



PW/Utilities Connection



April 2007

Utilities Data from March 2007 City of Melbourne Public Works & Utilities Department

For a healthy, Florida-friendly lawn and landscape, customers asked to follow the new irrigation rules

Getting the word out about the irrigation rules takes a multi-pronged approach, primarily focusing on public education to garner compliance. On its own and in concert with the Brevard Water Resources Conservation Team, the City of Melbourne has been actively working toward that goal.

The team, which includes water utility outreach representatives from Melbourne, along with the cities of Palm Bay, Cocoa, Titusville, and Brevard County, recently reached a large group of people through its annual Florida Friendly Landscape Seminar held in March. While information was given about the irrigation rule and good irrigation practices, participants also spent the morning learning about integrated pest management, native and other Florida-friendly plants, and had the opportunity to have questions about their own landscaping answered by area experts.

There were numerous environmental booths for the participants to visit during breaks. At the end, they were given "mud gloves" to help them in their gardening pursuits.

Melbourne's utility bills being sent to some 54,000 customer accounts in April are all including information about the irrigation rules. The message is notifying Melbourne water customers



Members of the Brevard Water Resources Conservation Team prepare bags filled with information to give to participants of the Florida Friendly Landscape Seminar.

that lawn watering is allowed no more than two days per week, and only between the hours of 4 p.m. and 10 a.m.

To further get the word out, the City's Environmental Community Outreach Division sends out information on lawn watering rules to new customers every month. In addition, notices are provided in various City newsletters and other publications. These are not only mailed but are also posted on the City's web site. Another method the division uses to reach people is through participation in various environmental shows and events, where the public is also provided with information.

The City continues to partner with the St. Johns River Water Management District for their annual media campaign. With the slogan, "Think Two," prominent advertisements have frequently appeared on network

TV, and on billboards, the radio, and through other mediums.

Even with the information that is getting out in such a variety of ways, some residents and businesses are found violating the rules. In this case, they are sent letters with informational brochures. Rarely,

assistance from code enforcement staff is needed to help ensure irrigation-rule compliance.



The audience gives full attention to one of the speakers at the Florida Friendly Landscape Seminar held last March.

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Monthly Water Usage and Raw/Finished Water Quality Statistics

Water Usage

- ◆ Water pumped to service: 486,777,000 gallons or 15.702 MGD average
- ◆ Maximum finished water pumped to service: 16.769 MGD on March 26, 2007
- ◆ Fire hydrant flushing: 17,814,205 gallons
- ◆ Committed capacity: 3.1268 MGD
- ◆ Capacity available for development: 7.7322 MGD (Based on 12-month average daily flow)

Water Quality Statistics

Lake water

- ◆ Level: 13.54 feet above MSL on March 31, 2006 (Prior month comparison: 13.88 feet on Feb. 28, 2007)
- ◆ pH: 7.9
- ◆ Alkalinity: 73 mg/L

- ◆ Total hardness: 153 mg/L
- ◆ Chlorides: 110 mg/L
- ◆ Color: 139
- ◆ Total dissolved solids (TDS): 365 mg/L

Well water

- ◆ pH: 7.8
- ◆ Alkalinity: 121 mg/L
- ◆ Total hardness: 661 mg/L
- ◆ Chlorides: 802 mg/L
- ◆ Color: 5
- ◆ Total dissolved solids (TDS): 1,722 mg/L

Finished water - pumped to service

- ◆ pH: 8.5
- ◆ Alkalinity: 38 mg/L
- ◆ Total hardness: 109 mg/L
- ◆ Chlorides: 90 mg/L
- ◆ Color: 3
- ◆ Total dissolved solids (TDS): 318 mg/L

Reclaimed water soon to begin flowing at Crane Field Park

More valuable groundwater resources will soon be saved once a project to provide reclaimed water service comes on line at Crane Field, located in the Eau Gallie area near the high school.

"Thirty to fifty thousand gallons a day of well water will be saved when the change over is made," said Assistant Public Works & Utilities Director Harold Nantz.

He noted that a similar project was recently done at the McGrath fields, which has made a significant impact in water savings. Once the Crane Field system also comes online, approximately 21.9 million gallons per year of groundwater will be saved as a result.

The project involves tying the reclaimed water mains into a 12-inch main that exists on the east side of Commodore Boulevard at its intersection with Caribbean Drive, which is adjacent to Eau Gallie High

School. The line will run east on Caribbean to Crane Field Park.

"It has been sized so it can be extended in the future into the surrounding neighborhoods," Nantz said.

The line will be tied into the existing irrigation system for the ballfields, including little league fields and Police Athletic League football fields, and the community center. The well can be used as a backup if necessary.

The contractor is Y-Com for this \$175,000 project. The work should be completed by mid-summer. City parks maintenance staff will install the required backflow preventers to isolate the well water prior to the start of service.

"This allows us to continue our commitment to increase reclaimed water usage and conserve our water resources," Nantz said.



Workers from Y-Com install new reclaimed water lines on Caribbean Drive.

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Wastewater Treatment Operational Summary and Reuse Statistics

D.B. Lee WWTP

- ◆ Treated this month: 123.67 MG
- ◆ Treated daily: 3.99 MGD
- ◆ Reuse production — total month flow: 71.97 MG
- ◆ Reuse average daily flow: 2.32 MGD
- ◆ Reuse number of days run: 31
- ◆ Plant efficiency, BOD removal: 99.45%
- ◆ Committed capacity: 0.7770 MGD
- ◆ Capacity available for development: 1.8880 MGD
(Based on 12-month average daily flow)
- ◆ Rainfall: 0.91 inches over 4 days

Grant St. WWTP

- ◆ Treated this month: 88.85 MG
- ◆ Treated daily: 2.87 MGD
- ◆ Reuse production — total month flow: 9.92 MG
- ◆ Reuse average daily flow: 0.32 MGD
- ◆ Reuse number of days run: 31
- ◆ Plant efficiency, BOD removal: 98.68%
- ◆ Committed capacity: 1.3961 MGD
- ◆ Capacity available for development: 1.1850 MGD
(Based on 12-month average daily flow)
- ◆ Rainfall: 0.85 inches over 6 days

A total of 81.89 million gallons of reclaimed water was produced during March, representing 38.5% of total plant flows.

Forty-six streets included in annual resurfacing program

The contract for the annual paving and milling program has been awarded for fiscal year 2007. The selected contractor, APAC Southeast, Inc. will be responsible for milling 110,108 square yards and re-paving 144,190 square yards. This work will require 8,291 tons of asphalt. The estimated contract amount is \$907,110.

The following streets are on this year's schedule. When dates for each street are specified, residents will be notified by a letter.

- ◆ Apollo Boulevard (Babcock Street to Nasa Boulevard)
- ◆ Austin Street
- ◆ Azalea Court East
- ◆ Azalea Court West
- ◆ Cadillac Circle West
- ◆ Camphor Way
- ◆ Canterbury Lane (west of Sherwood Boulevard)

- ◆ Coventry Road
- ◆ Cresthaven Parkway
- ◆ Cypress Avenue (south of Eau Gallie Boulevard)
- ◆ Delaware Drive
- ◆ Denise Drive
- ◆ Devonshire Drive
- ◆ Edward Street South
- ◆ Fenton Street
- ◆ Gainey Drive
- ◆ Glenwood Drive
- ◆ Goff Place
- ◆ Grove Lane (south of Lagoon Avenue)
- ◆ Hardwood Court
- ◆ Hazelwood Drive
- ◆ Hillcrest Drive
- ◆ Honeysuckle Lane
- ◆ Horne Street
- ◆ Knight Avenue South
- ◆ Lawrence Drive
- ◆ Matte Drive
- ◆ New Haven Ave. (Livingston

- Street to FEC railroad)
- ◆ Nixon Avenue
- ◆ Nottingham Road
- ◆ Oak Street (north to Hibiscus Boulevard)
- ◆ Palmetto Avenue (Pine Street to Hickory Street)
- ◆ Patrick Circle
- ◆ Pawnee Drive
- ◆ Platt Street
- ◆ Provincial Drive
- ◆ Sherry Lane
- ◆ Southgate Boulevard
- ◆ Stetson Street
- ◆ Stone Street
- ◆ Strawbridge Avenue west
- ◆ Sunset Drive
- ◆ Tropic Road
- ◆ Ute Drive
- ◆ Valentine Street
- ◆ Washington Avenue
- ◆ Wild Wood Drive
- ◆ Yale Avenue

Streets and Stormwater Management Monthly Summary

- ◆ Daytime street sweeper — hours run: 154
Cubic yards of material removed: 258
- ◆ Nighttime street sweeper — hours run: 93.25
Cubic yards of material removed: 151
- ◆ Asphalt repairs made: 48
- ◆ Tons of asphalt used: 39.5
- ◆ Feet of canals cleaned mechanically: 2,175
- ◆ Acres treated through aquatic spraying: 21
- ◆ Feet of storm drain pipe repaired/replaced/lined: 906
- ◆ Concrete repairs: 22
- ◆ Cubic yards of concrete used: 11.75

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Public Works crews, equipment called in to fight landfill fire

Three public works vactor trucks were called into firefighting service



City's vactor trucks are staged for service at the landfill entrance.

on March 28 to help put out a fire at the Brevard County Landfill on Sarno Road.

The trucks, normally used to vacuum stormwater or wastewater into the tanks housed on the trucks, are able to hold 1,500 gallons of water

each. Two of the trucks are used by the Waste-water Collec-

tion (WWC) Division, and one is operated by the Streets & Stormwater Management (SSWM) Division.

"The Fire Department called and asked if we could assist," said Public Works & Utilities Director Bob Klaproth. "We sent men and

equipment. I'm glad we were able to assist them."



Helping fight the fire were, from left, Bryan Fay and Gator Hembree (SSWM), and Butch Burke and Jose Rosado (WWC)

What's Done, What's Underway and What's Coming Up

Water Projects

Under Construction:

- ◆ Phase II surface water treatment plant (SWTP) improvements, \$11,322,000
- ◆ 36" water main clearing, Phase II, \$63,993
- ◆ Waterlines in annexation areas — Deerwood and El Dorado, \$1,722,656
- ◆ Rehabilitation to RO wells #1, 2 & 3, \$692,725
- ◆ Backup well #4, \$1,320,900
- ◆ Harlock Rd water main extension

Under Design or in Bid

Process:

- ◆ Automatic transfer switch and generator enclosure at the SWTP's belt press building
- ◆ Pineda Causeway 16" water main
- ◆ Wickham Road 8" water main
- ◆ Eau Gallie water line replacement, Phase I, Segments V & VI; portion of segments I & II, Phase II
- ◆ Country Road annexation water line extension
- ◆ Water line upgrade at Turtle-mound Rd.-Grand Haven subdivision
- ◆ 2006 misc. water line replace-

ments

- ◆ 2007 misc. water line replacements (Phase I - Ballard Park) & Phase II
- ◆ North water treatment plant demolition

Wastewater Projects

Under Construction:

- ◆ Various manhole rehabilitation projects, \$274,340
- ◆ Lift Station #55 upgrade, \$159,564
- ◆ St. Andrews lift station and sub-aqueous force main
- ◆ Reuse interconnect, \$1,370,000
- ◆ FY '07 CIPP rehabilitation projects, \$1,200,000
- ◆ Water & Wastewater Operations maintenance building, \$571,800
- ◆ Electrical upgrade to the sludge belt press building at D.B. Lee and Grant Street WWTPs
- ◆ Crane Field reuse project

Under Design or in Bid

Process:

- ◆ Reuse master plan, phase II
- ◆ D.B. Lee WWTP admin. bldg.
- ◆ Lift Station #29 (Aurora & Mary-

wood) and Lift Station #46 (BCC) renovations

- ◆ Grant Place L.S. and force main
- ◆ Sarno Road force main improvements
- ◆ Grant Street WWTP admin. bldg.

Streets & Stormwater Projects

Under Construction:

- ◆ FY '06 CIPP pipe rehabilitation projects, \$855,000
- ◆ FY '07 CIPP pipe rehabilitation projects, \$1,350,000
- ◆ Melbourne Avenue drainage at Pennwood Avenue, \$184,290

Under Design or in Bid

Process:

- ◆ Babcock and Hibiscus intersection improvements
- ◆ Gramling Park Road drainage improvements

For more information about this report, please contact the Melbourne PW/Utilities Administration Department at (321) 674-5761 or send an e-mail to utilitiesadmin@melbourne-florida.org