



PW/Utilities Connection



June 2005

Utilities Data from May 2005 City of Melbourne Public Works & Utilities Department

Key Streets & Stormwater Management staff set to retire

Three employees from the Streets & Stormwater Management Division, with a combined 74 years of service to the City, are all set to retire on June 24. Besides their retirement date, the three have much in common.

All are Melbourne High School alumni, all have had long careers with the City, and all are retiring at a relatively young age.

Tom Williams, superintendent of the division, leaves the City after a 23-year career.

"It's been a big decision," Williams said. "I will miss the people I've worked with over the years."

He began in 1982 as an equipment operator in the sewage collection division, was promoted to lift station foreman in 1989, promoted to supervisor of wastewater collection in 1990, and promoted to his current position in 1998. At 54 years old, Williams has retirement plans to work and have fun at his hunting camps in Georgia and West Virginia.

Williams' son Jonathan will carry on the family name at the City. He is plant supervisor at the D.B. Lee Wastewater Treatment Plant. Williams' wife of 36 years, Sharon, plans to work until she is 65 and "be the 'bread winner' for a while," joked Williams.

Billy Carter, the youngest of the group at only 47, is retiring after 30 years with the City. He began his career while he was still in high school working for the parks maintenance division after school. He then went to full time and later transferred to the water distribu-



From left, Equipment Operator III Charlie Kuhns, Superintendent Tom Williams and Foreman Billy Carter.

tion division. After 16 years there, he moved to the Streets & Stormwater Management Division as an equipment operator III. He was promoted to foreman after three years with that division.

"I have liked the challenges and good management," Carter said. "That's why I've hung around so long."

Carter says he plans to take it easy for a few months and then may work on an

occasional basis hauling dirt for a local contractor. Carter has a wife of 28 years, Eileen, and two grown sons.

Retiring Operator III Charlie Kuhns, with the City for 21 years, will have plenty to do in his retirement. He and his wife Janice, along with other family members, breed and show Havanese dogs. He says they go to shows most weekends that take place all over the country. They have been showing dogs for 20 years. Along with Havanese, they have also worked with English springers, English pointers and German short-haired pointers. Besides working with the dogs, he also plans to spend more time hunting and fishing.

Kuhns, the oldest of the group at 57, is younger than most retirees. He has been married since 1969 to the same woman he dated since ninth grade. They have two daughters and three grandchildren.

"We are losing valuable employees with the retirement of these three," said Public Works & Utilities Director Bob Klapproth. "Theirs will be hard shoes to fill but we all wish them the best."

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Public Works/Utilities Data from May 2005

Monthly Water Usage and Raw/Finished Water Quality Statistics

Water Usage

- ◆ Water pumped to service: 499,481,000 gallons or 16.112 MGD average
- ◆ Maximum finished water pumped to service: 17.673 on May 30, 2005
- ◆ Water billed: 408,678,800 gallons
- ◆ Fire hydrant flushing: 18,884,450 gallons
- ◆ Fire Department water usage: 60,300 gallons
- ◆ Brevard County water usage – sewer flushing: 15,950 gallons
- ◆ Flushing and testing new water mains: 38,926 gallons
- ◆ Committed capacity: 2.3774 MGD
- ◆ Capacity available for development: 8.7960 MGD (Based on 12-month average daily flow)

Water Quality Statistics

Lake water quality

- ◆ pH: 7.9
- ◆ Alkalinity: 65 mg/L
- ◆ Total hardness: 113 mg/L
- ◆ Chlorides: 73 mg/L
- ◆ Color: 183
- ◆ Total dissolved solids (TDS): 252 mg/L

Well water quality

- ◆ pH: 7.8
- ◆ Alkalinity: 120 mg/L
- ◆ Total hardness: 640 mg/L
- ◆ Chlorides: 779 mg/L
- ◆ Color: 6
- ◆ TDS: 1,655 mg/L

Finished water quality - pumped to service

- ◆ pH: 8.3
- ◆ Alkalinity: 40 mg/L
- ◆ Total hardness: 101 mg/L
- ◆ Chlorides: 74 mg/L
- ◆ Color: 3
- ◆ Total dissolved solids (TDS): 266 mg/L

Together Everyone Achieves More — Teams providing environmental education and outreach benefits

Teams are providing the City with a great deal of “bang for the buck” to complete environmental education and outreach projects. Melbourne participates in three inter-organizational environmental teams.

The Brevard Water Resources Conservation Team was formed six years ago, patterned after Melbourne’s Groundwater Guardian Team. Besides Melbourne, member organizations include the cities of Cocoa and Palm Bay, along with Brevard County -- all having water utilities. Over the years, the team has completed numerous projects including the annual Florida Friendly Landscape Seminars, newspaper inserts, utility bill inserts, posters, a video, educational placemats for children, radio spots, and others. Most projects have received cost-share funding from the St. Johns River Water Management District (SJRWMD). By combining re-



In assembly-line fashion, Brevard Water Resources Conservation Team members fill folders for the '05 Florida Friendly Landscape Seminar. From left, Michelle Romero (Melbourne), Cheri Camp (Brevard County) Ed Garland and Dirk Schmidt (SJRWMD), Joan Needleman (Palm Bay), Nanette Hurst (Cocoa), and David Ambrose (Melbourne).

sources, many of the projects that may not have been able to be performed alone have benefitted from the cooperative team approach.

Melbourne also participates on the Stormwater Education Task Force, formed several years ago. The team worked to produce three comprehensive stormwater education tool kits, have conducted seminars, and share successful stormwater education ideas and projects.

The Recycling Citizens Advisory Committee has recently been re-established by the Brevard County Board of County Commissioners. The Melbourne representative is one of nine members, appointed by the County Commission, the Space Coast

League of Cities and the Brevard County School Board. The team is to assess previously approved recommendations, with a report of findings due by February 2006.

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Public Works/Utilities Data from May 2005

Wastewater Treatment Operational Summary and Reuse Statistics

D.B. Lee WWTP

- ◆ Treated this month: 126.07 MG
- ◆ Treated daily: 4.07 MGD
- ◆ Reuse production — total month flow: 50.79 MG
- ◆ Reuse average daily flow: 1.64 MGD
- ◆ Reuse number of days run: 29
- ◆ Plant efficiency, BOD removal: 98.8%
- ◆ Committed capacity: 0.8877 MGD
- ◆ Capacity available for development: 0.5882 MGD
(Based on 12-month average daily flow)

Grant St. WWTP

- ◆ Treated this month: 90.53 MG
- ◆ Treated daily: 2.92 MGD
- ◆ Reuse production — total month flow: 9.20 MG
- ◆ Reuse average daily flow: 0.30 MGD
- ◆ Reuse number of days run: 31
- ◆ Plant efficiency, BOD removal: 97.2%
- ◆ Committed capacity: 0.8526 MGD
- ◆ Capacity available for development: 1.3891 MGD
(Based on 12-month average daily flow)

Water quality report coming with June utility bills



Melbourne water customers will be receiving the City's annual Consumer Confidence Water Quality Report. This year, they are being inserted into all utility bills mailed in June.

The report covers water quality testing performed in 2004 and explains the City's water in relation to state and

federal standards.

The report shows that the water supplied by the City is in compliance with all standards and regulations and is safe to drink.

For additional copies of the report, e-mail your request to jwilster@melbourneflorida.org or call 321-674-5761.

Tri-annual household lead and copper sampling underway

The City is in the process of collecting water samples from single-family households in the distribution system. The U.S. Environmental Protection Agency and the Florida Department of Environmental Protection mandate the Lead and Copper Household Tap Sampling Program for all public water systems.

"The program began in 1992," said Harold Nantz, Assistant Public Works & Utilities Director. "In 1996 the frequency was reduced to every three years from every year because all the previous sampling events were in compliance with the established action levels for lead and copper."

Lead can enter the water from corrosion in household plumbing, usually from lead-based solder used to join copper pipes. Elevated levels of copper can be caused by leaching of pipes from water that is too soft.

High amounts of both lead and copper can cause adverse health effects.

Streets and Stormwater Management Monthly Summary

- ◆ Daytime street sweeper — hours run: 88.5
Cubic yards of material removed: 107.5
- ◆ Nighttime street sweeper — hours run: 82
Cubic yards of material removed: 79
- ◆ Asphalt repairs made: 33
- ◆ Tons of asphalt used: 27
- ◆ Feet of canals cleaned mechanically: 3,250
- ◆ Acres treated through aquatic spraying: 20
- ◆ Feet of storm drain pipe repaired: 200
- ◆ Concrete repairs: 37
- ◆ Cubic yards of concrete used: 38

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Utilities Data from May 2005

May Highlights

The level of Lake Washington decreased during the last month. At the end of May, the lake level was 13.97 feet above sea level. This compares to the lake level at the end of April, when it was 14.53 feet above sea level. Water quality remains good.

The D.B. Lee Wastewater Treatment Plant recorded 5.35 inches of rain during six days in May. The Grant Street Wastewater Treatment Plant received 3.54 inches of rain over seven days during May. A total of 58.51 million gallons of reclaimed water was distributed during May. This represents 27% percent of total plant flows for May.

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

Water Projects

Recently Completed:

- ◆ Parkway Drive and Turtle Mound water line extension, \$657,000
- ◆ Waterline upgrade, Olde Eau Gallie, \$347,409
- ◆ Replacement of RO membranes, \$469,000
- ◆ Northern Oak water line extension

Under Construction:

- ◆ Hazelwood waterline extension
- ◆ Water Treatment Plant storage building, \$98,000
- ◆ Fee Avenue waterline replacement under FEC, \$120,330
- ◆ Turtle mound North waterline extension, \$471,200
- ◆ Eau Gallie River sub-aqueous crossing, \$124,535

Under Design or in Bid

Process:

- ◆ Phase II surface water treatment plant improvements
- ◆ Utility relocation in association with NASA Boulevard realignment at Wickham Road
- ◆ Chemical feed upgrades at Canova Beach Booster Station
- ◆ Wickham Road ground storage tank and booster pump station
- ◆ Miscellaneous two-inch to six-

inch waterline upgrades

- ◆ Automatic transfer switch and generator enclosure at the surface water treatment plant's belt press building

- ◆ Aurora elevated water tank rehabilitation

Wastewater Projects

Recently Completed:

- ◆ Lift Station 24 replacement, \$451,440

Under Construction:

- ◆ Demolition of old treatment units at D.B. Lee WWTF, \$624,700
- ◆ New monitoring network for reuse system at DB Lee WWTP

Under Design or in Bid

Process:

- ◆ Reuse master plan
- ◆ Water & Wastewater Operations maintenance building
- ◆ Lift station 55 upgrade
- ◆ Grant Street Wastewater Treatment Plant lighting upgrade
- ◆ Sarno Road force main upgrade
- ◆ Electrical upgrade to the sludge belt press building at D.B. Lee and Grant Street WWTPs
- ◆ D.B. Lee WWTP administration building
- ◆ Lift Station #43 (Front Street) upgrade

Streets & Stormwater Projects

Recently Completed:

- ◆ Pineapple Avenue pedestrian bridge at Cliff Creek, \$115,429

Under Construction:

- ◆ Sherwood Park drainage improvements, \$358,285
- ◆ Eber Road widening from Babcock Street to Dairy Road, \$3,840,879
- ◆ Paradise Cay CIPP, \$325,835

Under Design or in Bid

Process:

- ◆ Hoag Avenue paving and drainage improvements
- ◆ Upgrade of stormwater system at Charles Dr./Almar Subdivision
- ◆ Upgrade of existing culvert crossing under Pirate Lane
- ◆ Laurie Road drainage improvements

General Public Works:

Under Construction

- ◆ Public Works & Utilities Administration Building, \$512,391

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@melbourneflorida.org