McAllen Public Utility

Leading in Water & Waste Water for South Texas

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Utility Engineer
Carlos Gonzalez, P.E.
FY 2018-2019 Operating Budget

- Water Appropriations: $22,000,000
- Wastewater Appropriations: $21,000,000
- Total Operating Budget: $43,000,000
Water & Waste Water System

• Approx. 770 Miles of Water Distribution System
• Approx. 48,000 Accounts and 55,000 Connections
• 54 Lift Stations (10 in Alton)
• Approx. 630 Miles of waste water collection system
## RAW WATER SUPPLY

### RAW WATER

<table>
<thead>
<tr>
<th>Irrigation District</th>
<th>Allocation (Ac.-Ft.)</th>
<th>Percent Allocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCID No. 1</td>
<td>4,000</td>
<td>9.86%</td>
</tr>
<tr>
<td>HCID No. 2</td>
<td>8,111</td>
<td>20.00%</td>
</tr>
<tr>
<td>HCWID No. 3</td>
<td>14,530</td>
<td>35.81%</td>
</tr>
<tr>
<td>United I.D.</td>
<td>11,250</td>
<td>28.00%</td>
</tr>
<tr>
<td>Brownsville I.D. (lease)</td>
<td>2,000</td>
<td>5.00%</td>
</tr>
<tr>
<td>City Wtr. Rights</td>
<td>679</td>
<td>1.67%</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>40,570</strong></td>
<td><strong>100%</strong></td>
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</table>
WATER TREATMENT SYSTEM

SWTP 4 MGD
EXPANSION – 53 MGD

1 MGD BGWW

TOTAL WATER SYSTEM CAPACITY – 64 MGD

$4-5 MILLION
WHOLESALE WATER CONTRACTS

REGIONAL WATER SALES - REVENUES

<table>
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<tr>
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<tbody>
<tr>
<td>$31,263.92</td>
<td>$14,321.60</td>
<td>$100,501.05</td>
<td>$100,379.50</td>
</tr>
</tbody>
</table>

City of Edinburg, City of Mission, City of Hidalgo

Consumption 2013-2014: 7,956,348,500
Consumption 2014-2015: 6,892,729,300
Consumption 2015-2016: 8,014,330,300
Consumption 2016-2017: 6,037,597,680
Utility Rates Comparison

Water & Sewer Rate Comparisons – 10 kgal Consumption

Total Wtr. & Sewer (10 kgal.)  Base Fee  Commodity
ELEVATED WATER STORAGE

6.75 Million Gallons of Elevated Storage
New Raw Water Reservoir
300 Million Gallon Capacity
WASTE WATER TREATMENT SYSTEM

SWWTP – 10 MGD

$56 MILLION

TOTAL WASTE WATER SYSTEM CAPACITY – 25 MGD
CURRENT PROJECTS

South Waste Water Treatment Plant Upgrade Project

$56 MILLION
FUTURE PROJECTS

• NWWTP SCADA/ELEC. IMPROVEMENTS
• SPRAGUE RD. SEWER LINE
• LARK SEWER PROJECT
• GPS – PHASE 2
• BICENTENNIAL WATER LINE
• BICENTENNIAL SEWER LINE
• AMI (SMART METERS)
• REGIONAL WATER LINE PROJECT
• DICKER RD. SEWER PROJECT
• DICKER RD. WATER PROJECT
• GPS – PHASE 2
• BALBOA WATER LINE – PHASE 2
• CIVIC CENTER UTILITY IMPROVEMENTS
• WATER RIGHTS ACQUISITION
NWWTP ELEC. & SCADA IMPROVEMENTS
As you may have noticed, 2011 was a year full of renovation projects for McAllen Public Utility. One of many ongoing projects is located at 29th Street and Ebony Avenue.

This project consists of replacing the old 24 inch PVC force main with a new 36 inch PVC gravity line to include several 12-inch laterals. One component of the project consisted of micro-tunneling to a depth of 40 feet below and 250 feet across underground Business 83 in order to avoid any interruption in east- and westbound traffic; however, there was some unavoidable interruption to traffic on southbound 29th Street to Expressway 83.

The ongoing project will also include the abandonment and demolition of the 29th Street and Ebony Avenue lift station. The 29th and Ebony lift station has served as a point of transfer since 1971, averaging about 3.5 million gallons per day. All transfers from Nolana Avenue between 10th Street and Ware Road would come into this lift station.

Now, the intersection at 29th and Ebony will have a manhole instead of a lift station to allow the wastewater to flow via gravity to the next lift station in south McAllen, located at 25th Street and Cerviza Avenue. This lift station currently has an average daily flow of 2.5 million gallons per day.

Recycling is a concept that can not only apply to paper, plastic, and other consumer products, but water as well. Current drought conditions, concerns over future water availability, and an increasing popular interest in conserving our available resources have all contributed to a renewed attitude toward "recycled" or reuse water.

Reuse water can be thought of as treated wastewater that undergoes additional treatment processes so that it may be used for applications such as landscape and non-food use agricultural irrigation, industrial tower cooling, and other non-potable uses.

The U.S. Environmental Protection Agency and the Texas Council on Environmental Quality strictly regulate the content and quality of reuse water.

McAllen Convention Center District and has the capability to expand its infrastructure and reuse water in various industries. The new lift station is scheduled to be either eliminated or rehabilitated over the upcoming year.

There are other projects still in the construction stage, like the upgrade at the South Wastewater Treatment Plant from 8 million gallons per day to 15 million gallons per day. Monitoring its expansion is just as important to bring capacity up to-date for McAllen's north side.

MPU is committed to providing outstanding water utilities for the residents and visitors to McAllen and will keep you updated on other projects as they progress.

Have a Communication Strategy!

Utility Industry

- Water Quality
- Severe Weather
- Contaminants
- State & Federal Regulations
- Public Perception
- Funding Issues
- Aging workforce
Strategies

- Social media
- Bill Inserts
- IVR
- Code Red
- MPU Website
- Software
Once again, it is a privilege to address the employees of the McAllen Public Utility (MPU). I'm so proud of our employees and how they go about their business on a daily basis.

Speaking of pride, I recently attended a Naturalization Ceremony where my wife, along with hundreds of other new Americans, took their Oath of Allegiance and became citizens of the United States of America. Witnessing this event firsthand was an eye opener for me. The joy on those citizens’ faces was real. They were beaming with the hope that they would have an opportunity at chasing the “American Dream.” One new citizen, a woman from China, was invited to speak to the audience. She told her story of growing up in rural China and studying Math until she nervously decided to pursue higher education in the U.S. She received a Bachelors, Masters, and even her Doctorate, and is now a professor at the University of Texas Rio Grande Valley. She worked hard for the American Dream and is now a role model for new and not-so-new citizens alike. She spoke from the heart and communicated her love for this country and how she was given opportunities that otherwise would not have presented themselves in her homeland.

In the end, I was very proud of being a citizen of the greatest country on earth but I was also surprisingly saddened by the fact that I had grown accustomed to and taken for granted the wonder of being a citizen in a free-est of countries. Every day (and completely oblivious most times) we are living the “American Dream” where our forefathers believed that people “…are endowed by their Creator with certain unalienable Rights, that among these are Life, Liberty and the pursuit of Happiness.” Maybe it’s time we reflect, with gratitude, for our opportunities.

I am proud to be pursuing that dream for me and my family along with hundreds of other employees of this great organization. Our employees are committed to pursuing a higher quality of life for all our citizens. They work hard every day (and completely oblivious most times) that they are role models for their fellow employees, children and their families. We have a great opportunity and purpose in serving our citizens. Maybe it’s time we reflect on that purpose and be grateful for the opportunity.

Thank you and may God Bless us all here at McAllen Public Utility.

Sincerely,
Marco A. Vega, P.E.
General Manager

Managers Commitment to Employees
I will conduct myself toward employees in a manner that reflects true leadership.
MPU Water Education
Good Evening Mr. Vega,

This is a follow up with the request i am asking the City of Mcallen if you can be of assistance with special sampling for tomorrow if possible. Please let me know so we can take samples early in the morning and delivery them to your facility as soon as possible.

Thanks in advance for your help. Greatly appreciated

Sent from my iPhone

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Yes great news and again gentleman want to that you all for all your help.

Great weekend

Sent from my iPhone

On Apr 14, 2018, at 2:13 PM, Mark A. Vega wrote:

Great. Thank you

Sent from my iPhone

On Apr 14, 2018, at 12:38 PM, wrote:

The samples that where brought by came out today @ 11:32 they are negative.