding through the SWFWMD Cooperative Funding program and a future application for finishing the design and construction would follow in subsequent springs funding cycles. Phase 2 will consist of providing central sewer service to approximately 394 properties of which over 295 are currently developed with existing septic systems.

4. Project Funding Information

Are you applying for CFI funding this fiscal year? ☐ Yes ☒ No

Have you received springs funding or CFI funding for this project in the past? ☐ Yes ☒ No

Enter the funding amount that has been received and/or is being requested:

	Previous	FY2025	Future	Total
FDEP Springs Funding		\$ 800,000.00	\$ 10,500,000.00	\$ 11,300,000.00
WMD CFI Funding			\$ 2,250,000.00	\$ 2,250,000.00
Local Funding			\$ 2,250,000.00	\$ 2,250,000.00
Other Funding				\$ 0.00
Total	\$ 0.00	\$ 800,000.00	\$ 15,000,000.00	\$ 15,800,000.00

If CFI funding was not applied for, please move to Section 5. In the event this project is not awarded CFI funding, please use the table below to reflect how the costs will be handled without CFI funding.

	Previous	FY2025	Future	Total
FDEP Springs Funding				\$ 0.00
Local Funding				\$ 0.00
Other Funding				\$ 0.00
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

5. Project Location Information (please submit a map with this application)

County Hernando County

Latitude (decimal degrees) 28.517037

Longitude (decimal degrees) -82.558764

What is the spring name that will receive the benefit? Weeki Wachee

Is this spring deemed impaired? ☒ Yes ☐ No

What is the distance from the project to the spring receiving the benefit? Approx 1 mile

Is this project in a Basin Management Action Plan (BMAP)? ☒ Yes ☐ No

Is this project in the Priority Focus Area (PFA) of the BMAP? ☒ Yes ☐ No

Is this project listed in the BMAP project list? ☒ Yes ☐ No ☐ No, but will be in an update

 BMAP project number: HC-05

Is this project listed in a recovery strategy, prevention strategy, or regional water supply plan as benefiting an MFL? ☐ Yes ☒ No If yes, please describe below:

 Strategy name:

 Project number:

 Project name as listed:

Please describe any other recovery, prevention, or regional water supply plans or strategies this project is part of:

Please download the [FDEP Springs Funding guidance document](#). Benefit calculations should be provided demonstrating how the benefit calculation was derived. A Map should be included showing the area of the project and depict notable features.

Provide any additional information below that is pertinent to the review of this application. Include information on any existing ordinances, capital improvement plans, or master plans.

This project is part of the County's 5 year capital improvement program. The Hernando County Board of County Commissioners (BOCC) recently approved an ordinance requiring mandatory sewer connection when it is available. The BOCC has also established a municipal services benefit unit (MSBU) to assess fees in this neighborhood for the local funding contribution. This project is also part of Hernando County's Wastewater Master Plan.

Don't forget to submit

- Benefit Calculations
- Map
- Form A (Wastewater Collection and Treatment Projects)
- Form B (Water Quantity Projects & Reuse)
- Form C (Land Acquisition Projects)

Please contact Frank Gargano with any questions prior to submittal. Frank.Gargano@swfwmd.state.fl.us

Form A: Wastewater Collection & Treatment Projects Only - Page 1

What is the name of the wastewater treatment facility where the project intends to send flows once connected to sewer:

The Glen Water Reclamation Facility

What is the facility ID of the wastewater treatment facility where the project intends to send flows once connected to sewer:

FLA012069

What level of treatment is offered at the wastewater treatment facility?

Project is under design and funded to achieve AWT standards for TN (3 mg/l)

At the wastewater treatment facility, where is the final treated wastewater sent?

Reclaimed



What is the current capacity of the wastewater treatment facility (mgd)?

3

What is the annual average of flow received by the wastewater treatment facility (mgd)?

2

What is the annual average of total nitrogen leaving the treatment facility (mg/L)?

Approx 5 mg/l

How much additional flow will be received by the treatment facility due to the project (mgd)?

60,000 gpd

Please describe any proposed costs for the resident/property owner for connection to sewer. Will connection and/or impact fees be charged? If so, how much are the fees? What will the fees cover?

Connection fees will be charged to the resident which are currently \$3,544 per residential unit. These fees cover the capital cost of the treatment facility and subregional pump stations.

Is any land acquisition necessary? If so, please describe below.



Yes



No

Lift station sites may require an easement for access. This will be determined during 30% design.

What length of forcemain and pipe sizing is necessary? Please describe below.

The main forcemain will be 6"

Don't forget to submit benefit calculations

Form A: Wastewater Collection & Treatment Projects Only - Page 2

Septic to Sewer Conversion Projects Complete this Section:

How many parcels will be serviced once sewer is connected through this project?

394

How many existing septic tanks will be connected to sewer through this project?

295

Please provide the source(s) (e.g., property appraisals, FDEP databases, plumber field assessments, GIS layers) for determining which parcels have existing septic tanks.

Single family home counts in this area.

How many of the septic tanks in this project are commercial or industrial tanks?

for this phase they are all single family residential.

If commercial tanks are included in this project, provide type of commercial use and heated/ac square footage of the associated buildings below.

N/A

How many of the septic tanks service multi-family homes? 0

Is there a local ordinance in place that requires proper abandonment of septic system and connection to an available sewerage system, as defined by in Section 381.0065(21), Florida Statutes (F.S.)?



Yes



No

If yes, please provide a reference to the local ordinance.

Section 28-238 of the Hernando County Code of Ordinances

Describe any complementary efforts in developing, implementing, and enforcing water quality ordinances.

Recently revised the County's fertilizer ordinance imposing a summertime restriction for applying fertilizers containing Nitrogen.

Package Plant Conversion Projects Complete this Section:

What is the annual average flow (actual, not permitted) from the package plant (mgd)?

N/A

What is the annual average concentration (actual, not permitted) of total nitrogen (mg/L)?

N/A

Don't forget to submit benefit calculations

Form B: Water Quantity Projects

For Agricultural Projects associated with irrigation system efficiency improvements:

Proposed irrigation system efficiency (%):

Prior irrigation system efficiency (%):

Average metered water use for the past 5 years (mgd):

For Reclaimed Water Projects:

Note: Refer to Appendix D of the [Springs Funding Guidance](#) for how to calculate the following:

Projected Reuse Flow (mgd):

Percent Offset (%):

Was Percent Offset determined by Table 1 of the Springs Funding Guidance?

☐

Yes

☐

No

Percent Recharge (%):

Is there an existing water use permit?

☐

Yes

☐

No

If yes, please list the permit number.

What diameter and length of forcemain are necessary? Please describe below.

What pump size is necessary? Please describe below.

Please describe the number and/or approximate size of the parcel(s) being serviced (e.g., 123 residential irrigation customers, 10 acre county park).

Don't forget to submit benefit calculations

Form C: Land Acquisition Projects Only

Please describe land use both current and future (e.g., conservation easement to reduce agriculture intensity, land acquired for restoration efforts, conversion of land zoned as residential to open space/conservation). If mixed, depict acreage for each land use.

Does a portion of the land to be acquired lie outside of the BMAP? ☐ Yes ☐ No

Please note, the portion of land outside of a BMAP for a land acquisition project should not be included in reporting acreage preserved.

Does the parcel adjoin public lands or easements? ☐ Yes ☐ No

Will the land be held in conservation in perpetuity? ☐ Yes ☐ No

Based on [FDEP's NSILT recharge tool](#), what recharge area is the majority of the land located?

☐ High ☐ Medium ☐ Low

Has an evaluation of the fair market value been completed? ☐ Yes ☐ No
If yes, please include supporting documents with the application.

Will the land have public access and/or public education components? ☐ Yes ☐ No
If yes, please describe below.

Will a land management plan be in place at the time of acquisition? ☐ Yes ☐ No
If yes, please describe below.

Don't forget to submit fair market value documentation

SEPTIC TO SEWER CONVERSION PROJECT

District A - Phases 1 and 2

DISTRICT A
PHASE 1

DISTRICT A
PHASE 2

Calculate Load reduction from S2S District A, Phase 2 Hernando County

(Input from septic systems X 0.5 X recharge factor for area) –

(Input from septic system X percent N remaining after treatment X attenuation factor of WW application method X recharge factor)*

(23.7 lb/yr home X 0.5 X 0.9) –

((200gpd/home X MGD/1,000,000 gal X 8.34 X 30 mg/l X 365 day/yr) X 0.1 X 0.75 X 0.9]

= 9.432 lb TN/yr reduced per septic tank converted

9.432 lb TN/yr x 295 homes = 2,782 lb TN removed/year

* Page 21 of Springs Funding Guidance

APP02

Hernando County Utilities
Department

Hernando County Private
Package Plant Connections

FY2025

FDEP Springs Funding Application for Projects within the Southwest Florida Water Management District

My Home.
My Springs.

Southwest Florida
Water Management District
#MySprings

This application should be completed and emailed with the appropriate calculations and map to Lisa.Laupert@swfwmd.state.fl.us by 5:00PM on October 6, 2023.

1. Applicant Information

Entity Name: Hernando County Utilities Department

Is the Entity designated as an economically disadvantaged community? ☐ Yes ☒ No

Project Manager Name: Ron Patel

Project Manager Address: HCUD, 15365 Cortez Boulevard, Brooksville, FL 34613

Project Manager Phone Number: 352-540-6792

Project Manager Email Address: rpatel@co.hernando.fl.us

2. Project Information

Project Name: Hernando County Private Package Plant Connections

Project Type: Waste Water Collection & Treatment (Complete Form A)

Is this a multiyear project? ☐ Yes ☒ No

Note: For multiyear funding request, please download the [multiyear funding request spreadsheet](#), complete the form, and send in with this application.

What is the anticipated start and end date for the work that will be conducted under this funding request (in MM/YYYY)?

Start Date: 01/01/2024

End Date: 12/31/2027

If applicable, list the anticipated start and end dates for the design and construction phases (MM/YYYY).

Design: 07/01/2018 - 11/30/2023 Construction: 01/01/2024 - 12/31/2027

Estimated design completion at time of application (enter 0 if design is not yet started):

95 % complete

Are permits required? ☒ Yes ☐ No

If permits are required, please describe the required permits and the status at the time of application.

FDEP Permit for the wastewater collection system, NPDES permit, Gophers Tortoise survey permit, Hernando County Dept. of Public Works permit for construction on a public ROW, SWFWMD Storm-water permit, Hernando County building permit (required for pump house building, if any)

3. Project Benefit

Quantity of Water Made Available (mgd): N/A

Land Acquisition within Basin Management Action Plan (acres): N/A

Nitrogen Reduced (lbs/year): 595

Sediment Reduced (lbs/year): N/A

Please download the [FDEP Springs Funding guidance](#) document. Benefit calculations should be provided demonstrating how the benefit calculation was derived. A Map should be included showing the area of the project and depict notable features.

Please provide a full description of the project. For multiyear funded projects, please provide a description of the complete project, beginning to end, and a description explaining what phase will be covered by this funding request application.

Several package plants are in close proximity to first order magnitude springs and are within first order magnitude springsheds. Weeki Wachee and Homosassa have been deemed to be impaired waterbodies under Chapter 61-303(d) F.A.C. due to nutrient levels. This project is the continuation of the County's effort to provide wastewater service to existing private wastewater package plants adjacent to Weeki Wachee Springs and within the Weeki Wachee springsheds. This project will improve water quality by demolishing existing private wastewater package plants and replacing them with lift stations to connect to the County's central wastewater collection system.

The County is working on completing 100% of the design and over 90% is currently finished. With the current cost estimates, there is only enough grant funding to complete one of the four lift stations needed. Hernando County Utilities Department would like to request additional funding from the State. The current shortfall to construct the remaining three totals approximately \$5.0 million. These funds were awarded to the Southwest Florida Water Manangement District (Grantee); Hernando County will work in conjunction with the Grantee on this project.

Weeki Wachee Springs is impaired with high nitrates and has a Basin Management Action Plan developed by the state to address this issue. This plan requires Hernando County to reduce the amount of nitrogen discharged to the groundwater within the BMAP area. The Hernando County Private Package Plant Connections project will connect Weeki Wachee North Mobile Home Park, Topics RV Resort, and Frontier Mobile Home Park private wastewater package plants to the Hernando County's central wastewater collection system.

This project will result in additional availability of reclaimed water for potential reuse or aquifer recharge, and will reduce nutrient loading to the local spring sheds. The project will increase County's sanitary sewer conveyance capacity, prevent water contamination, & assist in preserving healthy environment & quality of life.

Construction funding through FDEP is essential to build this project.

4. Project Funding Information

Are you applying for CFI funding this fiscal year? ☒ Yes ☐ No

Have you received springs funding or CFI funding for this project in the past? ☒ Yes ☐ No

Enter the funding amount that has been received and/or is being requested:

	Previous	FY2025	Future	Total
FDEP Springs Funding	\$ 3,432,970.00	\$ 5,000,000.00		\$ 8,432,970.00
WMD CFI Funding				\$ 0.00
Local Funding	\$ 317,032.00			\$ 317,032.00
Other Funding				\$ 0.00
Total	\$ 3,750,002.00	\$ 5,000,000.00	\$ 0.00	\$ 8,750,002.00

If CFI funding was not applied for, please move to Section 5. In the event this project is not awarded CFI funding, please use the table below to reflect how the costs will be handled without CFI funding.

	Previous	FY2025	Future	Total
FDEP Springs Funding				\$ 0.00
Local Funding				\$ 0.00
Other Funding				\$ 0.00
Total	\$ 0.00	\$ 0.00	\$ 0.00	\$ 0.00

5. Project Location Information (please submit a map with this application)

County Hernando

Latitude (decimal degrees) 28.53491724064014

Longitude (decimal degrees) -82.4749231338501

What is the spring name that will receive the benefit? Weeki Wachee

Is this spring deemed impaired? ☒ Yes ☐ No

What is the distance from the project to the spring receiving the benefit? Approx. 4 miles (various)

Is this project in a Basin Management Action Plan (BMAP)? ☒ Yes ☐ No

Is this project in the Priority Focus Area (PFA) of the BMAP? ☒ Yes ☐ No

Is this project listed in the BMAP project list? ☒ Yes ☐ No ☐ No, but will be in an update

BMAP project number: HC -05

Is this project listed in a recovery strategy, prevention strategy, or regional water supply plan as benefiting an MFL? ☐ Yes ☒ No If yes, please describe below:

Strategy name:

Project number:

Project name as listed:

Please describe any other recovery, prevention, or regional water supply plans or strategies this project is part of:

Please download the [FDEP Springs Funding guidance document](#). Benefit calculations should be provided demonstrating how the benefit calculation was derived. A Map should be included showing the area of the project and depict notable features.

Provide any additional information below that is pertinent to the review of this application. Include information on any existing ordinances, capital improvement plans, or master plans.

1. This project is part of the County's 5 year capital improvement program.
2. As per the Hernando County's Wastewater Master Plan, Strategy 6.01D(3): No new package plants shall be permitted except as a temporary measure. Developments allowed to utilize package plants shall enter into an agreement for service and be required to connect to central facilities when they are available.
3. Weeki Wachee and Homosassa have been deemed to be impaired waterbodies under Chapter 61-303(d) F.A.C. due to nutrient levels.

Don't forget to submit

- Benefit Calculations
- Map
- Form A (Wastewater Collection and Treatment Projects)
- Form B (Water Quantity Projects & Reuse)
- Form C (Land Acquisition Projects)

Please contact Frank Gargano with any questions prior to submittal. Frank.Gargano@swfwmd.state.fl.us

Form A: Wastewater Collection & Treatment Projects Only - Page 1

What is the name of the wastewater treatment facility where the project intends to send flows once connected to sewer:

Flows from Weeki Wachee North & Frontier will go to Glen WRF, and from Topics will go to

What is the facility ID of the wastewater treatment facility where the project intends to send flows once connected to sewer:

Glen WRF - FLA012069, Airport Plant - FLA017223

What level of treatment is offered at the wastewater treatment facility?

Disinfection dosing system, producing public-access reuse water, and funded

At the wastewater treatment facility, where is the final treated wastewater sent?

Reclaimed

What is the current capacity of the wastewater treatment facility (mgd)?

Glen - 3.0 mgd, Airport - 6.0

What is the annual average of flow received by the wastewater treatment facility (mgd)?

Glen - 2.0 mgd, Airport

What is the annual average of total nitrogen leaving the treatment facility (mg/L)?

Approximately 5 mg/L

How much additional flow will be received by the treatment facility due to the project (mgd)?

Approximately 0.071 mgd

Please describe any proposed costs for the resident/property owner for connection to sewer. Will connection and/or impact fees be charged? If so, how much are the fees? What will the fees cover?

Connection fees are included in the total cost of the project. They are \$3,544 per ERU. They cover treatment plant and subregional pump station capacity expansions.

Is any land acquisition necessary? If so, please describe below.

☐ Yes

☒ No

What length of forcemain and pipe sizing is necessary? Please describe below.

Approximately 6900 LF of pipe (of various sizes) needed for all three locations

Don't forget to submit benefit calculations

Form A: Wastewater Collection & Treatment Projects Only - Page 2

Septic to Sewer Conversion Projects Complete this Section:

How many parcels will be serviced once sewer is connected through this project?

N/A

How many existing septic tanks will be connected to sewer through this project?

N/A

Please provide the source(s) (e.g., property appraisals, FDEP databases, plumber field assessments, GIS layers) for determining which parcels have existing septic tanks.

N/A

How many of the septic tanks in this project are commercial or industrial tanks?

N/A

If commercial tanks are included in this project, provide type of commercial use and heated/ac square footage of the associated buildings below.

N/A

How many of the septic tanks service multi-family homes? N/A

Is there a local ordinance in place that requires proper abandonment of septic system and connection to an available sewerage system, as defined by in Section 381.0065(21), Florida Statutes (F.S.)?

☐

Yes

☐

No

If yes, please provide a reference to the local ordinance.

N/A

Describe any complementary efforts in developing, implementing, and enforcing water quality ordinances.

N/A

Package Plant Conversion Projects Complete this Section:

What is the annual average flow (actual, not permitted) from the package plant (mgd)?

0.061 mgd (combined 3 locs)

What is the annual average concentration (actual, not permitted) of total nitrogen (mg/L)?

15.35 mg/L

Don't forget to submit benefit calculations

Form B: Water Quantity Projects

For Agricultural Projects associated with irrigation system efficiency improvements:

Proposed irrigation system efficiency (%):

Prior irrigation system efficiency (%):

Average metered water use for the past 5 years (mgd):

For Reclaimed Water Projects:

Note: Refer to Appendix D of the [Springs Funding Guidance](#) for how to calculate the following:

Projected Reuse Flow (mgd):

Percent Offset (%):

Was Percent Offset determined by Table 1 of the Springs Funding Guidance?

☐

Yes

☐

No

Percent Recharge (%):

Is there an existing water use permit?

☐

Yes

☐

No

If yes, please list the permit number.

What diameter and length of forcemain are necessary? Please describe below.

What pump size is necessary? Please describe below.

Please describe the number and/or approximate size of the parcel(s) being serviced (e.g., 123 residential irrigation customers, 10 acre county park).

Don't forget to submit benefit calculations

Form C: Land Acquisition Projects Only

Please describe land use both current and future (e.g., conservation easement to reduce agriculture intensity, land acquired for restoration efforts, conversion of land zoned as residential to open space/conservation). If mixed, depict acreage for each land use.

Does a portion of the land to be acquired lie outside of the BMAP? ☐ Yes ☐ No

Please note, the portion of land outside of a BMAP for a land acquisition project should not be included in reporting acreage preserved.

Does the parcel adjoin public lands or easements? ☐ Yes ☐ No

Will the land be held in conservation in perpetuity? ☐ Yes ☐ No

Based on [FDEP's NSILT recharge tool](#), what recharge area is the majority of the land located?

☐ High ☐ Medium ☐ Low

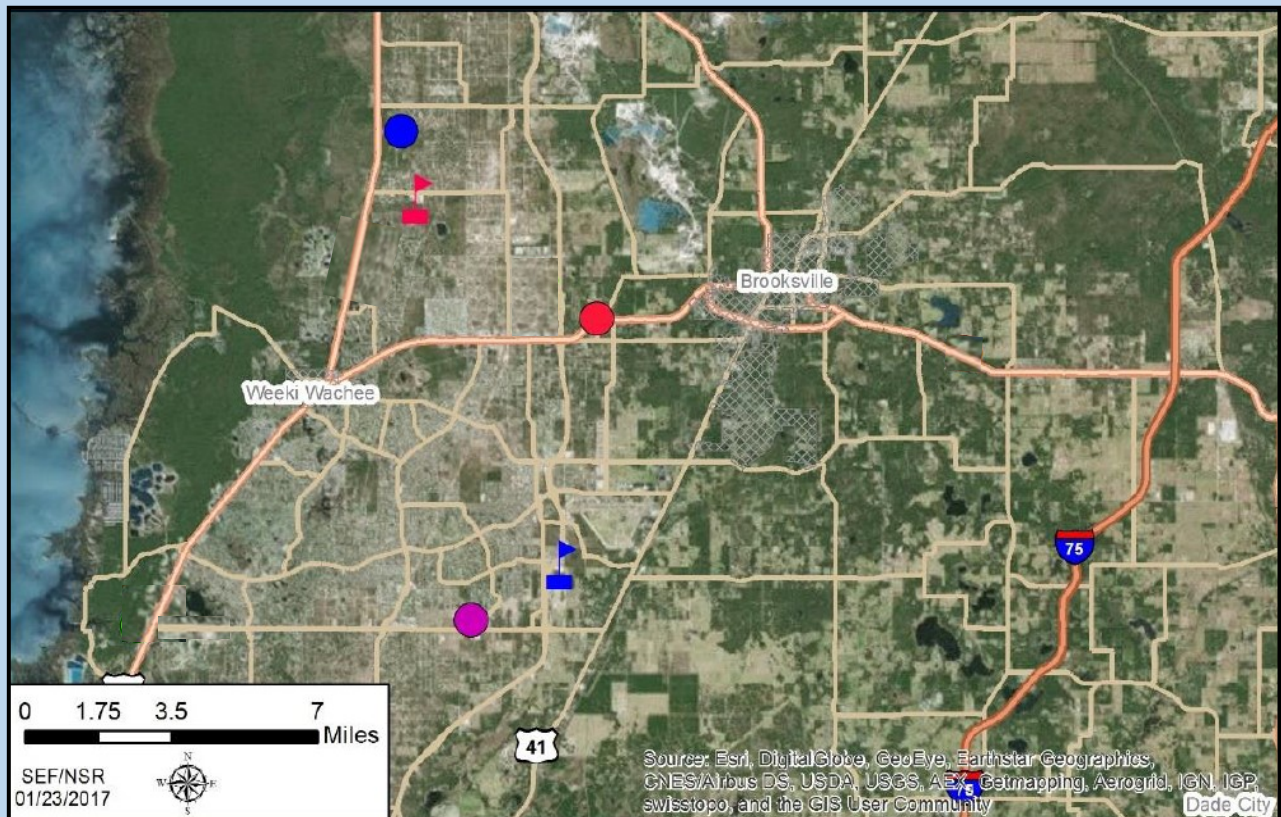
Has an evaluation of the fair market value been completed? ☐ Yes ☐ No
If yes, please include supporting documents with the application.

Will the land have public access and/or public education components? ☐ Yes ☐ No
If yes, please describe below.

Will a land management plan be in place at the time of acquisition? ☐ Yes ☐ No
If yes, please describe below.

Don't forget to submit fair market value documentation

Hernando County's Package Plant Connection Project for FY2025 FDEP Springs Funding Application



Receiving Facilities

-  Glen Water Reclamation Facility
-  Hernando Airport Subregional WWTF

Decommissioned Facilities

-  Frontier Campground MHP
-  Topics RV Community WWTF
-  Weeki Wachee North MHP WWTF
-  Weeki Wachee WWTF



Southwest Florida
Water Management District

-  Chassahowitzka
-  Crystal River -Kings Bay
-  Homosassa
-  Rainbow Springs
-  Weeki Wachee



Legend

- To Closest Connection Point
- Existing Force Main

Weeki Wachee North MHP WWTF - .026 MGD



Drawn By: rjk

February 2014

Hernando County Geographic Information System (GIS)
Standard Legal Disclaimer

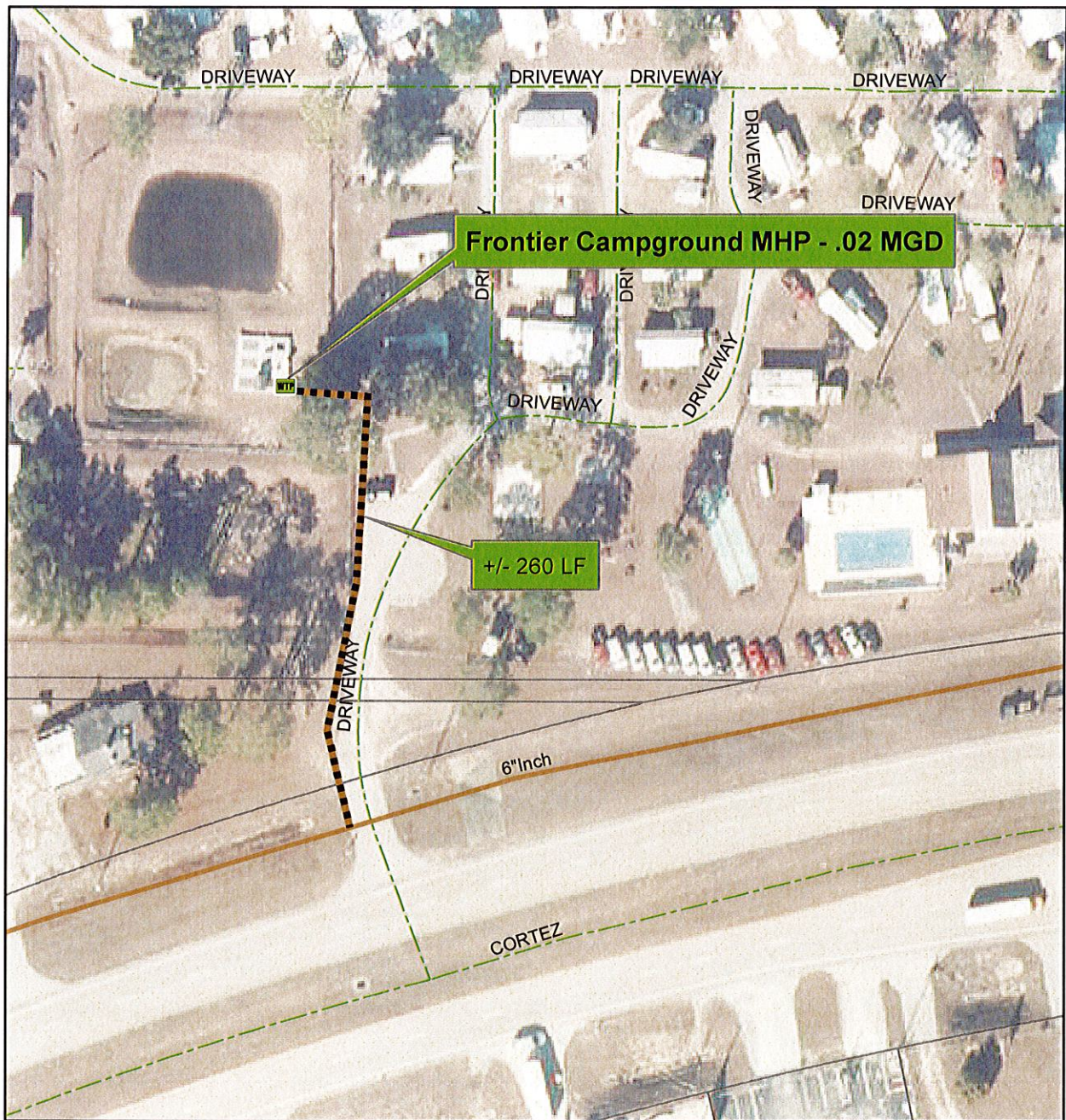
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Hernando County Utilities Department

21030 Cortez Blvd

Brooksville Florida 34601

Ph (352) 754-4037 Fax (352) 754-4485



Legend

- To Closest Connection Point
- Existing Force Main

Frontier Campground MHP - .02 MGD



Drawn By: rjk

February 2014

Hernando County Geographic Information System (GIS)
Standard Legal Disclaimer

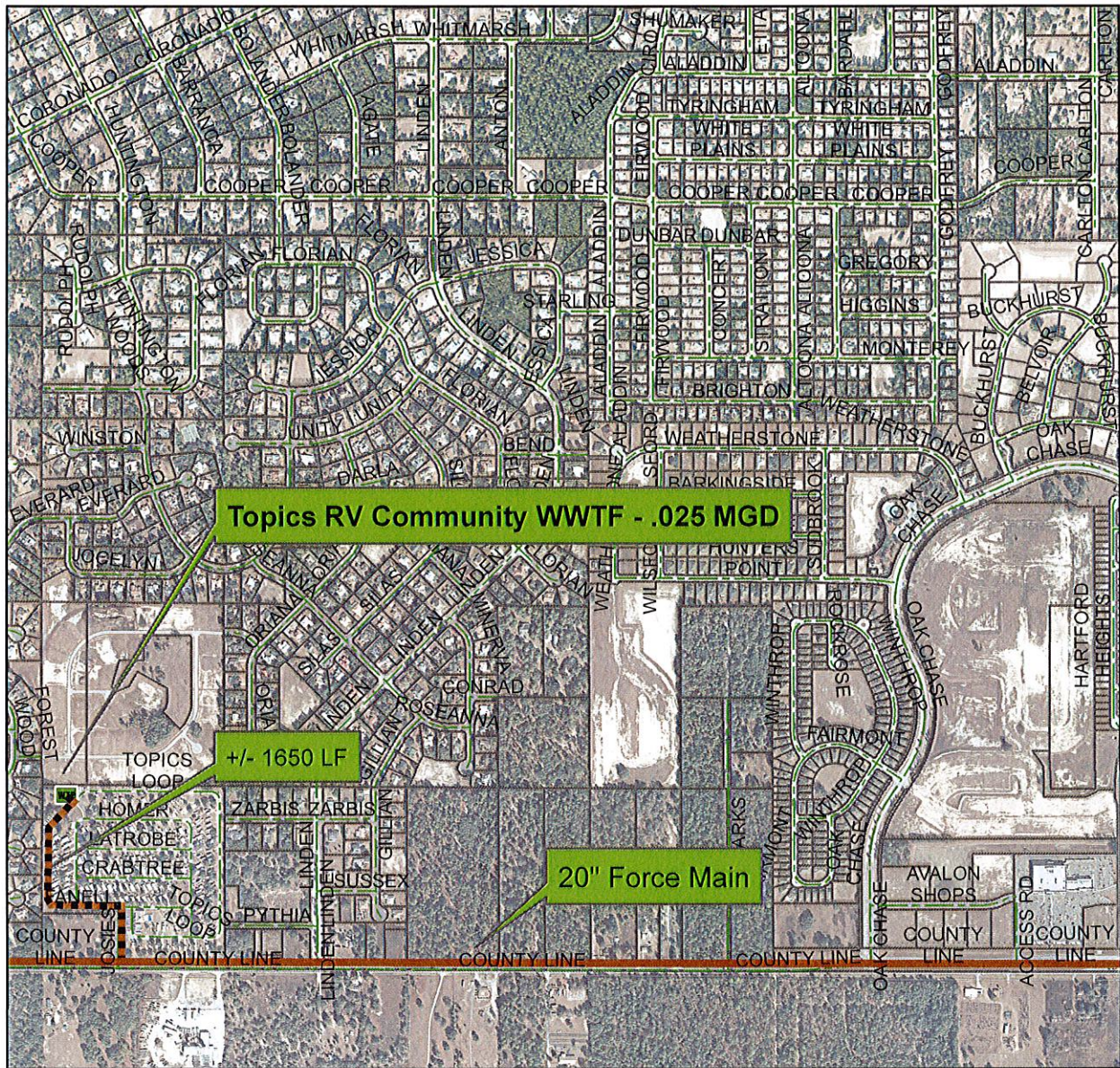
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Hernando County Utilities Department

21030 Cortez Blvd

Brooksville Florida 34601

Ph (352) 754-4037 Fax (352) 754-4485



Legend

- Existing Force Main
- To Closest Connection Point

Topics RV Community WWTF - .025 MGD



Drawn By: rjk

Date: 10/1/2015

Hernando County Geographic Information System (GIS)
Standard Legal Disclaimer

"The information in this database or as represented upon a digital or hard copy thereof is compiled and/or generated for internal County purposes, is not necessarily official, and may or may not reflect the most recent changes. Accordingly, use of this information is at the user's own risk, and Hernando County hereby disclaims any liability for claims, damages, injury, or loss of any kind based upon use of, or reliance upon, the information herein for any purpose whatsoever."

Hernando County Utilities Department

21030 Cortez Blvd

Brooksville Florida 34601

Ph (352) 754-4037

Fax (352) 754-4485

PLANT FLOW (mgd)

Proj No.	Rank	Project Name	January	February	March	April	May	June	July	August	September	October	November	December	AVERAGE
P132	6	Weeki Wachee North Package Plant Connection	0.011	0.011	0.012	0.011	0.009	0.008	0.008	0.008	0.009	0.011	0.013	0.012	0.010
P125	7	Frontier Campground Package Plant Connection	0.007	0.008	0.007	0.007	0.005	0.006	0.007	0.007	0.004	0.004	0.006	0.008	0.006
P131	8	Tropics RV Community Package Plant Connection	0.01	0.012	0.012	0.014	0.009	0.008		0.01	0.008	0.008	0.009	0.01	0.010

** based on package plant average of 15.35 mg/l TN minus WWTP quality 8 mg/l TN

	flow in mgd	reduction in mg/l TN**	conversion	lb of N per day	lb of TN removed per year
6 Weeki Wachee North	0.010	7.35	8.34	0.6	229
7 Frontier Campground	0.006	7.35	8.34	0.4	142
8 Topics RV Community	0.010	7.35	8.34	0.6	224
TOTAL	0.027	7.35	8.34	1.6	595

Cost Effectiveness over 30 Years

total project cost	total project cost/lb TN	\$/lb TN/yr
\$ 906,400	\$3,952	\$131.74
\$ 463,400	\$3,270	\$109.01
\$ 666,600	\$2,979	\$99.31
\$ 2,036,400	\$3,424	\$114.13