



CITRUS COUNTY
BOARD OF COUNTY COMMISSIONERS
MINUTES • JULY 13, 2021

Public Workshop

Citrus County Courthouse

9:00 AM

Room 100, 110 N. Apopka Avenue, Inverness, FL 34450

A. CALL TO ORDER

July 13, 2021 Citrus County Courthouse
The meeting was called to order at 9:00 AM

1. Invocation

First Vice Chairman Ronald E. Kitchen, Jr. led the invocation.

2. Pledge of Allegiance

3. Roll Call

Attendee Name	Title	Status	Arrived
Scott Carnahan	Chair, District 4	Present	
Ronald E. Kitchen Jr.	1st Vice Chair, District 2	Present	
Ruthie Davis Schlabach	2nd Vice Chair, District 3	Present	
Jeff Kinnard D.C.	Commissioner District 1	Present	
Holly L. Davis	Commissioner, District 5	Present	
Denise A. Dymond Lyn	County Attorney	Present	
Charles R. Oliver	County Administrator	Present	
Amy Charley	Deputy Clerk	Present	
Celina Kraus	Deputy Clerk	Present	

B. WORKSHOP IRRIGATION & LANDSCAPING

Chairman Scott Carnahan provided an explanation of the meeting.

B.1. Workshop Landscape Irrigation

Staff presentation regarding the current status of County water use permits, landscape irrigation and watering restrictions.

Water Resources Director Ken Cheek provided the presentation and responded to questions from the Board, followed by Board discussion.

Michael Molligan, Employer and External Relations Director of the Southwest Florida Water Management District addressed the Board and answered questions from the Board.

C. OPEN TO THE PUBLIC

The following individuals addressed the Board: Mark Bateman; Carole Scragg; Gary Poole; Bruce Miller; and Bob Bass.

Commissioners and Water Resources Director Ken Cheek responded to the comments from the public, followed by Board discussion with Mr. Cheek.

Consensus of the Board was to direct staff to schedule a future workshop.

Board discussion continued.

D. UPCOMING MEETINGS

- | |
|---|
| 1. Regular Meeting: July 13, 2021 at 1:00 PM , Citrus County Courthouse, Room 100, 110 N. Apopka Avenue, Inverness, FL 34450 |
|---|

E. UPCOMING WORKSHOPS AND SPECIAL MEETINGS**F. ADJOURN**

The meeting was adjourned at 10:38 AM



AGENDA MEMORANDUM

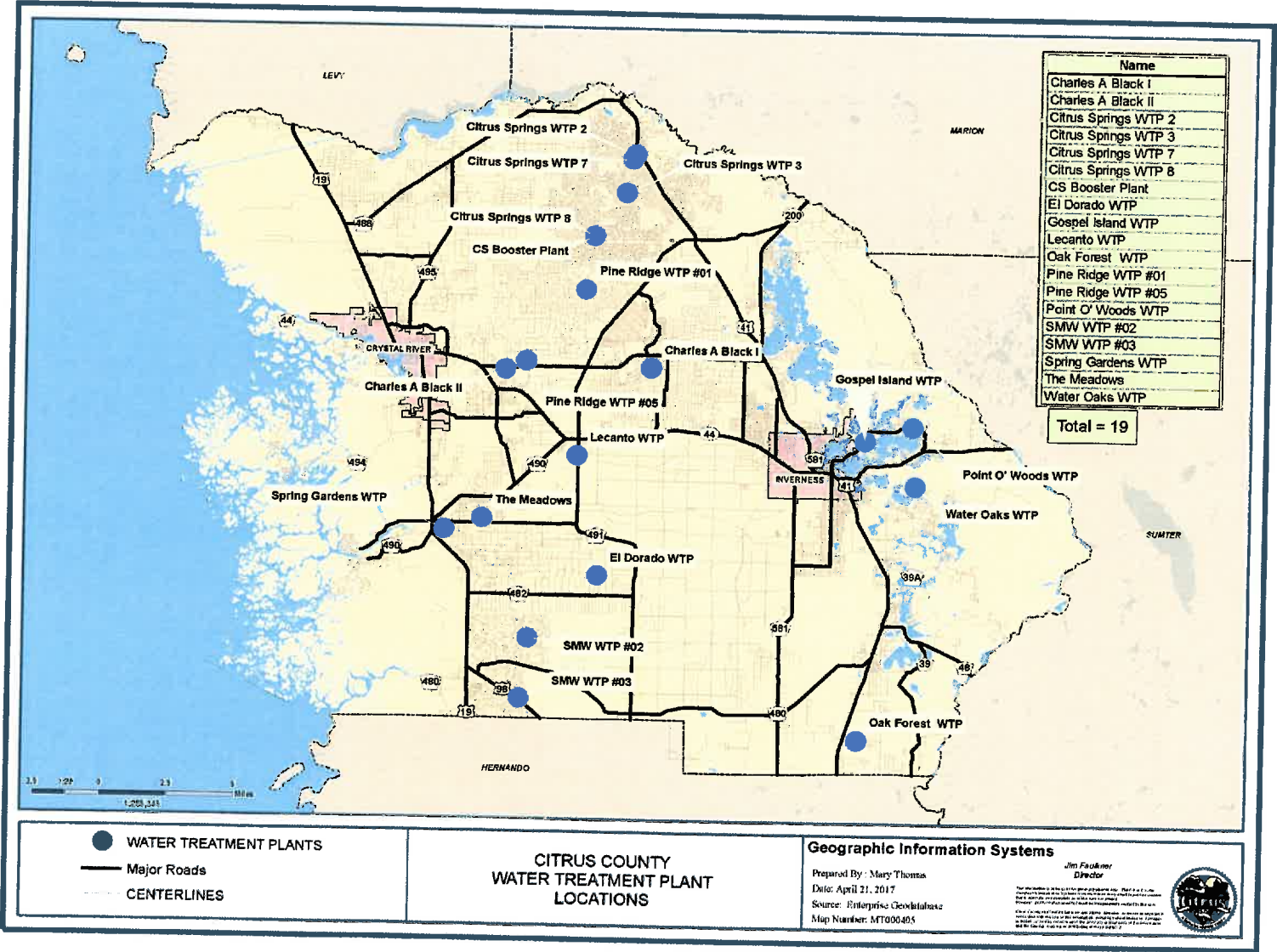
FROM:	Ken Cheek, Director, Water Resources Department				
SUBJECT:	Landscape Irrigation				
AGENDA DATE:	July 13, 2021				
<u>BRIEF OVERVIEW:</u>					
Workshop regarding County water use permits, landscape irrigation and watering restrictions.					
<u>BUDGET IMPACT/FUNDING SOURCE:</u>					
Account No.	Account Title	Current Budget	YTD Expenditures	Encumbrances	Available Balance
					\$0
<u>RECOMMENDED ACTION:</u>					
Staff presentation regarding the current status of County water use permits, landscape irrigation and watering restrictions.					

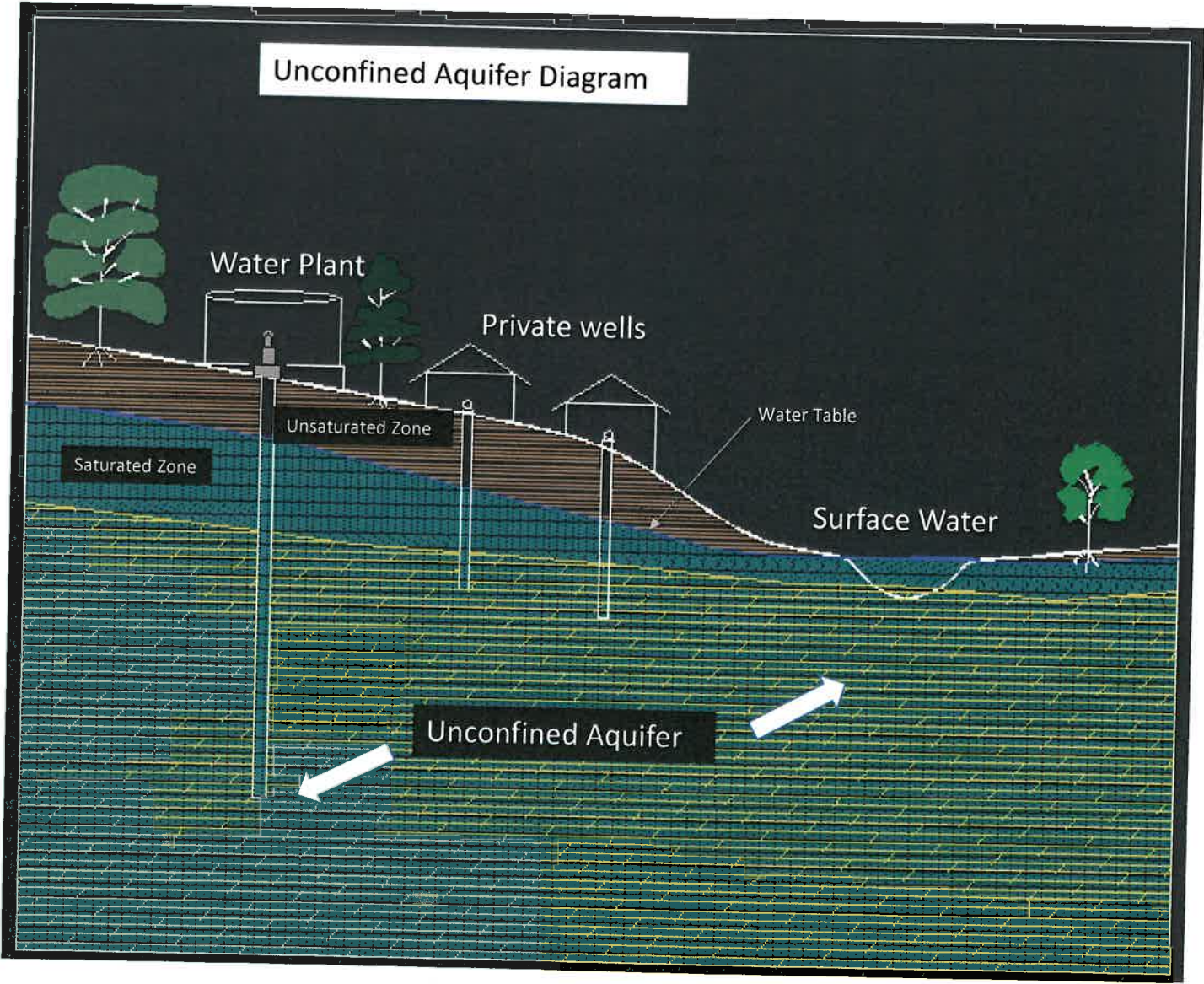
Citrus County Department of Water Resources

Landscape Irrigation Workshop
July 2021

Citrus County Water Resources

- The County maintains 11 Florida Department of Environmental Protection (FDEP) permitted Public Water Systems (PWS) including 14 Water Treatment Plants and 33 groundwater withdrawal wells.
 - FDEP permits are related to water quality, water storage, and distribution capacity.
 - The total permitted daily withdrawals for the 3 major County water systems is 11.8 MGD
- The County also maintains Southwest Florida Water Management District (SWFWMD) Water Use Permits (WUP) for these systems.
 - SWFWMD WUPs are related to groundwater withdrawals for public drinking water supply





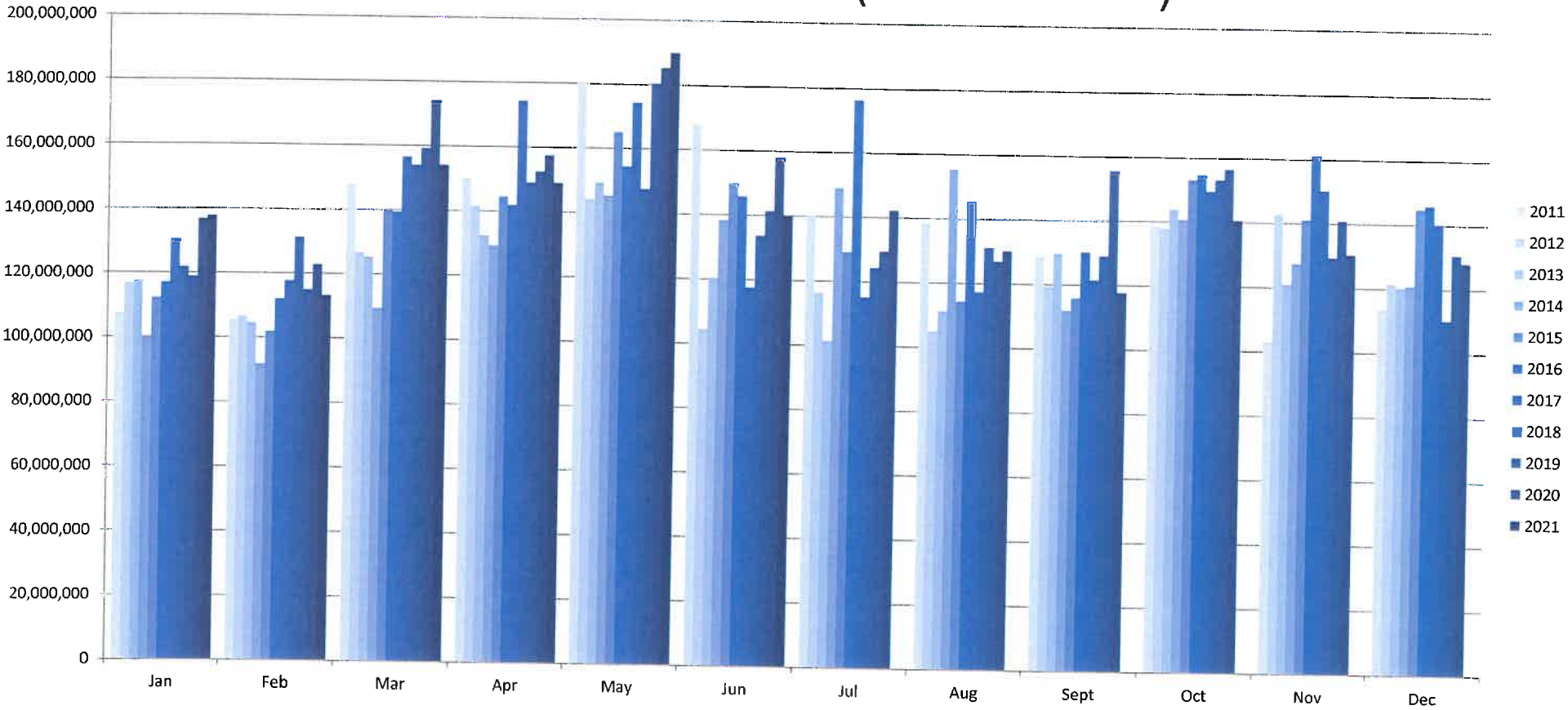
Charles A Black Public Water System

- FDEP PWS Permit – 6094948
- SWFWMD WUP – 7121.006 (expires 3/13/2022)
 - Population served according to the 2020 Public Supply Annual Report was 26,241 (up 4% from 2019). This is the County's largest PWS.
 - Per capita usage for 2020 is 151 GPD/person (includes reclaimed water credit – would be 162 without credit). This figure is up from previous years due to reduced credit from inoperable control valve in reclaimed water transmission system.
 - Annual Average permit limit is 4,597,000 Gallons per Day (GPD).
 - Current rolling Annual Average (July 2020 – June 2021) is 4,579,454 GPD (99.6% of permit).
 - **The rolling Annual Average exceeded the permit limit from September 2019 through June 2021.** A non-compliance letter from the SWFWMD was received by the County on June 2, 2020 indicating that the County exceeded the annual average permit limit by >5%, in violation of the permit.
 - Following a public hearing on June 23, 2020, the BOCC enacted once a week watering restrictions.
 - The rolling Annual Average returned below the permit limit on July 1, 2021 when the June 2021 pumpage was finalized.

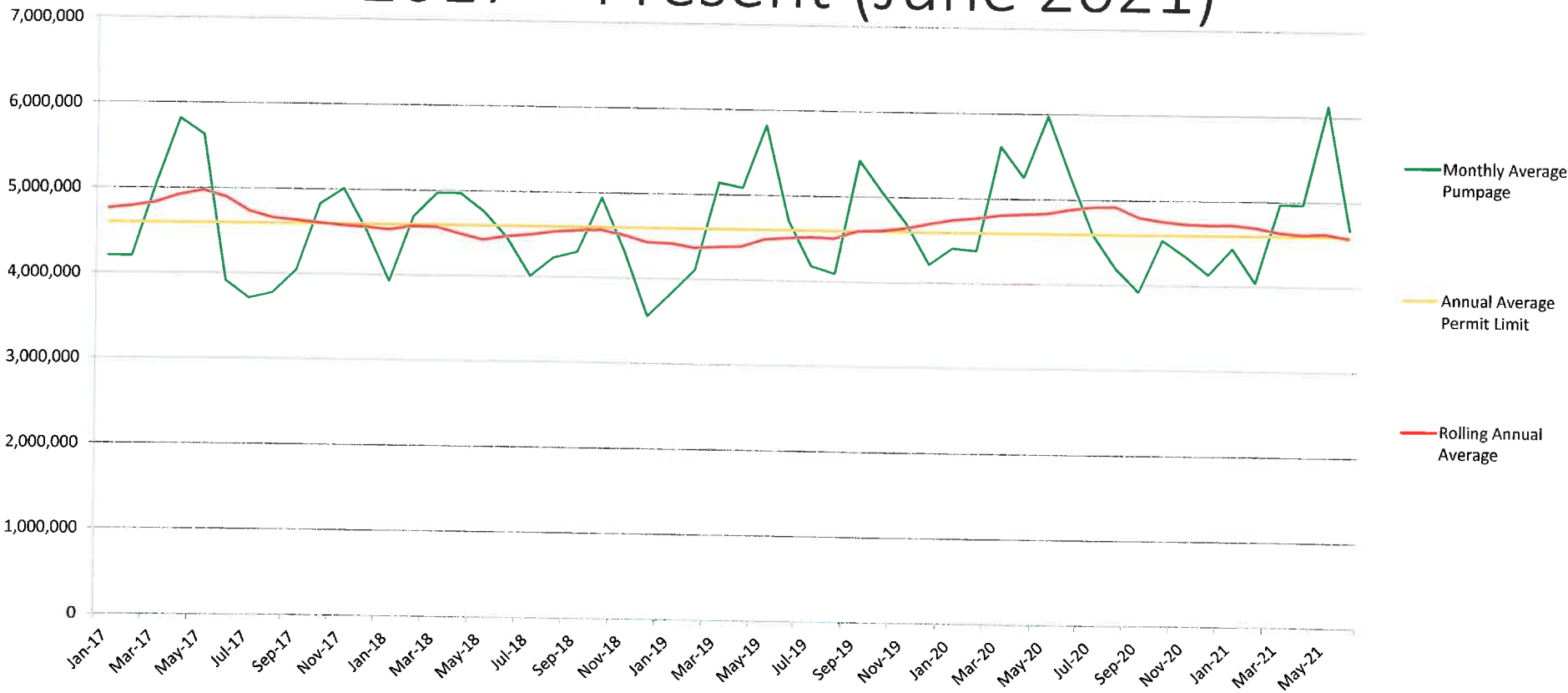
Charles A Black Public Water System

- Prior to enacting once a week watering restrictions, the total withdrawal for the month of May 2020 was the highest in that system in the last ten years at 185,178,000 gallons and a maximum daily withdrawal of 8,871,000 gallons occurred in June 2020.
- With the once-a-week ordinance, the monthly average withdrawals fell at or below 4.5 MGD for the months of July 2020 through February 2021.
- Beginning in March 2021, usage began to increase and, despite the ordinance, May 2021 saw the highest withdrawals in the system to date with a total of 189,848,000 gallons withdrawn and a monthly average of 6,124,129 GPD.

Charles A Black Total Withdrawals (MG) 2011 – Present (June 2021)



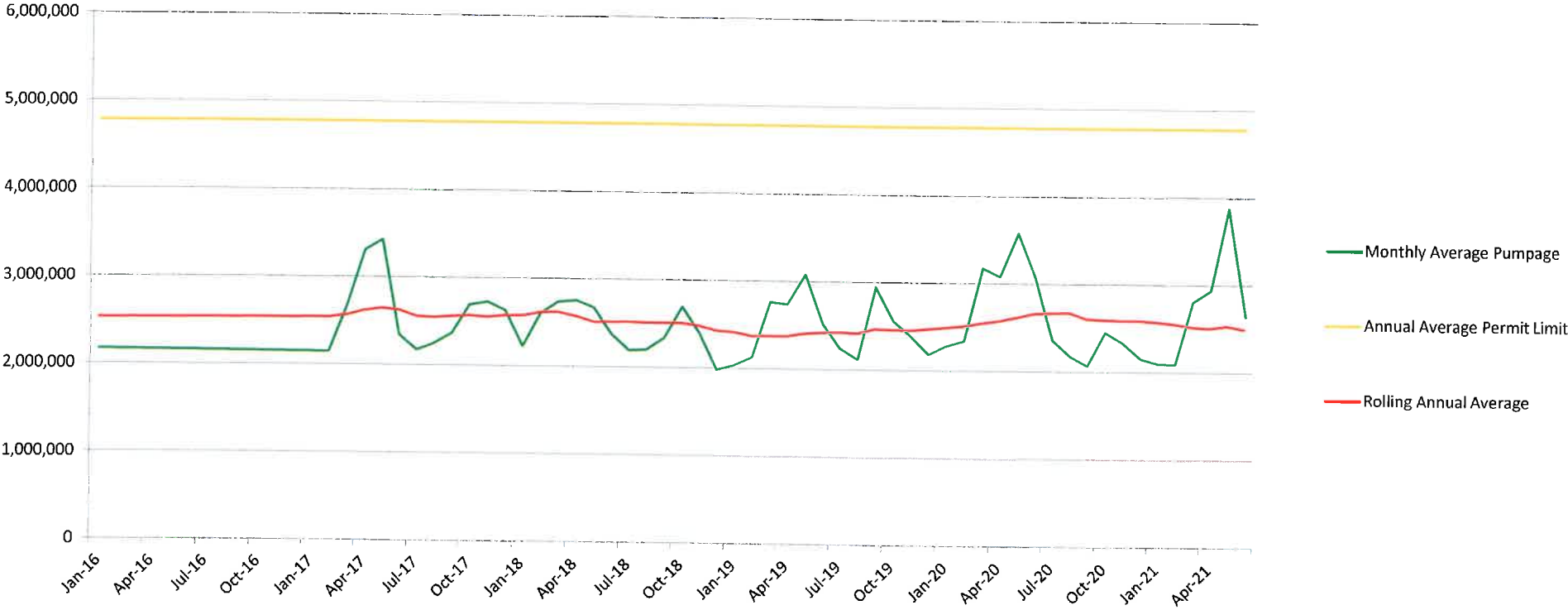
Charles A. Black Withdrawals (GPD) 2017 – Present (June 2021)



Citrus Springs-Pine Ridge Public Water System

- FDEP PWS Permit – 6090312
- SWFWMD WUP – 2842.011 (expires 8/25/2035)
 - Population served according to the 2020 Public Supply Annual Report was 12,999 (up ~5% from 2019).
 - Per capita usage for 2020 is 130 GPD/person
 - Annual Average permit limit is 4,780,000 GPD.
 - Current rolling Annual Average (July 2020 – June 2021) is 2,498,486 GPD (52% of permit).

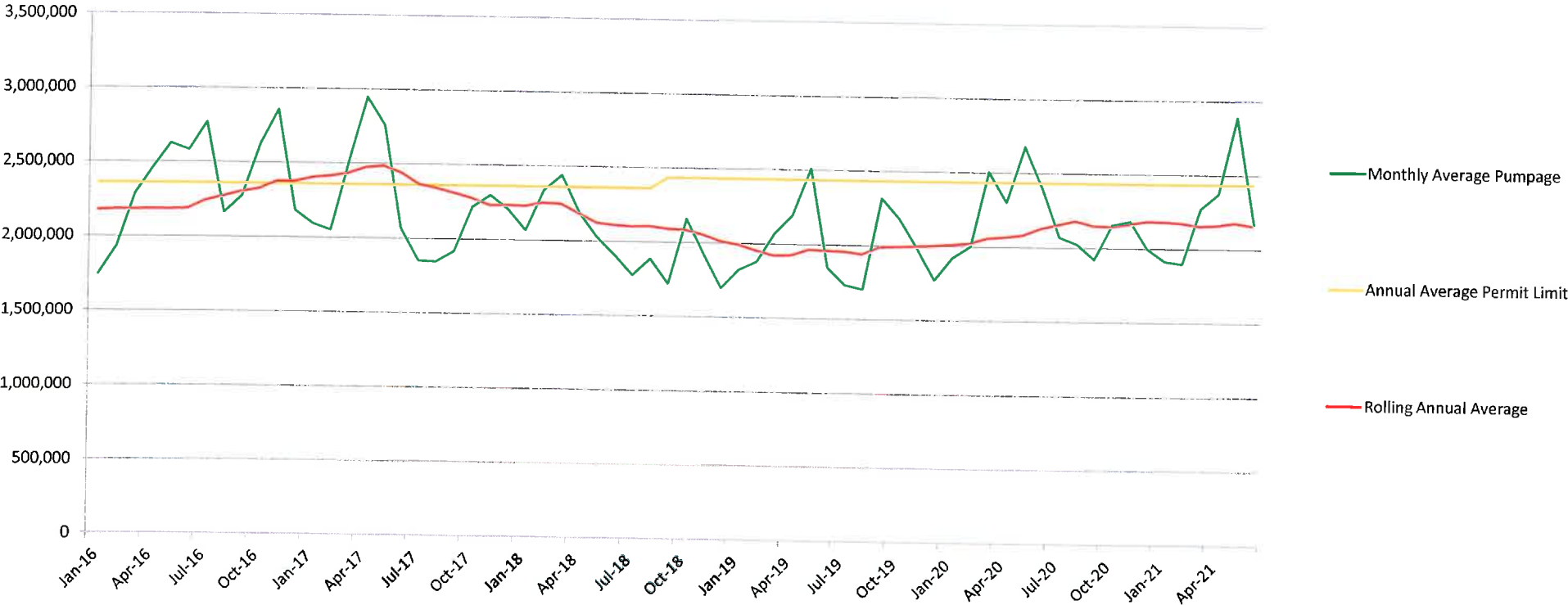
Citrus Springs-Pine Ridge Withdrawals (GPD) 2017 – Present (June 2021)



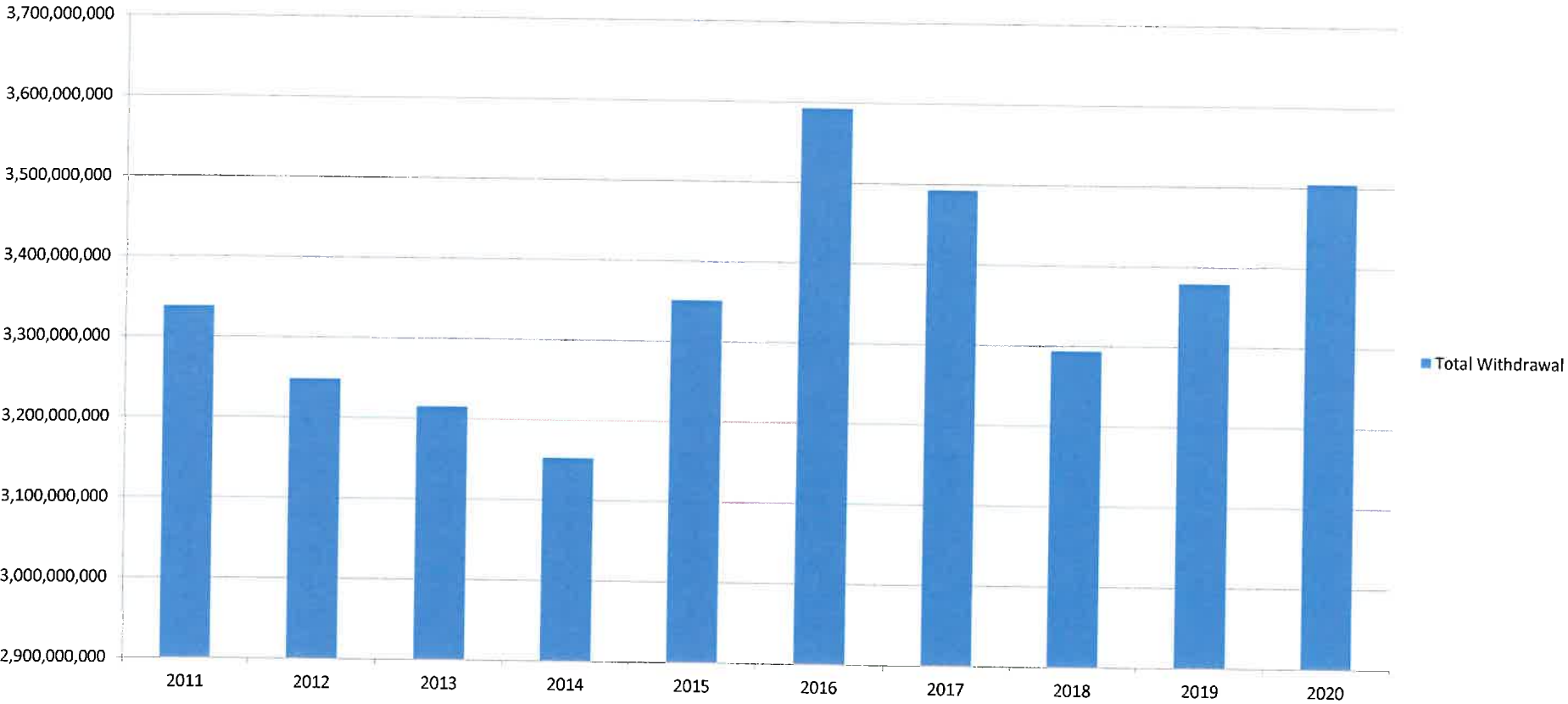
Sugarmill Woods Public Water System

- FDEP PWS Permit - 6091735
- SWFWMD WUP – 9791.011 (expires 11/1/2025)
 - Population served according to the 2020 Public Supply Annual Report was 12,999 (up ~4% from 2019).
 - Per capita usage for 2020 is 167 GPD/person (high water loss).
 - Annual Average permit limit is 2,435,300 GPD.
 - Current rolling Annual Average (July 2020 – June 2021) is 2,179,227 GPD (89.5% of permit).
 - While this system has a history of non-compliance and previous Consent Order, the rolling Annual Average has been in compliance since August 2017.
 - Extensive Water Conservation outreach and education has occurred in the Sugarmill Woods PWS contributing to reductions and compliance however, the County is aware that following implementation of tiered rates, many previous high use customers elected to drill private irrigation wells allowed by the District, which are not metered.

Sugarmill Woods Withdrawals (GPD) 2017 – Present (June 2021)



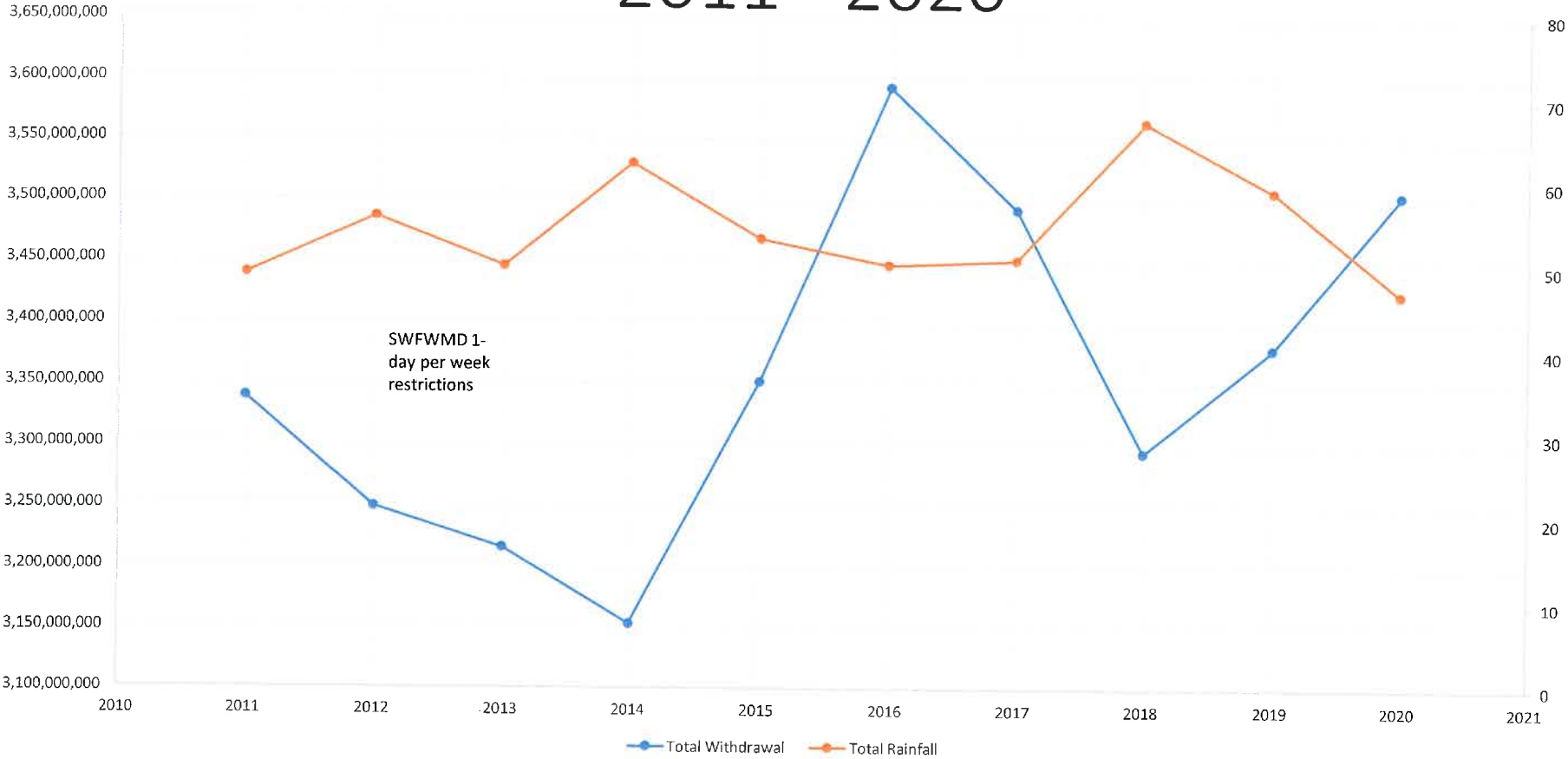
Total Withdrawals by Calendar Year



Citrus County Average Rainfall

- Annual average rainfall for the County from 1915 – present is approximately 54 inches, the bulk of which is received between June and September.
- Total annual rainfall has fallen below this long-range average in six of the last ten years.
- Decreased rainfall directly correlates with increased withdrawals for outdoor irrigation as drought intolerant, monoculture landscaping persists.

Total Withdrawals vs Total Rainfall 2011 - 2020



Why was the County Code changed with regard to landscape irrigation?

- Overpumpage in the County water supply system with the threat of enforcement action from SWFWMD was the main reason.
- Based on the pumpage from the last year, if the County were to go back to a twice a week watering schedule, the permits would be out of compliance within a short timeframe.

What does the County Code say?

- SECTION I. Article I, Section 66-35 – Legislative Intent

- (a) ...the purpose of this article is to promote long-term sustainability of the water supplies of Citrus County through water use efficiency during times when no water shortage has been declared. The measures contained in this article are intended to reduce wasteful irrigation practices and to encourage lawn and landscape drought conditioning.
- (b) This article applies to all water sources as provided herein and all water users as defined herein engaged in irrigation, including those not subject to permitting.

- SECTION II. Article II, Section 66-36 – Water Restrictions

- (a) Definitions

User means any person, firm, association, organization, partnership, business trust, corporation, agent, employee or other legal entity, the United States of America, and the State and all political subdivisions, regions, districts, municipalities, and public agencies thereof, which directly or indirectly takes water from the water resource, including but not limited to uses from groundwater wells and private or public utility systems.

Water resource means any and all water on or beneath the surface of the ground, including natural or artificial watercourses, lakes, ponds or diffused surface water, and water percolating, standing or flowing beneath the surface of the ground, specifically including water withdrawn from wells but excluding seawater.

- SECTION III. Article II, Section 66-37

- (a) General Requirements.

- ...the purpose of this section is to promote long-term sustainability of the water supplies of Citrus County through water-use efficiency at all times.

- (1) The provisions of this section shall apply to all persons using a water resource, whether from a public or privately-owned water utility system, private wells or private connections with surface water bodies in the unincorporated areas of the county.

- (2) The year-round water conservation measures and restrictions contained herein shall be effective throughout unincorporated Citrus County.

What are we doing to mitigate this issue going forward?

- The Water Use Permit for the Charles A. Black system expires in 2022, so staff will be working on a new permit application.
- The Sugarmill Woods Golf Course Reuse Project is design and will be implemented in the very near future to provide highly treated wastewater effluent from the Southwest Regional Water Reclamation Facility to the SMW golf courses.
- Reclaimed water upgrades to the Brentwood WWTP to make reclaimed water available from that facility for possible golf course or other irrigation uses in adjacent areas.
- Water loss remediation

Citrus County Department of Water Resources

Landscape Irrigation Workshop
July 2021

Why was the County Code changed with regard to landscape irrigation?

- Overpumpage in the County water supply system with the threat of enforcement action from SWFWMD was the main reason.
- Based on the pumpage from the last year, if the County were to go back to a twice a week watering schedule, the permits would be out of compliance within a short timeframe.

What does the County Code say?

- SECTION I. Article I, Section 66-35 – Legislative Intent
 - (a) ...the purpose of this article is to promote long-term sustainability of the water supplies of Citrus County through water use efficiency during times when no water shortage has been declared. The measures contained in this article are intended to reduce wasteful irrigation practices and to encourage lawn and landscape drought conditioning.
 - (b) This article applies to all water sources as provided herein and all water users as defined herein engaged in irrigation, including those not subject to permitting.

- SECTION II. Article II, Section 66-36 – Water Restrictions
 - (a) Definitions

User means any person, ,firm, association, organization, partnership, business trust, corporation, agent, employee or other legal entity, the United States of America, and the State and all political subdivisions, regions, districts, municipalities, and public agencies thereof, which directly or indirectly takes water from the water resource, including but not limited to uses from groundwater wells and private or public utility systems.

Water resource means any and all water on or beneath the surface of the ground, including natural or artificial watercourses, lakes, ponds or diffused surface water, and water percolating, standing or flowing beneath the surface of the ground, specifically including water withdrawn from wells but excluding seawater.

- SECTION III. Article II, Section 66-37

- (a) General Requirements.

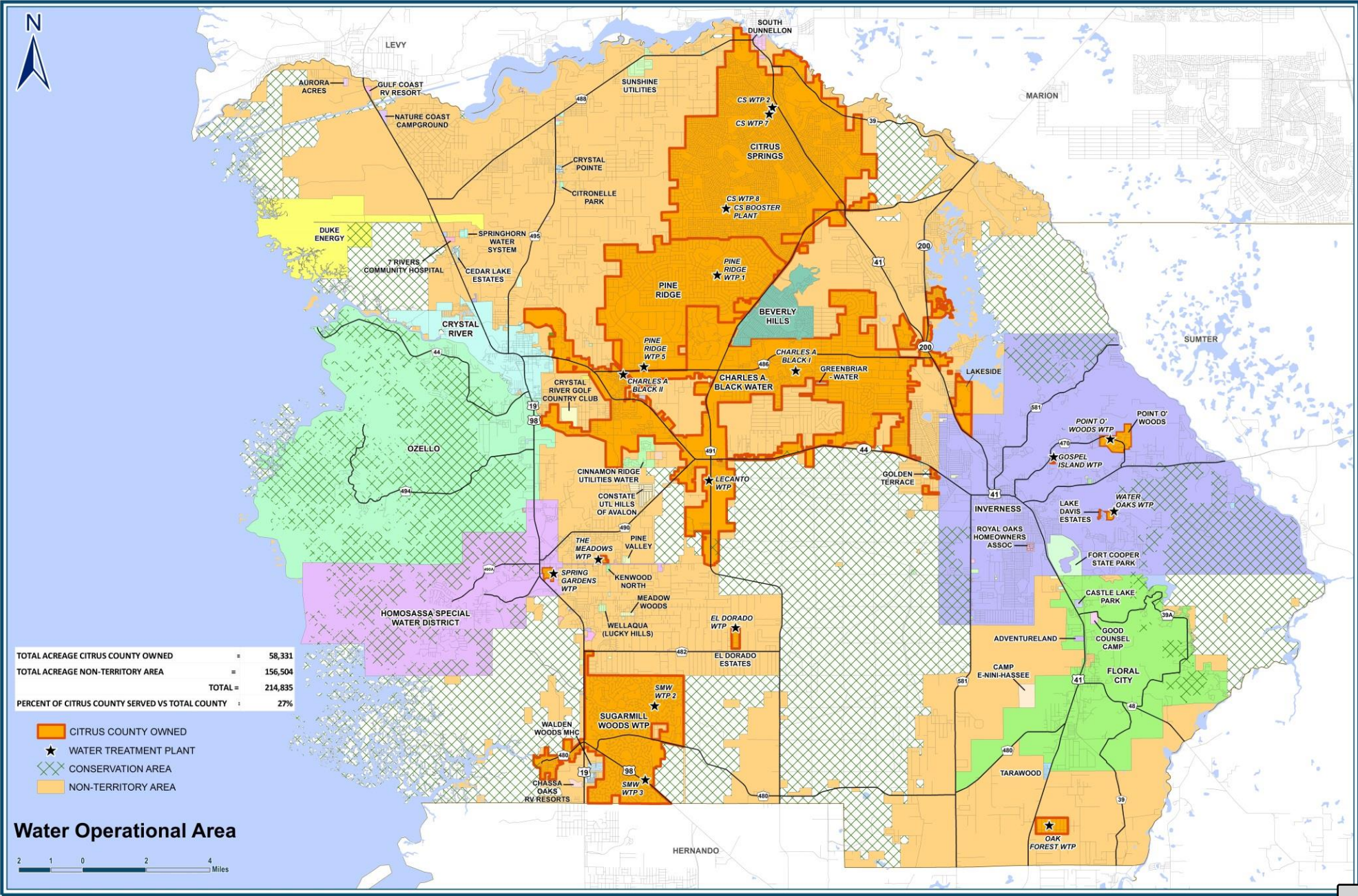
- ...the purpose of this section is to promote long-term sustainability of the water supplies of Citrus County through water-use efficiency at all times.

- (1) The provisions of this section shall apply to all persons using a water resource, whether from a public or privately-owned water utility system, private wells or private connections with surface water bodies in the unincorporated areas of the county.

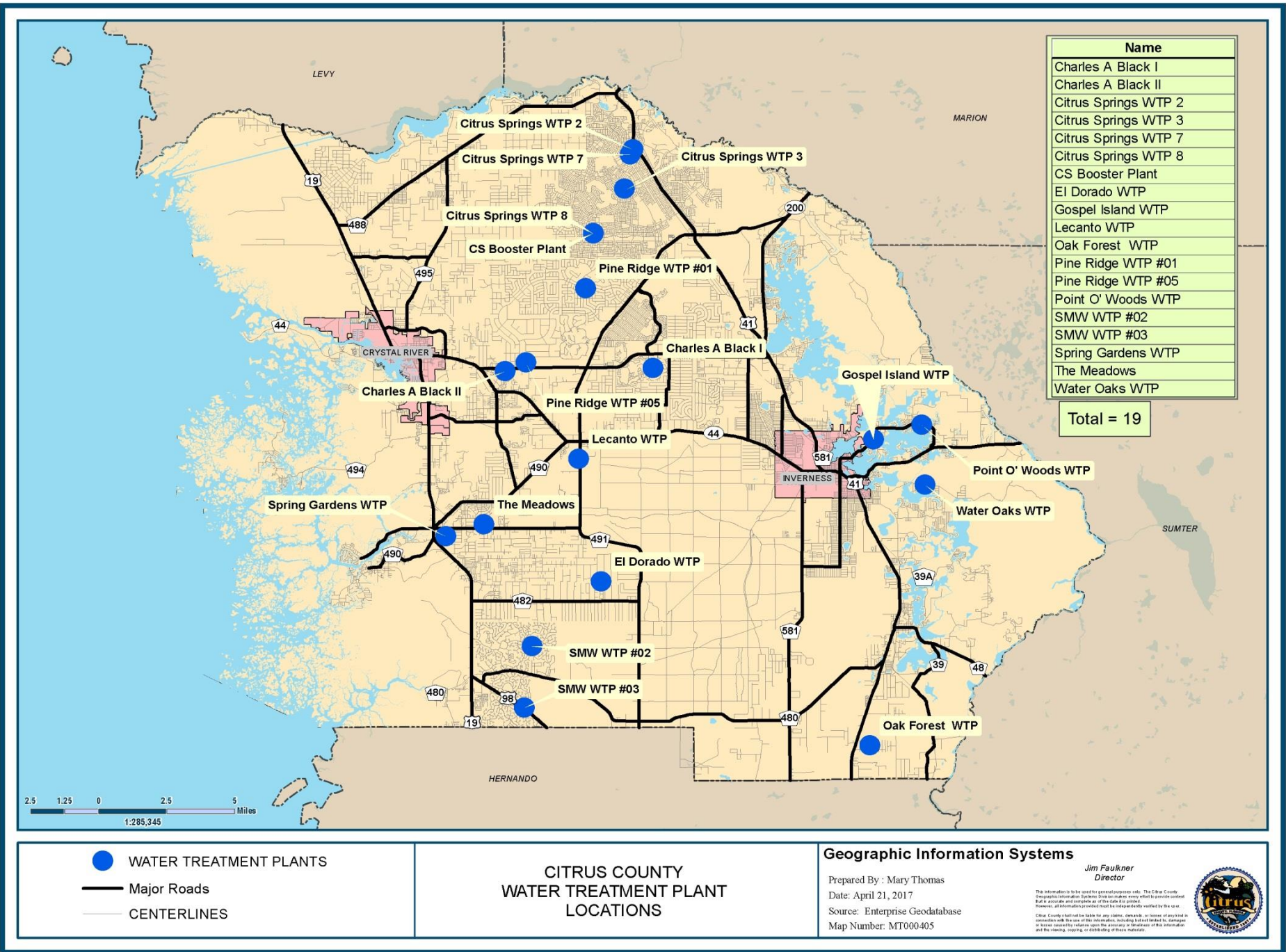
- (2) The year-round water conservation measures and restrictions contained herein shall be effective throughout unincorporated Citrus County.

Citrus County Water Resources

- The County maintains 11 Florida Department of Environmental Protection (FDEP) permitted Public Water Systems (PWS) including 14 Water Treatment Plants and 33 groundwater withdrawal wells.
 - FDEP permits are related to water quality, water storage, and distribution capacity.
 - The total permitted daily withdrawals for the 3 major County water systems is 11.8 MGD
- The County also maintains Southwest Florida Water Management District (SWFWMD) Water Use Permits (WUP) for these systems.
 - SWFWMD WUPs are related to groundwater withdrawals for public drinking water supply



Attachment: Water Use Workshop July 2021_KC (15077 : Landscape Irrigation)



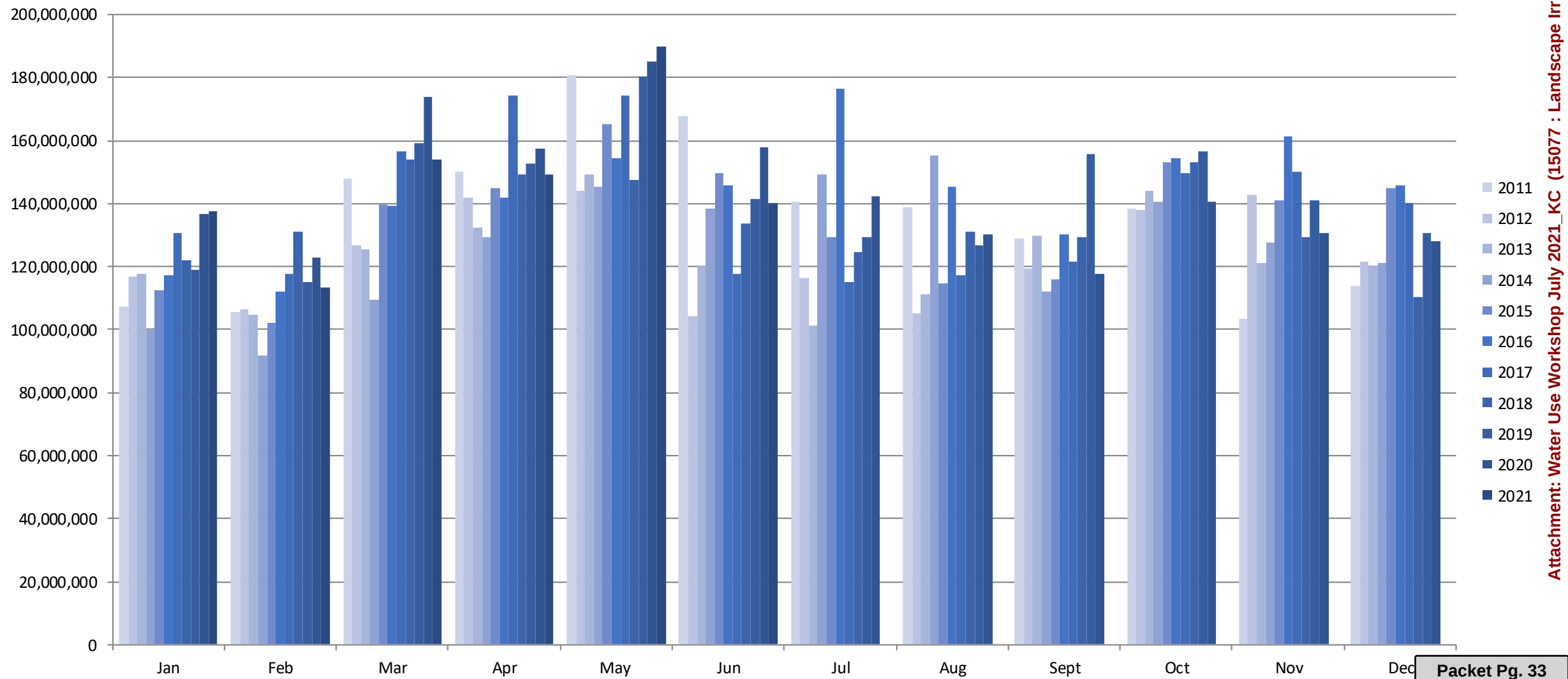
Charles A. Black Public Water System

- FDEP PWS Permit – 6094948
- SWFWMD WUP – 7121.006 (expires 3/13/2022)
 - Population served according to the 2020 Public Supply Annual Report was 26,241 (up 4% from 2019). This is the County's largest PWS.
 - Per capita usage for 2020 is 151 GPD/person (includes reclaimed water credit – would be 162 without credit). This figure is up from previous years due to reduced credit from inoperable control valve in reclaimed water transmission system.
 - Annual Average permit limit is 4,597,000 Gallons per Day (GPD).
 - Current rolling Annual Average (July 2020 – June 2021) is 4,579,454 GPD (99.6% of permit).
 - **The rolling Annual Average exceeded the permit limit from September 2019 through June 2021.** A non-compliance letter from the SWFWMD was received by the County on June 2, 2020 indicating that the County exceeded the annual average permit limit by >5%, in violation of the permit.
 - Following a public hearing on June 23, 2020, the BOCC enacted once a week watering restrictions.
 - The rolling Annual Average returned below the permit limit on July 1, 2021 when the June 2021 pumpage was finalized.

Charles A Black Public Water System

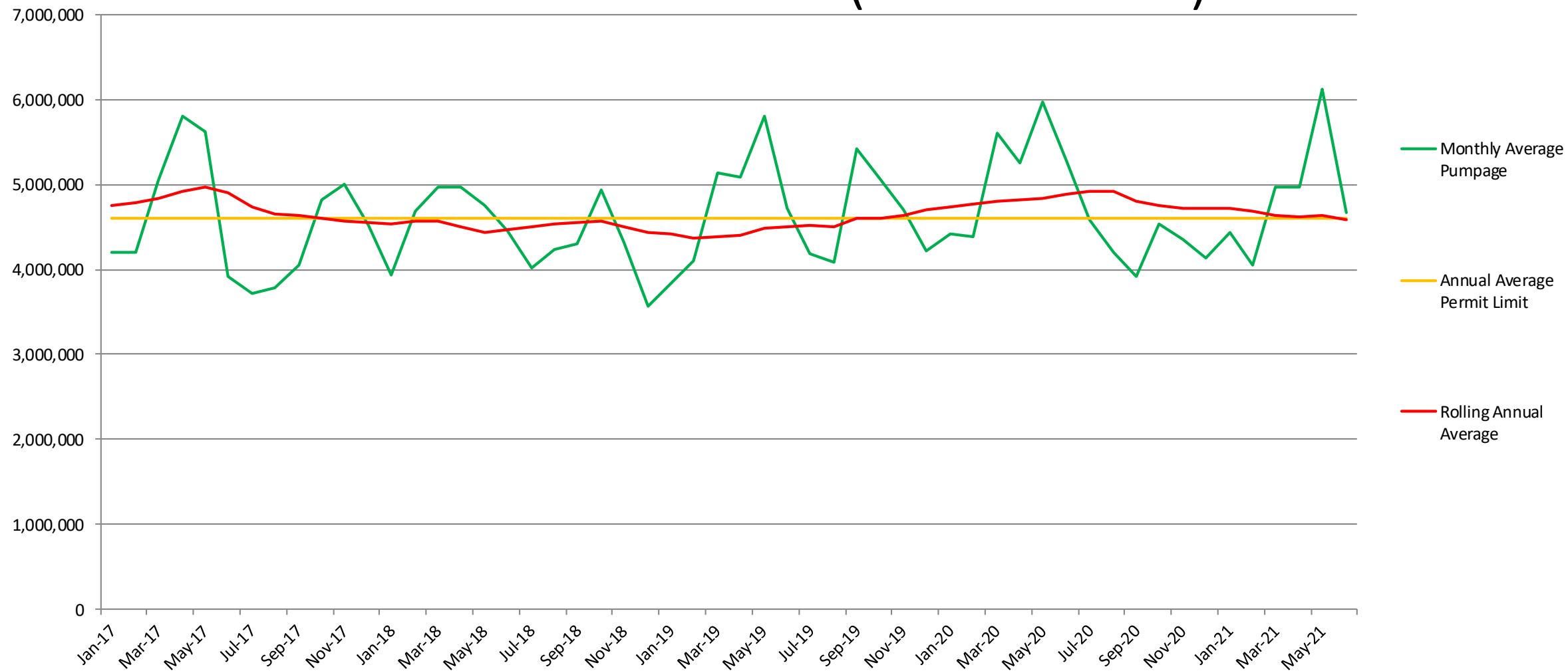
- Prior to enacting once a week watering restrictions, the total withdrawal for the month of May 2020 was the highest in that system in the last ten years at 185,178,000 gallons and a maximum daily withdrawal of 8,871,000 gallons occurred in June 2020.
- With the once-a-week ordinance, the monthly average withdrawals fell at or below 4.5 MGD for the months of July 2020 through February 2021.
- Beginning in March 2021, usage began to increase and, despite the ordinance, May 2021 saw the highest withdrawals in the system to date with a total of 189,848,000 gallons withdrawn and a monthly average of 6,124,129 GPD.

Charles A Black Total Withdrawals (MG) 2011 – Present (June 2021)



Attachment: Water Use Workshop July 2021_KC (15077 : Landscape Irrigation)

Charles A. Black Withdrawals (GPD) 2017 – Present (June 2021)

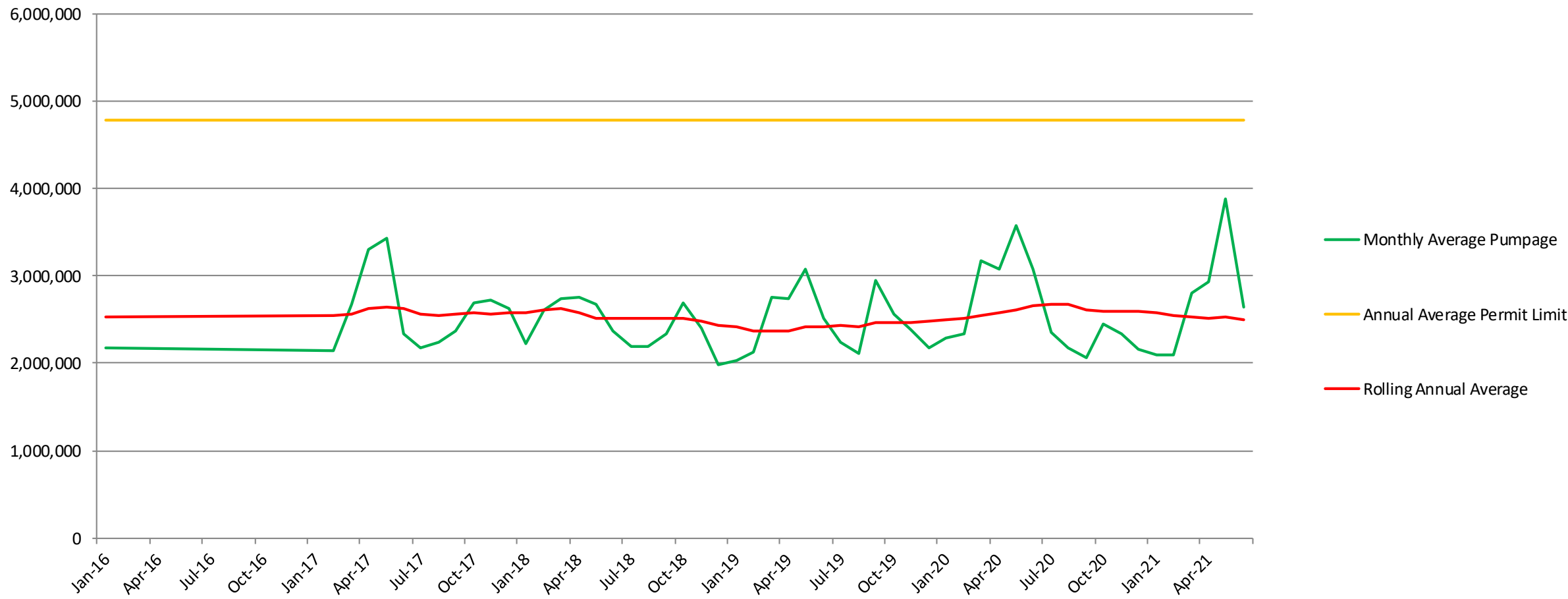


Attachment: Water Use Workshop July 2021_KC (15077 : Landscape Irrigation)

Citrus Springs-Pine Ridge Public Water System

- FDEP PWS Permit – 6090312
- SWFWMD WUP – 2842.011 (expires 8/25/2035)
 - Population served according to the 2020 Public Supply Annual Report was 12,999 (up ~5% from 2019).
 - Per capita usage for 2020 is 130 GPD/person
 - Annual Average permit limit is 4,780,000 GPD.
 - Current rolling Annual Average (July 2020 – June 2021) is 2,498,486 GPD (52% of permit).

Citrus Springs-Pine Ridge Withdrawals (GPD) 2017 – Present (June 2021)



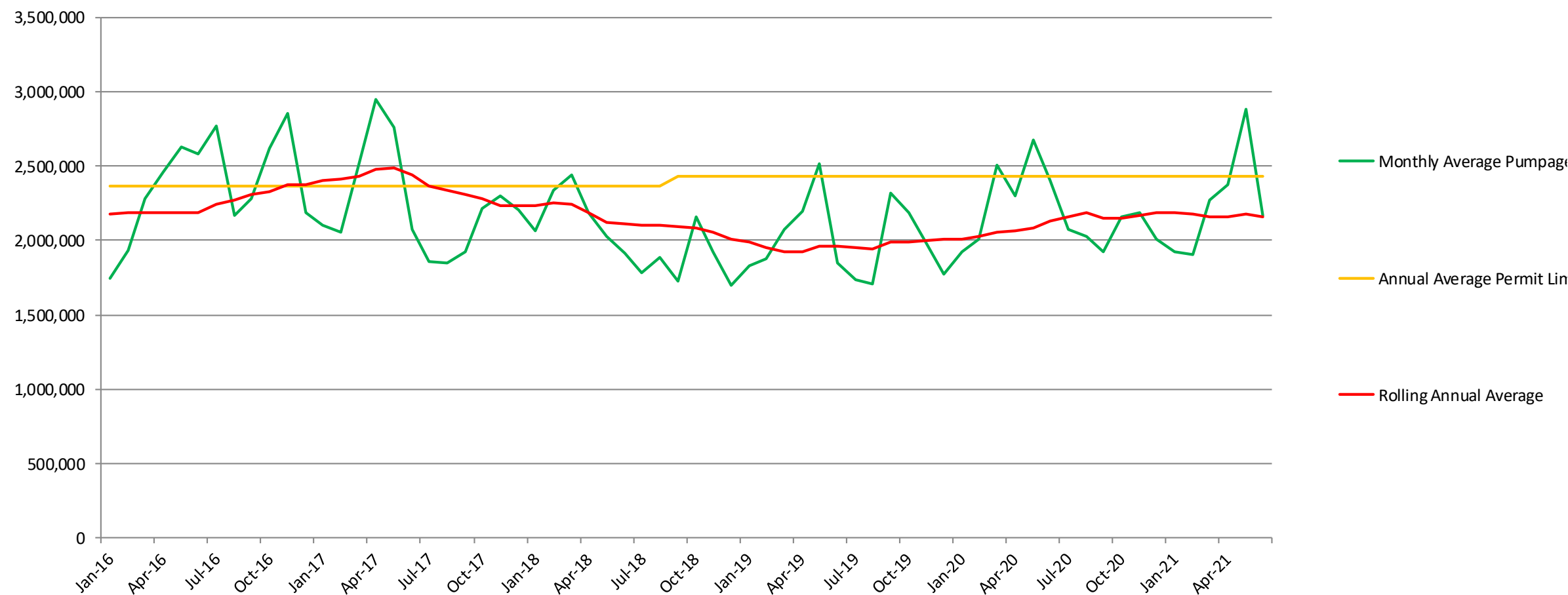
Attachment: Water Use Workshop July 2021_KC (15077 : Landscape Irrigation)

Sugarmill Woods Public Water System

- FDEP PWS Permit - 6091735
- SWFWMD WUP – 9791.011 (expires 11/1/2025)
 - Population served according to the 2020 Public Supply Annual Report was 12,999 (up ~4% from 2019).
 - Per capita usage for 2020 is 167 GPD/person (high water loss).
 - Annual Average permit limit is 2,435,300 GPD.
 - Current rolling Annual Average (July 2020 – June 2021) is 2,179,227 GPD (89.5% of permit).
 - While this system has a history of non-compliance and previous Consent Order, the rolling Annual Average has been in compliance since August 2017.
 - Extensive Water Conservation outreach and education has occurred in the Sugarmill Woods PWS contributing to reductions and compliance however, the County is aware that following implementation of tiered rates, many previous high use customers elected to drill private irrigation wells allowed by the District, which are not metered.

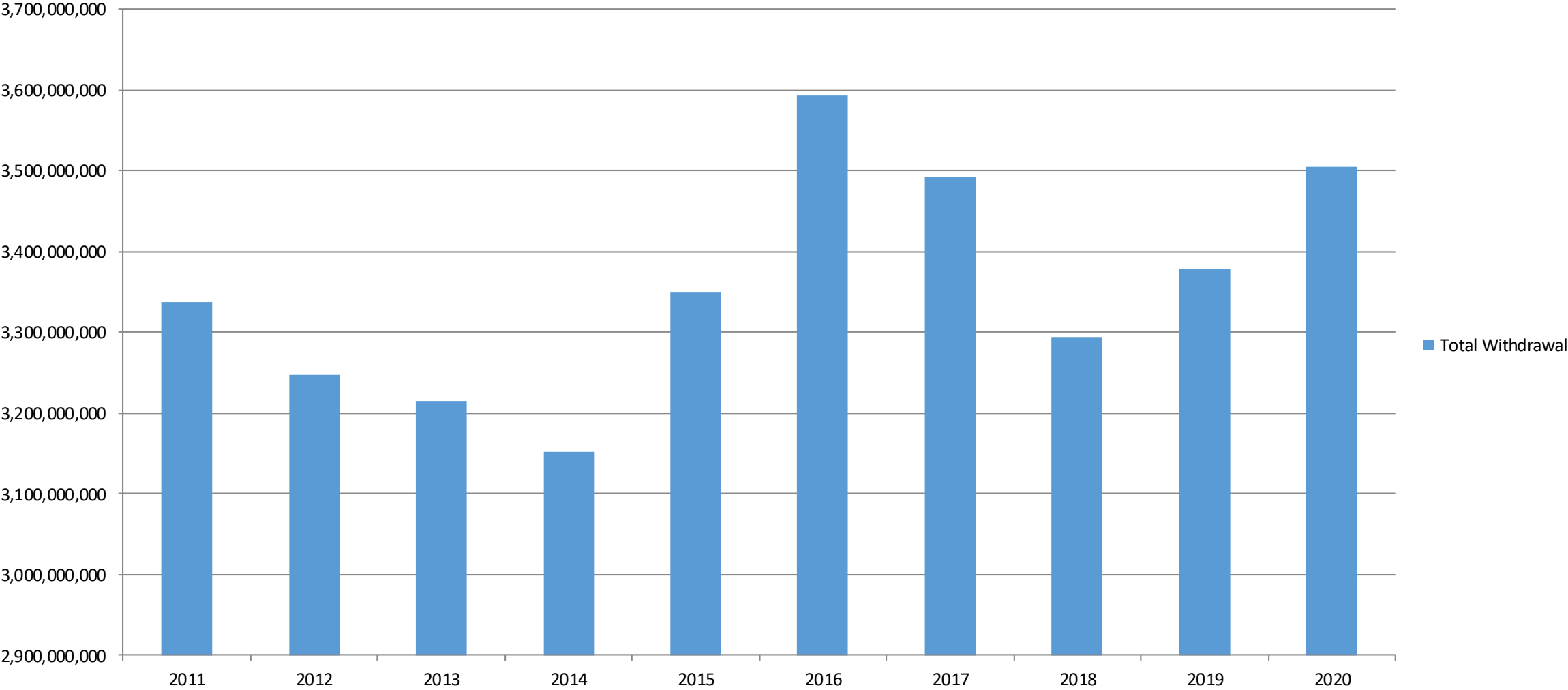
Sugarmill Woods Withdrawals (GPD)

2017 – Present (June 2021)



Attachment: Water Use Workshop July 2021_KC (15077 : Landscape Irrigation)

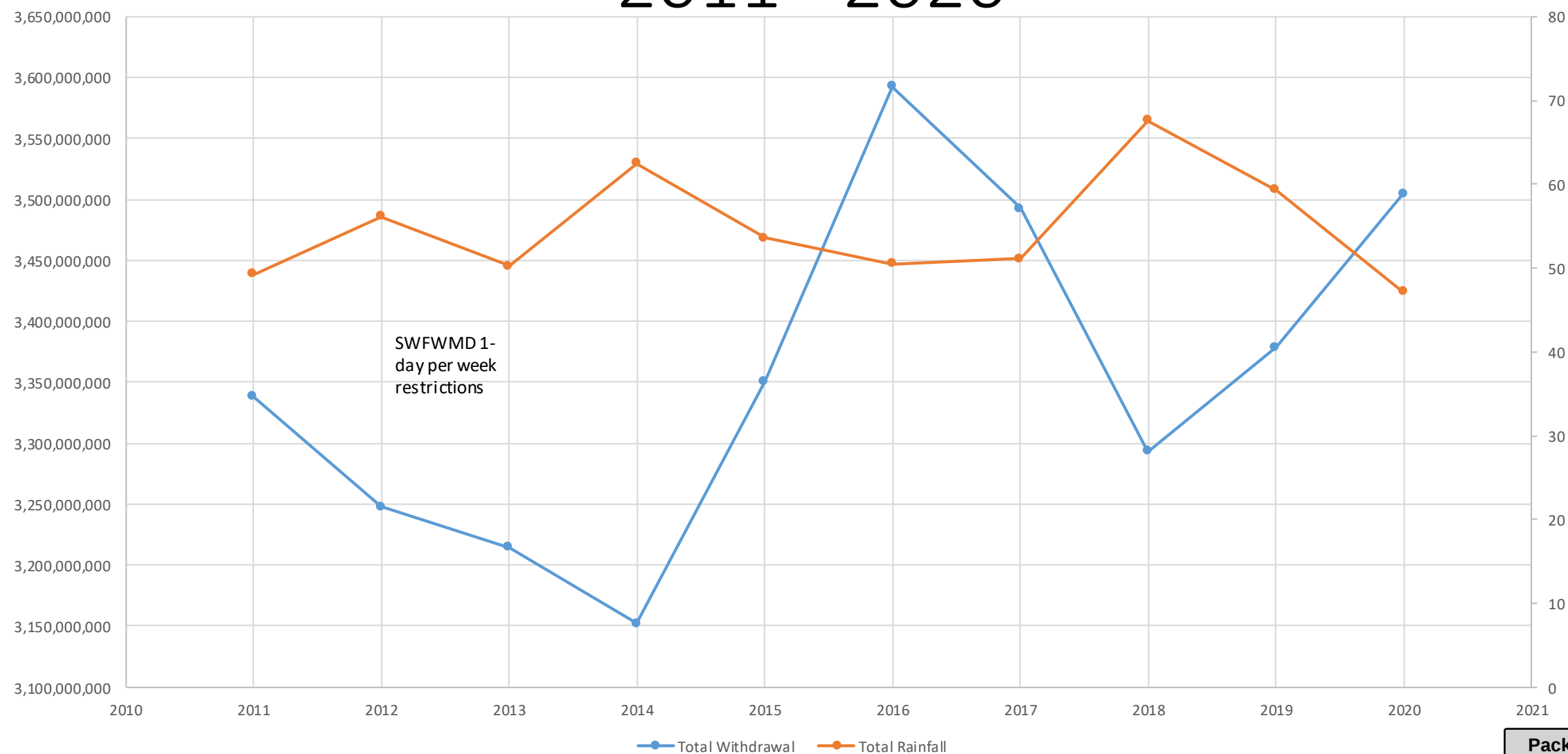
Total Withdrawals by Calendar Year



Citrus County Average Rainfall

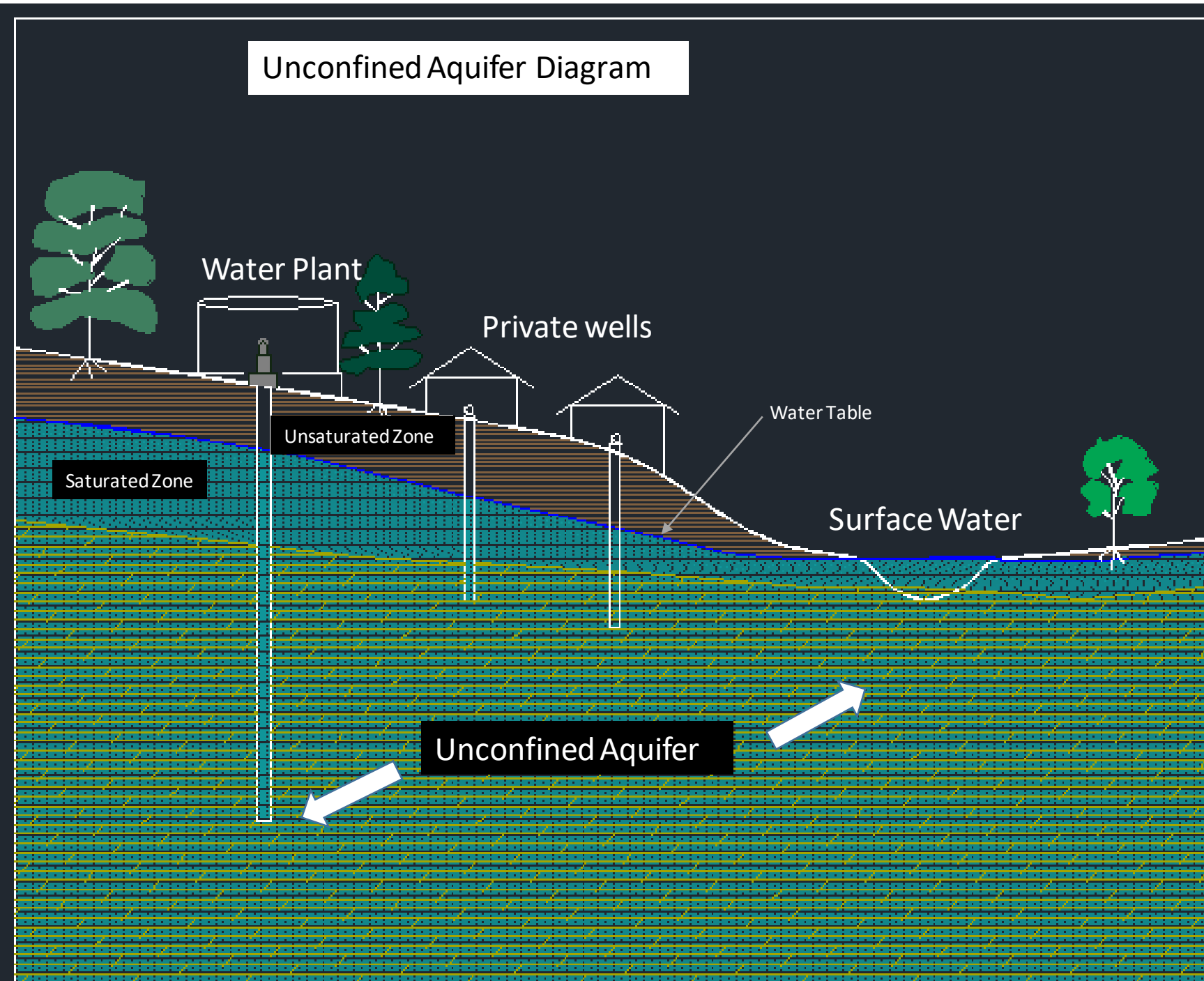
- Annual average rainfall for the County from 1915 – present is approximately 54 inches, the bulk of which is received between June and September.
- Total annual rainfall has fallen below this long-range average in six of the last ten years.
- Decreased rainfall directly correlates with increased withdrawals for outdoor irrigation.

Total Withdrawals vs Total Rainfall 2011 - 2020



What are we doing to mitigate this issue going forward?

- The Water Use Permit for the Charles A. Black system expires in 2022, so staff will be working on a new permit application.
- The Sugarmill Woods Golf Course Reuse Project is design and will be implemented in the very near future to provide highly treated wastewater effluent from the Southwest Regional Water Reclamation Facility to the SMW golf courses.
- Reclaimed water upgrades to the Brentwood WWTP to make reclaimed water available from that facility for possible golf course or other irrigation uses in adjacent areas.
- Water loss remediation





Board of County Commissioners Speakers Form

When you approach the Board to address noted item,
please give this form to the Clerk.

Please Print

Date:

7/13/21

Name:

MARK BATEMAN

Address:

1273 W. DIAMOND SHORE LN

HERNANDO, FL 34442

Telephone #:

586-350-1067

Item to be Addressed:

water restrictions



Board of County Commissioners Speakers Form

When you approach the Board to address noted item,
please give this form to the Clerk.

Please Print

Date: 7/13/2021

Name: CAROLE SCRAGG

Address: 1276 W OLYMPIA ST

Telephone #: 352 746-9192

Item to be Addressed: 1 DAY WATERING



Board of County Commissioners Speakers Form

When you approach the Board to address noted item,
please give this form to the Clerk.

Please Print

Name: GARY POOLE Date: 7-13-2021
Address: 1126 W DIAMOND SHORE LOOP
HERNANDO FL 34442
Telephone #: 880 - 439 - 8598
Item to be Addressed: IRRIGATION

C



Board of County Commissioners Speakers Form

When you approach the Board to address noted item,
please give this form to the Clerk.

Please Print

Name: Bruce Miller Date: _____

Address: 1296 W Westford Park
Citrus Hills

Telephone #: 636 734 3157

Item to be Addressed: Isaacson



Board of County Commissioners Speakers Form

When you approach the Board to address noted item,
please give this form to the Clerk.

Please Print

Date: 7/13/21

Name: ROBERT J BASI

Address: 1744 W. CAVERO OCEAN PATH
HERNANDO

Telephone #: 203-623-9236

Item to be Addressed: _____