

Update on Infrastructure Projects & Drainage Analysis

City of New Orleans September 26, 2019

Moody's Upgrades City of New Orleans GO to A2

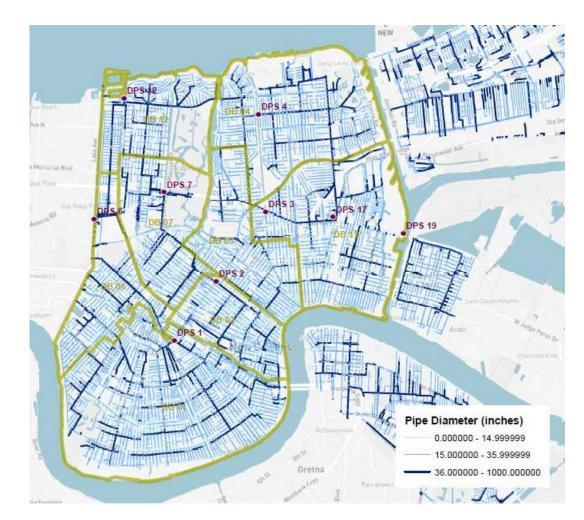
The upgrade to A2 reflects the city's consistent trend of economic growth which has led to increased revenues and an improved financial position. The upgrade further incorporates the city's large and growing tax base and economy which benefits from the presence of several institutions of higher education and a thriving tourism industry. Investments of over \$14B by the federal and state governments along with the city have boosted the city's resilience to environmental risks, as well as continued strategic planning for further capital improvements to mitigate the impact of environmental events. These initiatives on top of the city's improved financial profile positions the city as better prepared to manage future challenges associated with its significant exposure to environmental risks.



Infrastructure Challenges

DPW Drainage System

- More than 72,000 catch basins
- More than 1,500 miles of pipes under 36" in diameter carry water from catch basins to SWBNO system
- More than 48,000 drainage manholes allow access for inspection and maintenance of drain lines and connections





City, Sewerage and Water Board Provide Statement on Observed Flooding – May 12, 2019



City of New Orleans

Mayor LaToya Cantrell

FOR IMMEDIATE RELEASE May 12, 2019

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City, Sewerage and Water Board Provide Statement on

Observed Flooding

NEW ORLE ANS — Today, the City of New Orleans and the Sewerage and Water Board of New Orleans released the following statement on observed flooding during morning storms:

More than five inches of rain fell in parts of the city between 11 p.m. and 6 a.m., with bouts of heavy rain at rates of two inches an hour and higher sparking Flash Flood Warnings. Widespread street flooding was reported throughout the city, most of which cleared within two hours. While today's event showed some improvements in the drainage system, observed flooding in some areas took notably longer to drain. Those areas include:

- Area bounded by Canal Boulevard, West End Boulevard, City Park Avenue, and Filmore Avenue
- · Broad Street and Orleans Avenue corridors
- · Banks Street corridor
- Franklin Avenue at I-610/I-10 overpass
- Napoleon Avenue from Claiborne Avenue to Broad Street
- St. Bernard Avenue corridor
- St. Claude Avenue from Elysian Fields Avenue to the Lower 9th Ward
- · General De Gaulle and Wall Boulevards corridor

As we work to continuously improve stormwater management in frastructure, the City and the Severage and Water Board will analyze today's rain event and its impact. Using pump station and rain gauge data, drainage surveys, and video analysis, we will work to determine rainwater volume versus drainage capacity and to identify potential opportunities for drainage improvements.

"My administration has been laser-focused on infrastructure as a whole and stormwater management in particular," said Mayor LaToya Cantrell. "As we face our issues head on, we are using data and experience to better live with water."

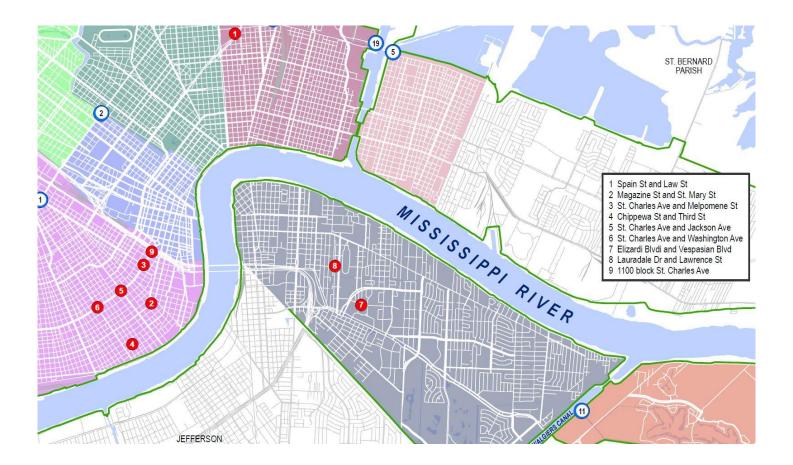
Residents are encouraged to report dogged catch basins and areas of poor drainage to 3-1-1.

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Drainage Analysis

Under way at 9 Additional Lingering Flood Locations Identified on August 26th

- Lauradale and Lawrence
- 1100 St. Charles
- Elizardi and Vespasian
- Spain and Law
- Magazine and St. Mary
- St. Charles and Melpomene
- Chippewa and Third
- St. Charles and Jackson
- St. Charles and Washington





Drainage Analysis

Currently Under way

- CCTV, cleaning of catch basins and mainlines, identifying broken pipes throughout city.
- Using the city wide existing drainage model to examine both the effects and possible solutions to flooding.
- Looking at the impacts of current 10" drain lines throughout neighborhoods where flooding has occurred and determining the appropriate line sizes to accommodate present day impervious areas.
- Exploring opportunities for rainwater detention storage in neutral grounds and low lying areas during rain events.
- Studying our City's groundwater and soils and to understand how our water management systems impact the sinking, or subsidence, of our soils.



Infrastructure Accomplishments

Then – May 2018

JIRR Program stalled, less than 1% of Funds Spent

Now – As of August 30, 2019

JIRR Program spending accelerated, approximately 5% (\$75M) of City's \$1.4B Obligation Reimbursed

- Completed 9 road projects worth \$25M
- 12 road projects under construction worth \$80M
- Kicking off construction on 6 road projects worth **\$40M** in next 90 days
- Another 14 projects will be advertised in the next 30 days work approximately **\$90M**.

Where possible, adding permeable pavement to parking lanes on Waves 3 and 4



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Completed Projects



Project Name	Award Amount	Notice to Proceed
Village De L'Est Group A	\$3.6M	11/13/2017
LNW Northwest Group A	\$4.7M	12/14/2017
Lake Terrace & Oaks Group A	\$2.4 M	01/29/2018
Read Blvd East Group A	\$3.9 M	12/04/2017
Gentilly Terrace Group A	\$2.2 M	01/08/2018
LNW Northeast Group A	\$3.4M	01/08/2018
Lakeview North Group A (INC)	\$2.3 M	05/11/2017
Lakeshore Group A	\$1.1 M	04/23/2018
Lakewood Group A	\$1.6 M	06/11/2019

Projects Currently Under Construction





Project Name	Award Amount	Notice to Proceed
Read Blvd West Group A	\$4.8 M	01/08/2018
West Bank Group A (VAR)	\$3.7 M	04/23/2018
Lakeview South Group A	\$5.8 M	07/12/2018
Filmore North Group A	\$4.5 M	02/04/2019
West End Group A	\$5.6 M	02/12/2019
St. Claude Group A	\$3.8 M	02/04/2019
Breakwater Drive (North Roadway - Dead End)	\$5 M	07/01/2019
Taft Place Reconstruction	\$2.2 M	07/08/2019
Filmore South Group A	\$4.4 M	08/12/2019
Little Woods Group A	14 M	08/01/2019
Mid City Group A	\$6.3 M	07/29/2019
Village De L'Est Group B	\$4.7 M	07/15/2019

Projects Currently Advertised

Project ID	Project Name	Construction Start
RR109	RR3 - LNW Northwest Group B (FRC)	Winter 2019
RR132	RR3 - Navarre Group A (FRCPI)	Winter 2019
RR133	RR3 - Pines Village Group A (PMOI)	Winter 2019
RR145	RR3 - Read Blvd East Group B (PC)	Winter 2019
RR146	RR3 - Read Blvd East Group C (PC)	Winter 2019
RR182	RR3 - Treme-Lafitte Group A (INC)	Winter 2019
	Total	Approx. \$40M



2020 Construction Forecast

	# Of Projects Forecasted to Begin Construction	Approx. Construction Cost
Q1 2020	7	\$60M
Q2 2020	21	\$141M
Q3 2020	11	\$88M
Q4 2020	10	\$100M
Total	49	\$389M





Fair Share Agreement



Recurring Funds

Revenue Estimate	Source	Anticipated Effective Date
\$2,500,000	DDD Millage Increase	1/1/20
\$12,000,000	Lost Penny (1%) Sales Tax on hotels only	7/1/19
\$10,500,000	STR Equalization (6.5%) Sales Tax divided into:	Upon Voter Approval (Nov)
\$7,800,000	75% to City (Infrastructure Fund)	
\$2,700,000	25% to New Orleans & Company	
\$5,300,000	Entire Local Privilege Tax less deduction for Merger	1/1/20
\$26,100,000	Total Recurring Funds for Infrastructure	

Other Funds

Revenue Estimate	Source	Anticipated Effective Date
\$17,500,000	GO Zone Repayment Deferral (Cash Flow Only)	8/15/19
~\$2,000,000	Payment in Lieu of Ad Valorem Tax	Upon Completion of MCC Hotel
\$7,300,000 in Priority 1, \$46,700,000 in Priority 4	State Capital Outlay Appropriation for SWBNO Power Plant	Upon Funding by State Bond Commission; est. Fall 2019

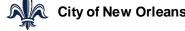
One-Time Funds

Revenue Estimate	Source	Anticipated Effective Date
\$28,000,000	Funds from Morial Convention Center	8/15/19
\$20,000,000	Cash from Reserve	
\$6,000,000	from Convention Center Boulevard	
\$2,000,000	from \$23M French Quarter Safety/RTCC	
\$7,450,000	SWBNO FEMA Revolver Transfer	7/17/19
\$16,000,000	Hazard Mitigation Grant Program re-allocation	Phase 1 11/1/19
\$51,450,000	Total One-Time Funds for Infrastructure	



Fair Share - 2020

- Will lead to more than doubling the Department of Public Works Maintenance staff by then end of 2022
 - 42 additional employees
 - The increase in staff will also allow DPW to bring a number of tasks in-house and increase overall productivity
- Will establish five additional maintenance inspectors (for a total of 10), which will do the following:
 - Inspect and provide next steps for all 311 cases the same week as complaints are logged, effectively cutting response times by 50 percent
 - Provide mandatory inspection of all permits issued in Public Right-of-Way and ensure that City standards/specifications are being followed, effectively reducing future 311 complaints from non-compliance in the Public Right-of-Way
 - Monitor City-wide for unpermitted activities and assist in sending out notices to violators
- Will allow for purchasing 28 pieces of new equipment, all of which will help the crews to operate more efficiently, including:
 - Four Vac Trucks
 - Three Pothole Patchers
 - Two Dump Trucks
 - Four Excavators
 - Two Skid Steers (Support CB/MH and Sidewalk Crews)
 - Nine Pickup Trucks
 - Four Trailers



Fair Share - 2020

- Will lead to 72,000 catch basins being cleaned on a 2-3 year cycle
 - Information about catch basin cleanings and assessments can be tracked on the City's catch basin status map: https://nola.gov/dpw/catch-basins/
- Will establish three exclusive ditching crews that, when working in conjunction with drainage crews will provide comprehensive drainage improvements on a block by
 - 1) re-establishing ditches and
 - 2) installing culverts under driveways when needed
- Will enable the maintenance contractor to permanently pave more than 1,500 cuts annually
- Will establish the following crews:
 - One additional alley crew in Lakeview allows for <u>ALL</u> alleys to be addressed <u>EVERY</u> year
 - Two sidewalk repair crews that will handle 311 cases
 - Two catch basin / manhole repair crews that will handle 311 cases
 - One pothole crew in each of the five council districts
 - One pavement patching crew per council district and one for the DDD

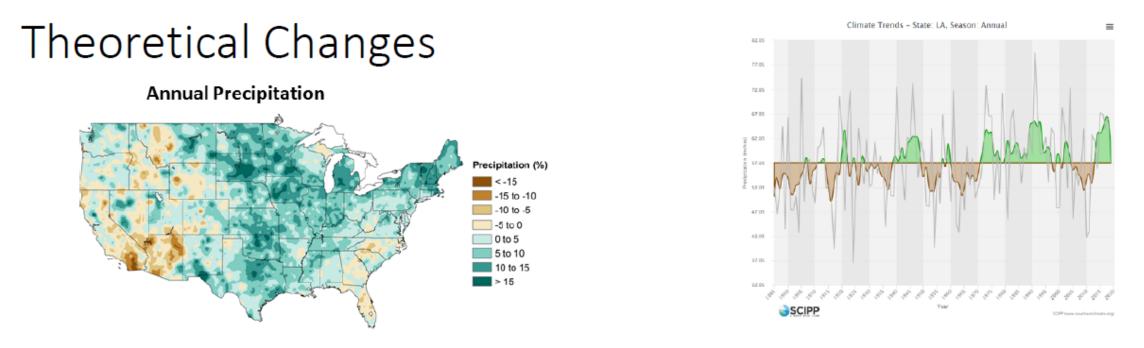


Fair Share – By 2021

- DPW Maintenance will have <u>12 Vac</u> <u>crews operating</u>
- Funds from one-time equipment purchases allow for <u>25 blocks of</u> <u>Asphalt Mill / Overlays and 25 blocks</u> <u>of concrete panel replacements</u> where needed (this number will increase in subsequent years)







- Slight observed trend in annual precipitation but increases in moisture have been more significant, changes are likely to be found in intensity, duration, or frequency.
- "A shift in the nature of precipitation events, favoring more intense events and less frequent events" (Trenberth 2011).
- "It never rains but it pours".



HMGP / NDR Highlights <u>https://nola.gov/resilience/</u>

- In progress on two major green infrastructure/drainage projects (Hagan Lafitte and Pontilly) worth \$21.3M adding more than 10 million gallons of stormwater storage to the system.
- Received the final funding approval for the \$16.3M HMGP portion of the Mirabeau Water Garden project, which will store up to <u>10 million gallons of storm water</u> on the 25-acre site.
- Reached 100% Design on the Broadmoor DPS 01 project, which includes nine New Orleans neighborhoods and will store up to <u>13 million gallons of storm water</u>.
- We recently received FEMA approval on the City Park Storm Water Improvements that includes a system of new weirs that when complete, will store up to <u>49 million gallons of</u> <u>storm water</u>.
- We have also put more than \$87M in new projects in design through the HUD-funded Gentilly Resilience District.



Hagan Lafitte Project

Easton Park Underground Storage Tanks (Will Hold 1.2 Million Gallons of Water)





South Galvez Street Green Infrastructure Features

Pervious Parking Lanes can hold roughly 126,000 gallons of water – more than 1,500 bathtubs full of water





Cherokee Street Green Infrastructure Features

Rain Gardens and Pervious Parking Lanes

