



## MANATEE COUNTY FLORIDA

**March 9, 2021**

Mr. Patrick J. Lehman, P.E., Executive Director  
Peace River/Manasota Regional Water Supply Authority  
9415 Town Center Parkway  
Lakewood Ranch, Florida 34202

**Re: *Manatee County 2021 Projected Water Demands and Sources of Supply***

Dear Mr. Lehman:

The purpose of this letter is to provide the annual update of projected water demand for at least the next 20 years and identify that portion of the demand that the PRMRWSA is to fulfill in accordance with Section 11 of the Master Water Supply Contract. These projections are slightly elevated compared to those submitted last year as a result of development. They extend to the year 2040, which meets the 20-year requirement. The current estimate is that Manatee County may need to purchase an allocation (conceptually 5 MGD) from the PRMRWSA beginning in the year 2037. In accordance with Sec. 11 of the Master Water Supply Contract, the Board of County Commissioners has ratified this annual submittal at their meeting of March 9, 2021.

Please find attached two (2) tables and two (2) figures which provide the 2020 Projected Water Demands for the Manatee County Water System and the planned implementation of new water sources as needed to meet the projected demand. These schedules have been developed following review of both the SWFWMD Regional Water Supply Plan and the PRMRWSA Integrated Regional Water Supply Master Plan. These projections indicate that Manatee County will likely need water supply from the PRMRWSA beginning in 2037 at the earliest. It should be noted that the Southwest Florida Water Management District has delayed the setting a Minimum Flow schedule for the Manatee River until 2023 (and indications are that it will require the release of additional water downstream of Lake Manatee. This may affect the safe yield of this source and possibly result in an acceleration of supply needed from the PRMRWSA. Manatee County Planning will again recalculate projected populations during 2021 and we will evaluate the projected effect on the schedule of needed supply from the PRMRWSA. Any such revisions will be included in the update for next year. In accordance with the Master Water Supply Contract, Manatee County will revisit these source development schedules annually and submit updates to the PRMRWSA each year.

Board of County Commissioners  
1112 Manatee Avenue West, Bradenton, FL 34205  
[www.mymanatee.org](http://www.mymanatee.org) • Phone: (941) 745-3700 • Fax: (941) 745-3790

**JAMES  
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*District 2*

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*District 4*

**VANESSA  
BAUGH**  
*District 5*

**CAROL  
WHITMORE**  
*At Large*

**GEORGE W.  
KRUSE**  
*At Large*

As noted in Table 2, the implementation schedule is based on Annual Average Day demand (AADD). For planning purposes, maximum day demand for new sources is planned at 1.5 times AADD and peak month daily demand is planned at 1.33 times AADD.

If you have any questions concerning this information, please contact Kevin Morris, Deputy Director, MCUD, at 941-792-8811 ext. 5244.

Manatee County is pleased to be a member of the PRMRWSA and looks forward to working with the PRMRWSA members and staff to benefit all members and citizens in the region.

Sincerely,

BOARD OF COUNTY COMMISSIONERS  
MANATEE COUNTY, FLORIDA

A handwritten signature in blue ink, appearing to read 'V. Baugh', is written over a light gray rectangular background. The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Vanessa Baugh,  
Chairman

**TABLE 1**

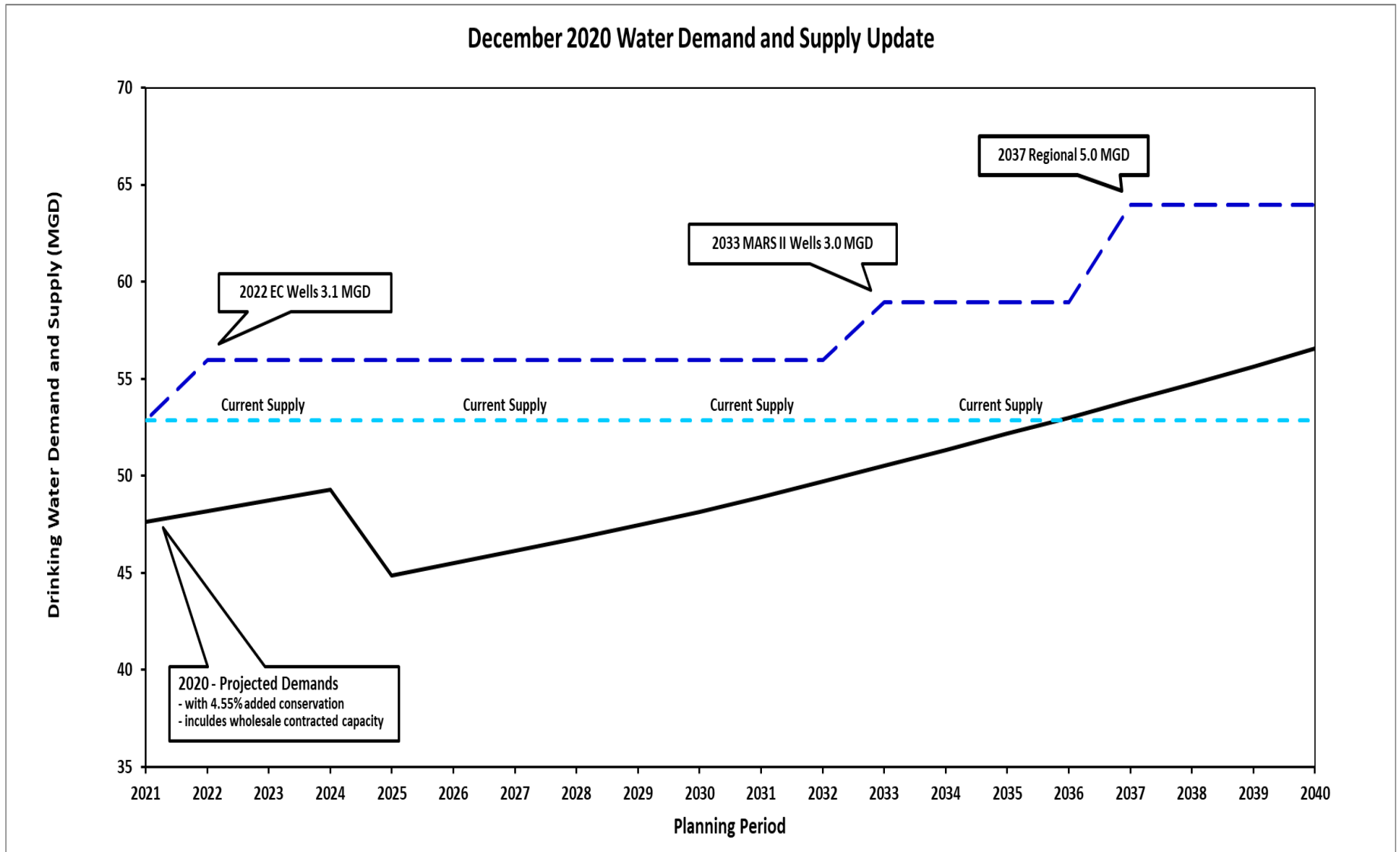
**Demand Projections Based on Dec 2020 Projections**

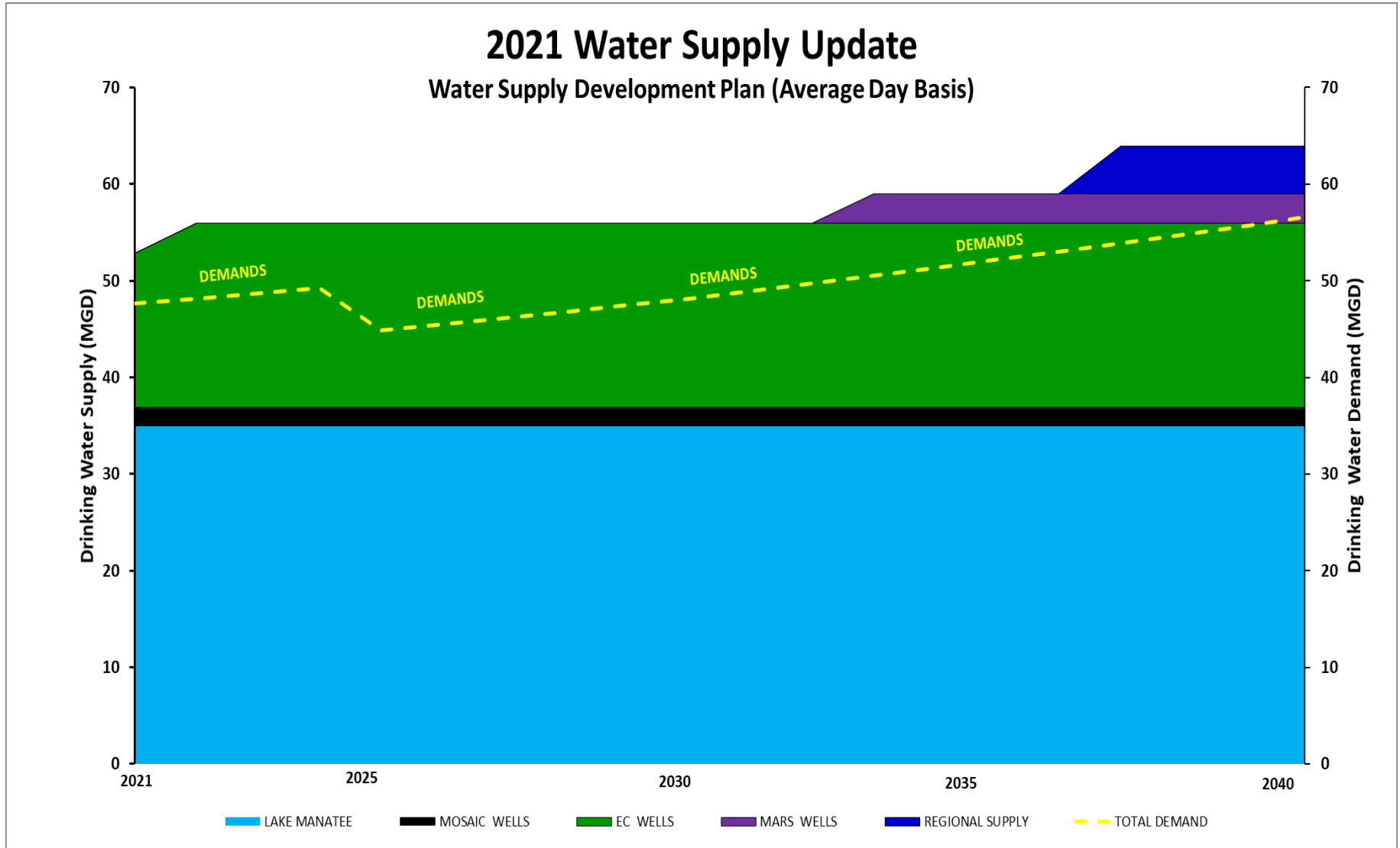
Year	Funct. Pop.	Flow Rate (G/C/D) Comp Plan LOS	Manatee Cnty Flow (gal/day)	Bradenton Reserve Flow (gal/day)	Longboat Key Reserve Flow (gal/day)	Palmetto Reserve Flow (gal/day)	Sarasota Contract Flow (gal/day)	Significant Users (gal/day)	Total Average Daily Flow (gal/day)	Total Reserve and Contract Flow (gal/day)	Peak Flow Manatee County Comp Policy (gal/day) Manatee	Peak Flow Reserve and Contracts Comp Policy (gal/day)	Peak Flow Wholesale Contracts (gal/day) No-Penalty Daily limits	Total Peak Flow Comp Policy (gal/day)
2020	315,867	105	33,166,062	500,000	2,500,000	2,000,000	5,000,000	3,940,128	47,106,190	10,000,000	49,749,093	12,500,000	10,000,000	62,249,093
21	320,348	105	33,636,523	500,000	2,500,000	2,000,000	5,000,000	3,996,019	47,632,542	10,000,000	50,454,784	12,500,000	10,000,000	62,954,784
22	324,934	105	34,118,020	500,000	2,500,000	2,000,000	5,000,000	4,053,221	48,171,240	10,000,000	51,177,029	12,500,000	10,000,000	63,677,029
23	329,628	105	34,610,910	500,000	2,500,000	2,000,000	5,000,000	4,111,776	48,722,686	10,000,000	51,916,365	12,500,000	10,000,000	64,416,365
24	334,434	105	35,115,567	500,000	2,500,000	2,000,000	5,000,000	4,171,729	49,287,297	10,000,000	52,673,351	12,500,000	10,000,000	65,173,351
2025	339,356	105	35,632,380	500,000	2,500,000	2,000,000	0	4,233,127	44,865,507	5,000,000	53,448,570	6,250,000	5,000,000	59,698,570
26	344,692	105	36,192,611	500,000	2,500,000	2,000,000	0	4,299,682	45,492,293	5,000,000	54,288,916	6,250,000	5,000,000	60,538,916
27	350,217	105	36,772,810	500,000	2,500,000	2,000,000	0	4,368,610	46,141,420	5,000,000	55,159,215	6,250,000	5,000,000	61,409,215
28	355,813	105	37,360,359	500,000	2,500,000	2,000,000	0	4,438,411	46,798,770	5,000,000	56,040,539	6,250,000	5,000,000	62,290,539
29	361,545	105	37,962,193	500,000	2,500,000	2,000,000	0	4,509,908	47,472,101	5,000,000	56,943,289	6,250,000	5,000,000	63,193,289
2030	367,417	105	38,578,764	500,000	2,500,000	2,000,000	0	4,583,157	48,161,922	5,000,000	57,868,146	6,250,000	5,000,000	64,118,146
31	373,907	105	39,260,251	500,000	2,500,000	2,000,000	0	4,664,118	48,924,368	5,000,000	58,890,376	6,250,000	5,000,000	65,140,376
32	380,562	105	39,959,026	500,000	2,500,000	2,000,000	0	4,747,132	49,706,158	5,000,000	59,938,539	6,250,000	5,000,000	66,188,539
33	387,387	105	40,675,642	500,000	2,500,000	2,000,000	0	4,832,266	50,507,909	5,000,000	61,013,464	6,250,000	5,000,000	67,263,464
34	394,387	105	41,410,675	500,000	2,500,000	2,000,000	0	4,919,588	51,330,263	5,000,000	62,116,012	6,250,000	5,000,000	68,366,012
2035	401,569	105	42,164,718	500,000	2,500,000	2,000,000	0	5,009,168	52,173,886	5,000,000	63,247,077	6,250,000	5,000,000	69,497,077
36	408,663	105	42,909,614	500,000	2,500,000	2,000,000	0	5,097,662	53,007,276	5,000,000	64,364,421	6,250,000	5,000,000	70,614,421
37	415,940	105	43,673,740	500,000	2,500,000	2,000,000	0	5,188,440	53,862,180	5,000,000	65,510,610	6,250,000	5,000,000	71,760,610
38	423,407	105	44,457,733	500,000	2,500,000	2,000,000	0	5,281,579	54,739,312	5,000,000	66,686,600	6,250,000	5,000,000	72,936,600
39	431,069	105	45,262,269	500,000	2,500,000	2,000,000	0	5,377,158	55,639,426	5,000,000	67,893,403	6,250,000	5,000,000	74,143,403
2040	438,933	105	46,087,995	500,000	2,500,000	2,000,000	0	5,475,254	56,563,249	5,000,000	69,131,993	6,250,000	5,000,000	75,381,993

Based on 2020 Population Projections with revised Water Supply Plan and additional conservation gain of 5 gpcpd (4.55% reduction)

**TABLE 2. MANATEE COUNTY UTILITIES PLANNED IMPLEMENTATION SCHEDULE FOR WATER SUPPLY SOURCES**

<b>ANNUAL AVERAGE DAY SUPPLY IN MGD</b>							
<b>YEAR</b>	<b>MOSAIC WELLS MGD</b>	<b>EC WELLS MGD</b>	<b>LAKE MANATEE MGD</b>	<b>MARS WELLS MGD</b>	<b>REGIONAL SUPPLY MGD</b>	<b>TOTAL SUPPLY MGD</b>	<b>TOTAL DEMAND MGD</b>
2021	1.96	15.99	34.9	0	0	52.85	47.63
2022	1.96	19.09	34.9	0	0	55.95	48.17
2023	1.96	19.09	34.9	0	0	55.95	48.72
2024	1.96	19.09	34.9	0	0	55.95	49.29
2025	1.96	19.09	34.9	0	0	55.95	44.87
2026	1.96	19.09	34.9	0	0	55.95	45.49
2027	1.96	19.09	34.9	0	0	55.95	46.14
2028	1.96	19.09	34.9	0	0	55.95	46.80
2029	1.96	19.09	34.9	0	0	55.95	47.47
2030	1.96	19.09	34.9	0	0	55.95	48.16
2031	1.96	19.09	34.9	0	0	55.95	48.92
2032	1.96	19.09	34.9	0	0	55.95	49.71
2033	1.96	19.09	34.9	3	0	58.95	50.51
2034	1.96	19.09	34.9	3	0	58.95	51.33
2035	1.96	19.09	34.9	3	0	58.95	52.17
2036	1.96	19.09	34.9	3	0	58.95	53.01
2037	1.96	19.09	34.9	3	5	63.95	53.86
2038	1.96	19.09	34.9	3	5	63.95	54.74
2039	1.96	19.09	34.9	3	5	63.95	55.64
2040	1.96	19.09	34.9	3	5	63.95	56.56





**APPROVED** in Open Session  
**3/9/2021**  
Manatee County Board of County  
Commissioners



**Board of County Commissioners**  
**March 9, 2021 – Regular Meeting**

**SUBJECT**

APPROVAL OF TRANSMITTAL TO THE PEACE RIVER MANASOTA REGIONAL WATER SUPPLY  
AUTHORITY OF WATER SUPPLY PROJECTIONS AND FUTURE WATER SUPPLY NEEDS FROM THE  
AUTHORITY

**Category**

CONSENT AGENDA

**Briefings**

None

**Contact and/or Presenter Information**

Kevin Morris, Utilities Deputy Director, x5244

**Action Requested**

Approval and authorization for the Chairperson to execute letter to the Peace River Manasota Regional Water Supply Authority (PRMRWSA) with revised water supply demands and supply needs from sources developed by the PRMRWSA beginning in the year 2037.

**Enabling/Regulating Authority**

Comprehensive Plan establishes policies for continued coordination with the Peace River Manasota Regional Water Supply Authority. The Amended Interlocal Agreement creating the PRMRWSA established the County Policy to expect future water supply be coordinated with the Authority. This policy has been reaffirmed by the establishment of the Water Planning Alliance by Resolution R-01-183 and the Master Water Supply Contract (October 2005).

**Background Discussion**

In February 1982 the Board of County Commissioners (BOCC) approved and executed the Interlocal Agreement creating the Peace River/Manasota Regional Water Supply Authority (PRMRWSA).

In May 1991 the BOCC approved and executed the amended Interlocal Agreement creating the PRMRWSA, the Acquisition Agreement, and the Peace River Water Supply Contract.

On September 20, 2005, the BOCC approved the Master Water Supply Contract with the PRMRWSA which stipulates in Section 11 that each party requesting future water supply from the PRMRWSA must annually submit by January 15th the party's projected water demands for the next twenty years.

On April 20, 2006, the BOCC approved submittal of projected demands and proposed schedule for Water Supply Development showing the PRMRWSA delivering 5 mgd (million gallons per day) beginning in 2014 with deliveries potentially increasing to 20 mgd by 2030.

The 2007 population projections and estimated water demands resulted in a development schedule that called for the need for additional supply from the Authority in 2017 and reduced overall potential need to 10 mgd between 2017 and 2030.

Annual population and water demand projections provided by the Manatee County Planning staff in November 2008 and December 2009 reflected a prolonged effect of the economic situation resulting in further reductions in population growth and the subsequent need for additional supply.

In December 2011 Manatee County Planning staff provided updated population projections reflecting adjustments due to the inclusion of the 2010 census data. This resulted in a decrease of projected water demand of approximately 3 mgd per year, which further shifted the need for further water supply development or potential need of supply from the PRMRWSA until 2034.

In December 2015 Manatee County Planning staff provided updated population projections which showed a slight increase in projected demands, but continued to suggest the need for additional water supply development or potential need of supply from the PRMRWSA would not be until 2034.

In December 2017 Manatee County Planning staff provided updated population projections which showed the need for additional water supply development or potential need of supply from the PRMRWSA would not be until 2037.

The 2018 population projections and estimated water demands indicate a need of additional supply of 5 mgd from the PRMRWSA in 2037. Dependent upon the results of the Minimum Flow determination for the Manatee River by the Southwest Florida Water Management District and the impending recovery strategy, the need for additional supply from the PRMRWSA may be accelerated. It is expected that the annual review of population and demand projections will allow sufficient time to adjust any implementation schedule for additional supply to offset that lost through the implementation of a Minimum Flow schedule.

The current 2021 submittal to the PRMRWSA reflects current projections and estimated water demands, reflecting a slight increase over 2020 projected demands, with notice that because the Minimum Flow determination for the Manatee River has been rescheduled until 2023, any effect on future supply needs would not be reflected until the submittal for 2024.



Approval of the transmittal letter with the present Water Demand Projections and Water Development Schedule to the PRMRWSA for their planning purposes is requested.

**Attorney Review**

Not Reviewed (No apparent legal issues)

**Other (if applicable)**

**Reviewing Attorney**

Emailed and sent US mail to PRMRWSA

3/10/2021

**Instructions to Board Records**

Please mail signed letter w/attachments to the PRMRWSA and provide electronic .pdf copy to Kevin Morris at kevin.morris@mymanatee.org.

Mr. Patrick J. Lehman, P.E., Executive Director  
Peace River/Manasota Regional Water Supply Authority  
9415 Town Center Parkway  
Lakewood Ranch, Florida 34202

**Cost and Funds Source Account Number and Name**

Utility Rates

**Amount and Frequency of Recurring Costs**

To Be Determined