



City of North Port

Office of the City Manager

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December 11, 2018

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

RE: City of North Port Annual Water Demand Projections

Dear Mr. Lehman,

Pursuant to the PRMRWSA Master Water Supply Contract, North Port is required prior to January 15th of each contract year, to submit a report which identifies the following:

- 1) Total projected water demand by Contract Year for the next 20 years;
- 2) That portion of the total 20 year demand the customer requires the PRMRWSA to fulfill in terms of Annual Average Daily Quantity; and
- 3) The basis for each projection.

Attachment one provides the information required for total projected water demand and amount required of PRMRWSA in annual average daily quantity. Attachment two provides the amount required of PRMRWSA in Peak Month Average Daily Quantity. Attachment three provides the amount required of PRMRWSA in Maximum Daily Quantity. We have also included a graphical presentation of North Port Water Demand and Supply Projections.

Staff has reviewed BEBR projections, the City's historical and future growth projections and considered current developer growth as a basis for the current year's demand projections. We estimate in 2022, we will have water available for the redistribution pool. The table below identifies our estimates.

Contract Year	Water available for redistribution pool (MGD)
2019	0.00
2020	0.00
2021	0.00
2022	0.50
2023	0.50
2024	0.50
2025	0.50
2026	0.50

North Port remains committed to providing the water needs of our community and looks forward to continuing our close relationship with the PRMRWSA on this important issue.

Sincerely,



Peter D. Lear, CPA, CGMA
City Manager

Attachments:

1. 2019 Annual Water Demand/Supply Sources Projections-Annual Average
2. 2019 Annual Water Demand/Supply Sources Projections-Peak Month
3. 2019 Annual Water Demand/Supply Sources Projections-Peak Day
4. North Port Water Demand and Supply Projections Graph

CC: Honorable Mayor and City Commission
Jason Yarborough, Assistant City Manager
Rick Newkirk, Utilities Director
City Clerk, Kathryn Peto
City Attorney, Amber Slayton
Jonathan Lewis, Sarasota County Administrator
Ed Hunzeker, Manatee County Administrator
Mandy Hines, DeSoto County Administrator
Ray Sandrock, Charlotte County Administrator

Attachment 1

2019 Annual Water Demand/Supply Sources Projection								
	Contract Fiscal Year	Average Day Demand (MGD)	Supply Sources - Annual Average					Water available for redistribution pool
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)	
Actual →	2018	3.139	0	0	4.4	2.865	0	0.00
Projected→	2019	3.379	0	0	4.4	2.865	0	0.00
↓	2020	3.519	0	0	4.4	2.865	0	0.00
↓	2021	3.637	0	0	4.4	2.865	0	0.00
↓	2022	3.756	0	1.00	4.4	2.865	0	0.50
↓	2023	3.886	0	1.00	4.4	2.865	0	0.50
↓	2024	4.042	0	1.00	4.4	2.865	0	0.50
↓	2025	4.195	0	1.00	4.4	2.865	0	0.50
↓	2026	4.343	0	2.00	4.4	2.865	0	0.50
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract								
↓	2027	4.480	0	2.00	4.4	2.865	0	
↓	2028	4.628	0	2.00	4.4	2.865	0	
↓	2029	4.814	0	2.00	4.4	2.865	0	
↓	2030	4.985	0	2.00	4.4	2.865	0	
↓	2031	5.158	0	2.00	4.4	2.865	0	
↓	2032	5.316	0	2.00	4.4	2.865	0	
↓	2033	5.537	0	2.00	4.4	2.865	0	
↓	2034	5.711	0	3.00	4.4	2.865	0	
↓	2035	5.915	0	3.00	4.4	2.865	0	
↓	2036	6.115	0	3.00	4.4	2.865	0	
↓	2037	6.343	0	3.00	4.4	2.865	0	
↓	2038	6.566	1.4	3.00	4.4	2.865	0	
↓	2039	6.802	1.4	3.00	4.4	2.865	0	

Attachment 2

2019 Annual Water Demand/Supply Sources Projection							
	Year	Peak Month Demand (MGD)	Supply Sources - Peak Month				
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)
Actual →	2018	3.766	0	0	5.28	3.146	0
Projected →	2019	4.055	0	0	5.28	3.438	0
↓	2020	4.223	0	0	5.28	3.438	0
↓	2021	4.365	0	0	5.28	3.438	0
↓	2022	4.507	0	0	5.28	3.438	0
↓	2023	4.664	0	0	5.28	3.438	0
↓	2024	4.850	0	0	5.28	3.438	0
↓	2025	5.034	0	0	5.28	3.438	0
↓	2026	5.212	0	3	5.28	3.438	0
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract							
↓	2027	5.376	0	3	5.28	3.438	0
↓	2028	5.553	0	3	5.28	3.438	0
↓	2029	5.776	0	3	5.28	3.438	0
↓	2030	5.982	0	3	5.28	3.438	0
↓	2031	6.190	0	3	5.28	3.438	0
↓	2032	6.380	0	3	5.28	3.438	0
↓	2033	6.644	0	3	5.28	3.438	0
↓	2034	6.853	0	4.5	5.28	3.438	0
↓	2035	7.098	0	4.5	5.28	3.438	0
↓	2036	7.337	0	4.5	5.28	3.438	0
↓	2037	7.612	0	4.5	5.28	3.438	0
↓	2038	7.879	2.1	4.5	5.28	3.438	0
↓	2039	8.162	2.1	4.5	5.28	3.438	0

Attachment 3

2019 Annual Water Demand/Supply Sources Projection							
	Year	Peak Day Demand (MGD)	Supply Sources - Peak Day				
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)
Actual →	2018	4.394	0	0	6.16	3.78	
Projected →	2019	4.731	0	0	4.9	4.011	0
↓	2020	4.927	0	0	4.9	4.011	0
↓	2021	5.092	0	0	4.9	4.011	0
↓	2022	5.259	0	1.4	4.9	4.011	0
↓	2023	5.441	0	1.4	4.9	4.011	0
↓	2024	5.658	0	1.4	4.9	4.011	0
↓	2025	5.873	0	1.4	4.9	4.011	0
↓	2026	6.080	0	4	4.9	4.011	0
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract							
↓	2027	6.272	0	4	4.9	4.011	0
↓	2028	6.479	0	4	4.9	4.011	0
↓	2029	6.739	0	4	4.9	4.011	0
↓	2030	6.978	0	4	4.9	4.011	0
↓	2031	7.222	0	4	4.9	4.011	0
↓	2032	7.443	0	4	4.9	4.011	0
↓	2033	7.751	0	4	4.9	4.011	0
↓	2034	7.996	0	6	4.9	4.011	0
↓	2035	8.282	0	6	4.9	4.011	0
↓	2036	8.560	0	6	4.9	4.011	0
↓	2037	8.880	0	6	4.9	4.011	0
↓	2038	9.192	2.8	6	4.9	4.011	0
↓	2039	9.523	2.8	6	4.9	4.011	0

North Port Water Demand and Supply Projections

