



DRAFT
MEETING MINUTES
CITY OF FORT LAUDERDALE
INFRASTRUCTURE TASK FORCE ADVISORY COMMITTEE
VIRTUAL MEETING

CITY OF FORT LAUDERDALE

MONDAY, MAY 3, 2021 – 2:00 P.M. TO 5:00 P.M.

<u>February 2021-January 2022</u>		<u>Attendance</u>	
Marilyn Mammano, Chair	P	4	0
Gerald Angeli	P	4	0
Shane Grabski	P	4	0
Charlie Ladd (arr. 3:31)	P	3	1
Michael Marshall	P	3	1
Peter Partington	P	4	0
Jacquelyn Scott	P	4	0
Roosevelt Walters	P	4	0
Ralph Zeltman	P	4	0

As of this date, there are 9 appointed members to the Committee, which means 5 would constitute a quorum.

Staff

- Raj Verma, Director of Public Works
- Aneisha Daniel, Deputy Director of Public Works
- Dr. Nancy Gassman, Assistant Director of Public Works – Sustainability
- Talal Abi-Karam, Assistant Director of Public Works – Utilities
- Victor Carosi, Assistant Director of Public Works -- Engineering
- Omar Castellon, Chief Engineer
- Jill Prizlee, Chief Engineer
- Pauline Ricketts, Senior Administrative Assistant
- Daphnee Sainvil, Government and External Affairs Manager
- Kymerly Holcombe, Business Operations Manager
- Igor Vassiliev, Project Engineer
- Gary Brandy, Distribution & Collection Supervisor
- Dronix Suarez, Project Manager II
- Crysta Parkinson, Recording Secretary, Prototype, Inc.

Communication to the City Commission

Motion made by Mr. Partington, seconded by Ms. Scott, that the Infrastructure Task Force does not consider that a development moratorium related to infrastructure is necessary at this time; however, the City should consider the condition of the water, sewer, and stormwater infrastructure impacted by developments in addition to the capacity of impacted infrastructure, and that the Ordinance currently governing development should be amended to include explicit consideration of condition of infrastructure. In a roll call vote, the **motion** passed unanimously (9-0).

Motion made by Chair Mammano, seconded by Ms. Scott, to forward this as a communication to the City Commission and request a workshop with them to discuss the recommendation and the next steps for the Infrastructure Task Force Committee. In a roll call vote, the **motion** passed unanimously (9-0).

1. Call to Order

i. Roll Call

Chair Mammano called the meeting to order at 2:10 p.m. and roll was called.

ii. Approval of Agenda

Chair Mammano requested that Item 5 be heard at the beginning of today's meeting.

Motion made by Ms. Scott, seconded by Mr. Zeltman, to approve the Agenda. [The **motion** passed by unanimous consent.]

5. New Business

i. Infrastructure Bill – City Lobbyist

Government and External Affairs Manager Daphnee Sainvil introduced herself to the Committee, explaining that her role with the City is to serve as in-house lobbyist. She oversees both state and federal lobbying duties for Fort Lauderdale on all subjects.

The City has made a number of federal earmark appropriation requests, including one for the Downtown Fort Lauderdale stormwater tidal valve project. This request was not advanced by Congresswoman Debbie Wasserman-Schultz, although Congressman Ted Deutch requested a joint water infrastructure package between Fort Lauderdale, Oakland Park, and Wilton Manors for \$900,000. This would fund an upgrade and efficiency project for water and wastewater systems provide connectivity between the municipalities, and would address sea level rise, extreme weather, and rising temperature. The City has not yet received word of where this request stands.

Chair Mammano requested clarification of the reason Congresswoman Wasserman-Schultz had not submitted the City's earmark requests. Ms. Sainvil explained that these requests did not lie within the Congresswoman's own district. The City had asked her to take projects from the late Congressman Alcee Hastings' district into consideration as well. It was noted that each Representative may submit no more than 10 earmark requests.

Ms. Sainvil explained that the earmarks through Representatives' offices are unrelated to funding from the American Rescue Plan: they are instead a separate funding source that

is set aside for Congressional Representatives. While the state of Florida received \$10.2 billion and Fort Lauderdale \$39.6 million from the American Rescue Plan, these dollars have already been allocated, with the majority intended to recoup losses in the City's general revenue.

Regarding other transportation, water, and wastewater infrastructure projects, the City is seeking grant funding that they may provide to small businesses which are still suffering from the effects of the pandemic. These funds may cover personal protective equipment (PPE) and other COVID-19-related expenses. The City has aggressively sought both funding and earmarks; however, there are some funding sources for which certain infrastructure projects are not eligible.

ii. Proposed State Bill – Municipalities' ability to collect Impact Fees

Chair Mammano requested an update on the status of Florida House Bill (HB) 337. Ms. Sainvil explained that this bill requires local governments and special tax districts to credit any contributions related to public facilities or infrastructure against the collection of impact fees. It also specifies conditions for which credits cannot be applied and addresses how local governments vote on impact fees. The bill is currently awaiting the Governor's signature.

Some of the changes in HB 337 include:

- Provision for a supermajority vote when local governments need to increase their impact fees
- Restricts increase of impact fees to 50% or less, applied in two equal 25% increments
- Fee increase limitations are retroactive to January 1, 2021
- In order to increase impact fees beyond 50%, local governments or special districts must apply a rational nexus test, or a study showing extraordinary circumstances that require the increase; this requires a 2/3 majority vote
- Impact fees cannot be increased retroactively for the previous or current fiscal or calendar year

Ms. Sainvil stated that she will have to review the final analysis of this bill, as a number of amendments were filed during the last week of the Florida legislative session. The bill is expected to have a significant impact on local governments.

Director of Public Works Raj Verma advised that he has worked closely with Ms. Sainvil with regard to infrastructure, and they believe that the City's impact fees are adequate at the moment, based on recent studies; however, they do not know what may happen in the future, which is why they conceptually opposed HB 337. He pointed out that the City does not set its impact fees arbitrarily: they must be preceded by an analysis of needs as well as of how rates are set.

Mr. Verma continued that smaller municipalities have a tendency to impose their impact fees arbitrarily, which may have affected HB 337. He noted that the analyses establishing the City's rates were very thorough. He also pointed out that on occasion, developers offer to provide certain improvements to expedite their projects or to act as good neighbors. These improvements are made on a voluntary basis and are over and above what the City may ask them to do.

Mr. Verma advised that he has discussed this issue extensively with the City's financial analysts, who conduct the studies that determine the City's impact fees. While HB 337 is new and has not yet been tested in court, he was informed that if a development causes the City to increase the size of its infrastructure, such as a pipe or pump station, and this increase was not accounted for at the time the impact fee was established, the City may ask for this increase without providing a credit.

Chair Mammano observed that the bill is likely to be addressed through the court system. Ms. Sainvil confirmed that the bill is expected to be signed into law by the Governor.

The Committee returned to discussion of infrastructure funding, with Ms. Sainvil pointing out that the City received \$10.5 million for a stormwater project in the Durrs neighborhood. This funding comes from the state, and is a combination of Community Development Block Grant (CDBG) and other grant dollars. The City received the full amount requested. Mr. Verma recognized the efforts of Ms. Sainvil and Public Works Staff in submitting this project. The City has also received a \$500,000 grant to improve seawalls on Hendricks Isle, although not all details are available at this time.

Ms. Scott asked how many federal lobbyists are employed by the City. Ms. Sainvil replied that there is one federal advocate at present, with three at the state level. The City is preparing a request for proposal (RFP) to consider new federal and state lobbyists. It has not yet been determined if they will retain their current lobbyists or change to new firms. She will serve on the ranking committee that evaluates respondents' qualifications.

Mr. Partington addressed the grant funding for the Durrs community, asking if this \$10.5 million will free up the same amount within the City's stormwater bond. Mr. Verma replied that the \$200 million stormwater bond covers only seven neighborhoods: the grant funds will allow the City to use its own \$10.5 million toward a more pressing need in another neighborhood, or to add more projects accordingly.

Chair Mammano recalled that the Committee had recently recommended to the City Commission that any funds reallocated due to the use of transportation surtax dollars be reapportioned for other transportation projects rather than assigned to non-transportation projects. Mr. Verma emphasized that Staff is aware of and follows this procedure.

Mr. Walters asked if HB 337 will affect impact fees across different types of infrastructure, including stormwater, wastewater, transportation, affordable housing, and other issues. Ms. Sainvil confirmed that the bill will affect impact fees across multiple programs. Mr.

Walters also requested additional information on how the \$900,000 in joint funding would be divided between the cities of Fort Lauderdale, Oakland Park, and Wilton Manors. Ms. Sainvil replied that this is not yet known, although it is likely the funds will either be divided equally among the three cities or according to the costs of implementation for the joint project.

Ms. Sainvil and Mr. Verma left the meeting at 2:44 p.m.

The Committee returned to Item 1.iii at this time.

iii. Approval of Previous Meeting Minutes April 5, 2021

Motion made by Mr. Walters, seconded by Mr. Partington, to approve the meeting minutes. In a voice vote, the **motion** passed unanimously.

2. General Discussion and Comments by Committee Members

Mr. Partington stated that at the May 4, 2021 City Commission meeting, a contract for \$2.95 million will be awarded for a deep well power project. The description of this item suggests that one of the City's five injection wells at the George T. Lohmeyer Wastewater Treatment Plant may become nonfunctional in the near future. He expressed concern with this possibility, noting that the Reiss report indicated the City is in need of another injection well. The contract would cover electrical work related to the injection wells.

Victor Carosi, Assistant Director of Public Works (Engineering), stated that the concern is not losing a well but losing the ability to remotely operate that well. The issue is in the electrical wiring that enables the movement of pumps through different wells by a control center. He emphasized that the function of the well itself is not at stake. Control still retains ability to operate the wells manually; however, this is a labor-intensive process, and the intent of the contract is to return to the automation process that allows the wells to be properly rotated.

Mr. Zeltman observed that there should be an emergency backup system once the compromised electrical line is replaced so the wells can be operated if an unexpected event occurs. He added that hopefully the aggressive replacement or repair of the gravity sewer lining, which is allowing the intrusion of significant groundwater, may delay the necessity for a sixth well farther into the future, if at all.

3. Public Comments (At Each Item)

Public comments were heard as each Item is discussed.

4. Old Business

i. Continued Discussion on Developing Moratorium

Resolution Statement – *To evaluate and provide a recommendation on the feasibility and impact of implementing a moratorium on the acceptance of an application for or issuance of a development permit within the City.*

Chair Mammano noted that at one point, the Committee had addressed the possibility of having a workshop with the City Commission prior to summer 2021 to discuss their recommendation regarding a moratorium. She recalled that she had prepared an outline of the issues on which the Committee may make recommendations. In addition, they have reviewed the spreadsheet used by Staff to evaluate projects that are currently underway.

Chair Mammano advised that the Committee may make one of three recommendations:

- No recommendation for a moratorium on the acceptance of applications for permits
- Recommendation in favor of this moratorium
- No need for a recommended moratorium if certain adjustments are made

Ms. Scott commented that she would like clarification of whether the Committee is discussing commercial buildings, including multi-family development, or single-family development only. She asked if they may make a recommendation for a moratorium on the development of some types of properties but not others, as she did not feel a moratorium was necessary for single-family homes.

Chair Mammano stated that during the moratorium discussion, the Assistant City Attorney had framed the issue as follows: if the Committee has identified a situation so significant that the City cannot meet its infrastructure requirements, a moratorium would be justified on some or all of the projects that are contributing to the issue. Ms. Scott pointed out that this may also apply to projects in an affected area. Chair Mammano observed that there is not sufficient evidence to suggest a moratorium, although there may be material information that suggests a moratorium may be necessary on particular developments in certain places.

Ms. Scott explained that what has been a concern for her is the condition of pump stations and other infrastructure in certain areas. She felt this was not closely considered when determinations are made on adequacy, as condition is not an aspect of the governing Ordinance. Mr. Partington agreed, stating that while the capacity of this infrastructure was taken into consideration, its condition was not. He also recalled that the Assistant City Attorney had identified one possible approach as implementing a moratorium that would allow for time to review and update the processes by which developments are examined; however, this would require expert testimony stating that development should be halted during this review.

Mr. Zeltman commented that he has seen moratoriums issued based upon the lack of capacity at a water treatment plant to meet the demand created by new developments. If large developments are being submitted and the system is approaching the limits of its capacity, a moratorium would allow provisions to be made to increase the capacity of the

plant. Chair Mammano noted that there has been no indication, however, that the system is approaching the limits of its capacity with regard to water. Mr. Zeltman continued that wastewater also presents a capacity issue that could affect the possibility of a moratorium.

Mr. Angeli advised that he was convinced of the ability of City Staff and City officials to review and make knowledgeable decisions about the impact that new construction will have on the community and its infrastructure. He also felt that condition should be a part of this analysis. He was not certain, however, of how well Staff follows up on whether or not the developer properly completes any action they are asked to take.

Mr. Marshall stated that he has not seen information that leads him to believe there is a capacity issue, or that Staff has not sufficiently required improvements to address capacity or service needs. He had, however, seen evidence of deferred maintenance, as well as weak points in the system that are not related to new development. He did not believe these issues could justify a moratorium in light of the consequences of shutting down development, and noted that the City is taking steps to correct these repair and maintenance issues.

Chair Mammano requested clarification of Mr. Marshall's concern for weak points in the system. Mr. Marshall explained that the Committee has seen instances in which pipes or lift stations are compromised and functioning at subpar levels. He felt the weak points were individual rather than systematic, and the City was not at a place where a moratorium was the best way to address these needs.

Mr. Grabski commented that there has been significant evolution of the City's water and wastewater adequacy letters in the past few years. He also agreed that further conditional analysis is necessary, and did not know the best way to explore this issue. He was not certain that there is an existing condition anywhere in the City that would require a temporary moratorium on development in that area. He pointed out that there are other means of identifying conditional issues, such as the City's valve exercise program, fire flow tests, and other testing that may be implemented to ensure that flows are sufficient and there are no existing issues.

Ms. Scott stated that she was prepared to support moving forward without a moratorium, acknowledging that Staff does a remarkable job; however, she recommended that the City revisit the Ordinance governing the issuance of capacity letters and fully ensure that condition is addressed.

Mr. Partington suggested that the Committee consider making a motion that would recommend the City Commission direct Staff to review and perhaps modify their development review process for water and sewer adequacy, with the intent of explicitly addressing the condition of this infrastructure. Another possibility might be for the Committee to make its own motion to this effect, and ask Staff to rework one of its most recent adequacy letters with a closer consideration of condition. He expressed concern

that the Staff members addressing capacity may not have the most up-to-date information regarding the condition of this infrastructure.

Mr. Walters added that if the Committee does not recommend a moratorium, they should let the Commission know it is necessary to put policy in place to ensure that Staff takes all necessary steps to identify potential problems in the future. He also recommended that the Committee use language similar to Staff's when referring to time frames, including terms such as "temporary," "permanent," "short-term," and "long-term," emphasizing that these terms are not interchangeable. Mr. Zeltman agreed with Mr. Walters' reference to language, suggesting that this could be made even more definitive, specifying exact timespans such as three, five, ten, or more years.

Ms. Scott noted that the adequacy statements issued by Staff are governed by an Ordinance that dictates how they are expected to evaluate condition. Chair Mammano observed that this Ordinance was discussed at a previous meeting and includes several subcategories. The Committee has only dealt with water, sewer, and stormwater.

Chair Mammano continued that Staff uses a spreadsheet reflecting these categories to determine adequacy, evaluating all projects on the basis of whether or not they will place significant new impact on pump stations. There was no mention of other infrastructure, such as pipes, on the spreadsheet. Ms. Scott agreed, asserting that evaluation of this additional infrastructure needs to be incorporated into the subject Ordinance.

Mr. Partington also felt the strongest method, short of a moratorium, to ensure condition is carefully considered would be to include it in the Ordinance. Chair Mammano proposed that the Committee invite a representative from the City Attorney's Office to attend their next meeting and make recommendations on how the existing Ordinance might be modified to incorporate a closer focus on condition. There was Committee consensus in favor of this option.

Motion made by Mr. Partington, seconded by Ms. Scott, that the City should consider the condition of the water, sewer, and stormwater infrastructure impacted by developments in addition to the capacity of impacted infrastructure, and that the Ordinance currently governing development should be amended to include explicit consideration of condition of infrastructure.

Mr. Marshall advised that while Staff reviews the condition of the City's aging infrastructure as part of the development review process, he also felt they should look at the condition of this infrastructure anyway, absent pending development or the submission of a development application. If aging infrastructure does not adequately support existing development, he did not feel the responsibility for improving that infrastructure should be placed on a single applicant who wishes to bring in new development.

Mr. Marshall continued that the **motion** currently on the floor asks Staff to consider and report upon the condition of affected infrastructure; however, his recommendation is that instead of having new development address a percentage of any deficiency, the City should keep up with this information so maintenance dollars can be directed to address the deficiencies. Ms. Scott pointed out, however, that if the condition of certain infrastructure is deemed deficient, it would be difficult for the Planning and Zoning Board (PZB) members to approve an application in that area. She felt it was the Committee's job to review findings and make a recommendation, not to propose how these findings might be addressed by the City.

Mr. Partington advised that it is very difficult for an expert to determine whether or not a particular development would cause high-risk infrastructure to fail. He noted that if the development review process makes no mention of the condition of infrastructure on which additional load is being placed, the PZB and City Commission could point out that they were not informed of the risk to infrastructure by a development. He reiterated that an expert would not be able to state with confidence that the demand from a new project would cause the high-risk infrastructure to fail.

Chair Mammano asked if identification of a problem with a particular area of the City's infrastructure would cause the PZB to deny an application. Ms. Scott explained that applications go before the City's Development Review Committee (DRC) prior to coming before the PZB. By the time the application comes to DRC, Staff will have already determined whether or not there is an issue with existing infrastructure, and will need to make plans to address this issue. An application in an area with high-risk infrastructure would be unlikely to come before the PZB without plans for the risk to be corrected.

Mr. Zeltman stated that a moratorium would most likely be issued only by a regulatory agency mandate imposed upon a utility company, rather than a recommendation issued by the City. He emphasized the importance of a provision that would take the condition of the City's aging pipes, some of which may be 50 to 70 years old, into consideration and mandate the City to take action before a regulatory agency imposes a Consent Order upon it to maintain and replace this infrastructure.

Mr. Ladd joined the meeting at 3:31 p.m.

The Committee further discussed the **motion** on the floor, with Mr. Ladd asking if the **motion** did not simply return the issue to the City Commission. Chair Mammano asserted that the **motion** was a response to the Commission's request that the Committee make a recommendation: their recommendation is not for a moratorium, but that the Ordinance be reviewed to specifically include condition along with capacity.

In a roll call vote, the **motion** passed unanimously (9-0).

Chair Mammano stated that the **motion** would be sent as a communication to the City Commission, and may be followed up by a workshop with the Commission so the

Committee can provide more information on how they came to their recommendation. She added that the Committee can also ask how the Commission asks them to move forward following their recommendation.

It was determined that the Committee has not addressed sidewalk condition, and that some items covered by the Ordinance, including traffic, parks, and Police, lie outside the Committee's purview. Mr. Zeltman recalled that in 2015, the City developed a program for the repair/replacement of sidewalks, as problems had occurred as a result of expanding tree roots. He suggested that the Committee continue this effort to address recurring sidewalk damage. Ms. Scott strongly agreed with a focus on sidewalk repair, pointing out that the previous City program to address sidewalks had not been carefully planned or executed.

Chair Mammano reiterated that it would be helpful for the Committee to meet with the Commission to advise them of where the Committee stands at present as well as to find out what the Commission wishes them to do in the future.

Mr. Grabski pointed out that while the Commission's charge was to make a recommendation on a moratorium, Mr. Partington's and Ms. Scott's **motion** had not specifically addressed a moratorium. Mr. Walters recommended that this earlier **motion** be reconsidered and amended as necessary.

Motion made by Mr. Partington, seconded by Ms. Scott, to recall the motion that passed just 15 minutes ago. In a roll call vote, the **motion** passed unanimously (9-0).

Motion made by Mr. Partington, seconded by Ms. Scott, that the Infrastructure Task Force does not consider that a development moratorium related to infrastructure is necessary at this time; however, all the rest of it exactly the same. In a roll call vote, the **motion** passed unanimously (9-0).

Motion made by Chair Mammano, seconded by Ms. Scott, to forward this as a communication to the City Commission and request a workshop with them to discuss the recommendation and the next steps for the Infrastructure Task Force Committee. In a roll call vote, the **motion** passed unanimously (9-0).

6. Public Works Update

i. Infrastructure adequacy for new development – Pump Station

Dronix Suarez, Project Manager II, showed a graphic representation of the adequacy update, explaining that it shows the basin corresponding to pump station B-8, which is provided as an example. When capacity analysis is performed, Staff reviews a number of items, including:

- Water availability, which is updated daily by the George T. Lohmeyer Water Treatment Plant

- Fire flow checks, which are conducted annually and reflected in geographic information systems (GIS) mapping
- Sanitary sewer analysis, which includes pump station run times

Mr. Suarez continued that the graphic provided to the Committee shows Staff's ability to track the status and condition of this infrastructure to a degree. If pump station run times begin to increase or spike, Staff can discuss what may be responsible for the increase.

The nominal average pump operation times (NAPOT) show how often pumps are running on a given day. Areas of concern are identified when these numbers rise above 8 to 10 hours total, with 10 hours as the desired maximum. He referred to the example graphic, pointing out that the increasing trend in these figures has been building since 2014. These values are provided once a month.

The graphic shows a drop-off in the hours of operation in October 2020. Mr. Suarez explained that inflow and infiltration (I&I) or other improvements may have been made at the subject pump station to bring these numbers down. The City can determine a number of issues from the numbers alone, including when new development significantly affects the operation of a pump station.

Chair Mammano asked if the increasing numbers would inform Staff that additional development permits in the subject area would be a concern. Mr. Suarez advised that Staff does not use this graphic internally: instead, they review the numbers generally. Once the numbers reach a certain level, however, they report that the pump station in question is seeing an increase in demand. They ensure that both Operations and Engineering are aware of the increase so issues can be investigated and/or addressed at the subject location.

Chair Mammano asked if the PZB would be made aware of the existence of any issues as well as the Department internally. Mr. Suarez replied that a similar graphic is provided to advisory bodies with every capacity letter.

Chair Mammano asked if Staff was aware of how many more approved projects might be coming online in the subject area before the graph reached its greatest increase prior to the drop-off. Mr. Suarez confirmed this, noting that this information is also provided in capacity analysis letters. Staff can also reach out to Operations to discuss ongoing trends.

Mr. Zeltman observed that the drop-off in use might also indicate the completion of recent sanitary sewer gravity lining, and noted that the dates of when repairs are made to the basin might correspond to this information. Another possibility could be a drought or other weather event. Mr. Suarez confirmed that this is taken into account whenever a negative change, such as an upward trend, is noticed.

Mr. Partington recalled that at previous meetings, the Committee has heard that some pump stations are being fitted with variable speed pumps, and asked how this might affect

the figures on the graphic. Mr. Suarez replied that while regular pumps require a specific consistent amount of flow in order to work at their optimum level, variable speed pumps have multiple points of efficiency, which allows multiple flows to achieve the same amount of efficiency in the pumps. There are only four variable speed pumps that are considered in three re-pump stations and one regular basin.

Mr. Partington requested clarification of the source of information on run times. Mr. Suarez advised that this information comes from the pump stations themselves and is reflected in a monthly operations report. This information is recorded manually and entered into an electronic database before it is transmitted to Staff.

Chair Mammano asked if this real-time data is available on all pump stations, as well as whether or not any of these stations are located in areas of concern. Mr. Suarez stated that while Staff reviews specific pump stations, they are connected with Operations in a way that allows them to maintain records for all pump stations. This permits them to look at adjacent pump stations to determine whether or not there may be issues in neighboring areas.

Chair Mammano asked if some problems might be solved before new development comes online. Mr. Suarez replied that he did not deal directly with timing: his responsibility is to analyze pump stations and run times, and convey data to the pertinent individuals and/or departments.

Mr. Angeli requested additional clarification of what the graphic's trend lines show. Mr. Suarez explained that one line serves as an "early alert" system for Staff: once the figures exceed this measurement, it is protocol to alert Operations and the rest of Engineering to inform them that there is an issue with that pump station. Once the figures reach the second indicator line, however, Staff is aware that the pump station is overtaxed. He noted that it is possible for pump stations to run at longer hours than intended, as there are safety factors in place.

Chair Mammano asked how many of the City's pump stations have numbers above either of the indicator lines, requesting a graphic of this data. Mr. Suarez replied that this information can be provided at a subsequent meeting.

Mr. Ladd asked what exactly was indicated by an increase above the first indicator line, such as demand, weather patterns, I&I, or other considerations. Mr. Suarez reiterated that this is discussed internally to determine a cause. He added that there are 194 pump stations within the City, which means detailed analysis can take significant time. Staff typically does not investigate these issues until their numbers reflect a need for concern. He advised that if the pump stations were examined based upon whether or not they have benefited from the City's relining project, they would show a decrease in I&I through the rainy season.

Mr. Grabski requested clarification of the pump times at which the indicators show cause for concern. Mr. Suarez explained that if average pump time exceeds 10 hours for one day, this indicates a need for further investigation. It was noted that duplex pump stations operate two pumps at an average of five hours per day; in addition, safety factors are in place for each pump in the event they exceed the recommended flow for a brief time.

Chief Engineer Omar Castellon further advised that Operations monitors all pump stations on a daily basis; Engineering reviews this information when there is an application for development.

Mr. Partington noted that the Hazen and Sawyer report identifies pump stations that operate in excess of 10 hours per day, and pointed out that this source of information should be reconciled with the graphic provided at today's meeting. Mr. Suarez stated that Staff maintains a similar table in its spreadsheet showing reports from all the City's pump stations. This table is constantly updated from the monthly reports provided by Operations.

Mr. Zeltman commented that the graphics shown can be misleading, as there are a number of variables that may come into play, including the number and size of pumps at a specific location, as well as variable speed. He emphasized the importance of coordination between Operations and Engineering to provide information about these factors.

ii. Water & Sewer Breaks Report 2021 w/Mapping

Gary Brandy, Distribution & Collection Supervisor, reported that there were a total of 10 water breaks from January through March 2021, including breaks due to age, a leak, and a contractor hitting the line. The total includes planned maintenance, which is reported as breaks. Most breaks are due to ongoing work in the area rather than systematic issues with infrastructure.

Mr. Zeltman asked if one area in which a cluster of breaks is located involves pipes constructed and installed at approximately the same time. Mr. Brandy replied that most of the pipes in this area were constructed from cast iron and were compromised due to the vibrations from work being done nearby.

Chair Mammano asked how a similar study of water mains in the area is progressing. Ms. Daniel stated that this mapping is ongoing, with roughly 80 raw water valves located thus far. Utilities Distribution and Collection Systems Manager Rick Johnson is overseeing this effort. This model is expected to be completed in July 2021.

Mr. Partington noted that a good deal is already known about the condition of a number of the City's pipes where breaks have occurred. Ms. Daniel confirmed this, explaining that the City must make strategic decisions about the funding and timing of these projects. A number of meetings have been held to determine whether or not projects included in the

City's Community Investment Plan (CIP) should be expedited if they involve infrastructure that suffered recent breaks. This led to the prioritization of some repair projects when funding was available.

iii. CIP Financial Report

Chair Mammano observed that this report provides an overall project analysis for bond funding, which totals \$204 million across multiple categories. She noted that a graphic for this presentation shows that 56% of bond funds have already been spent, with another significant portion encumbered. The remaining balance of the first tranche of bond funds is roughly \$67 million.

Chair Mammano continued that another graphic provided in this report reflects a different sum of \$259 million, and requested clarification of the difference in these funds. Ms. Daniel replied that while all of the listed projects are part of the City's Consent Order, a number of the projects may also be included in the bond, while others are funded through cash from Enterprise Funds. The next tranche of bond funds is scheduled to become available in 2023. A list of projects has already been identified for this tranche.

Ms. Daniel continued that a revenue estimating conference will be held in the next few weeks, which will review the funds available and revenues anticipated for the City to meet its bond covenant for debt payment.

7. Information

i. Impact Fees paid by Developers

Chair Mammano requested a total of the impact fees paid between October 2020 and April 2021. Mr. Castellon advised that the total is \$180 million during this time frame.

Chair Mammano requested additional information on the impact fee report. Project Engineer Igor Vassiliev replied that the chart reflects all impact fees paid by developers of various projects, including parks, sewer, and water. Broward County also receives an impact fee for traffic.

Mr. Partington asked how the water and sewer impact fees are used, recalling that HB 337 requires these dollars to be explicitly accounted for. He also requested a total of how much revenue is generated by these fees each year. It was determined that the impact fee report would be discussed in greater detail at the Committee's June 2021 meeting.

8. Adjournment – Next Regular Meeting TBA

There being no further business to come before the Committee at this time, the meeting was adjourned at 4:48 p.m.

Infrastructure Task Force Committee

May 3, 2021

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Any written public comments made 48 hours prior to the meeting regarding items discussed during the proceedings have been attached hereto.

[Minutes prepared by K. McGuire, Prototype, Inc.]

Development of Risk Matrix

Develop likelihood of failure (LOF) and consequence of failure (COF) criteria based on the vulnerability and criticality of the asset, respectively. Calculate risk score for each pipe segment as the product of LOF and COF scores per the equation below (WEF 2007).

$$Risk = LOF \times COF$$

Likelihood of Failure

Table 1 - LOF Scoring Criteria

Likelihood Category	Negligible = 1	Unlikely = 2	Possible = 4	Likely = 7	Very Likely = 10
Years since pipe installation	< 20 years	≥ 20 years to < 30 years	≥ 30 years to < 40 years	≥ 40 years to < 50 years	≥ 50 years or unknown
Pipe material	HDPE, PVC, or PE	DIP ≤ 30 years old	Cast-iron pipe	<ul style="list-style-type: none"> DIP ≥ 30 years old/DIP without date of installation AC pipe Prestressed concrete cylinder pipe installed in the 1970s 	Unknown
Pipe break information (from 2014 through 2018)	0 breaks	Not used	No historical pipe break information available/provided from 2014 through 2018	At least one break in pipe segment	Two or more breaks in pipe segment
FM peak operating pressures	Modeled FM peak operating pressure < 60 psi	Not used	Modeled FM peak operating pressure between 60 and 100 psi	Not used	Modeled FM peak operating pressure > 100 psi
Pipe layout profile	No ARV/high point on segment	Not used	One ARV/high point on segment	Not used	Not used
Pipe maintenance	Not used	Not used	Pipe maintenance records are not available	Not used	Not used
External and internal physical factors affecting the asset/proximity to salt water intrusion	<ul style="list-style-type: none"> Pipe is above water table and outside the salt water intrusion line. PVC, HDPE, and PE are the pipe materials. 	Pipe is below the water table and outside of the salt water intrusion line.	Pipe is above water table and in salt water intrusion line.	Pipe is within groundwater and inside the salt water intrusion line or brackish.	Pipe is within groundwater and inside the salt water intrusion line.

Table 2 - LOF Category Weighting Factor

LOF Category	Weights (percent)
Years since pipe installation	16
Pipe material	17
Pipe break information (from 2014 through 2018)	23
FM peak operating pressures	16
Pipe layout profile	7
External and internal physical factors affecting the asset/proximity to salt water intrusion	14
Pipe maintenance (includes cleaning techniques, such as flushing and rodding, relief valve exercising, and previous inspections, if performed)	7

Consequence of Failure Score

Table 3 - COF Scoring Criteria

Consequence Category	Negligible = 1	Low = 4	Moderate = 7	Severe = 10
Pipe diameter	< 8 inches	≥ 8 and < 24 inches and unknown	≥ 24 and < 42 inches	≥ 42 inches
Proximity to potable water wellfield or private water wells	No well located within 1-mile radius	Well located within 0.5-mile to 1-mile radius	Well located within 0.25-mile to 0.5-mile radius	Well located within 0.25-mile radius
Residential and essential services impact	<ul style="list-style-type: none"> No essential service facility is nearby. Only low-density residential will be impacted. Proximity to waterway is greater than 1/8 mile and low-density residential. 	<ul style="list-style-type: none"> Discharge to canal or another waterway will be possible. Medium-density residential will be impacted. Proximity to waterway is within 1/8 mile and low- or medium-density residential. 	<ul style="list-style-type: none"> Moderate priority essential services, such as railway, port, and industrial area, will be impacted. High-density residential area will be impacted. Highway crossing will be impacted. Tourist and commercial areas, such as marinas, hotels, beaches, and parks, will be impacted. Proximity to waterway is within 1/8 mile and railways, ports, industrial, and/or high density residential. 	<ul style="list-style-type: none"> High-priority essential service, such as hospitals, schools, or downtown areas and convention centers, will be impacted. Proximity to waterway is within 1/8 mile and high priority essential service.
System reliability	<ul style="list-style-type: none"> Pipe has redundancy if greater than 24 inches in diameter. No sanitary sewer overflows have occurred. Rerouted average dry-weather flow is less than 2 mgd (1,400 gpm). 	<ul style="list-style-type: none"> Pipe has limited redundancy, and flow could be rerouted elsewhere in system during repair. Rerouted average dry weather flow is 2 mgd (1,400 gpm) or more and less than 4 mgd (2,800 gpm). 	<ul style="list-style-type: none"> Pipe has limited redundancy with difficulty rerouting flow elsewhere in system during repair. Rerouted average dry-weather flow is 4 mgd (2,800 gpm) or more and less than 7 mgd (4,900 gpm). 	<ul style="list-style-type: none"> Pipe has no redundancy and no ability to reroute flow elsewhere in the system during repair. Rerouted average dry-weather flow is 7 mgd (4,900 gpm) or more.
Financial impact on utility	Direct failure cost is less than \$25,000.	Direct failure cost is \$25,000 or more but less than \$50,000	Direct failure cost is 50,000 or more and less than \$100,000	Direct failure cost is \$100,000 or more.
Community impact	<ul style="list-style-type: none"> Minor disruption; no narrow streets will impede repair. 	<ul style="list-style-type: none"> Minor disruption; no narrow streets will impede repair. 	<ul style="list-style-type: none"> Substantial but short-term disruption will 	<ul style="list-style-type: none"> Long-term impact will occur.

	<ul style="list-style-type: none"> Minor service interruption; service restored without public reaction. 	<ul style="list-style-type: none"> Minor service interruption; service restored without public reaction. 	<ul style="list-style-type: none"> occur due to narrow streets. Localized impacts will occur on prominent businesses or residences. 	<ul style="list-style-type: none"> Area-wide disruption will occur. Disruptive impacts to multiple prominent businesses or residences will occur. Public will express dissatisfaction with utility services.
Environmental compliance	Volume of unauthorized discharge is less than 6,972 gal.	Volume of unauthorized discharge is 6,972 gal or more and less than 13,917 gal.	Volume of unauthorized discharge is 13,917 gal or more and less than 100,023 gal.	Volume of unauthorized discharge is 100,023 gal or more.

Notes:

gal = gallon(s)

gpm = gallon(s) per minute

mgd = million gallon(s) per day

Table 4 - COF Category Weighting Factor

COF	Weight (percent)
Pipe diameter	10
Proximity to potable water wellfield or private water wells	11
Residential and essentials services impact	17
System reliability	21
Financial impact on utility	7
Community impact	14
Environmental compliance	20

Risk Analysis

Figure 5 - Risk Score Prioritization Matrix

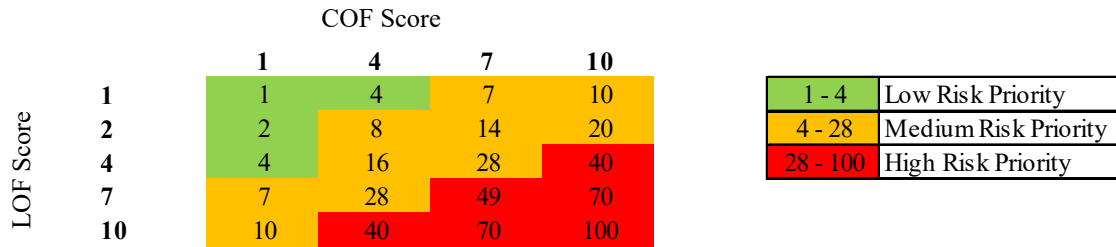


Table 5 summarizes the miles of City-owned FMs and results of the initial risk analysis. The final risk analysis results with the Tier 1 condition assessment included are presented in Section 5.

Table 5 – Summary of Risk Analysis and Implementation Plan

Item Description	Miles of FM
Total miles of active City-owned FMs	110
No further assessment – low LOF	37
No further assessment – high LOF	9
No further assessment – Phase II CO or CIP project	22
Tier 1 – Records review and field reconnaissance	42
Tier 1 – Soil survey and corrosion analysis	42



Memorandum

Memorandum No: 21-033

Date: April 19, 2021

To: Honorable Mayor and Commissioners

From: Chris Lagerbloom, ICMA-CM, City Manager

Re: Granting Authority for the Mayor and Commissioners to Deny Future Development Applications Based on Condition of the Surrounding Infrastructure

On December 20, 2020, the City Commission requested staff to investigate the potential of adding criteria to the City Commission's development approval authority, based on the existing condition of surrounding infrastructure (water/sewer). Currently, the City requires an analysis of infrastructure from the perspective of capacity. This requirement can be found in Section 47-25.2 – Adequacy Requirements, of the City's Unified Land Development Regulations (ULDR), which states:

47-25.2.H.2 – Potable Water Facilities

- a. *If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from design capacity. If there is available capacity, the city shall determine the impact of the proposed development utilizing Table 3, Water and Wastewater, on file with the department.*
- b. *If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the development.*
- c. *Where the county is the projected service provider, a similar written assurance will be required.*

and,

47-25.2.I – Sanitary Sewer

1. *If the system is tied into the city treatment facility, the available capacity shall be determined by subtracting committed capacity and present flow from the design capacity. If there is available capacity, the city shall determine the impact of the proposed development utilizing Table 3, Water and Wastewater, on file with the department.*
2. *If there is adequate capacity available in the city treatment plant to serve the proposed development, the city shall reserve the necessary capacity to serve the proposed development.*
3. *Where the county is the projected service provider, a written assurance will be required.*

4. *Where septic tanks will be utilized, the applicant shall secure and submit to the city a certificate from the Broward County Health Unit that certifies that the site is or can be made suitable for an on-site sewage disposal system for the proposed use.*

The requirements listed above are analyzed at the time of development approval, which includes Development Review Committee (DRC), Planning and Zoning Board (PZB), and City Commission depending on the level of approval required by the City's ULDR. However, once a project is granted a development approval, an analysis is performed again at the building permit submittal stage to ensure capacity is still available and the project can move forward to construction. This 2-step process is done to give assurance that a development approval doesn't exceed the capacity of the system and to address the fact that at any given time there are multiple projects in various stages of approval and construction that may have changed the capacity availability in between development approval and building permit submittal.

The City Attorney's Office (CAO) has advised that the City may only consider the impact on existing infrastructure directly attributed to a proposed development. The method upheld by the courts, is to calculate the projected needs of a proposed development and determine whether the system has sufficient capacity to accommodate the projected increase. In consultation with the CAO, we have determined that in order to address the City Commission's request to include the condition of infrastructure, as well as capacity, two fundamental questions need to be addressed:

1. What is the condition of the infrastructure that would prevent the delivery of service?
2. Is the state of the condition of the infrastructure directly caused by the proposed development?

If the condition of the infrastructure is in a state of disrepair regardless of whether the proposed development is constructed or not, then the condition is not directly attributed to the proposed development and the denial would constitute a prohibited exaction under Section 70.45, Florida Statutes, as there is a lack of showing that the denial is roughly proportionate to the impacts of the proposed use. The analysis requires that the proposed development be the proportionate cause of the condition.

The application of the methodology used to measure capacity is a straightforward effective way to quantify the impacts a development will have on the City's infrastructure. However, establishing the condition of the infrastructure and then using the data to determine if a development will potentially have a negative impact on infrastructure may prove to be more challenging.

A suitable methodology for determining the condition of the system prior to a development permit approval would have to be established to allow applicants to move forward through the process in a timely manner. However, from a legal perspective, it may be difficult to make the connection between the proposed development based on the guidance provided by the CAO.

C: Greg Chavarria, Assistant City Manager
Tarlesha W. Smith, Assistant City Manager
Alain E. Boileau, City Attorney
Jeffrey A. Modarelli, City Clerk
John C. Herbst, City Auditor
Department Directors
CMO Managers

Presentation to the Infrastructure Task Force Advisory Committee

October 19, 2020 – 2:00 pm

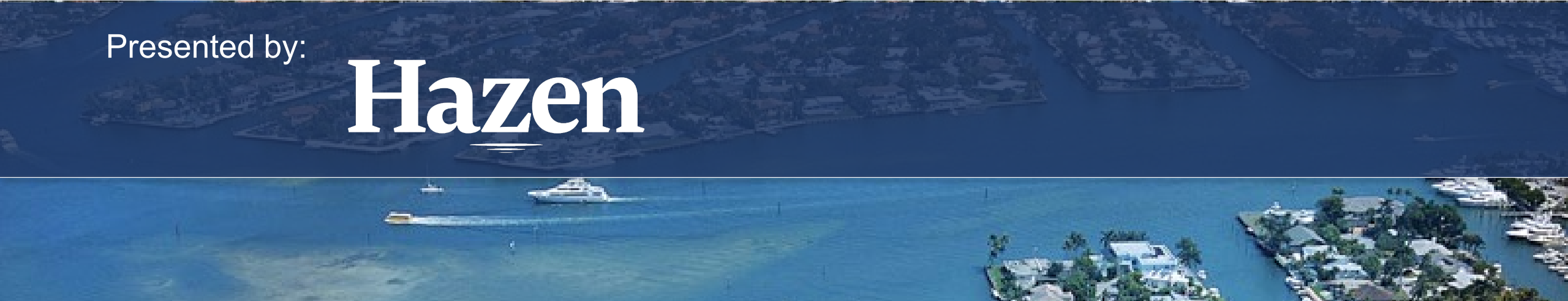


CITY OF FORT LAUDERDALE



Presented by:

Hazen

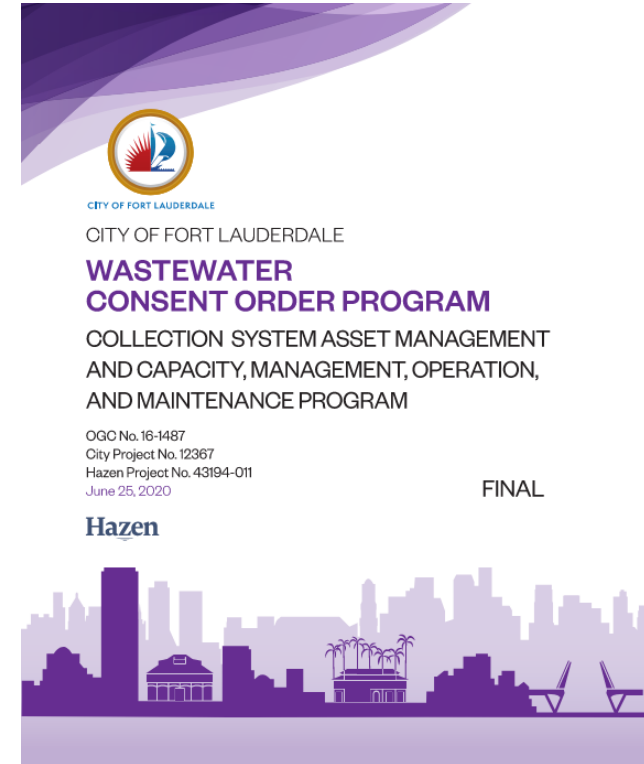


What is an AM-CMOM?



CITY OF FORT LAUDERDALE

- AM-CMOM = Asset Management- Capacity Management, Operation and Maintenance
- Required by Consent Order
- Based on EPA Guidelines
- The AM portion resulted in development of maps to visualize the risk of the collection and transmission system



How is Risk Calculated?



Risk Assessment Criteria (Risk = LOF x COF)	GM	PS	FM
Likelihood of Failure (LOF)			
Pipe age and material	X		X
Potential for overflow		X	
Condition		X	
Expected service life		X	
Pipe break information (2014–2018)			X
Force main peak operating pressures			X
Pipe layout profile			X
External and internal physical factors (includes proximity to saltwater intrusion)	X		X
Pipe maintenance (includes cleaning and previous inspections)	X		X
Consequence of Failure (COF)			
Financial impact (including diameter, depth, surface type)	X		X
Community impact (residential and essential services, environmental compliance, surface type)	X		X
Financial impact (horsepower)		X	
Community impact (average dry weather flow, residential and essential services, environmental compliance)		X	
Proximity to potable water wellfield or private water wells			X
System reliability			X

COF, LOF and Risk Score for Various Assets



CITY OF FORT LAUDERDALE

- Gravity System
- Pump Station
- Force Main System

Gravity LOF



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Legend

· Manhole

■ Pump Station

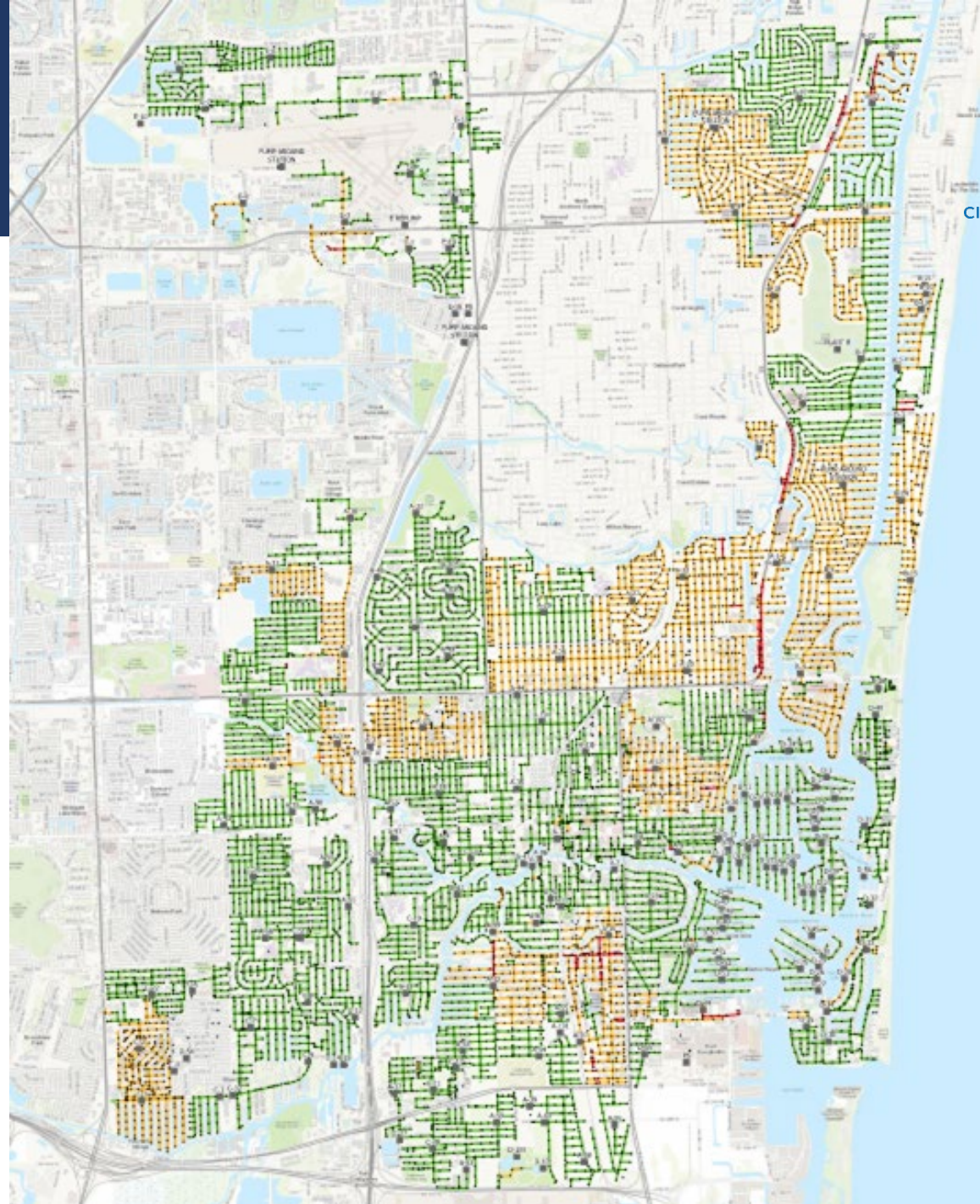
Gravity Main LOF

Overall LOF Score

— 1.4 - 3.2

— 3.2 - 5.0

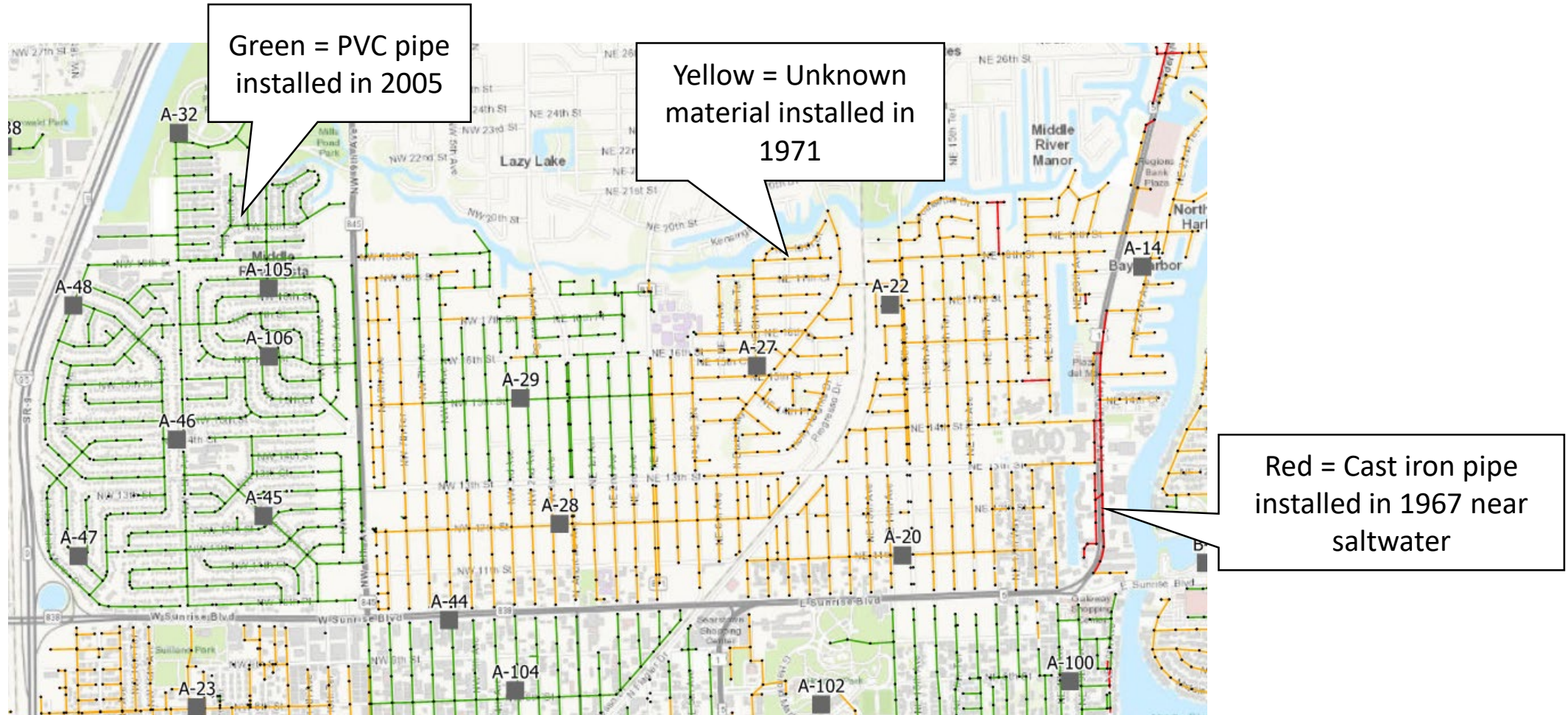
— 5.0 - 7.4



Gravity LOF



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This data also informs as to which areas need further investigation

Gravity COF



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Legend

● Manhole

Pump Station

■ Pump Station

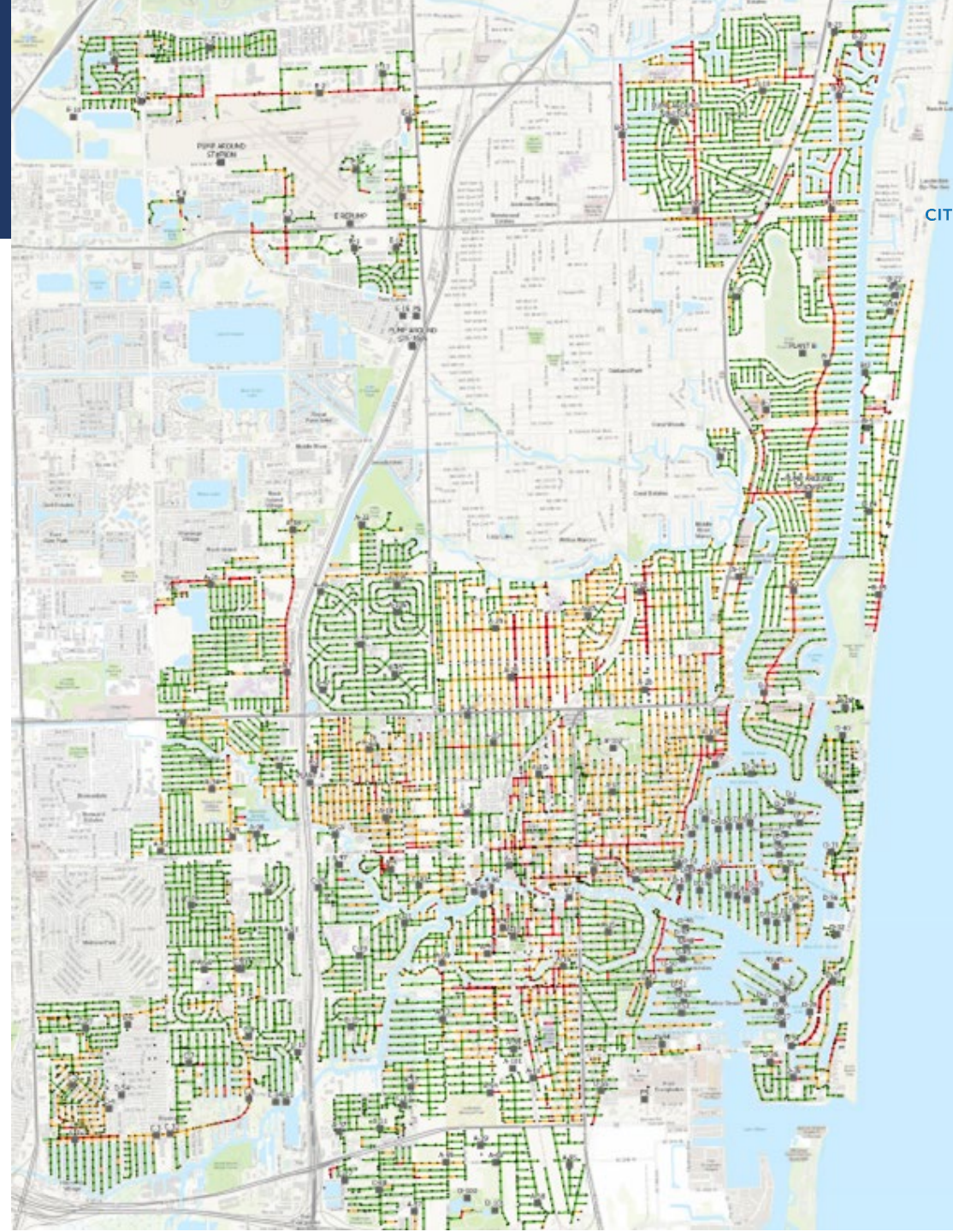
Gravity Main COF

Overall COF Score

— 1.0 - 4.4

— 4.4 - 5.7

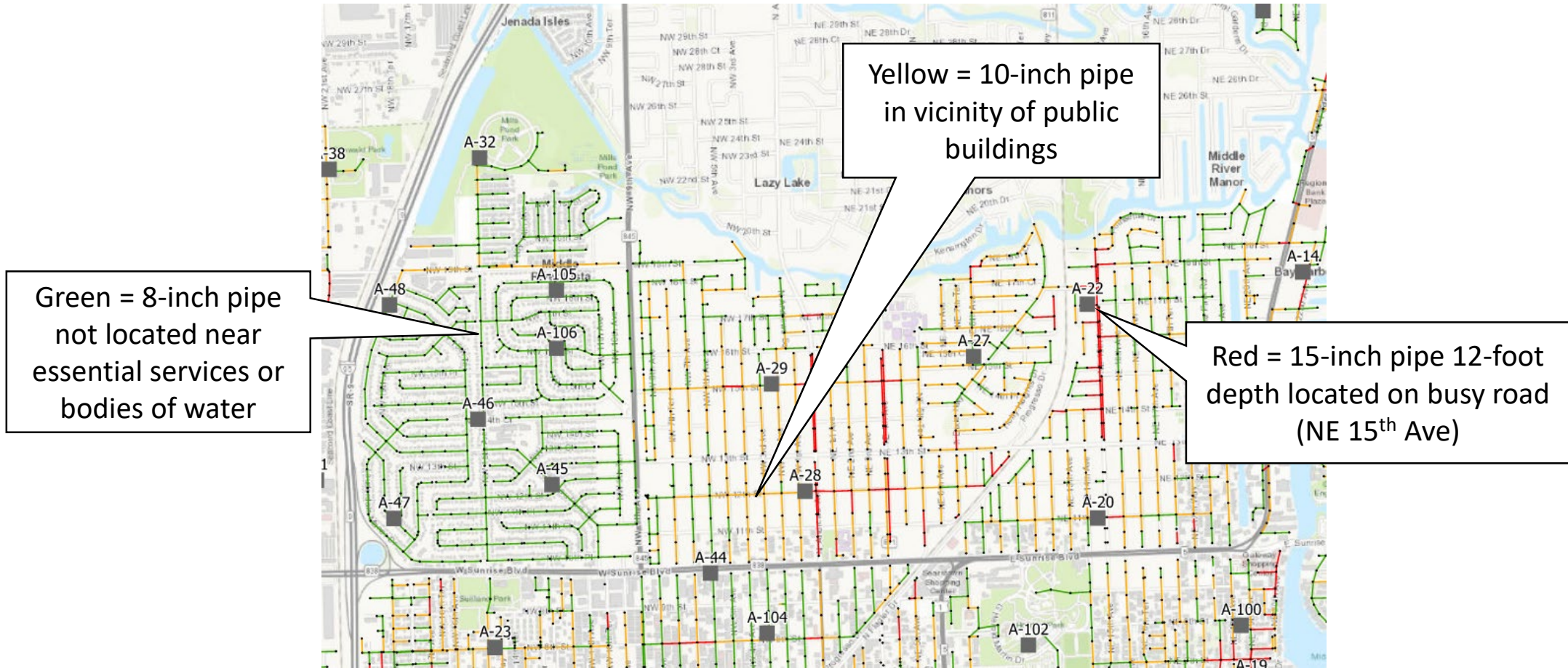
— 5.7 - 10



Gravity COF



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This data also informs as to which areas need further investigation

Gravity Risk Score



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Legend

● Manhole

Pump Station

■ Pump Station

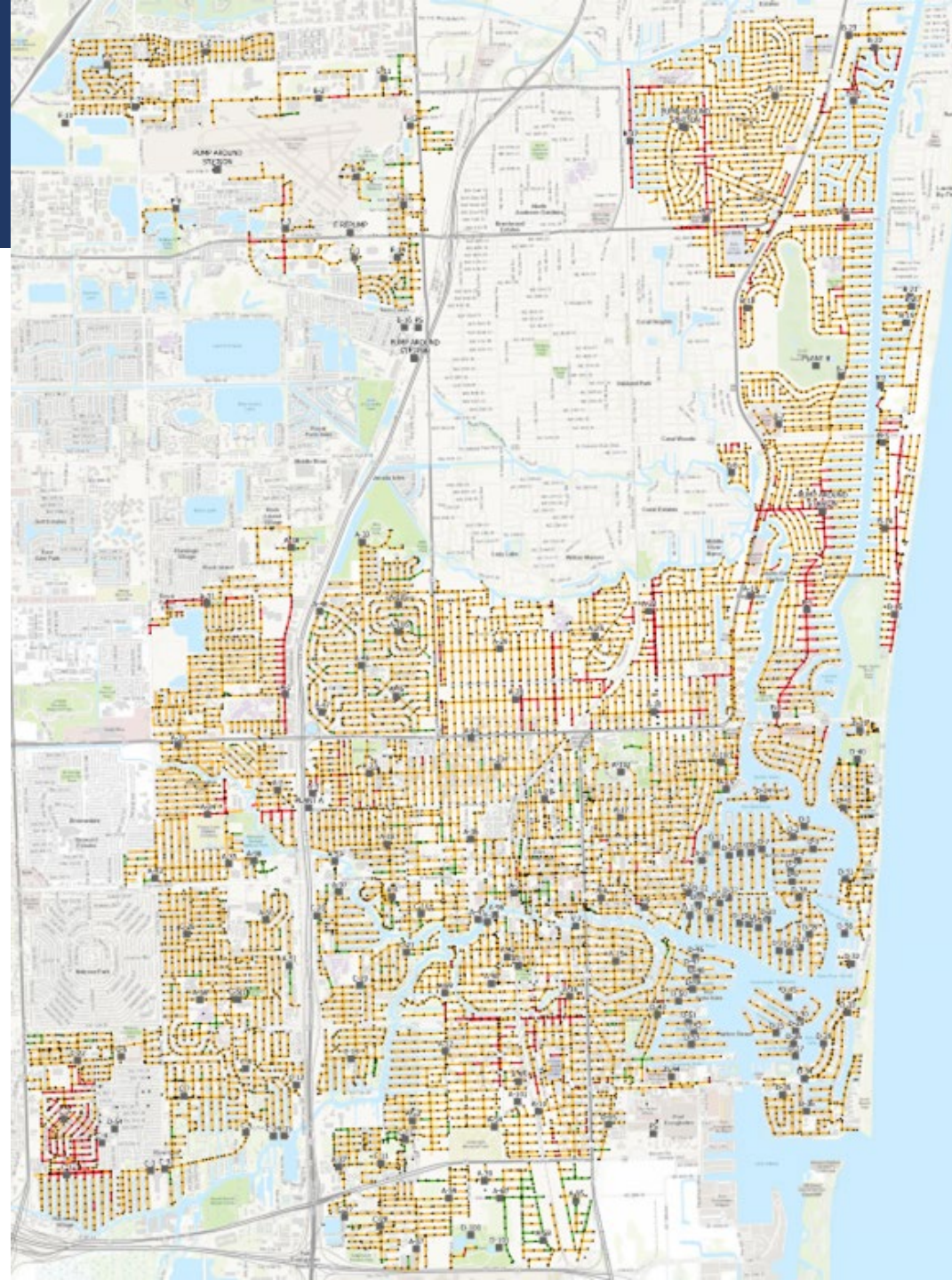
Gravity Main Risk

Overall Risk Score

— Low Risk Priority

— Medium Risk Priority

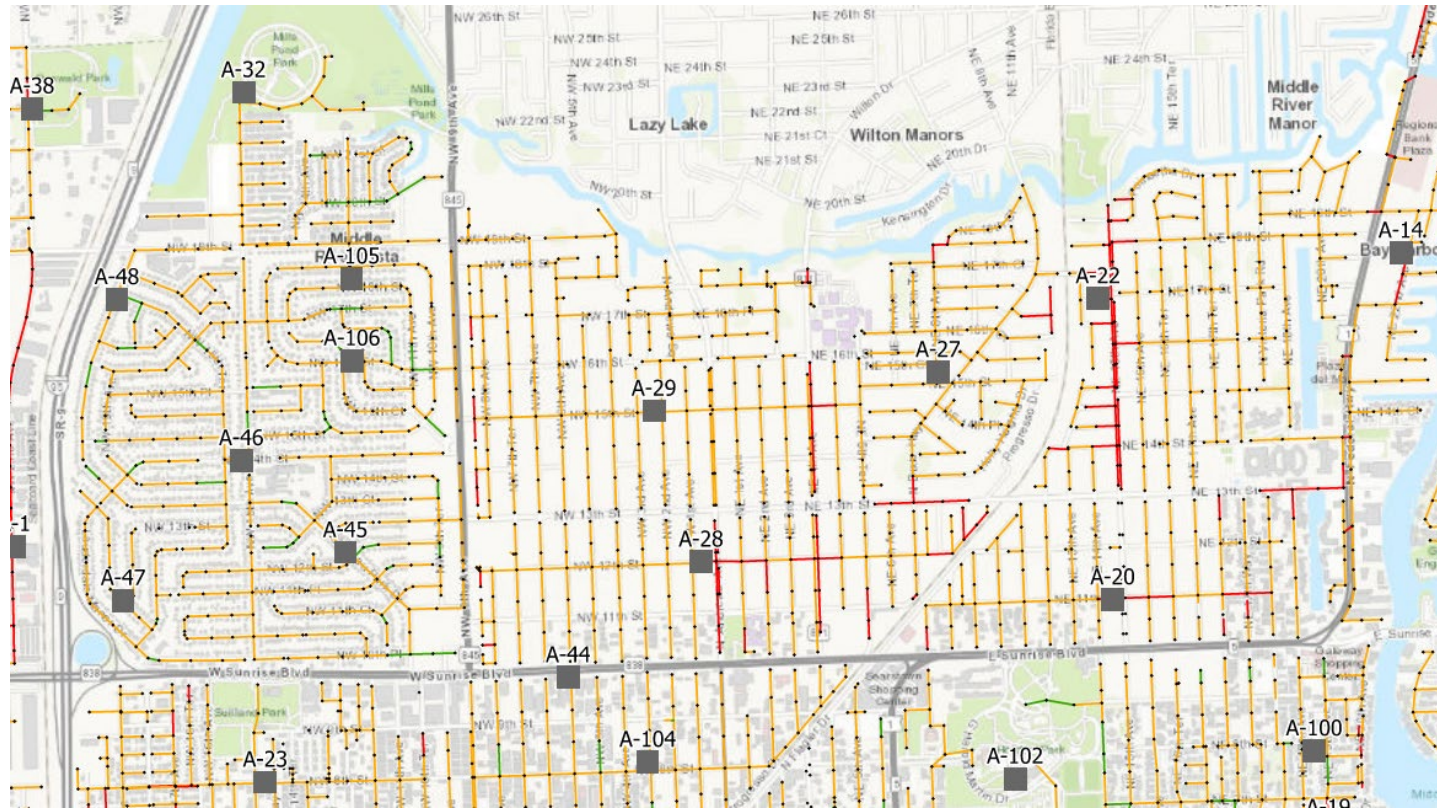
— High Risk Priority



Gravity Risk Score



CITY OF FORT LAUDERDALE



	1	4	7	10
LOF 1	1	4	7	10
LOF 2	2	8	14	20
LOF 4	4	16	28	40
LOF 7	7	28	49	70
LOF 10	10	40	70	100

1 - 4	Low Risk Priority
5 - 28	Medium Risk Priority
29 - 100	High Risk Priority

Pump Station Risk Score



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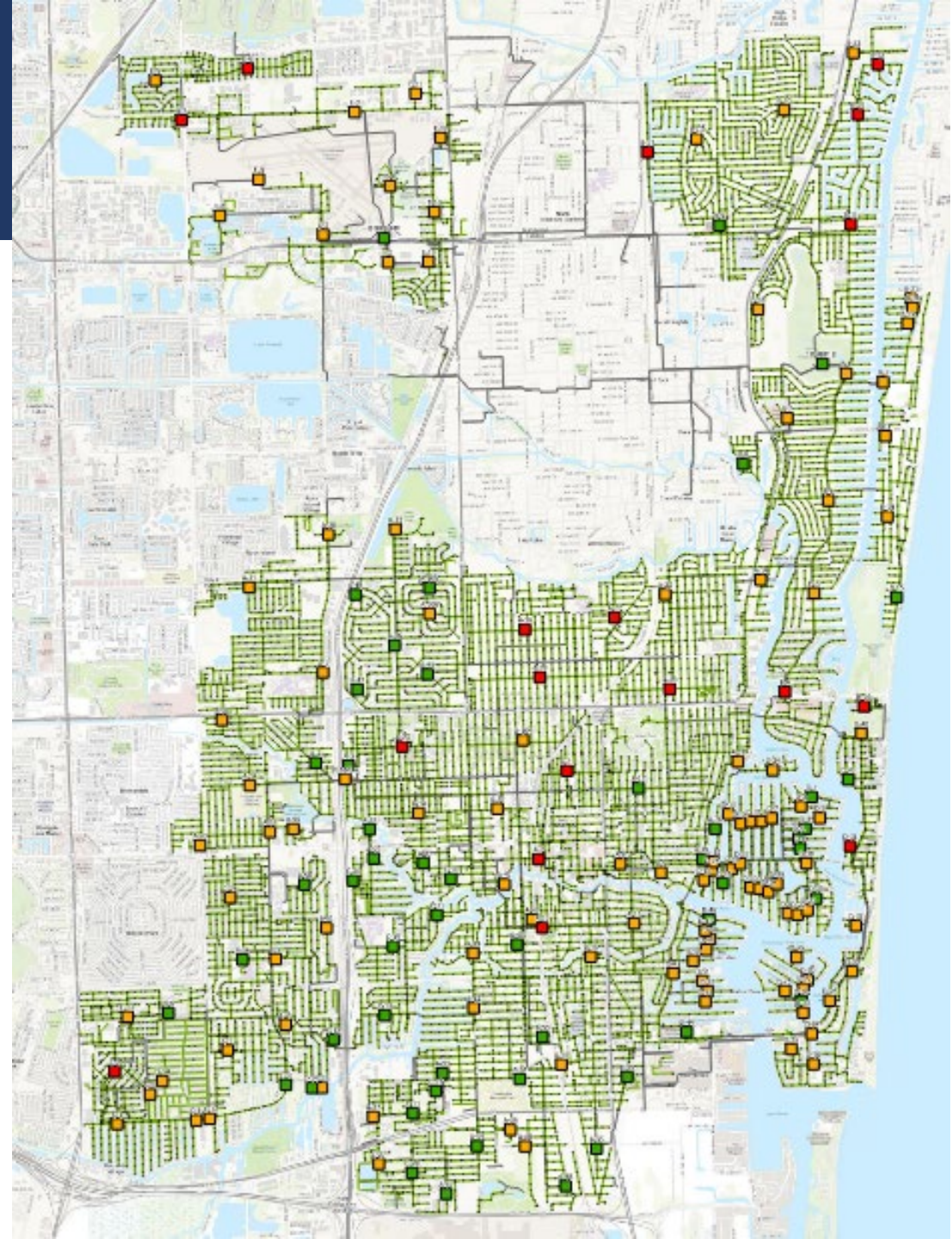
Legend

- Manhole
- Force Main
- Gravity Main

Pump Station Risk

Overall Risk Score

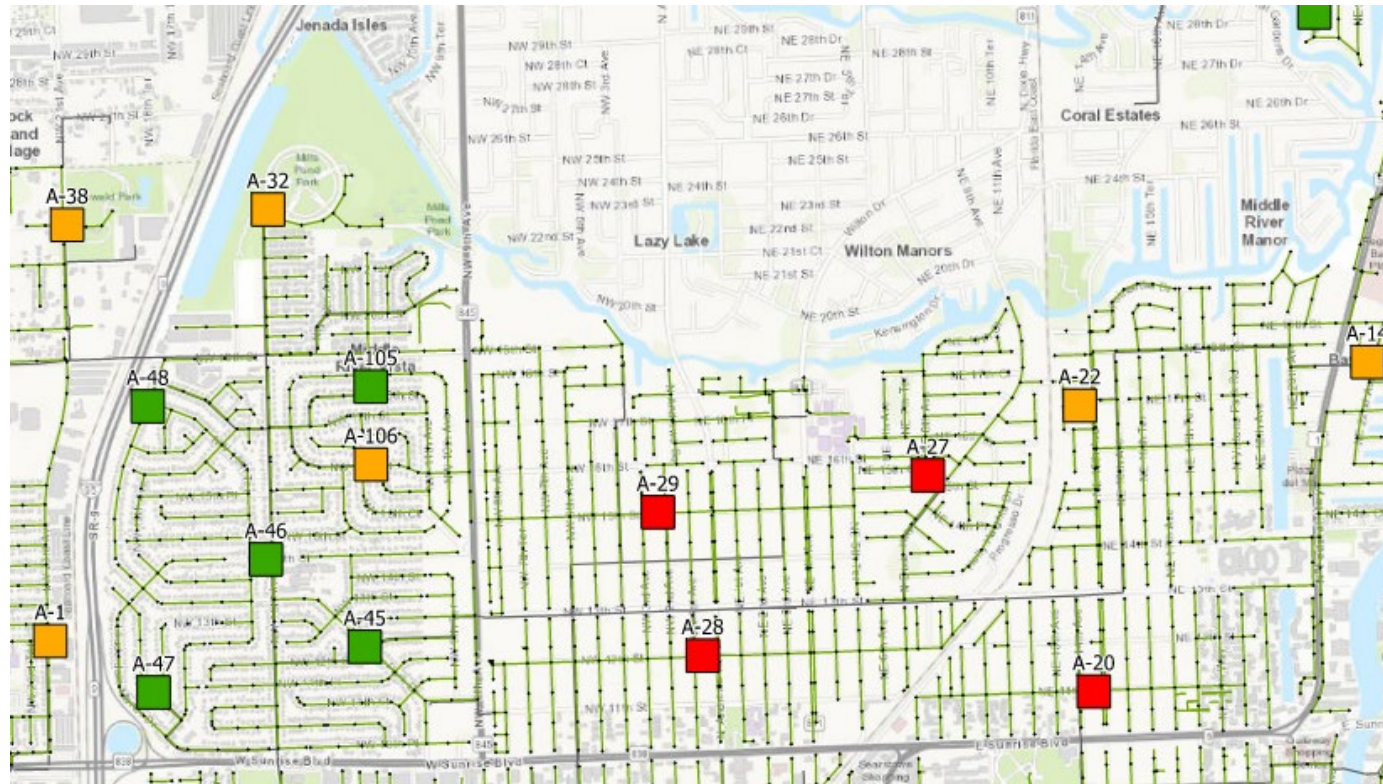
- Low Risk Priority
- Medium Risk Priority
- High Risk Priority



Pump Station Risk Score



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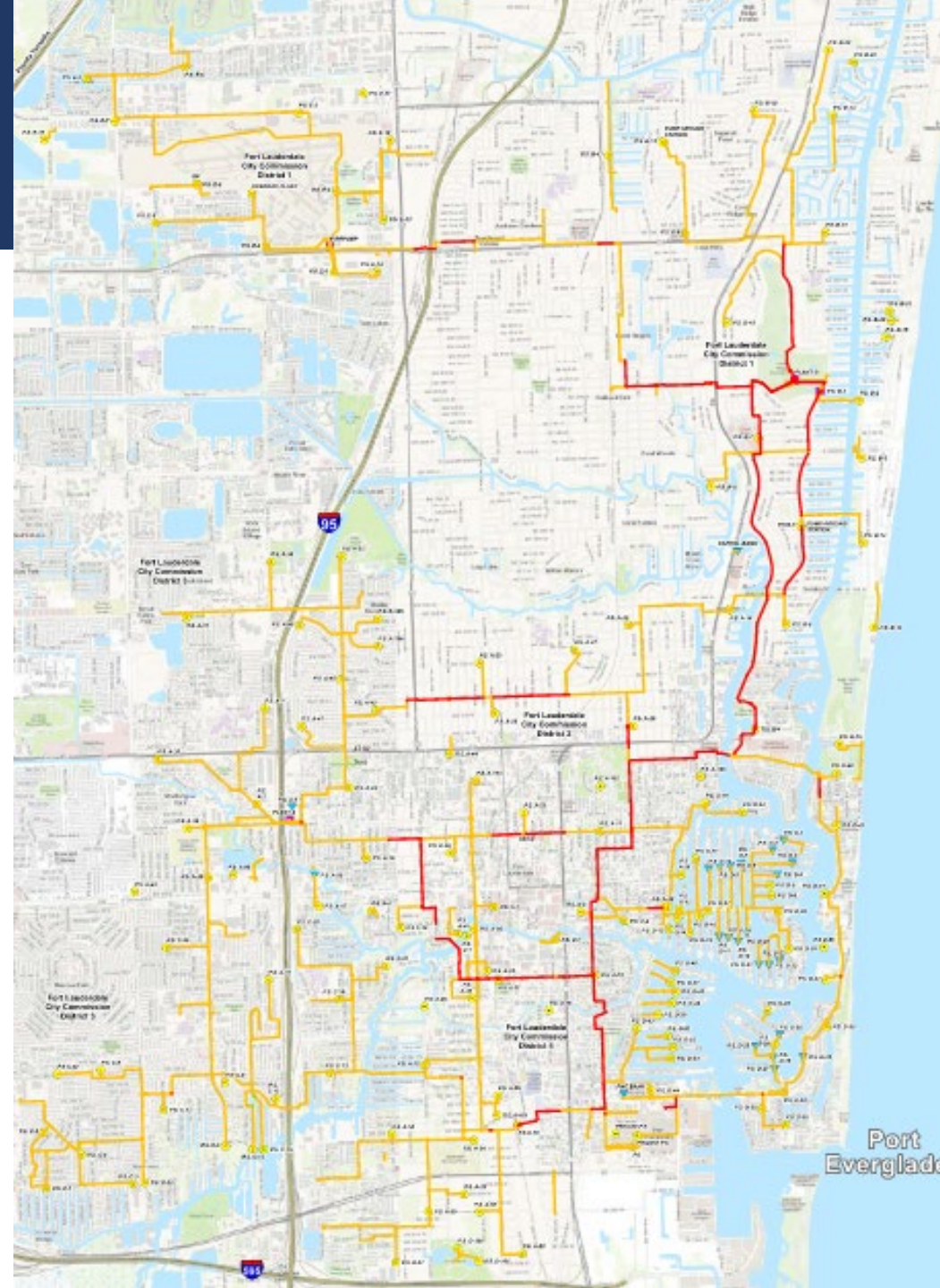
		COF			
		1	4	7	10
LOF	1	1	4	7	10
	2	2	8	14	20
	4	4	16	28	40
	7	7	28	49	70
	10	10	40	70	100

1 - 4	Low Risk Priority
5 - 28	Medium Risk Priority
29 - 100	High Risk Priority

Force Main Risk Score



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Legend

Overall Risk Score

- Low Risk Priority
- Medium Risk Priority
- High Risk Priority

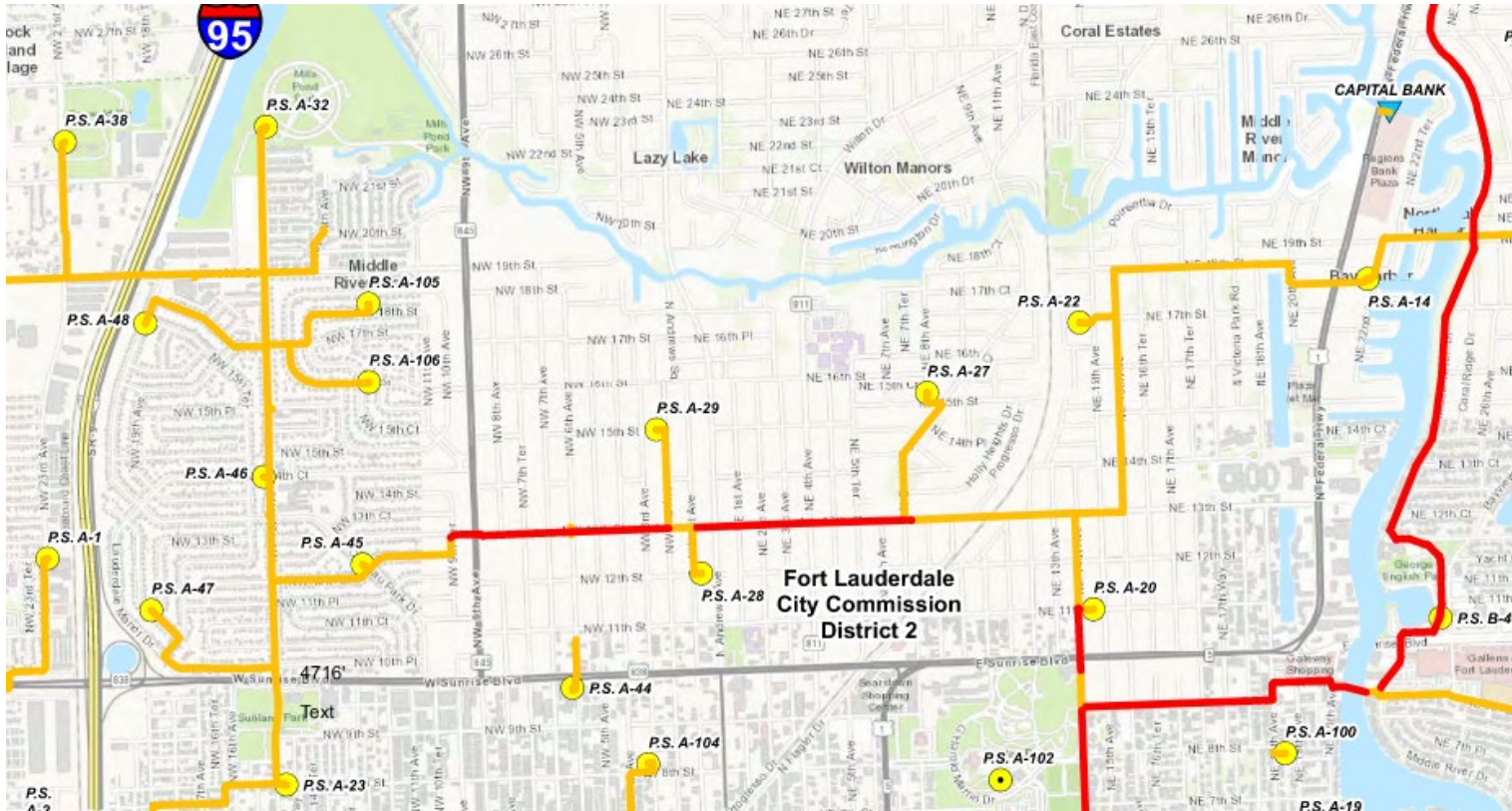
Pump Station Locations

- Pump Station
- Lift Station
- Repump Station

Force Main Risk Score



CITY OF FORT LAUDERDALE



COF

		1	4	7	10
LOF	1	1	4	7	10
	2	2	8	14	20
	4	4	16	28	40
	7	7	28	49	70
	10	10	40	70	100

1 - 4	Low Risk Priority
5 - 28	Medium Risk Priority
29 - 100	High Risk Priority

FM Recommended Future Work



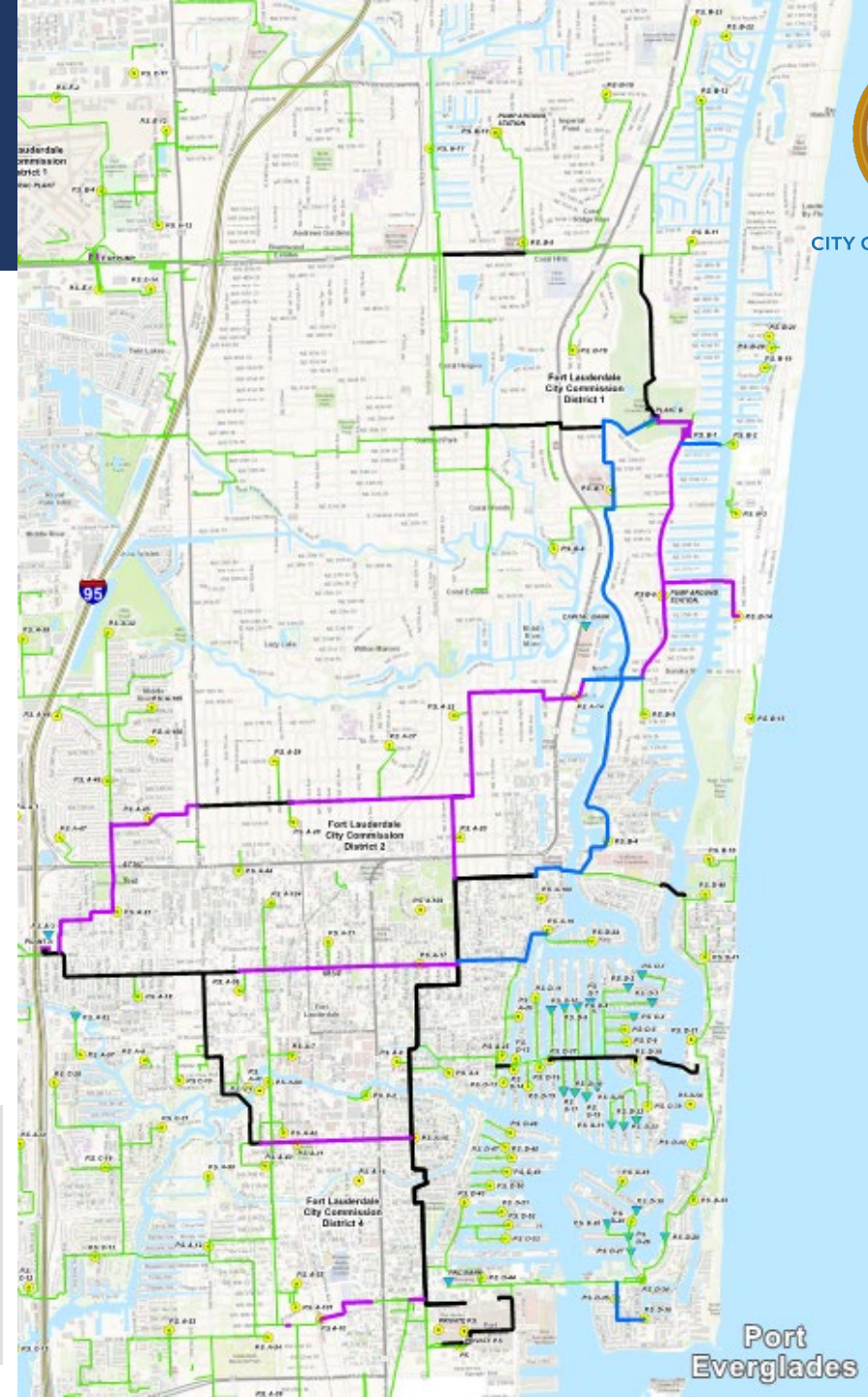
CITY OF FORT LAUDERDALE

- The Consent Order required the Force Main Condition Assessment (FMCA) Report to provide a list of Projects to be added to Phase II of the Consent Order.
- The FMCA Report also recommended other FMs to be rehab/replaced as part of the City's CIP.

Legend

Capital Planning

- Current Consent Order Project
- Recommended Rehab/Replacement Project to be Added to CIP
- Recommend Rehab/Replacement Project to be Added to Phase II Consent Order
- No Further Assessment



Port Everglades



Questions?

Thank you.



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Backup Slides



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Projects to be Added to Phase II of Consent Order



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Project	Limits of Project	Length of Project	Pipe Size/Material	Rationale
1	Victoria Park FM Replacement	4,700 feet	16-inch cast-iron pipe	Due to recent pipe failure.
2	NE 36th Street Repair Project	1,200 feet	12-inch cast-iron pipe	Due to recent pipe failure.
3	South Middle Force Main Crossing	1,800 feet	12-inch DIP	Due to recent pipe failure.
4	Pump Station D-36 Discharge FM Replacement	2,000 feet	8-inch and 10-inch cast-iron pipe	Due to recent pipe failure.
5	Replacement of FM from Pump Station B Discharge to the Middle River	27,500 feet (of replacement FM)	42-inch DIP	High risk of failure. Note this project is currently in construction as part Project P 12566.

Sections of Force Main that Need to be Added as a Future Rehabilitation/Replacement Project



CITY OF FORT LAUDERDALE

Project	Limits of Project	Length of Project	Pipe Size/Material	Rationale
1	Bayview Drive from NE 21st Street to NE 37th Court and to the suction side of Repump Station B	9,600 feet	16-inch and 18-inch cast-iron pipe	Very high likelihood of failure. Segments of this FM have reported multiple breaks. This section of FM also includes stormwater conflict structure which may increase the deterioration of the main.
2	From Pump Station B-14 to the 16-inch cast-iron FM on Bayview Drive	3,400 feet	12-inch cast-iron pipe	More than 50-year-old FM with a subaqueous crossing is connected to the other recommended project to be replaced.
3	NE 5th Street between NW 6th Avenue and NE 14th Avenue	5,600 feet	16-inch cast-iron pipe and 18-inch and 20-inch DIP	High risk of failure. Maintenance concerns have been reported on this FM.
4	SE 7th Street between SW 5th Avenue and SE 9th Avenue	4,900 feet	36-inch DIP	High risk of failure. High consequence of failure. Maintenance concerns have been reported on this FM.
5	From Eastern End of NW 13 Street Phase 2 and PS A-3	5,600 feet	30-inch cast-iron pipe	High risk of failure. High consequence of failure. Maintenance concerns have been reported on this FM.
6	NW 13th Street Phase 2 Project	3,200 feet	24-inch cast-iron pipe	FM is more than 50 years old with medium to high likelihood of failure.
7	NW 13th Street Phase 3 Project	7,600 feet	20-inch, 18-inch, and 14-inch cast-iron pipe	FM is more than 50 years old with medium to high likelihood of failure.
8	NW 13th Street Phase 4 Project	8,100 feet	16-inch, 14-inch, 12-inch, and 10-inch cast-iron pipe	FM is more than 50 years old with medium to high likelihood of failure.
9	Along SW 19th Street between SW 3rd Avenue and SW 4th Avenue	100 feet	30-inch DIP	High risk of failure.
	Along SW/SE 18th Court between SW 1st Avenue and SE 1st Avenue, along SE 1st Avenue between SE 18th Court and Mariner Drive, along Mariner Drive between SE 1st Avenue and East of SE 4th Avenue	2,000 feet	30-inch and 36-inch DIP	High risk of failure.
	Near intersection of A1A and SE 10th Avenue	400 feet	36-inch DIP	High risk of failure.
10	Rehabilitation of Repump Station B Discharge Force Main from Repump Station B to George English Park	18,600 feet	42-inch DIP	High risk of failure

Gravity Mains COF and LOF Parameters



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Likelihood of Failure Score

- Years Since Pipe Installation and Pipe Material
- External and Internal Physical Factors
- Pipe Maintenance



RISK

Consequence of Failure Score

- Financial Impact on Utility
 - *Pipe diameter*
 - *Depth to pipe invert*
 - *Surface Type*
- Community Impact on Utility
 - *Residential and Essential Services Impact*
 - *Environmental Compliance*
 - *Surface Type*

Pump Stations COF and LOF Parameters



CITY OF FORT LAUDERDALE

Likelihood of Failure Score

- Potential for Overflow based on modeling results
- Condition
- Service Life



RISK

Consequence of Failure Score

- Financial Impact on Utility
 - Total horsepower of station
- Community Impact
 - Residential and Essential Services Impact
 - Environmental Compliance
 - Average Dry Weather Flow

Force Mains COF and LOF Parameters



CITY OF FORT LAUDERDALE

Likelihood of Failure Score

- Years Since Pipe Installation
- Pipe Material
- Pipe Break Information
- Peak Operating Pressure
- Pipe Layout Profile
- External and Internal Factors
- Pipe Maintenance



RISK

Consequence of Failure Score

- Pipe Diameter
- Proximity to Potable Water
- Residential and Essential Services Impact
- System Reliability
- Financial Impact on Utility
- Community Impact
- Environmental Compliance



FMCA Phase 1



CITY OF FORT LAUDERDALE

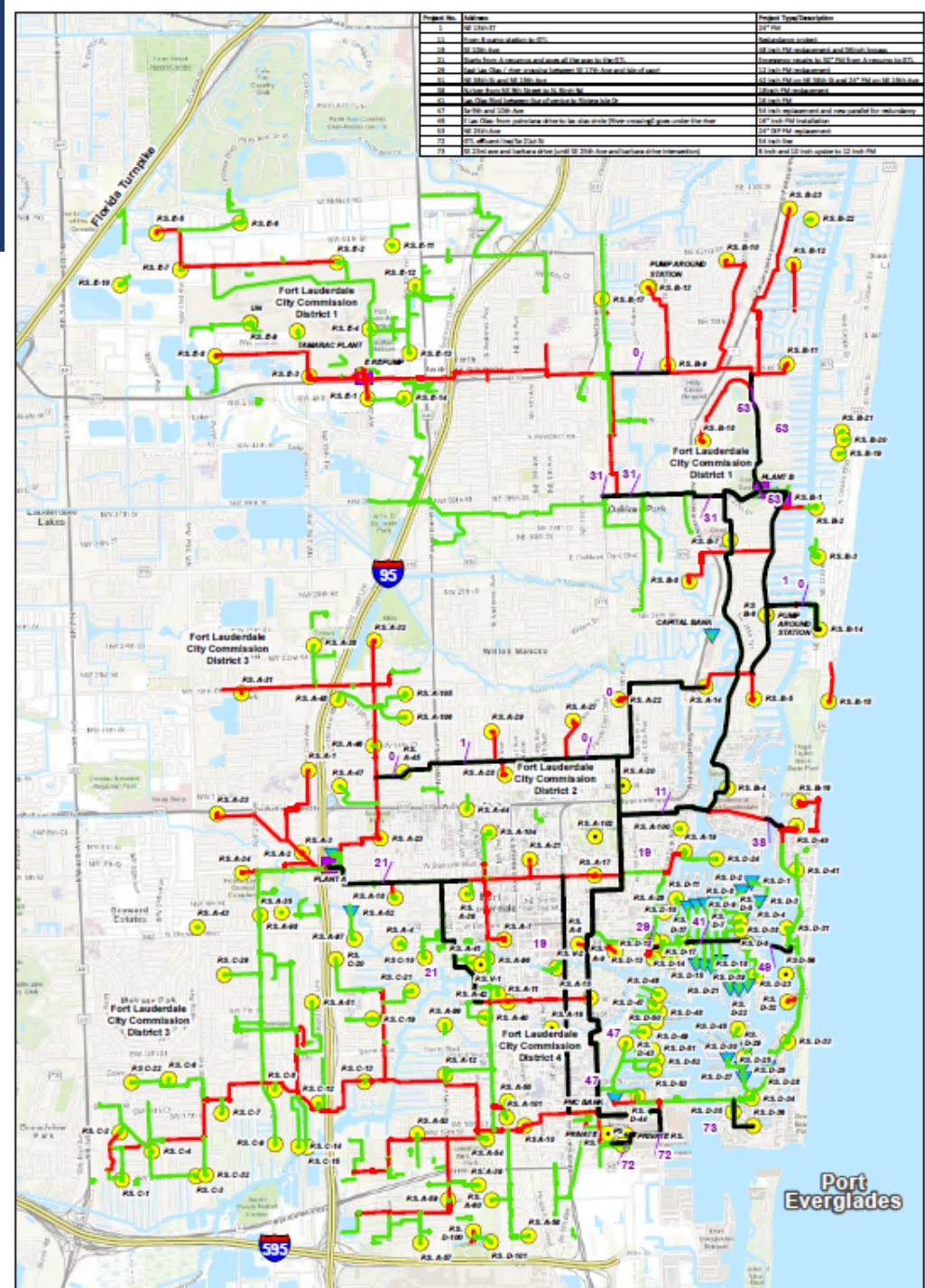
Tier 1 Assessment and no Further Assessment Segments

Figure 19 - City-owned Pressurized Mains Tiers



Legend

- | | | |
|-----------------------|-------------------------|-------------------------------|
| Tier | Capital Planning | Pump Station Locations |
| 1 | CIP Projects | Pump Station |
| no further assessment | | Lift Station |
| | | Repump Station |



Force Main Tier 1 Condition Assessment



CITY OF FORT LAUDERDALE

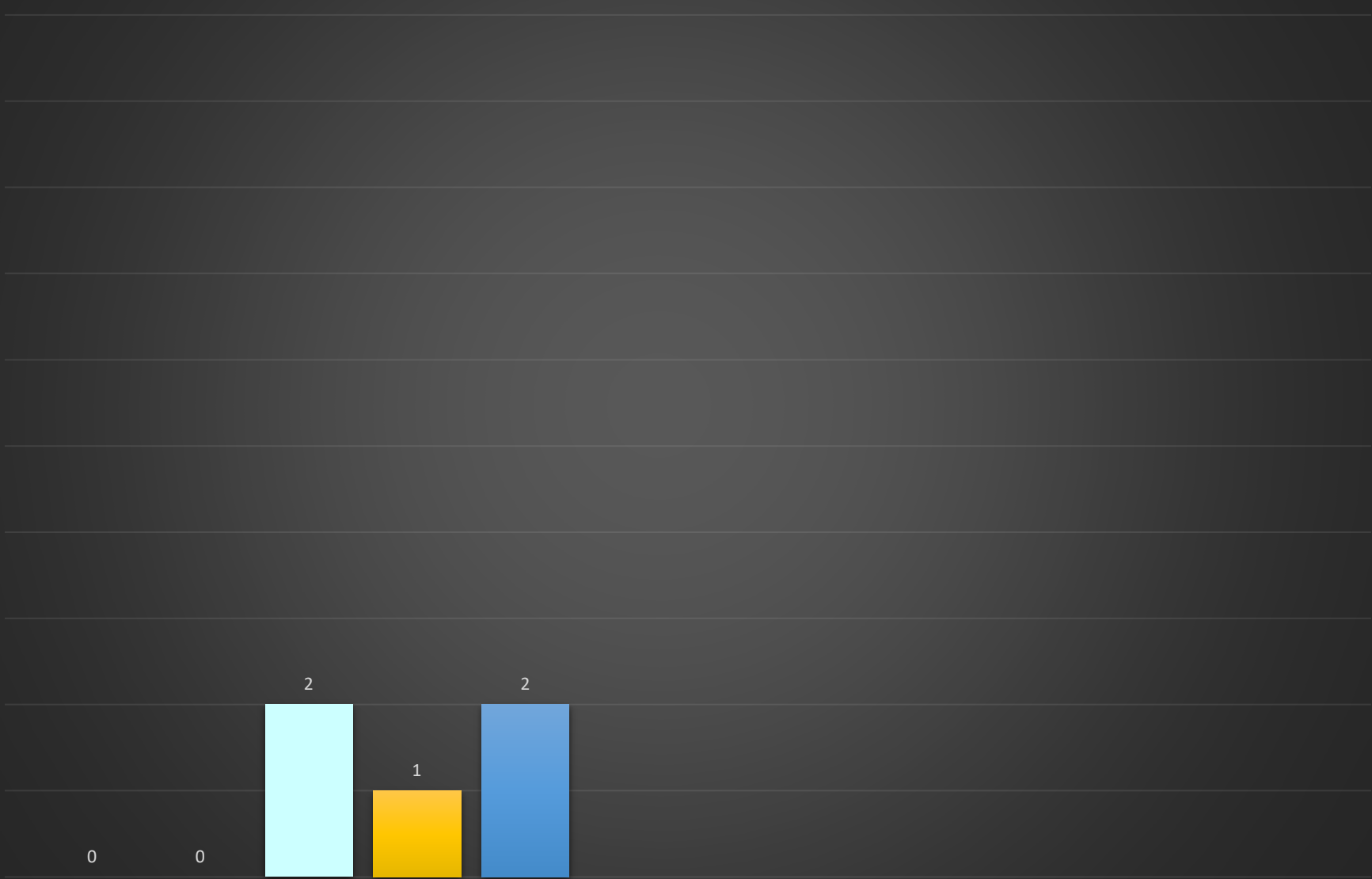


Water & Sewer Breaks Report 2021 w/Mapping

Total Force Main Breaks by Month (2021)

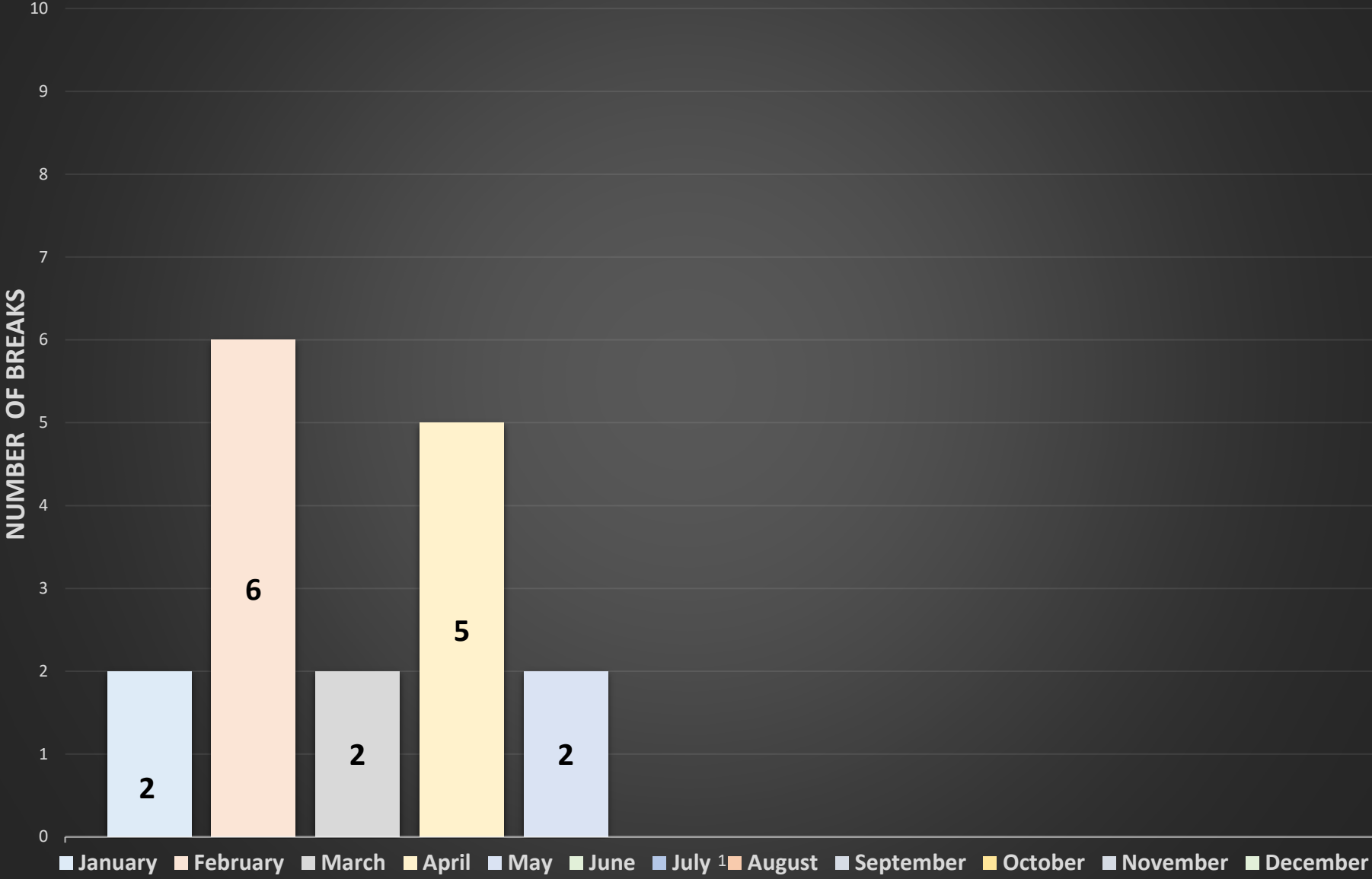
January 2021 - December 2021

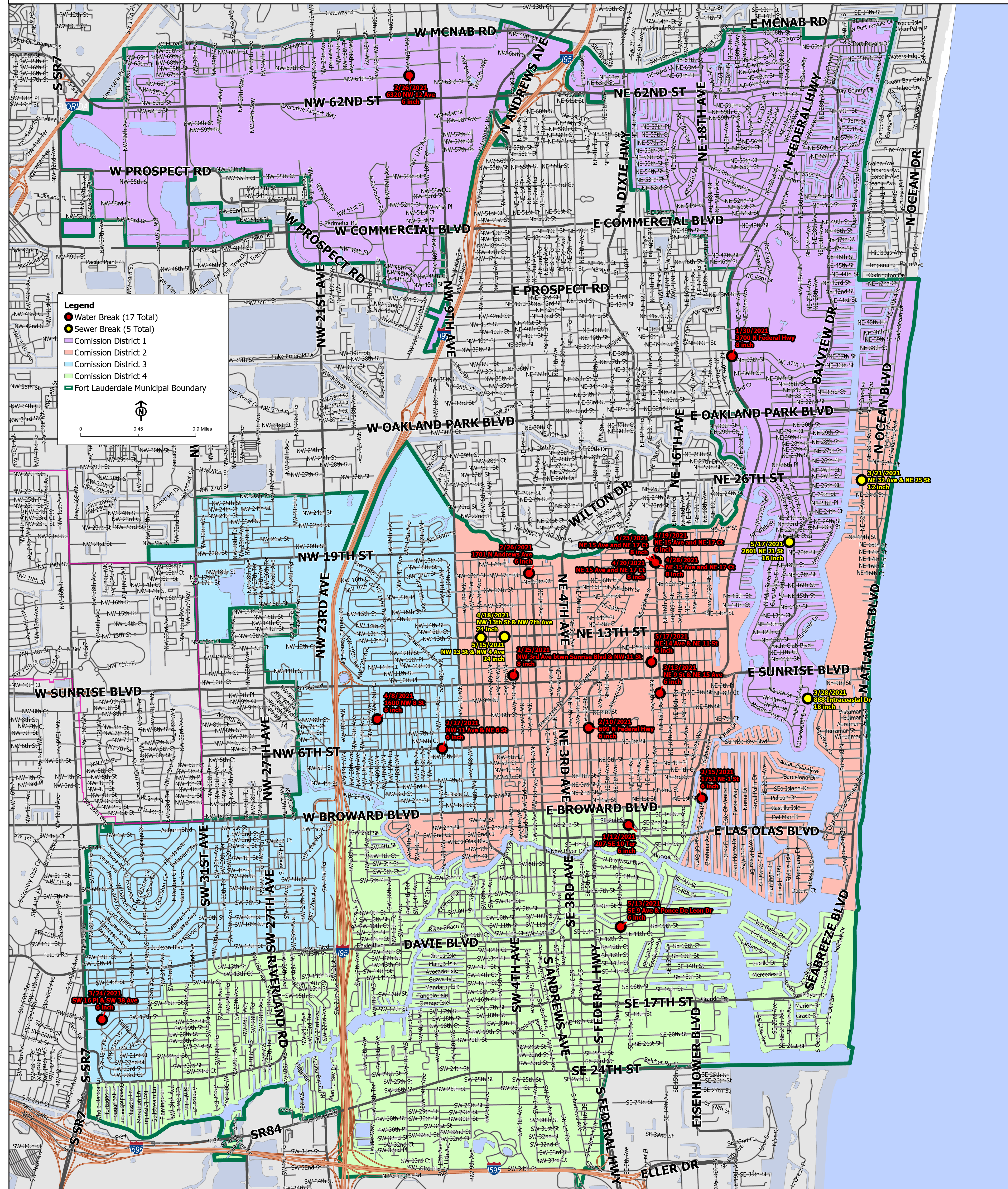
NUMBER OF BREAKS



■ January ■ February ■ March ■ April ■ May ■ June ■ July ■ August ■ September ■ October ■ November ■ December

Total Number of Water Main Breaks by Month January 2021 - December 2021





Water Distribution Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Cause	PBWN Issued?	Impacted Properties
1/12/2021	718838	207 SE 10 Ter	Water Main	6 inch	Broke while contractor was installing a 54-inch force main	Y	40
1/30/2021	720906	3700 N Federal Hwy	Water Main	8 inch	Age	Y	74
2/10/2021	729728	699 N Federal Hwy	Water Main	6 inch	Contractor Hit Line	N	0
2/15/2021	730637	1752 NE 1 St	Water Main	6 inch	Leak on Mechanical Joint	Y	31
2/25/2021	703142	NW 3rd Ave btwn Sunrise Blvd & NW 11 St	Water Main	8 inch	Emergency Repairs for Insertion Valve	Y	40
2/26/2021	N/A	6320 NW 12 Ave	Water Main	6 inch	Contractor Performed Water Main Offset	Y	3
2/26/2021	736339	1701 N Andrews Ave	Water Main	6 inch	Emergency Repairs to Broken Water Main	N	0
2/27/2021	736429	NW 11 Ave & NE 6 St	Water Main	6 inch	Contractor Hit Line	N	0
3/13/2021	741874	NE 9 St & NE 15 Ave	Water Main	6 inch	Contractor Hit Line	N	N/A
3/24/2021	746102	SW 16 Pl & SW 38 Ave	Water Main	6 inch	Valve Leak	Y	25
4/8/2021	749660	1600 NW 8 St	Water Main	8 inch	Age	Y	5
4/19/2021	756961	NE 15 Ave and NE 17 Ct	Water Main	6 inch	Contractor Hit Line	Y	98
4/20/2021	756961	NE 15 Ave and NE 17 Ct	Water Main	8 inch	Contractor Hit Line	Y	98
4/23/2021	756961	NE 15 Ave and NE 17 Ct	Water Main	8 inch	Contractor Hit Line	Y	98
4/28/2021	756961	NE 15 Ave and NE 17 Ct	Water Main	8 inch	Contractor Hit Line	Y	43
5/13/2021	765890	SE 9 Ave & Ponce De Leon Dr	Water Main	6 inch	Water Line Break	Y	23
5/17/2021	766772	NE 14 Ave & NE 11 St	Water Main	6 inch	Bell Joint Leak	Y	5

Sewer Main Breaks

Date of Break/PBWN	Q-Alert	Address	Type	Size	Cause	Volume (Gal)	SSO Issued?	Impacted Properties
3/21/2021	744806	NE 32 Ave & NE 25 St	Force Main	12 inch	Undetermined, maybe due to contractor	10,060	Y	30
3/28/2021	747601	888 Intracoastal Dr	Force Main	18 inch	Age	2,000	Y	540
4/18/2021	756172	NW 13th St & NW 7th Ave	Force Main	24 inch	Age	12,750	Y	60
5/15/2021	766437	NW 13 St & NW 4 Ave	Force Main	24 inch	Age	1,000	Y	N/A
5/17/2021	767175	2601 NE 21 St	Force Main	16 inch	Contractor Damage	14,525	Y	173

CIP Financial Report

Index Code / Project Title	Category	Project Status	Budget	Actuals as of June 1, 2021	% Spent to Date as of June 1, 2021	Encumbrances	Remaining Balance as of June 1, 2021
FD495.01 WATER & SEWER MASTER PLAN 2017	Finance	Implementation	19,822,900.00	15,045,058.00	76%	1,213,051.96	3,564,790.04
FD496.01 WATER & SEWER REGIONAL MASTER PLAN 2017	Finance	Implementation	1,983,854.00	1,785,093.00	90%	12,695.25	186,065.75
P10814.495 CENTRAL NEW RIVER W/MAIN RIVER CROSSING	Watermain	Design	1,632,562.00	140,144.41	9%	722,524.93	769,892.66
P10850.495 VICTORIA PARK A NORTH-SMALL WATERMAINS	Watermain	Construction	4,435,773.00	4,417,606.14	100%	18,166.46	0.40
P11080.495 PORT CONDO SMALL WATER MAIN IMPROVEMENTS	Watermain	Bidding	557,559.00	50,388.10	9%	57,881.65	449,289.25
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB	I&I	Construction	5,832,153.00	5,415,971.28	93%	129,487.72	286,694.00
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB	I&I	Construction	4,268,936.00	3,297,553.24	77%	282,235.00	689,147.76
P11589.495 FIVEASH WTP DISINFECTION IMPROVEMENTS	Fiveash Upgrades	Construction	17,328,046.00	977,911.15	6%	280,238.96	16,069,895.89
P11901.495 VICTORIA PK STH SM WATERMAINS IMPROVEMNT	Watermain	Construction	5,149,658.00	5,129,329.03	100%	20,328.46	0.51
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION	I&I	Construction	2,000,000.00	5,742.00	0%	-	1,994,258.00
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS	I&I	Construction	1,318,983.00	585,188.00	44%	321,216.16	412,578.84
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB	I&I	Construction	3,883,475.00	3,704,920.57	95%	148,315.07	30,239.36
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL	Sewer Force main	Construction	478,014.00	478,013.50	100%	-	0.50
P12180.495 CROISSANT PARK SMALL WATER MAINS	Watermain	Construction	3,060,125.00	2,822,718.37	92%	-	237,406.63
P12184.495 DAVIE BLVD 18" WM ABAN I-95 TO SW 9 AVE	Watermain	On Hold	2,075,500.00	297,692.25	14%	55,603.75	1,722,204.00
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN	Sewer Basin	Construction	1,254,020.00	1,222,607.61	97%	20,250.00	11,162.39
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP	Sewer Force main	Complete	2,697,298.64	2,697,298.64	100%	-	-
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING	Sewer Force main	Complete	609,000.00	608,999.50	100%	-	0.50
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation & Planning	-	-	-	0.13	(0.13)
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS	Master Plan/Report	Project Initiation & Planning	-	-	-	0.03	(0.03)
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation & Planning	752,000.00	688,275.16	92%	63,724.52	0.32
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS	Master Plan/Report	Project Initiation & Planning	115,000.00	106,041.32	92%	8,958.51	0.17
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT	Sewer Force main	Design	4,784,890.00	329,457.80	7%	551,531.73	3,903,900.47
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM	Sewer Force main	Design	11,096,690.00	417,996.74	4%	800,856.80	9,877,836.46
P12385.496 SE 10TH AV 48" FM REPL & 36" BYPASS	Sewer Force main	Cancelled	18,326.00	18,326.00	100%	-	-
P12386.496 54" FM RPL SE 9TH/10TH AV & NEW PARALLEL	Sewer Force main	Project Initiation & Planning	6,072.00	6,072.00	100%	-	-
P12387.496 EFFLUENT MAIN REHABILITATION	Sewer Force main	Project Initiation & Planning	8,184,000.00	70,055.00	1%	294.00	8,113,651.00
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT	Sewer Force main	Construction	3,313,090.00	1,997,247.11	60%	1,315,842.89	-
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH	Sewer Force main	Construction	2,112,550.00	436,328.14	21%	1,676,220.46	1.40
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2	Sewer Force main	Construction	2,500,000.00	2,399,371.21	96%	11,020.00	89,608.79
P12391.495 BERMUDA RIVIERA SML WTRMN IMPROVEMENTS	Watermain	Construction	4,976,700.00	4,416,089.70	89%	415,165.02	145,445.28
P12395.495 PEELE DIXIE ELECTRICAL STUDIES	Peele Dixie Upgrades	Construction	210,000.00	60,578.00	29%	11,870.00	137,552.00
P12396.495 PEELE DIXIE SURGE PROTECTION UPGRADES	Peele Dixie Upgrades	Bidding	100,000.00	25,152.00	25%	14,075.00	60,773.00
P12399.495 FIVEASH WTP PCCP REPLACEMENT	Fiveash Upgrades	Complete	33,511.00	36,643.00	109%	-	(3,132.00)
P12400.495 PROSPECT WELLFIELD ELC STUDIES & TESTING	Master Plan/Report	Complete	185,000.00	1,168.00	1%	-	183,832.00
P12402.495 PEELE DIXIE WELLFIELD ELC STUD & TESTING	Master Plan/Report	Construction	150,000.00	45,406.50	30%	12,212.50	92,381.00
P12404.495 EXCAVATE & DISPOSE OF DRY LIME SLUDGE	Fiveash Upgrades	Warranty	4,600,000.00	4,228,973.31	92%	-	371,026.69
P12406.496 REDUNDANT FORCE MAIN FROM B-REPUMP	Sewer Force main	Bidding	10,377.00	10,377.00	100%	-	-
P12407.495 SUBACQUEOUS FM CROSSING REINSTATEMENT	Sewer Force main	Cancelled	-	-	-	-	-
P12410.495 PUMP STATION C-1 REPLACEMENT	Sewer Force main	Bidding	620,000.00	11,136.00	2%	-	608,864.00
P12412.495 PUMP STATIONS A-16 UPGRADE	Sewer Force main	Design	3,000,000.00	14,094.00	0%	-	2,985,906.00
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE	Sewer Force main	Construction	580,000.00	473,121.12	82%	65,970.28	40,908.60
P12414.495 GRAVITY PIPE IMPV TO DWNTWN COL SYSTM	Sewer Force main	Bidding	3,143,000.00	191,730.15	6%	582,770.85	2,368,499.00
P12415.495 PUMP STATION A-7 UPGRADE	Sewer Force main	Construction	2,211,862.00	285,390.56	13%	1,756,155.84	170,315.60
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12419.495 FORCE MAIN ASSESSMENT	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-

Index Code / Project Title	Category	Project Status	Budget	Actuals as of June 1, 2021	% Spent to Date as of June 1, 2021	Encumbrances	Remaining Balance as of June 1, 2021
P12419.496 FORCE MAIN ASSESSMENT	Master Plan/Report	Project Initiation & Planning	-	-	-	-	-
P12456.495 SEWER BASIN D-40 REHAB	Sewer Basin	Project Initiation & Planning	169,237.00	9,963.51	6%	19,778.75	139,494.74
P12463.495 CORAL SHORES SML WATERMAIN IMPROVEMENTS	Watermain	Construction	1,118,998.00	13,072.00	1%	1,105,926.00	-
P12485.495 FIVEASH WTP FILTERS REHABILITATION	Fiveash Upgrades	Construction	3,720,000.00	59,067.19	2%	66,772.81	3,594,160.00
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP	Sewer Force main	Construction	24,725,379.00	23,217,652.63	94%	1,507,725.49	0.88
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP	Sewer Force main	Construction	35,750,000.00	26,972,021.15	75%	6,573,615.05	2,204,363.80
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	1,928,910.00	1,928,910.00	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT	Watermain	Complete	309,875.00	-	-	-	309,875.00
P12618.495 DOLPHIN ISLES B-14 SEWER BASIN REHAB	Sewer Basin	Project Initiation & Planning	365,000.00	5,655.00	2%	-	359,345.00
P12619.495 BAYVIEW DR 16" FM TO PUMP STATION B-14	Sewer Force main	Design	2,570,000.00	57,142.69	2%	115,004.84	2,397,852.47
P12620.495 LAS OLAS MARINA PUMP STATION D-31	Sewer Force main	Project Initiation & Planning	2,500,000.00	-	-	-	2,500,000.00
P12628.495 INTERLOCAL AGREEMENT WITH POMPANO BEACH	Master Plan/Report	Project Initiation & Planning	299,455.00	-	-	299,455.00	-
Totals			204,547,778.64	117,214,748.78	57%	20,256,941.87	67,076,087.99

Consent Order Projects Financial Report Summary
June 1, 2021

Consent Order Projects by Category	Total Budget Amount	Actuals spent to Date as of June 1, 2021	% Spent to Date as of June 1, 2021	Encumbrances as of June 1,2021	Balance as of June 1, 2021
GTL Upgrades	600,000.00	124,245.50	21%	2.50	475,752.00
I&I	37,844,732.00	23,889,073.72	63%	7,228,984.86	6,726,673.42
Master Plan/Report	8,550,322.31	6,054,132.99	71%	1,179,017.10	1,317,172.22
Sewer Basin	2,195,642.05	2,163,242.37	99%	20,250.05	12,149.63
Sewer Force Main	135,427,098.68	89,366,501.99	66%	13,538,578.49	32,522,018.20
Stormwater	72,219,893.00	3,489,391.09	5%	5,490,507.27	63,239,994.64
Watermain	2,238,785.00	1,928,910.00	86%	-	309,875.00
Grand Total	259,076,473	127,015,498	49%	27,457,340	104,603,635

No changes to Total Budget Amounts since 5/3/2021 ITFAC meeting

Consent Order Projects Financial Report
June 1, 2021

Index Code / Project Title	Category	Project Status	Budget	Actuals as of June 1, 2021	% Complete	Encumbrances as of June 1, 2021	Remaining Balances as of June 1, 2021
P11563.454 VICTORIA PARK SEWER BASIN A-19 REHAB			1,606,619	1,296,840		309,778	1
P11563.482 VICTORIA PARK SEWER BASIN A-19 REHAB			-	-		-	-
P11563.495 VICTORIA PARK SEWER BASIN A-19 REHAB			5,832,153	5,415,971		129,488	286,694
P11563 TOTAL PROJECT COSTS	I&I	Construction	7,438,772	6,712,811	90%	439,266	286,695
P11566.454 RIO VISTA SEWER BASIN D-43 REHAB			3,523,431	1,863,012		918,532	741,886
P11566.482 RIO VISTA SEWER BASIN D-43 REHAB			381	381		-	-
P11566.495 RIO VISTA SEWER BASIN D-43 REHAB			4,268,936	3,297,553		282,235	689,148
P11566 TOTAL PROJECT COSTS	I&I	Construction	7,792,748	5,160,947	66%	1,200,767	1,431,034
P11868.470 RIVER OAKS STORMWATER ANALYSIS			957,578	887,514		19,011	51,053
P11868.473 RIVER OAKS STORMWATER ANALYSIS			37,975,000	397,102		3,297,338	34,280,560
P11868 TOTAL PROJECT COSTS	Stormwater	Bidding	38,932,578	1,284,616	3%	3,316,349	34,331,613
P11879.454 PUMP STATION B-10 REHAB			1,908,427	1,908,427		-	-
P11879 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,908,427	1,908,427	100%	-	-
P11842.470 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			1,928,448	1,821,153		12,152	95,143
P11842.473 EDGEWOOD STORMWATER PRELIMINARY DATA & REPORT			30,475,000	250,897		2,104,463	28,119,640
P11842 TOTAL PROJECT COSTS	Stormwater	Design	32,403,448	2,072,051	6%	2,116,614	28,214,783
P11881.454 PUMP STATION D-45 REHABILITATION			509,868	509,868		-	(0)
P11881 TOTAL PROJECT COSTS	Sewer Force Main	Complete	509,868	509,868	100%	-	(0)
P11991.454 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			9,664,894	3,837,290		4,714,963	1,112,641
P11991.482 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			3,335	3,335		-	-
P11991.495 DOWNTOWN SEWER BASIN PS A-7 REHABILITATION			2,000,000	5,742		-	1,994,258
P11991 TOTAL PROJECT COSTS	I&I	Construction	11,668,229	3,846,367	33%	4,714,963	3,106,899
P12001.454 SEWER BASIN D-40 REHAB			731,713	731,713		-	-
P12001.482 SEWER BASIN D-40 REHAB			3,766	3,766		-	-
P12001 TOTAL PROJECT COSTS	Sewer Basin	Complete	735,479	735,479	100%	-	-
P12049.454 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			2,457,469	1,208,901		-	1,248,568
P12049.482 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			8,255	8,255		-	-
P12049.495 FLAGLER HEIGHTS SWR BASIN A-21 LATERALS			1,318,983	585,188		321,216	412,579
P12049 TOTAL PROJECT COSTS	I&I	Construction	3,784,707	1,802,344	48%	321,216	1,661,147
P12055.454 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,276,801	2,661,684		404,457	210,659
P12055.482 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			-	-		-	-
P12055.495 BASIN A-18 SANITARY SWR COLL SYSTM REHAB			3,883,475	3,704,921		148,315	30,239
P12055 TOTAL PROJECT COSTS	I&I	Construction	7,160,276	6,366,605	89%	552,772	240,899
P12124.454 CNTRL BCH ALLIANCE PUMP STN REPLAC D-41			2,132,448	2,132,448		-	-
P12124 TOTAL PROJECT COSTS	Sewer Force Main	Complete	2,132,448	2,132,448	100%	-	-
P12133.454 PUMP STN A-13 REDIRECTION E OF FEDERAL			4,454,899	4,130,630		64,867	259,402
P12133.495 PUMP STN A-13 REDIRECTION E OF FEDERAL			478,014	478,014		-	1
P12133 TOTAL PROJECT COSTS	Sewer Force Main	Construction	4,932,913	4,608,644	93%	64,867	259,403
P12177.454 E LAS OLAS 12" FORCE MAIN REPLACEMENT			1,689,730	1,689,730		-	-
P12177 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,689,730	1,689,730	100%	-	-
P12202.454 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			206,143	205,156		0	987
P12202.495 LIFT STATN D-11 FLOW ANALYSIS & REDESIGN			1,254,020	1,222,608		20,250	11,162
P12202 TOTAL PROJECT COSTS	Sewer Basin	Construction	1,460,163	1,427,763	98%	20,250	12,150
P12264.470 CITYWIDE CANAL DREDGING PLAN - CYCLE 1			883,867	132,724		57,544	693,599
P12264 CITYWIDE CANAL DREDGING PLAN - CYCLE 1	Stormwater	Design	883,867	132,724	15%	57,544	693,599
P12319.454 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			13,182,064	13,182,064		-	-
P12319.495 EMERG REPAIR 30" FM - REPUMP TO GTL WWTP			2,697,299	2,697,299		-	-
P12319 TOTAL PROJECT COSTS	Sewer Force Main	Complete	15,879,363	15,879,363	100%	-	-
P12352.454 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			874,016	874,015		0	(0)
P12352.495 S MIDDLE RIVER FORCE MAIN RIVER CROSSING			609,000	609,000		-	1
P12352 TOTAL PROJECT COSTS	Sewer Force Main	Complete	1,483,016	1,483,015	100%	0	1
P12367.495 ASSET MANAGEMENT & CMOM PROGRAMS			66,017	66,017		-	-
P12367.496 ASSET MANAGEMENT & CMOM PROGRAMS			15,485	15,485		-	-
FD495.01 Water & Sewer Master Plan 2017			457,111	399,050		58,061	(0)
FD496.01 Water & Sewer Regional Master Plan 2017			107,224	93,604		13,619	1

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Index Code / Project Title	Category	Project Status	Budget	Actuals as of June 1, 2021	% Complete	Encumbrances as of June 1, 2021	Remaining Balances as of June 1, 2021
P12367 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	645,837	574,157	89%	71,680	1
P12368.495 SEWER CAPACITY ANLY FOR GRAVITY & FM			705,709	704,838		871	0
P12368.496 SEWER CAPACITY ANLY FOR GRAVITY & FM			34,571	34,528		43	0
PBS060101 UTLITIES ENGINEERING OPERATIONS			200,279	198,662		1,617	(0)
PBS670501 LOHMEYER REGIONAL PLANT SUPPORT			9,811	9,732		79	0
P12368 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	950,370	947,760	100%	2,610	(0)
P12375.451 PROG MGMT OF CONSENT ORDER PROJECTS			662,758	380,732		30,039	251,987
P12375.454 PROG MGMT OF CONSENT ORDER PROJECTS			1,013,442	-		-	1,013,442
P12375.495 PROG MGMT OF CONSENT ORDER PROJECTS			752,000	659,541		46,157	46,301
P12375.496 PROG MGMT OF CONSENT ORDER PROJECTS			115,000	105,654		3,905	5,441
P12375 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	2,543,200	1,145,928	45%	80,101	1,317,172
P12383.451 NE 25TH AVE FORCE MAIN REPLACEMENT			1,277,249	-	0%	-	1,277,249
P12383.496 NE 25TH AVE FORCE MAIN REPLACEMENT			4,784,890	329,458		551,532	3,903,900
P12383 TOTAL PROJECT COSTS	Sewer Force Main	Design	6,062,139	329,458	5%	551,532	5,181,149
P12384.496 NE 38TH ST 42" FM & NE 19TH AV 24" FM			11,096,690	417,997		800,857	9,877,836
P12384 TOTAL PROJECT COSTS	Sewer Force Main	Design	11,096,690	417,997	4%	800,857	9,877,836
P12387.496 EFFLUENT MAIN REHABILITATION			8,184,000	70,055		294	8,113,651
P12387 TOTAL PROJECT COSTS	Sewer Force Main	Project Initiation & Planning	8,184,000	70,055	1%	294	8,113,651
P12388.454 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,761,244	74,995		67,987	3,618,262
P12388.495 NE 13TH ST 24" FORCE MAIN REPLACEMENT			3,313,090	1,997,247		1,315,843	-
P12388 TOTAL PROJECT COSTS	Sewer Force Main	Construction	7,074,334	2,072,242	29%	1,383,830	3,618,262
P12389.454 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			988,620	39,708		30,417	918,496
P12389.495 18" FM RPL ACROSS NEW RVR FRM 9TH/ BIRCH			2,112,550	436,328		1,676,220	1
P12389 TOTAL PROJECT COSTS	Sewer Force Main	Construction	3,101,170	476,036	15%	1,706,637	918,497
P12390.454 16" FM ALONG LAS OLAS BLVD PHASE 2			2,393,000	637,577		1,899	1,753,524
P12390.495 16" FM ALONG LAS OLAS BLVD PHASE 2			2,500,000	2,399,371		11,020	89,609
P12390 TOTAL PROJECT COSTS	Sewer Force Main	Construction	4,893,000	3,036,948	62%	12,919	1,843,133
P12413.454 FM FROM PUMP STN D-35 TO D-36 UPSIZE			900,000	291,943		400,878	207,179
P12413.495 FM FROM PUMP STN D-35 TO D-36 UPSIZE			580,000	473,121		65,970	40,909
P12413 TOTAL PROJECT COSTS	Sewer Force Main	Warranty	1,480,000	765,064	52%	466,848	248,088
P12418.495 WTR & W/WTR D & C SYSTEM MAPPING			3,441,352	2,416,726		1,024,626	0
P12418 TOTAL PROJECT COSTS	Master Plan/Report	Project Initiation & Planning	3,441,352	2,416,726	70%	1,024,626	0
P12419.495 FORCE MAIN ASSESSMENT			8,956	8,956		-	-
P12419.496 FORCE MAIN ASSESSMENT			439	439		-	-
FD495.01 Water & Sewer Master Plan 2017			915,328	915,328		-	-
FD496.01 Water & Sewer Regional Master Plan 2017			44,840	44,840		-	-
P12419 TOTAL PROJECT COSTS	Master Plan/Report	Complete	969,563	969,563	100%	-	-
P12529.451 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS			600,000	124,246		3	475,752
P12529 EFFLUENT PUMPS STANDBY GENERATOR & ADMIN BLDG IMPROVEMENTS	GTL Upgrades	Project Initiation & Planning	600,000	124,246	21%	3	475,752
P12566.451 REDUNDANT SEWER FM NORTH TO GTL WWTP			4,524,621	3,797,533		469,454	257,634
P12566.496 REDUNDANT SEWER FM NORTH TO GTL WWTP			24,725,379	23,217,653		1,507,725	1
P12566 TOTAL PROJECT COSTS	Sewer Force Main	Construction	29,250,000	27,015,186	92%	1,977,179	257,634
P12567.496 REDUNDANT SEWER FM SOUTH TO GTL WWTP			35,750,000	26,972,021		6,573,615	2,204,364
P12567 TOTAL PROJECT COSTS	Sewer Force Main	Construction	35,750,000	26,972,021	75%	6,573,615	2,204,364
P12569.495 NE 5TH STREET FORCE MAIN IMPROVEMENT			1,928,910	1,928,910		-	-
P12569 TOTAL PROJECT COSTS	Watermain	Complete	1,928,910	1,928,910	100%	-	-
P12570.495 36TH STREET FORCE MAIN IMPROVEMENT			309,875	-	0%	-	309,875
P12570 TOTAL PROJECT COSTS	Watermain	Complete	309,875	-	0%	-	309,875
Grand Total			259,076,473	127,015,498	49%	27,457,340	104,603,635

Impact Fees paid by Developers

WATER AND SEWER FEE REPORT

Fees Collected between 4/1/2021 and 5/31/2021

Account No.	Address	Permit No.	Issue Date	Amount	Description	Category	Project No.	Staff	Employee
ENG0021									
2021									
BLD-PBA-19110001 Permit by Affidavit									
1948407	71935345	05/26/2021	1448510	\$12,753.09	Payment Applied	ENG0021	BLD-PBA-19110001	Aukela Holloway	FTL Employee
1948432	71935600	05/26/2021	1448565	\$8,065.89	Payment Applied	ENG0021	BLD-PBA-19110001	Aukela Holloway	FTL Employee
BLD-PBA-19110002 Permit by Affidavit									
1948435	71935347	05/26/2021	1448509	-\$21,020.79	Void Payment Applied	ENG0021	BLD-PBA-19110002	Aukela Holloway	FTL Employee
1948435	71935602	05/26/2021	1448570	\$14,361.06	Payment Applied	ENG0021	BLD-PBA-19110002	Aukela Holloway	FTL Employee
ENG0022									
2021									
BLD-PBA-19110001 Permit by Affidavit									
1948407	71935346	05/26/2021	1448510	\$27,151.74	Payment Applied	ENG0022	BLD-PBA-19110001	Aukela Holloway	FTL Employee
1948432	71935601	05/26/2021	1448565	\$17,172.54	Payment Applied	ENG0022	BLD-PBA-19110001	Aukela Holloway	FTL Employee
BLD-PBA-19110002 Permit by Affidavit									
1948435	71935348	05/26/2021	1448509	-\$44,753.94	Void Payment Applied	ENG0022	BLD-PBA-19110002	Aukela Holloway	FTL Employee
1948435	71935603	05/26/2021	1448570	\$30,575.16	Payment Applied	ENG0022	BLD-PBA-19110002	Aukela Holloway	FTL Employee
ENG0470									
2021									
BLD-CADD-20110002 Commercial Addition Permit									
1948772	71893783	05/27/2021	1426068	\$2,473.28	Payment Applied	ENG0470	BLD-CADD-20110002	ECPE	ecpermits954@gmail.com Lake Ridge Civic Association,
BLD-CALT-20060033 Commercial Alteration Permit									
1947382	71867017	05/20/2021	1414686	\$44.97	Payment Applied	ENG0470	BLD-CALT-20060033	Theresa Sisto	FTL Employee Tarpon River Civic Association
BLD-CNC-20080008 Commercial New Construction Permit									
1943700	71652994	05/04/2021	1293959	\$868.48	Payment Applied	ENG0470	BLD-CNC-20080008	Hope Baker	FTL Employee Lake Aire Palm View Homeowners
BLD-CNC-20110004 Commercial New Construction Permit									
1948974	71827462	05/28/2021	1393684	\$5,097.60	Payment Applied	ENG0470	BLD-CNC-20110004	BarronCD	jmenkhus@barronde.com Flagler Village Civic Associat
BLD-CNC-20120017 Commercial New Construction Permit									
1948736	71908959	05/27/2021	1434008	-\$32,851.20	Void Payment Applied	ENG0470	BLD-CNC-20120017	Danielle Murray	FTL Employee Colee Hammock Homeowners Assoc
BLD-CU-20110005 Change of Use									
1948683	71875415	05/27/2021	1417913	\$3,738.24	Payment Applied	ENG0470	BLD-CU-20110005	Sheena Brownlee	FTL Employee Middle River Terrace Neighborh
ENG0471									
2021									
BLD-RADD-21010009 Residential Addition Permit									
1942906	71903331	04/30/2021	1430807	\$1,888.00	Payment Applied	ENG0471	BLD-RADD-21010009	Monyck30	Monyck30@yahoo.com Harbor Beach Homeowners Associ
BLD-RNC-20020002 Residential New Construction Permit									
1940238	68879273	04/20/2021	1203909	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-20020002	anonymous	anonymous@anonymous.com Victoria Park Civic Associatio
BLD-RNC-20070008 Residential New Construction Permit									
1943535	71800949	05/04/2021	1382352	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-20070008	kdgroup	kaizerdesigngroup@gmail.com Hendricks and Venice Isles
BLD-RNC-20080001 Residential New Construction Permit									
1937000	71745316	04/01/2021	1352515	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-20080001	Gorod	Gorodbuilders@gmail.com Riverside Park Residents Assoc
BLD-RNC-20080017 Residential New Construction Permit									
1940580	71639514	04/21/2021	1287851	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-20080017	anonymous	anonymous@anonymous.com LAUDERDALE
BLD-RNC-20090009 Residential New Construction Permit									
1945461	71659191	05/12/2021	1296661	\$3,776.00	Payment Applied	ENG0471	BLD-RNC-20090009	tgestido	tgestido@gestidoconstruction.com Durrs Community Association, I
BLD-RNC-20120007 Residential New Construction Permit									
1944323	71852786	05/06/2021	1408109	\$7,552.00	Payment Applied	ENG0471	BLD-RNC-20120007	lwalker@coloneygroup.com	lwalker@coloneygroup.com Lake Ridge Civic Association,
BLD-RNC-20120011 Residential New Construction Permit									
1944909	71780800	05/10/2021	1370954	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-20120011	Berni	bernardo.borgia@epcontractor.com Tarpon River Civic Association
BLD-RNC-21010002 Residential New Construction Permit									
1941407	71810520	04/26/2021	1386414	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-21010002	Rivens Desamour	FTL Employee Victoria Park Civic Associatio
BLD-RNC-21020011 Residential New Construction Permit									
1942205	71858168	04/28/2021	1410401	\$1,888.00	Payment Applied	ENG0471	BLD-RNC-21020011	Rivens Desamour	FTL Employee Victoria Park Civic Associatio
BLD-RNC-21030009 Residential New Construction Permit									
1946627	71867603	05/18/2021	1414639	\$3,776.00	Payment Applied	ENG0471	BLD-RNC-21030009	citadel	justin.w.singer@gmail.com Durrs Community Association, I
ENG0480									
2021									
BLD-CADD-20110002 Commercial Addition Permit									
1948772	71893784	05/27/2021	1426068	\$2,589.87	Payment Applied	ENG0480	BLD-CADD-20110002	ECPE	ecpermits954@gmail.com Lake Ridge Civic Association,
BLD-CALT-20060033 Commercial Alteration Permit									
1947379	71867018	05/20/2021	1414686	\$2,178.76	Payment Applied	ENG0480	BLD-CALT-20060033	Theresa Sisto	FTL Employee Tarpon River Civic Association
BLD-CNC-20080008 Commercial New Construction Permit									
1943700	71652995	05/04/2021	1293959	\$909.42	Payment Applied	ENG0480	BLD-CNC-20080008	Hope Baker	FTL Employee Lake Aire Palm View Homeowners
BLD-CNC-20110004 Commercial New Construction Permit									
1948974	71827463	05/28/2021	1393684	\$5,337.90	Payment Applied	ENG0480	BLD-CNC-20110004	BarronCD	jmenkhus@barronde.com Flagler Village Civic Associat

BLD-CNC-20120017				Commercial New Construction Permit					
1948736	71908960	05/27/2021	1434008	\$34,399.80	Payment Applied	ENG0480	BLD-CNC-20120017	ericmetz	emetz@metzreg.com Colee Hammock Homeowners Assoc
BLD-CU-20110005				Change of Use					
1948683	71875416	05/27/2021	1417913	\$3,914.46	Payment Applied	ENG0480	BLD-CU-20110005	Sheena Brownlee	FTL Employee Middle River Terrace Neighborh

ENG0481 2021									
BLD-RADD-21010009 Residential Addition Permit									
1942906	71903332	04/30/2021	1430807	\$1,977.00	Payment Applied	ENG0481	BLD-RADD-21010009	Monyck30	Monyck30@yahoo.com Harbor Beach Homeowners Associ
BLD-RNC-20020002 Residential New Construction Permit									
1940238	68879274	04/20/2021	1203909	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-20020002	anonymous	anonymous@anonymous.com Victoria Park Civic Associatio
BLD-RNC-20070008 Residential New Construction Permit									
1943535	71800950	05/04/2021	1382352	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-20070008	kdgroup	kaizerdesigngroup@gmail.com Hendricks and Venice Isles
BLD-RNC-20080001 Residential New Construction Permit									
1937000	71745317	04/01/2021	1352515	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-20080001	Gorod	Gorodbuilders@gmail.com Riverside Park Residents Assoc
BLD-RNC-20080017 Residential New Construction Permit									
1940580	71639515	04/21/2021	1287851	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-20080017	anonymous	anonymous@anonymous.com LAUDERDALE
BLD-RNC-20090009 Residential New Construction Permit									
1945461	71659192	05/12/2021	1296661	\$3,954.00	Payment Applied	ENG0481	BLD-RNC-20090009	tgestido	tgestido@gestidoconstruction.com Durrs Community Association, I
BLD-RNC-20120007 Residential New Construction Permit									
1944323	71852787	05/06/2021	1408109	\$7,908.00	Payment Applied	ENG0481	BLD-RNC-20120007	lwalker@coloneygroup.com	lwalker@coloneygroup.com Lake Ridge Civic Association,
BLD-RNC-20120011 Residential New Construction Permit									
1944909	71780801	05/10/2021	1370954	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-20120011	Berni	bernardo.borgia@epcontractor.com Tarpon River Civic Association
BLD-RNC-21010002 Residential New Construction Permit									
1941407	71810519	04/26/2021	1386414	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-21010002	Rivens Desamour	FTL Employee Victoria Park Civic Associatio
BLD-RNC-21020011 Residential New Construction Permit									
1942205	71858169	04/28/2021	1410401	\$1,977.00	Payment Applied	ENG0481	BLD-RNC-21020011	Rivens Desamour	FTL Employee Victoria Park Civic Associatio
BLD-RNC-21030009 Residential New Construction Permit									
1946627	71867604	05/18/2021	1414639	\$3,954.00	Payment Applied	ENG0481	BLD-RNC-21030009	citadel	justin.w.singer@gmail.com Durrs Community Association, I

From: [Kymberly Holcombe](#)
To: [Patricia Jolly](#)
Cc: [Kenya Baker](#); [Shannon Barrett](#); [Diane Lichenstein](#); [Amaris Rosario](#)
Subject: FW: Water and Sewer Impact Fees
Date: Thursday, June 3, 2021 2:00:30 PM

Good afternoon.

Last fiscal year, FY 2020, the City collected \$1,889,223 in Water expansion/impact fees and \$1,218,252 in Sewer expansion/impact fees, for a total of \$3,107,475. \$2,700,000 of that was used towards the Water and Sewer bond debt payment leaving the remaining funds to source other respective expansions.

To date in FY 2021, the City has collected \$897,547 in Water expansion/impact fees and \$611,993 in Sewer expansion/impact fees, for a total of \$1,509,540.

FY 2022 Community Investment Plan (CIP) projects request appropriation of Water and Sewer expansion/impact fees to source the following expansion projects, respectively:

\$1,800,000 P12564 C-51 Reservoir (Water)

\$900,000 P12605 New Pumping Station Flagler Village A-24 (Sewer)

Kymberly Holcombe 
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