

BUILDING CONFIDENCE THROUGH TRANSPARENCY

BREVARD DELIVERS

SECOND QUARTER | 2018

PLANNING AHEAD

BREVARD COUNTY
EMERGENCY MANAGEMENT
LAYS GROUNDWORK FOR
NEW EOC FACILITY



INDIAN RIVER LAGOON 2018 PROJECT PLAN UPDATE



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Another Side of EMS – Hurricane/Disaster Preparedness

Emergency Preparedness is a Team Sport.

While the hurricane season officially runs from June 1st through November 30th of each year, Coastal Ambulance and many other emergency management, fire/rescue and hospital organizations in Brevard County prepare year round for the possibility of hurricanes, storm surges and other disaster scenarios.

In doing so, we train throughout the year and prepare to deploy crews for sustained operations with safe, expeditious and professional patient evacuation being a top priority. These preparations begin prior to hurricane season when Coastal joins forces with other agencies such as Brevard County Fire Rescue, Space Coast Area Transit, Brevard County School Board and our area hospitals in strategic planning for the season.

Storm Ready.

Coastal Ambulance has several responsibilities during the evacuation process. Once the order for evacuation has been given by the Board of County Commissioners, Coastal executes a closely managed plan to evacuate any hospital in the immediate threat area. Once all hospital evacuations are complete, Coastal then turns its attention to those patients on Emergency Management's Special Needs Registry. Once our planned transports are complete Coastal continues to engage in other operations as required by Brevard County Emergency Management.

Under challenging post-storm conditions — power and communications outages, downed trees/hazards, traffic disruptions and fuel/supply shortages — Coastal works as quickly and as safely as possible to return to normal operations bringing people back to hospitals and residences.

Evacuation Tested.

In planning for such responsibilities Coastal built its facilities in Rockledge to withstand a Category 4 hurricane, maximizing our ability to operate continually during major storms. Most recently Coastal's readiness was tested during hurricane Irma when we provided over 150 pre and post storm evacuations/transport for area hospitals and the Special Needs registry.

Not Just a Fair Weather Service.

As Brevard County's exclusive provider of non-emergency ambulance services, Coastal makes important connections every day for the citizens of our community and this responsibility is not exclusively a fair weather service. For 30 years, during clear weather and hurricanes alike, our staff of trained professionals has safely transported hundreds of thousands of patients to and from various healthcare providers here in Brevard County and across our state and nation. Being tasked with providing mutual aid support to our community during hurricane season is not only a responsibility we take seriously, it is our commitment, a privilege and an honor. Every day of every year, Coastal is on duty and playing a key role in Brevard's medical transportation system.



Serving Brevard for 30 years.

JIM LIESENFELT CONFIRMED AS ASSISTANT COUNTY MANAGER



Jim Liesenfelt
Assistant County Manager

On April 10, Brevard County's Board of County Commissioners approved longtime Transit Director Jim Liesenfelt's confirmation as Assistant County Manager. Liesenfelt served 10 months as Interim Assistant County Manager, and proved "himself to be a highly experienced and valued member" of the County Manager's Office leadership team, according to County Manager Frank Abbate. In the agenda report to Commissioners, Liesenfelt was recognized for his attention to details, ability to juggle multiple high-level issues at once, calm demeanor and level-headed decision making.

Liesenfelt began his career with Brevard County Government working in Transit Services in 1991 as a Transit Planner. He was later promoted and held the position of Manager of Planning and Finance until he was promoted to Transit Services Director in May 1997.

As Assistant County Manager, Liesenfelt provides leadership to the Community Services Group, which is made up of these departments: Library Services, Tourism Development, Housing & Human Services, Parks & Recreation, Transit Services and the University of Florida/Extension Services.

FY 2018-2019 BUDGET DEVELOPMENT TIMELINE

WONDERING ABOUT THE CURRENT BUDGET? A transparent line-item budget posted online at www.brevardfl.gov provides county residents the ability to compare actual revenues and expenditures to the current budget of departments of Brevard County Government, as approved by the Board of County Commissioners.

The line-item budget is a more detailed format than an annual budget report, and gives residents the opportunity to review and analyze how their tax dollars are being spent and where the County stands financially at particular points in the fiscal year. For each current budget line item, associated actual and committed revenues and expenditures and the available budget are provided.

Residents can get access to the line-item budget, as well as other pertinent budget information, by visiting www.brevardfl.gov and clicking on County Budget under the Home tab. Once on the budget page, blue tabs on the left hand side of the page include a variety of budget items that can be reviewed or downloaded. A few clicks of the mouse will reveal all anyone wants to know about where County dollars are being spent, including department and program expenditures.

JUNE

- Preliminary Certified Tax Roll Received
- Submission of Sheriff & Property Appraiser Budgets
- County Manager Meetings with Departments & Agencies

JULY

- 7/01/18 – Receive Certification of Property Values
- 7/13/18 – Recommended Budget to County Commissioners
- 7/24/18 – Board Sets Tentative FY 2018-19 Ad Valorem Millages

AUGUST

- 8/01/18 – Submission of Tax Collector's Budget
- 8/25/18 - Property Appraiser mails TRIM Notices
- Completion of Changes to Operating and CIP Budgets

SEPTEMBER

- 9/11/18 – First Public Budget Hearing, Adopt Tentative Budget
- 9/25/18 – Second Public Budget Hearing, Adopt Final Budget

Cover photo courtesy of
Robbyn Spratt, Freelance Photographer;
Stormwater Engineer with
Brevard County Natural Resources
To view more photos by Robbyn,
visit rcspratt.wordpress.com



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WE VALUE YOUR INPUT. IF YOU HAVE ANY SUGGESTIONS PLEASE CONTACT:

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BREVARDELIVERS

A quarterly publication keeping you informed on projects throughout our County. Brevard Delivers is an additional way for Brevard County Government to continue building confidence through transparency.



Brevard Delivers is posted each quarter at www.brevardfl.gov/BrevardDelivers. Printed copies are available at the Government Center in Viera, local libraries and offices of the County Commissioners.

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Brevard Physician Associates

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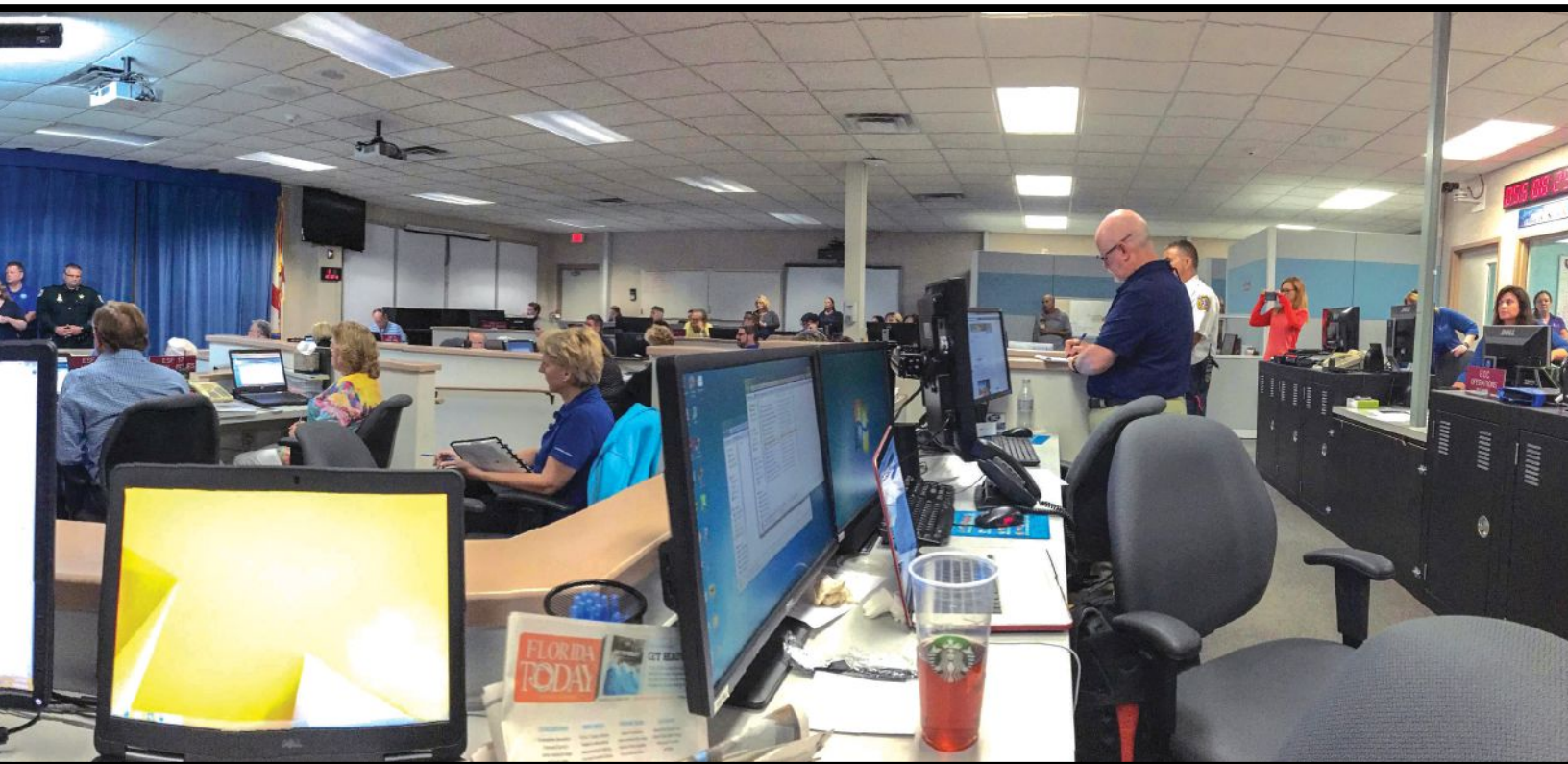
BREVARD COUNTY EMERGENCY OPERATIONS CENTER



PLANNING AHEAD

BY MARIA SONNENBERG

We all know Brevard County is special because of its excellent weather, its bounty of natural treasures, its friendly people, its beautiful communities, and, of course, because of how the Space Coast has made its mark on the world by reaching for the stars.



Thanks to NASA, the United States Air Force, and commercial entities, an average of two rockets take off from Brevard every month, and experts predict that figure may soon double or triple.

With the return of human spaceflight anticipated to occur within 18 months, another mission to Mars in 2020, and additional lunar exploration, there will be launches aplenty in the months ahead.

Because unique launch-related hazards could impact Brevard, each and every time a rocket launches or lands, the Brevard County Emergency Operations Center (EOC) is activated to ensure the safety of the county's 550,000 residents and millions of annual visitors.

It's not just space launches: the Emergency Operations Center must be prepared to respond to any natural or manmade disaster that could affect the county.

The Space Coast is susceptible to hurricanes, tropical storms, wildfires, nuclear power plant incidents, flooding, tornadoes, terrorism, and over a dozen additional hazards. With so much going on in the county, the opportunity for serious problems is very real in Brevard. In the last 50 years, Brevard has

**DURING
HURRICANES
IRMA AND
MATTHEW,
THE BREVARD
EOC HOUSED
MORE THAN
200 PEOPLE
WORKING TO
KEEP BREVARD
RESIDENTS
SAFE.**

experienced 28 presidentially declared disasters, ranking it in the top 3% of the 3,144 counties nationwide for disasters requiring federal assistance.

Brevard County's EOC is the most frequently activated in the state of Florida and second most in the entire nation. EOC activation centralizes response and recovery decisions in the most efficient manner possible, so "the left hand knows what the right hand is doing."

The EOC is where staff from numerous agencies and organizations coordinate the tasks associated with disasters and major emergencies. While a small-scale emergency is generally handled on-site by first responders, an incident that requires a larger and more complicated response calls for Emergency Management's participation and the activation of the EOC. The complement of agencies represented in the Emergency Operations Center during a full-scale activation numbers more than 50 local, state and federal entities, with at least two representatives each, and often necessitates round-the-clock staffing.

Obviously, Brevard has a very hardworking Emergency Operations Center. Unfortunately, it is an EOC that is well past its prime. Brevard's original

BREVARD COUNTY EMERGENCY OPERATIONS CENTER

Brevard County's Emergency Operations Center activated for the Mother's Day 2008 brushfires, which led to the evacuation of homes and destroyed property. Photo courtesy of Florida Today



Brevard has experienced 28 presidentially declared disasters, ranking it in the top 3% of the 3,144 counties nationwide for disasters requiring federal assistance

5,500-square-foot EOC was built in 1964, with a 1999 addition that doubled its space. The building is home to Brevard County Fire Rescue's 911 Communications Center, where 22 public safety telecommunications dispatch more than 123,000 calls annually; and houses 800 MHz radio transmitter and server rooms; electrical, mechanical, and communications components; and two-thirds of Emergency Management's staff.

A 2005 property condition assessment revealed serious challenges the current facility must overcome in order to operate efficiently during a crisis. Among the problems identified were inadequate space, outdated security and communications systems, and unreliable backup emergency power. According to this assessment, the existing EOC outlived its

effective and functional life years ago.

During Hurricanes Irma and Matthew, the Brevard EOC, which at the time housed more than 200 people working to keep Brevard residents safe, suffered major system failures, including power, air conditioning, and sewer.

A 2012 analysis noted that a 61,000-square-foot facility was needed to provide for an EOC that would appropriately house all the necessary functions to adequately support daily and disaster emergency management operations.

In 2017, the Florida Legislature approved \$1.5 million in appropriations to fund design and permitting for a new EOC. Architects created design and construction documents for Brevard's future EOC, using Volusia County's new facility as a template. This

43,500-square-foot facility will immensely improve the EOC's functional capabilities. The cost estimate for this new building is \$13.5 million.

The County has a 99-year lease with Brevard County Schools on a five-acre property adjacent to the current facility in Rockledge, which will serve as the future home of the new EOC. In the 2018 state legislative session, the County was allocated \$1 million to begin site work for construction, and was recently awarded a \$500,000 Florida Department Infrastructure grant for the same purpose.

County officials continue to pursue additional funding sources and are optimistic that a new building could become reality in a few years. ■



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Save Our Indian River Lagoon 2018 Project Plan Update



Natural Resources Management staff fill a barge with oyster bags for construction of the Geiger Point oyster reef in Melbourne.

Another new project type added to the plan is Treatment of Muck Interstitial Water. Interstitial water is the water found between the solid particles of muck and makes up about 90% of the muck volume. While the muck solids can contain organic nutrients, the interstitial water contains dissolved nutrients. As the muck is removed from the lagoon bottom, it is deposited into a dredged material management area (DMMA) where the solid components settle out and the water is returned back to the lagoon. New methods to treat this water and return it to the lagoon cleaner than before include coagulants, polymers, and biosorption activated media (BAM). Adding an Interstitial Water Treatment step during dredging provides an additional opportunity to remove decades of accumulated pollution from the lagoon.

One more exciting update to the plan was that the funding amount collected in the first year exceeded the amount estimated during conception of the plan. This opened up additional opportunities for nutrient removal from the IRL. When projecting revenue generated from the sales tax, a conservative estimate of \$34 million per year was used to initially plan for projects. When new projects were added at the beginning of 2017 they were selected based on increased nutrient removal, lower costs, and/or a quicker implementation schedule. These new projects substituted

Each year, the County Commission is tasked with adopting an updated Save Our Indian River Lagoon (SOIRL) Project Plan in order to account for new information and opportunities. Potential projects for the update are reviewed and recommended by the SOIRL Citizen Oversight Committee (COC). For the 2018 Update, the Board approved the addition of projects (Table 1) similar to projects identified in the original plan including 1 reclaimed water treatment upgrade, 3 septic to sewer conversion projects, 6 stormwater treatment projects, 3 muck removal projects, 10 oyster restoration projects, and expanded outreach in the areas of fertilizer reduction, grass clipping management, excess irrigation, stormwater pond best management practices, and septic system maintenance. They also added four new project types that were not identified in the original plan, which included sewer lateral rehabilitation, 2 muck interstitial water treatment projects, 4 vegetative living shorelines, and seagrass planting.

Sewer lateral rehabilitation was added in response to public requests for increased investment in sewage-related projects. Brevard County Utility Services has dedicated \$134 million to capital improvement projects

related to sewer repair and improvements, and municipalities have identified an additional \$5.6 million in hurricane-related repairs and upgrades; however, the lateral lines that run from the home to the public line in the street are typically the homeowner's responsibility to maintain. Over time these lines can develop cracks that go unnoticed underground. When heavy rains increase groundwater levels water can then seep into these cracks causing increased volume in the sewer system, which can surpass the capacity the treatment plant can handle, thus creating a need to discharge the excess water. Extra water can also enter these pipes through cracked or missing sewage cleanout caps on a homeowner's property. To address this issue the COC recommended investing \$840,000 on a pilot project in cooperation with the city of Satellite Beach to identify the extent of the issue and aid homeowners with the repair of private pipes and caps. Additional reserved funds in the SOIRL Plan will be used to monitor the performance of this project. This will provide an estimate for the amount of nutrient pollution throughout the county related to privately owned leaky sewer laterals and guide further funding to address it on a larger scale.



DREDGE MATERIAL MANAGEMENT AREA

The complete listing of 2018 IRL projects (Tables 1 & 2) can be viewed at:
www.brevardfl.gov/SaveOurLagoon/New2018Projects

similar types of lower-ranked projects, which were moved to an unfunded projects table in the plan (Table 2). The actual revenue collected for the first year was \$44 million, thus the estimated 10-year projection was increased to \$486 million factoring in inflation. Due to the additional funds available, the COC recommended this year that instead of substituting projects, all recommended new projects would be additions and therefore have a greater impact on the benefits to the lagoon. Moreover, the increased revenue allowed projects substituted in 2017 to be added back into the plan providing further nutrient removal.

The updated plan includes the start of 60 new projects in 2018. Over the next year, staff will continue to evaluate new technologies and opportunities that will speed up the progress of the plan, provide greater nutrient removal, and decrease costs for inclusion in next year's update. ■



Passive Onsite Treatment System (POTS®)

Brevard County Natural Resources Management knows that excess nutrients contribute to large algae blooms within the Indian River Lagoon. In turn, algae blooms prevent seagrass growth by blocking sunlight, and seagrass is an essential foundation of the estuary ecosystem by providing food and estuarine habitat for an abundance of marine-life. A traditional Onsite Treatment Disposal System (OSTDS) is composed of a septic tank where solids are collected and a drain-field system that distributes the raw water containing large amounts of nutrients such as nitrogen and phosphorus into the groundwater which eventually reach our surface waters like the Indian River Lagoon and the St. Johns River.

In June 2016, Brevard County and Environmental Conservation Solutions (ECS) initiated a public-private partnership for the installation of OSTDS upgrades at three County owned facilities in an effort to gain reclassification for a new, advanced water quality treatment technology called Passive Onsite Treatment System (POTS®).

POTS® is an intermediate treatment stage that can be added between the septic tank and the drain-field. The upper chamber of the POTS® is an aerobic (oxygen) area of clean sand, #57 stone, and lime rock where ammonium is converted into nitrates. The lower chamber of the POTS® is an anaerobic (no oxygen) area filled with Bold and Gold, a Biosorption Activated Media (BAM) developed by the University of Central Florida Stormwater Management Academy. Biosorption is a naturally occurring process where nutrients bind to a natural and/or manmade surface without the aid of chemicals. Bold and Gold is a mixture of sand, clay and crumbled recycled tire. The surface of the media promotes the growth of bacteria which eats and converts nitrates into nitrogen gas. Not to worry, Nitrogen is a harmless and natural component (78%) in our air. Simultaneously, Phosphorus is removed from the water by binding to the media. Relatively nutrient free effluent from the POTS® (intermediate stage) flows into the drain-field where it is slowly dispersed into the groundwater. The nutrient removal varies by site conditions and use patterns but nitrogen and phosphorus removal rates are expected to be in the 90-98% range compared to 20-40% reductions in a traditional OSTDS.

Installations of POTS® at three County facilities were completed in February 2018. This public-private partnership is a win-win for both parties. The County receives enhanced water quality treatment at three caretaker properties and ECS, a young private firm, demonstrates their advanced treatment technology to the Department of Health for potential use statewide. As part of the partnership, Brevard County will take quarterly water quality samples from the three POTS® locations and the lab results will be analyzed for nitrogen, phosphorus, total suspended solid reductions, and numerous other water testing. This project is funded in part by a grant from the St. Johns River Water Management District. ■



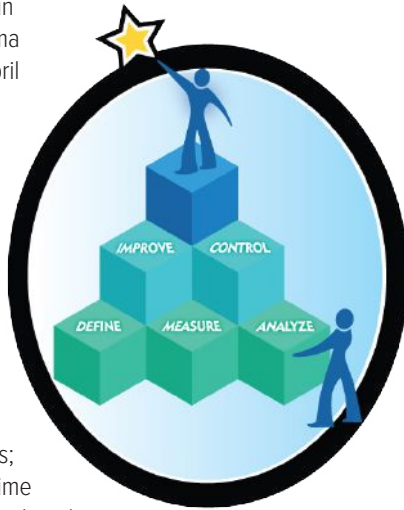
Top Photo: Cocoa Beach Dredge Material Management Area (DMMA) where muck is held to dewater. **Bottom Photo:** The weir allows water from the DMMA to go back to the Indian River Lagoon after the muck has settled out of it.

LEAN SIX SIGMA ROUNDTABLE RECOGNIZES ACHIEVEMENTS

Commission Chair Rita Pritchett and County Manager Frank Abbate joined in Brevard County's Lean Six Sigma Roundtable Discussion held April 27. The event recognized 23 County employees for their involvement and successes achieved in Lean Six Sigma initiatives to date. Seven employees were awarded Green Belts for their lead roles in successful Lean Six Sigma initiatives, which have included a standardized camp registration process for internal and external customers; a reduction in the processing time for development applications and quality control methods that have increased consistency in the building application process; and payroll statement optimization.

The event also saw recognition and a renewal of the County's commitment toward its Mission of performance excellence by utilizing the application of Lean Six Sigma process analysis and improvement methodologies.

Within the next five years, County Government will become Brevard's local government leader in continuous improvement, championing initiatives to eliminate non-value added processes and increasing performance excellence within all County departments.



GOALS:

1. Lean Six Sigma will seek to establish an ongoing environment and culture where County administration, managers and staff are encouraged to pursue service excellence and continuous improvement.
2. To promote a culture of continuous improvement and innovation by empowering Brevard County's workforce to achieve performance excellence.

OBJECTIVES:

1. Provide and maintain a forum of open communication to share ideas, tools, successes and lessons learned in Lean Six Sigma initiatives across all Departments/Offices.
2. Monitor, track and support the County's functional areas in identifying Lean Six Sigma initiatives and support their improvement results.
3. Incorporate Lean Six Sigma concepts in the current phase II continuous improvement awareness class to ensure County employees have access to awareness-level training.
4. Train, certify and deploy Green Belts to institutionalize a Lean Six Sigma culture and promote continuous quality improvement throughout all levels of the organization.

SPACE COAST AREA TRANSIT FREE EVENTS

READ TO RIDE

Students under the age of 18 who show their free-of-charge Brevard County Library Card will receive free bus fare all summer long! Bikes and surfboards are welcome on a space available basis. The Program runs from May 24th–August 9th.

RIDE WITH JIM

Share coffee and conversation with those who help shape Brevard County's Transit System including Assistant County Manager Jim Leisenfelt. Registered attendees will be picked up on August 29th by bus in Titusville at the Titus Landing transit stop and head to the Port St. John Bagel 13.

- Preregister at 321Transit.com/RideWithJim or call 321-633-1878 x201
- Check in 8:45am, bus leaves 9am sharp and bus returns at 10:15am



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Presenter: Dr. Andrew Aldrin

Aug. 9 **Human Factors and
How They Impact Safety**
Presenter: Dr. Debbie Carstens

Aug. 23 **Hurricane Season 2018**
Presenter: Dr. George Maul



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Eric Garvey to Lead Federal Advisory Committee on Travel/Tourism Infrastructure



Eric Garvey, Tourism Director
Tourism Development Office

Eric Garvey has been appointed to serve as chair of the U.S. Department of Transportation's National Advisory Committee on Travel and Tourism Infrastructure (NACTTI). The committee will develop planning tools to assist Federal, State, and local officials in making transportation investment decisions. Garvey's two-year term in this new role began April 19, 2018.

As chairman of the NACTTI, Garvey is representing the viewpoints of organizations with expertise in travel, tourism and destination marketing. His committee is responsible for the development of measures that address the condition, safety and performance of transportation related to travel and tourism, as well as the formation of planning tools that will help federal, state and local officials in making investment decisions.

"I'm honored to serve the administration in this important advisory role," Garvey stated. "Tourism has been underrepresented in national transportation policy and I believe there is a great opportunity through this special travel and tourism committee to provide the secretary with useful input."

Matthew Wallace Confirmed as Public Safety Director



Matthew Wallace,
Public Safety Director

On May 8th, 2018, Retired Air Force Col. Matthew Wallace was confirmed as Director of the newly formed Public Safety Department by the Board of County Commissioners. His official start date is June 4.

Wallace is a 25-year Military Veteran experienced in Human Resources, Program Management, Logistics, Government Contracting, Civil Engineering, Security and Emergency Response and Management. The former commander of the Mission Support Group at Patrick Air Force Base, Wallace will provide leadership to Fire Rescue, Emergency Management, Medical Examiner, Community Corrections and School Crossing Guards.

Meet Space Coast Area Transit's New Director, Scott Nelson



Scott Nelson, Director
Space Coast Area Transit

On May 8th, 2018, the Brevard County Commission confirmed the appointment of Scott Nelson as the new Director of Space Coast Area Transit. Nelson had been the agency's Interim Director since July of 2017 and Manager of Operations since 2007.

Some of Nelson's responsibilities include directing Brevard County Transit Service's 48 fixed and paratransit routes, managing the 4th largest vanpool program in Florida, and supervising an extensive volunteer program that provides transportation to over 350 frail and elderly individuals. Nelson will oversee 139 transit service employees; an annual operating budget of \$14 million; a capital budget of \$8 million; and management contracts for vehicle maintenance, marketing, and the agency's vanpool program.

Smoke Testing is the Weapon of Choice When Looking For Sewage Pipe Leaks

BY MARIA SONNENBERG

It may be that, as the saying goes, where there is smoke there is fire, but the appearance of a particular type of smoke in Satellite Beach and other Brevard beachside communities signals not flames, but rather the start of an exhaustive search into the sources of sewer discharges into the Indian River Lagoon in recent years.

Smoke testing is the weapon of choice for Brevard County Utilities, which has engaged the engineering firm of Kimley-Horn & Associates of Orlando to test the integrity of sewage lines in Satellite Beach.

Why is the testing necessary?

Sewage line issues are the major culprit in the discharge of insufficiently treated wastewater that has contributed to the significant decline of the lagoon. The problem has been particularly evident during major weather events such as Hurricane Irma, when more than 22 million gallons of diluted sewage was released, primarily into the Indian River Lagoon. This estuary, the most diverse lagoon ecosystem and the home to more than 10,000 different species of plants and animals, has in recent years suffered massive fish kills and seen the loss of 95 percent of its seagrass, which serves as a critical nursery for wildlife. The Lagoon must be saved and part of the comprehensive plan to rescue it includes the identification and repair of improperly functioning sewage lines.

Engineers from Kimley-Horn have already begun smoke testing some of the approximately 5,400 buildings and residences that will be checked within the City of Satellite Beach, the focal point for Phase 1 of



the South Beaches smoke testing efforts. Completion of the Satellite Beach smoke tests is anticipated by April 30, 2019. Cost for this phase of the project is \$184,130. Subsequent phases will focus on other beachside communities.

Smoke testing is considered the gold standard nationwide for pinpointing problems that threaten the ability of municipalities to properly treat wastewater. It is the most efficient and cost-effective method to identify where water is escaping within a sewer system and to find areas in a sewer system in need of improvement.

Although called smoke testing, the tests in reality don't utilize smoke, but rather depend on a mist that contains a large percentage of atmospheric moisture that enables it to be extremely visible in low concentrations. Only enough force to overcome atmospheric pressure is required for the testing. In a process that takes about 15 minutes per building, field crews blow this mist that contains a large volume of air through manholes in order to monitor where smoke escapes the system.

Smoke testing identifies sources of inflow such as stormwater cross connections and roof drains illegally connected to the sewer. It also identifies locations where there

are major defects in pipe integrity, such as missing lateral cleanout caps, pipe and lateral breaks and separated joints.

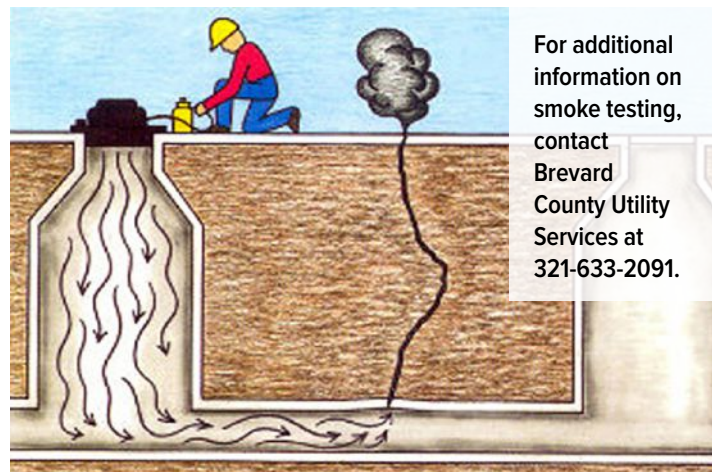
The smoke under pressure will fill the sewer lines, and because smoke travels the path of least resistance, it quickly shows up in locations where there is surface water inflow. For example, as smoke permeates through the section of a yard, it indicates that there is a break in the sewer line in that location.

The smoke is harmless and dissipates in only a few minutes. It will not stain or leave any odor. However, since any vapor can become a minor irritant when it comes into direct contact with some people, individuals with respiratory problems such as asthma will be cautioned to avoid directly breathing the vapor. It is not harmful to pets and poses no fire hazards.

Kimley-Horn has been tasked with identifying potential methods—including follow-up investigations—needed for reducing the inflow and to locate specific sources and points of entry, as well as to offer reasonable expectations for inflow reductions for each method and estimates of costs and timelines required to achieve these reductions.

Individual notifications of any given areas to be tested will be distributed one to two weeks in advance of the testing and street signs will be placed in the specific communities during the days of the testing. The testing is weather dependent, so flexibility is accounted into the schedule.

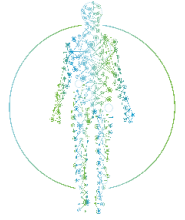
With the use of smoke testing, some of the woes befalling the Indian River Lagoon will hopefully go up in smoke. ■



For additional information on smoke testing, contact Brevard County Utility Services at 321-633-2091.

SECOND QUARTER • 2018

2018
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PARKS & RECREATION MELBOURNE | SOUTH AREA

POW/MIA Boat Ramp Renovations

- **Cost:** \$500,000
- **Funding:** Grants

Brevard Zoo Trail – Phase II

- **Cost:** \$2,303,339
- **Funding:** Local Agency Program

Pond Spraying in all South Area Regional Parks

- **Cost:** \$600 (Done in house, savings of \$6,000)
- **Funding:** S. Special District Ad Valorem, User Fees

PARKS & RECREATION | BREVARD COUNTY
NORTH, CENTRAL, SOUTH AREAS**2018 Summer Camp Registration**

- **Date:** May 24, 2018 – August 10, 2018
- **Estimated Total Registrations:** 11,000

LIBRARY SERVICES RENOVATIONS AND REPAIRS

Mims/Scottsmoor Public Library

The library has been closed since the end of December while replacing the existing building which was built from 24 modular trailers that date from 1988. Materials and books were put into storage, and the library demolished. The new structure is in place and interior work is underway.

- **Estimated Completion Date:** August 2018
- **Cost:** Total is approximately \$2.1 million
- **Funding:** Capital budget, which is funded by ad valorem taxes

Titusville Public Library

Undergoing renovations and improvements to air conditioning system, roof, exterior finish, curb, and sidewalks. Old carpet and street sign have been replaced. Library is being painted, inside and out. Improvements include a new computer lab area and a complete re-design of the children's area.

- **Estimated Completion Date:** June 2018
- **Cost:** Approximately \$1.2 million
- **Funding:** A bequest by Rita Moehring, a deceased former patron of the library

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UF/FAS BREVARD EXTENSION OFFICE STUDY



Source & Concentration of Water Nutrients from Waterfront Homes

Working with 10 homeowners in Tortoise Island, Satellite Beach collecting water runoff from landscapes. Water samples will be analyzed for nutrient concentration and source of nitrogen. May rains have collected about 40 samples that were sent to University of Florida for nutrient analysis. Project will continue through the rainy season until August 2018. Goals of the project include comparing dry and wet season runoff nutrient concentration and effectiveness of the fertilizer ordinance blackout period.

■ **Project Start Date:** January 2018 ■ **Funding:** County IRL NEP Grant

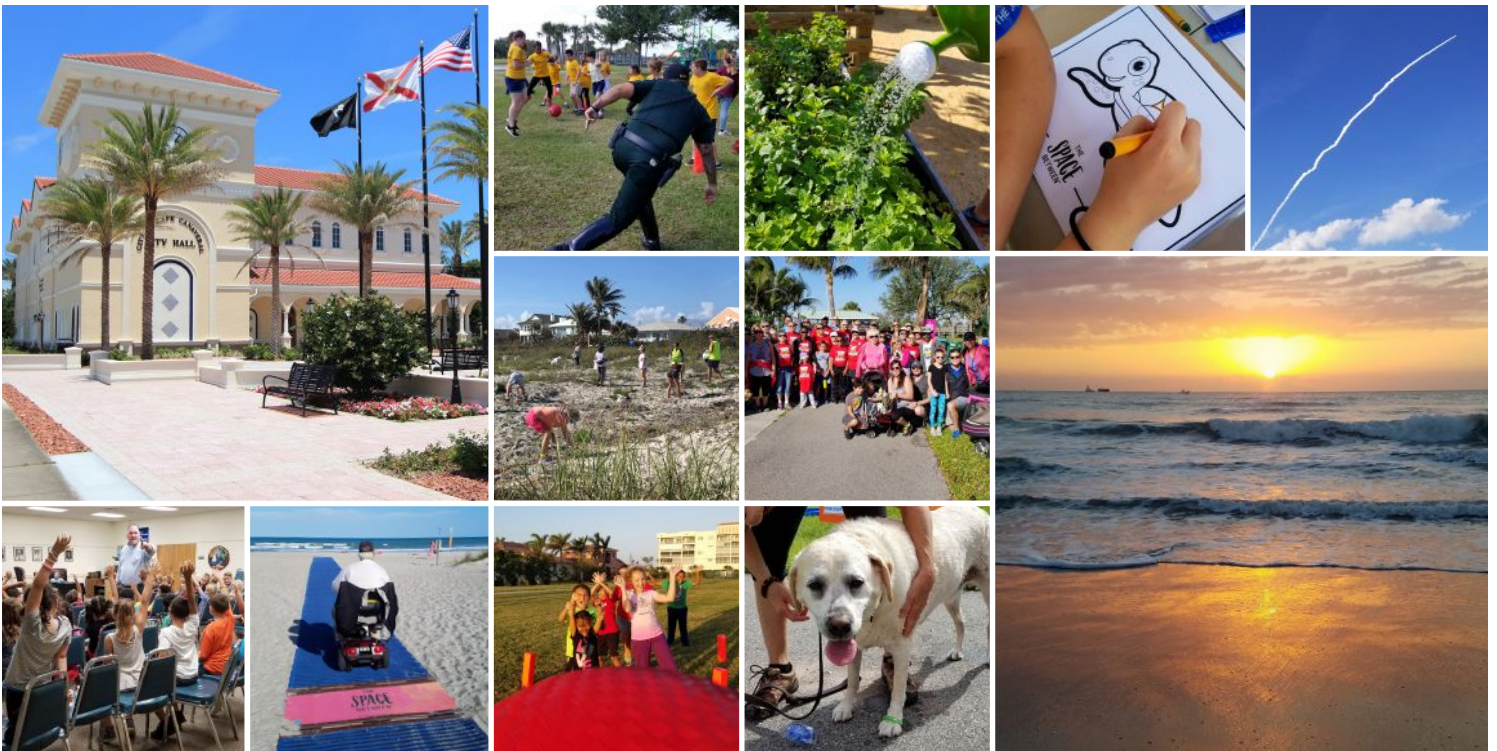
UTILITIES SERVICES IMPROVEMENTS/EXPANSIONS

South Beaches Wastewater Treatment Facility

Work continues to provide needed upgrades. The clarifier serving the parallel 2 MGD portion of the plant is being completely retrofitted with new equipment. Repairs are being made to the existing clarifier tank, forming and pouring new concrete troughs, and replacing deteriorated piping and vales. The chemical feed systems are being upgraded, including the liquid chlorine system. That process is required to disinfect the finished wastewater effluent so it can meet the State standards for reclaimed water.

South Central Wastewater Treatment

Expansion continues, with the work reaching approximately the 75% completion level. The Maintenance Building and all of the new treatment structures have been formed, built and rough-finished, except for the new combined headworks structure. Structure had reached the 52-foot elevation by the end of Q2 and should be completed soon.



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EMERGENCY MANAGEMENT OPERATIONS

Special Needs Registry Migration

Completed registry migration to the AlertBrevard platform. The new registry increases operational capabilities, offers a more user friendly experience to health care partners, and will allow for better service to be delivered to the clients. Brevard County is serving as a statewide pilot for the utilization of the AlertFlorida platform as a special needs registry.

Governor's Hurricane Conference Presentation

Presented on how to build a locally developed sheltering program and the Brevard Emergency Support Team (BEST) to emergency management professionals from across the country. The BEST program was widely praised for its comprehensiveness, ingenuity and recognized as a best practice. Emergency managers from other counties and states requested additional information on the program so that they can incorporate BEST concepts into the programs they are building in their jurisdictions.

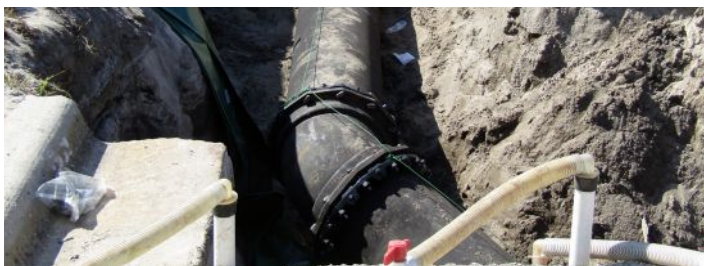
UTILITIES SERVICES EXTENSION/REPLACEMENT

North Courtenay Parkway Wastewater Utilities

Work extending wastewater utilities from Hall Road to Church Road in Merritt Island has been completed. For efficiency, the contract provided for installation of a new sanitary sewer force main and a new parallel reclaimed water line. Any future developments in this area will be able to connect to the sewer line and also provide reuse for neighborhood irrigation. Both of the new lines are part of the County's Sykes Creek Regional Wastewater Treatment Facility.

South Patrick Force Main

Replacing the South Patrick Drive PVC force main in Indian Harbour Beach has been completed. To ensure that the pipe could not push apart and cause sewage overflows, a special type of Ductile Iron Pipe (DIP) was used. Each joint of the 20" and 24" diameter force main now includes an integral locking mechanism to prevent pipe movement and failure. The old PVC force main was evacuated and then filled with neat cement grout to ensure it will not cause problems in the future.



SPACE COAST AREA TRANSIT SPECIAL SERVICES

**Rider's Guide for Special Services**

View a special public transportation guide for eligible seniors and transportation disadvantaged.

- Access the guide online at 321Transit.com/SpecialServicesGuide
- To receive a copy by mail, call the Rideline at 321-633-1878

National Dump the Pump Day

Free bus rides were offered all day on June 21st to anyone who showed a bus operator the 321Transit app on their mobile device.

- For every \$1 invested in public transportation, \$4 is received in economic returns

UF/FAS BREVARD EXTENSION OFFICE EVENT

22nd World's Greatest Baby Shower

Event aimed at informing expectant, adoptive, and new parents of the services that are available to support healthy pregnancies, births, and positive family relations. Over 35 vendors provided those in attendance with information on how they could help. In addition, 4 mini-seminars were presented, including an Ask a Doc panel, Baby blues vs postpartum depression, safe sleep, and child passenger safety. Financially supported by Rockledge Regional Medical Center.

- **Date Held:** May 12 at the Viera Regional Community Center
- **Attendees:** 163 moms and 159 additional family members and friends
- **Coordinated by:** UF/IFAS Extension Brevard County office, Healthy Start of Brevard, Inc., and 2-1-1 Brevard/Help Me Grow

MOSQUITO CONTROL REPAIRS/OUTREACH

Impoundment Repairs

Completed timely repairs of nearly 15,000 linear feet of hurricane damaged mosquito impoundments, which is approximately 1/3 of all hurricane damage incurred by the impoundments countywide. Mosquito impoundments are saltwater marshes with earthen dikes around the perimeter; they allow artificial flooding during the mosquito breeding season. Mosquito impoundments are an effective and natural method to control the mosquito population through breeding source reduction. Brevard Mosquito Control maintains 28,000 acres (44 sq. miles) of impounded wetlands.

Educational Outreach

On May 19, 2018, Mosquito Control presented educational exhibits at two outdoor community events. Outreach staff educated park visitors on mosquito management and associated disease prevention with live mosquitoes, sample mosquito breeding containers, mosquito control vehicles, and associated literature.

- 10th Annual Space Coast Waterfest at Kiwanis Island Park on Merritt Island
- 1st Annual Touch-a-Truck event at Sand Point Park in Titusville

BLACK HISTORY MONTH

Brevard County Government's Team Diversity paid host in February to a packed-house celebration for Black History Month, which paid tribute to African Americans Who Served In Times of War.

The event highlighted County Government veterans, drawing a standing-room-only crowd into the Board of County Commissioner's

Chambers at the Government Center in Viera. The event included performers, the Viera High School Color Guard, recognition of County Government's African American veterans and all employees who served in the Armed Forces. A moving recitation of Dr. Martin Luther King Jr.'s, "I Have a

Dream" speech was performed by U.S. Army (retired) veteran Leonard Ross and keynote guest speaker Eugene Johnson, the first African American to be inducted into the Florida Veterans Hall of Fame in 2017 by Gov. Rick Scott, talked about the history of African Americans in times of war.

A big highlight of the event was audio recordings in which African American veterans who work for the County talked about dealing with racial obstacles and integration struggles while serving the Country. Step team and praise dance performances were conducted by Emma Jewel Charter Academy and Life Center Academy.



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EMERGENCY MANAGEMENT RADIO SYSTEM

800 MHz Public Safety Radio System

Completed the implementation of a redundant VIDA (Voice, Interoperability, Data and Access) Switch providing the core for the adoption of P25 standards and interoperable communication.

EMERGENCY MANAGEMENT E-911

AT&T Network Migration

Completed migration to the new i3 standard, this migration will allow for Text-to-911 in the future. Internal testing of this system will be ongoing throughout the summer.

PARKS & RECREATION TITUSVILLE | NORTH AREA

Movie in the Park • Coco

- **Date:** April 28, 2018
- **Estimated Attendance:** 100

Touch-a-Truck Event

- **Date:** May 19, 2018
- **Estimated Attendance:** 1,000



PARKS & RECREATION COCOA | CENTRAL AREA

School's Out for the Summer Event

- **Date:** May 23, 2018
- **Estimated Attendance:** 400

PARKS & RECREATION MELBOURNE BEACH | SOUTH AREA

South Beach Community Center

Replaced HVAC units.

- **Cost:** \$79,810
- **Funding:** S. Special District Ad Valorem, User Fees and Balance Forward

Flutie Athletic Complex

Repaired hurricane damaged backstop.

- **Cost:** \$11,409
- **Funding:** S. Special District Ad Valorem, User Fees

Coconut Point Park

Installed new composite park entry sign.

- **Cost:** \$4,900
- **Funding:** Beach and Riverfront Grant

PARKS & RECREATION MELBOURNE | SOUTH AREA

Lake Washington Boat Dock

Repaired dock

- **Cost:** \$5,897
- **Funding:** Parks and Recreation Budget – General Fund

Rotary Park Suntree

Re-decked small pavilions

- **Cost:** \$4,500
- **Funding:** S. Special District Ad Valorem, User Fees



PARKS & RECREATION SOUTH BREVARD | SOUTH AREA

Sealing of all Split Face Block Buildings

- **Cost:** \$11,409
- **Funding:** S. Special District Ad Valorem, User Fees

WHOSE LIFE WILL YOU SAVE TODAY?

Brevard County Fire Rescue Launches PulsePoint Application



In March, Brevard County Fire Rescue (BCFR) launched PulsePoint, a mobile application that can provide bystander CPR and Automated External Defibrillator (AED) assistance to those in immediate need.

PulsePoint works by notifying application users, including trained citizens, visitors and healthcare professionals, if someone nearby is having a cardiac emergency, while local paramedics and firefighters are simultaneously dispatched. The app also directs citizen rescuers to the exact location of the closest publicly accessible AED.

Cardiac arrest is a leading

cause of death in the United States, accounting for an estimated 424,000 deaths each year, or more than 1,000 deaths per day. The American Heart Association estimates that effective bystander CPR, provided immediately after cardiac arrest, can double or triple a person's chance of survival. However, less than half of cardiac arrest victims receive bystander CPR, or CPR administered by a trained person on scene, or the use of an AED.

"With such a short window of opportunity in cardiac arrest cases, early CPR and defibrillation is the key to survival. Brevard

County Fire Rescue and our municipal partners are committed to improving the chain of survival," said Brevard County Fire Chief Mark Schollmeyer, "and ultimately positive cardiac arrest outcomes, through the use of technology and citizen engagement."

By bringing the PulsePoint App to Brevard, our county will now join the ranks of the various other municipalities and counties throughout the country currently utilizing PulsePoint, including Los Angeles and San Diego County, the District of Columbia, the city of Madison, Wisconsin and our neighbors in Orlando.

Brevard County Fire Rescue

was able to initiate the PulsePoint project and application launch with the receipt of the State of Florida EMS Trust Award. Through which, Brevard County Fire Rescue was awarded \$23,000 of initial funding, and \$13,000 of funding per year guaranteed for the next 5 years. Much of the funding for the EMS Trust Award comes from fines collected by the State of Florida through traffic tickets.

PulsePoint and Brevard County Fire Rescue, along with our partner agencies, are providing the community with a unique opportunity to build a partnership between citizens and first responders. Through this collaboration, BCFR is determined to bring immediate CPR and AED assistance to anyone in need.

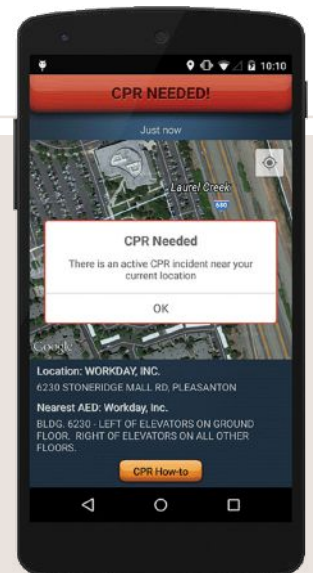
To learn more about PulsePoint or how your agency can be involved, visit pulsepoint.org.

The PulsePoint mobile app alerts CPR-trained bystanders to someone nearby having a sudden cardiac arrest that may require CPR. The app is activated by the local public safety communications center simultaneous with the dispatch of local fire and EMS resources. The purpose of the app is to increase the survival rates of cardiac arrest victims by:

- Reducing collapse-to-CPR times by increasing citizen awareness of cardiac events beyond a traditional "witnessed" area.
- Reducing collapse-to-defibrillation times by increasing awareness of public access defibrillator (AED) locations through real-time mapping of nearby devices.
- The app is only activated if the event is occurring in a public place (the app is not activated for residential addresses).

In addition to the Life-saving CPR/AED functionality, the app provides a virtual window into fire and EMS activity in the community, offering a unique opportunity for civic engagement and transparency.

Learn More at: www.pulsepoint.org/pulsepoint-respond



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COUNTY PROJECTS COMPLETED

PARKS & RECREATION GRANT/VALKARIA | SOUTH AREA

South Mainland Community Center

Painted center and gym building.

■ **Cost:** \$26,200

■ **Funding:** Special District Ad Valorem, User Fees

Fisherman's Landing

Painted restroom building

■ **Cost:** \$1,000

■ **Funding:** Special District Ad Valorem, User Fees

Replaced hurricane damaged roof.

■ **Cost:** \$25,685

■ **Funding:** Special District Ad Valorem, User Fees

Replaced land bridge to train depot.

■ **Cost:** \$7,000

■ **Funding:** Special District Ad Valorem, User Fees



FISHERMAN'S LANDING RESTROOM

LIBRARY SERVICES RENOVATIONS AND REPAIRS

Dr. Martin Luther King, Jr. Library

Completed repairs to roof and stucco around the clearstory windows.

■ **Cost:** \$272,621

■ **Funding:** Capital budget, which is funded by ad valorem taxes

Satellite Beach Public Library

Repairs to library's air handlers, dampers, and ductwork; roof replacement completed.

■ **Completion Date:** April 2018

■ **Cost:** Repairs/\$309,044; Roof/\$311,073

■ **Funding:** Capital budget, which is funded by ad valorem taxes

Palm Bay Public Library

Roof replaced.

■ **Completion Date:** March 2018

■ **Cost:** \$193,145

■ **Funding:** Capital budget, which is funded by ad valorem taxes



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WICKHAM PARK COMMUNITY CENTER

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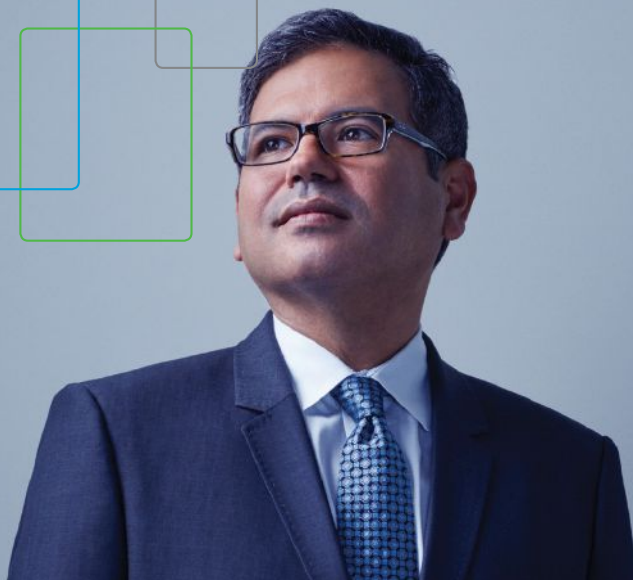
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GRILLING or CAMPING

Propane tanks should not be placed in curbside recycling or garbage carts.

There is always the possibility that a small amount of gas remains. When the tank is compressed in the truck; it could explode and cause a fire or explosion. Return propane tanks to point of sale for refill or dispose at one of the County's Household Hazardous Waste Collection Centers, Monday – Friday, 8am – 4pm:

- **Mockingbird Way Mulching Facility,**
3600 South Street, Titusville
- **Central Disposal Facility,**
2250 Adamson Road, Cocoa
- **Sarno Road Landfill,**
3379 Sarno Road, Melbourne



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Hurricane Season Roundup

Preparedness Checklist



For residents in unincorporated Brevard County, Cocoa, Cocoa Beach, Indialantic, Indian Harbour Beach, Malabar, Melbourne, Palm Bay, Satellite Beach, and West Melbourne.

BEFORE THE STORM:



Stop all **yard maintenance** and **tree trimming** activities. Trees should be trimmed at the start of hurricane season, not right before a storm.



Secure all **garbage** and **recycling containers** in a location away from open spaces.



Bundle and **tie down** all **loose garbage**, such as tree limbs. Place any loose materials in a secure location that may become hazardous to homes and vehicles in high winds.



Do not place bulk items curbside until after the storm passes.



Waste Management will continue to collect household garbage and recycling until sustainable **winds reach 35 miles** per hour or local authorities instruct Waste Management to suspend service.

AFTER THE STORM:



If a Hurricane does directly impact our area, you **must separate** normal **household garbage** such as food refuse **from storm debris** caused by high winds and rain. Storm debris including tree limbs, carpet, wood fencing, and roof tiles should be placed curbside in a separate pile.



Separating normal household garbage from storm debris will allow Waste Management employees to **collect your household garbage more quickly and safely**. The separation is also

necessary because other firms independent from Waste Management will be authorized to collect your storm debris in accordance with arrangements made by local municipalities and/or the County.



Waste Management will restart curbside garbage, recycling and containerized yard waste collection as soon as **local authorities deem it safe** for our trucks to be on the road.

Once a storm strikes turn to **wm.com** for timely information about collection service.

DID YOU KNOW?

A **hurricane** is defined as a tropical cyclone with sustained winds that have reached **speeds of 74 mph or higher**. Above is a list of items to consider when preparing your family and home.

Waste Management
Customer Service Department:

North Brevard ■ (321) 636-6894

South Brevard ■ (321) 723-4455

Email: centralfloridaservice@wm.com

wm.com

UTILITIES SERVICES REPLACEMENT



Lift Station J-2

Work has begun to replace the failing sewer lift station near the intersection of US 1 and Fay Boulevard in Port St. John. Work in such a limited area required the use of the caisson method. As soil is removed from the center of the concrete structure with a special excavating machine, the precast concrete sections sink into the ground. New sections are stacked on top, aligning with precast grooves, and the process continues until the final section is installed. The new wet well "tank" is completed by placing cement from the bottom up, by the tremie method. This process serves several purposes, providing required ballast for the wet well and forming the concrete floor that will ultimately be finished for mounting the submersible pumps.

EMERGENCY MANAGEMENT RADIO SYSTEM

800 MHz Tower to Improve Radio Communications

Finalized plans for construction of a public safety radio system tower in Cocoa Beach. Plan to break ground in June. When tower is completed, it will join the Indian Harbour Beach tower in a beachside simulcast system, providing better radio communication ability for firefighters and law enforcement throughout Brevard's beachside communities

EMERGENCY MANAGEMENT E911 ADDRESS ASSIGNMENT

911 Recording System

Developed requirements for a new digital 911-call-recording and radio-traffic-recording system. This system will transition all Public Safety Answering Points to a centralized, modernized, and more cost-effective solution for obtaining and providing recordings to the public, attorneys, and public safety agencies.



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SPACE COAST AREA TRANSIT NEW BUSES/NEW ROUTE



New Gillig Buses

Received 4 new federally funded 30' Gillig Buses with state-of-the-art features. Each new bus features 3 wheelchair stations and factory installed HD video cameras

New Route Added

A Heritage/West Melbourne bus route funded by FDOT will begin operating in late summer, utilizing the new St. Johns Heritage Parkway. Some scheduled stops include Heritage High, Goodwill, the Field of Dreams, Promise of Brevard, Melbourne Square Mall, and Hammock Landing

LIBRARY SERVICES RENOVATIONS AND REPAIRS

Catherine Schweinsberg Rood Central Library

Five of the 99,000 square-foot six flat roofs will be repaired, along with the tire roof areas. Project began in May 2018 and will continue into the next fiscal year.

■ **Cost:** Estimated at \$1,113,124

■ **Funding:** Capital budget, which is funded by ad valorem taxes

Interior wall construction and renovation in library's Creative Lab

■ **Cost:** Estimated at \$30,948

■ **Funding:** Impact Fee Funds

Eau Gallie Public Library

Roof is being replaced.

■ **Completion Date:** September 2018

■ **Cost:** \$193,145

■ **Funding:** Capital budget, which is funded by ad valorem taxes



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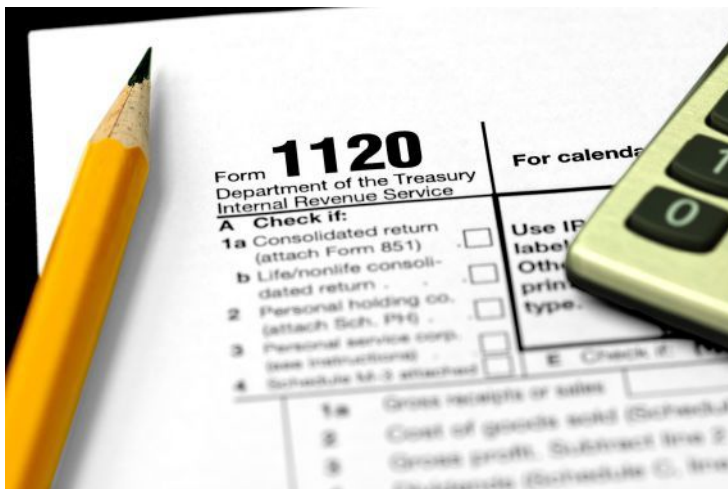
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PARKS & RECREATION MERRITT ISLAND | "EEL" PROGRAM

Sams House at Pine Island

Constructing new pioneer nature pathway

- **Projected Start Date:** June 2018
- **Cost:** \$20,000
- **Funding:** Meet Me at the Park Earth Month Grant

PARKS & RECREATION GRANT VALKARIA | SOUTH AREA

Micco Park

Receiving a new replacement playground

- **Projected Start Date:** August 2018
- **Cost:** \$68,000
- **Funding:** S. Special District Ad Valorem, User Fees and Balance Forward

Jorgenens Landing

Installing new composite park entry sign

- **Projected Start Date:** June 2018
- **Cost:** \$4,763
- **Funding:** Beach and Riverfront Grant

PARKS & RECREATION SATELLITE BEACH | SOUTH AREA

Seagull Park

Installing new composite park entry sign

- **Projected Start Date:** June 2018
- **Cost:** \$4,763
- **Funding:** S. Special District Ad Valorem, User Fees

PARKS & RECREATION MELBOURNE/VIERA | SOUTH AREA

Viera Regional Park

15 acre conversion from turf to Astroturf

- **Projected Start Date:** May 2018

PARKS & RECREATION MELBOURNE | SOUTH AREA

Rodes Park

Installing new Musco field lighting

- **Projected Start Date:** July 2018
- **Cost:** \$186,200
- **Funding:** District Ad Valorem, User Fees and Balance Forward

New Replacement Playground Lake Washington Park

- **Projected Start Date:** August 2018
- **Cost:** \$52,000 (additional cost for new fencing)
- **Funding:** S. Special District Ad Valorem, User Fees and Balance Forward

Howard E. Futch at Paradise Beach

Installing new composite park entry sign

- **Projected Start Date:** June 2018
- **Cost:** \$4,763
- **Funding:** S. Special District Ad Valorem, User Fees

PARKS & RECREATION MELBOURNE BEACH | SOUTH AREA

South Beach Community Center

Painting

- **Projected Start Date:** August 2018
- **Cost:** \$7,700
- **Funding:** S. Special District Ad Valorem, User Fees



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PUBLIC WORKS CAPITAL IMPROVEMENTS

Wickham Road and Interlachen Road Intersection Improvements

District 4: Design has been completed to improve the overall functionality of the intersection. The roadway work will be performed by Brevard County Public Works Road and Bridge Construction. The County will utilize term contractors to perform the signalization components of this project. It is anticipated that this joint effort of County forces and term contractors will result in a significant cost and time savings. The proposed improvements consist of upgrading the existing single northbound left-turn lane to a dual northbound left-turn lane from Interlachen Road onto Wickham Road, constructing a new southbound left turn-lane from Interlachen Road into the Suntree Square Shopping Center, and replacing the existing traffic signal strain poles with four new mast arms.

■ **Estimated Start Date:** June 2018

Pineda Causeway Overpass

District 4: Major items of work include the construction of a grade separated overpass at the Florida East Coast Railway. Project awarded to SEMA Construction, Inc. The project is approximately 0.5 mile long and will take place between Wickham Road and US1 interchange with Pineda Causeway. Please be advised of significant impacts to the traveling public within the project's vicinity during construction of the overpass.

■ **Estimated Start Date:** July 2018



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