

RESOLUTION NO. 2019-30682

A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE RECOMMENDATION OF THE SUSTAINABILITY AND RESILIENCY COMMITTEE AT ITS SEPTEMBER 26, 2018 MEETING, FOR THE ADMINISTRATION TO: (1) IDENTIFY A TARGETED LEVEL OF SERVICE FOR THE DEPLOYMENT OF TEMPORARY PUMPS, (2) DEVELOP A FISCAL YEAR 2019 (FY2019) BUDGET AND (3) FIND A FUNDING SOURCE FOR THE DEPLOYMENT OF TEMPORARY PUMPS; AND (4) RECOMMEND AN IMPLEMENTATION PROCESS FOR THE DEPLOYMENT OF TEMPORARY PUMPS; WHICH PLAN, BUDGET, AND FUNDING SOURCE ARE SPECIFICALLY DELINEATED IN THIS RESOLUTION, AND ACCEPTED BY THE MAYOR AND CITY COMMISSION.

WHEREAS, to meet the stormwater needs of the City of Miami Beach (the "City"), the City is investing over \$650 million in various infrastructure improvements, which improvements will need to be made over an estimated span of 10 years; and

WHEREAS, the infrastructure improvements include installing larger pipes, building pump stations, and raising roads to ensure that the roads do not flood in future tidal and rainfall events; and

WHEREAS, during King Tide events, to prevent localized street flooding in areas where the roadway elevation is lower than the high tide levels, temporary pumps have been installed at and the water has been pumped to the adjacent canal or Biscayne Bay; and

WHEREAS, typically, pumps have been deployed in these lower areas, such as along upper North Bay Road, Orchard Park, Indian Creek, Tatum Waterway, and other North Beach areas; and

WHEREAS, all temporary pump locations have been permitted through DERM, which deployment incorporates best management practices to protect water quality (including, but not limited to, cleaning of the stormwater system in the area adjacent to the temporary pumps to remove potential pollutants); and

WHEREAS, in Fiscal Year 2018, \$325,410 was spent on temporary pumps, not including the cost of fuel and labor to operate the equipment; and

WHEREAS, costs associated with the increased use of, and requests for, temporary pumps will continue to increase as higher tides occur during each King Tide season; and

WHEREAS, the City's current stormwater rates do not include components for widespread usage of rental temporary pump installations; and

WHEREAS, a continued reliance on temporary equipment to alleviate flooding will require a permanent source of funding, as, until now, the costs have been paid from the stormwater utility's operations and maintenance fund; and **WHEREAS**, the stormwater utility operations and maintenance fund, in its current design, is unable to continue to fund this temporary pump practice into the future without neglecting the intended operations and maintenance obligations for the stormwater system; and

WHEREAS, a resolution regarding the utilization of temporary pumps and generators was placed on the July 25, 2018 City Commission meeting agenda and the City Commission took up the item; and

WHEREAS, after several members provided comments with regards to the draft resolution, the item was referred to the Sustainability and Resiliency Committee for further discussion; and

WHEREAS, at its September 26, 2018 meeting, the Sustainability and Resiliency Committee moved to have the Administration: (1) identify a targeted level of service for temporary pumps; (2)

develop a Fiscal Year 2018 proposed budget for the deployment of temporary pumps; (3) find a permanent funding source; and (4) implement a recommended process for deployment of the temporary pumps; and to (5) bring the item back to the City for approval; and

WHEREAS, consistent with the direction of the Sustainability and Resilience Committee, the Administration has determined that the targeted level of service for temporary pumps, during King Tide events, for previously identified low laying areas not equipped with permanent stormwater pumping stations, will be to maintain the roads passable for vehicles and pedestrians; and

WHEREAS, this level of service will require the City to deploy of at least 25 temporary pumps, at an estimated cost of \$270,000.00 [assuming three (3) months of King Tides, in the Spring, and three (3) months of King Tides, in the Fall], which plan for deployment for temporary pump stations is attached hereto as Exhibit 1; and

WHEREAS, consistent with the direction of the Sustainability and Resiliency Committee, the Administration has identified \$272,000.00 in the Fiscal Year 2019 Stormwater Maintenance and Operations Fund; and

WHEREAS, it is expected that the pumps can keep the roadways free of standing water; provided, however, some additional roadways may experience temporary flooding depending on the magnitude of the tides; and


WHEREAS, the Public Works Department will closely monitor the National Oceanic and Atmospheric Administration (NOAA) tidal predictions for our area and implement deployment of temporary pumps, as needed, and at the discretion of the Public Works Director; and

WHEREAS, the Administration recommends that the recommendation of the Sustainability and Resilience Committee, and the proposed plan and budget for Fiscal Year 2019, relating to the deployment of temporary pumps be approved by the Mayor and City Commission.

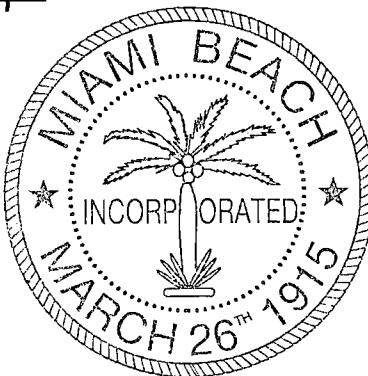
NOW, THEREFORE, BE IT DULY RESOLVED BY THE MAYOR AND THE CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, the Mayor and City Commission accept the recommendation of the Sustainability and Resiliency Committee, at its September 26, 2018 meeting, for the Administration to: (1) identify a targeted level of service for the deployment of temporary pumps, (2) develop a Fiscal Year 2019 (FY 2019) budget, and (3) fund the deployment of temporary pumps; and (4) recommend an implementation process for the deployment of temporary pumps; which plan, budget, and funding source are specifically delineated in this Resolution, and accepted by the Mayor and City Commission.

PASSED and ADOPTED this 16 day of January, 2019

ATTEST:


Rafael E. Granado, City Clerk


Dan Gelber, Mayor



APPROVED AS TO
FORM & LANGUAGE
& FOR EXECUTION


City Attorney

12-18-18
Date



Pump ID	Address
01	85th St. & Byron Ave. (Bridge)
03	82nd Terr. & Byron Ave
05	499 81 St
06	7632 Dickens Ave
07	77th St. & Tatum Waterway
08	1076 Marseille Dr
09	Rue Notre Dame & Marseille Dr
10	1300 Marseille Dr
11	7175 Rue Granville
12	1021 Biraritz Dr
13	1022 Bay Dr
14	6440 N Bay Rd
15	6437 N Bay Rd
16	5860 N Bay Rd
17	5619 N Bay Rd
18	5201 N Bay Rd
19	5161 N Bay Rd
20	Muss Park
21	4343 N Bay Rd
22	4300 Indian Creek Dr
23	3405 Chase Ave
23	37 ST/Indian Creek (DMSI)
24	32 ST/Indian Creek (DMSI)
25	Indian Creek (DMSI)
26	28 ST/Indian Creek (DMSI)
27	26 ST/Indian Creek (DMSI)
29	Sunset Island III (Ricman)
30	Sunset Island IV (Ricman)
32	Di Lido Island North (Lanzo)
33	19th St. & Jefferson Ave
34	Rivo Alto Island North (Lanzo)
35	San Marino Island North (Lanzo)
38	1261 17th St
41	San Marino Island South (Lanzo)
42	Di Lido Island South (Lanzo)
43	Hibiscus Island West (Lanzo)
46	Palm Island West (Lanzo)
47	11th ST (DMSI)
48	Hibiscus Island East (Lanzo)
51	800 West Ave
52	630 Alton Rd (City)
54	Commerce St. & Alton Rd

MIAMI BEACH

COMMISSION MEMORANDUM

TO: Honorable Mayor and Members of the City Commission
FROM: Jimmy L. Morales, City Manager
DATE: January 16, 2019

SUBJECT: A RESOLUTION OF THE MAYOR AND CITY COMMISSION OF THE CITY OF MIAMI BEACH, FLORIDA, ACCEPTING THE RECOMMENDATION OF THE SUSTAINABILITY AND RESILIENCY COMMITTEE AT ITS SEPTEMBER 26, 2018 MEETING, FOR THE ADMINISTRATION TO: (1) IDENTIFY A TARGETED LEVEL OF SERVICE FOR THE DEPLOYMENT OF TEMPORARY PUMPS, (2) DEVELOP A FISCAL YEAR 2019 (FY 2019) BUDGET AND (3) FIND A FUNDING SOURCE FOR THE DEPLOYMENT OF TEMPORARY PUMPS; AND (4) RECOMMEND AN IMPLEMENTATION PROCESS FOR THE DEPLOYMENT OF TEMPORARY PUMPS; WHICH PLAN, BUDGET, AND FUNDING SOURCE ARE SPECIFICALLY DELINEATED IN THIS RESOLUTION, AND ACCEPTED BY THE MAYOR AND CITY COMMISSION.

RECOMMENDATION

The Administration recommends the approval of the resolution accepting the recommendation of the Sustainability and Resiliency Committee at its September 26, 2018 meeting to identify a target level of service, come up with a FY 19 budget, find a funding source, and implement a recommended process for deployment of temporary pumps.

ANALYSIS

To meet the stormwater needs of the City of Miami Beach, the City is investing over \$650 million in various infrastructure improvements, which improvements will need to be made over an estimated span of 10 years. The infrastructure improvements include installing larger pipes, building pump stations, and raising roads to ensure that the roads do not flood in future tidal and rainfall events.

During King Tide events, to prevent localized street flooding in areas where the roadway elevation is lower than the high tide levels, temporary pumps have been installed and the water has been pumped to the adjacent canal or Biscayne Bay. Typically, pumps have been deployed in these lower areas, such as along upper North Bay Road, Orchard Park, Indian Creek, Tatum Waterway, and other North Beach areas.

All temporary pump locations have been permitted through DERM, which deployment

incorporates best management practices to protect water quality (including, but not limited to, cleaning of the stormwater system in the area adjacent to the temporary pumps to remove potential pollutants).

In Fiscal Year 2018, \$325,410 was spent on temporary pumps, not including the cost of fuel and labor to operate the equipment. Costs associated with the increased use of, and requests for, temporary pumps will continue to increase as higher tides occur during each King Tide season. The City's current stormwater rates do not include components for widespread usage of rental temporary pump installations.

A continued reliance on temporary equipment to alleviate flooding will require a permanent source of funding, as, until now, the costs have been paid from the stormwater utility's operations and maintenance fund. The stormwater utility operations and maintenance fund, in its current design, is unable to continue to fund this temporary pump practice into the future without neglecting the intended operations and maintenance obligations for the stormwater system.

A resolution regarding the utilization of temporary pumps and generators was placed on the July 25, 2018 City Commission meeting agenda and the City Commission took up the item. After several members provided comments with regards to the draft resolution, Commissioner John Aleman moved to refer the discussion to the Sustainability and Resiliency Committee for further discussion; the motion was seconded by Commissioner Góngora; and the item passed 6 – 0 (Commissioner Rosen Gonzalez was absent during the vote).

At its September 26th, 2018 meeting, the Sustainability and Resiliency Committee moved to have the Administration: (1) identify a targeted level of service for temporary pumps; (2) develop a Fiscal Year 2019 proposed budget for the deployment of temporary pumps; (3) find a permanent funding source; and (4) implement a recommended process for deployment of the temporary pumps; and to (5) bring the item back to the City Commission for approval.

Consistent with the direction of the Sustainability and Resilience Committee, the Administration has determined that the targeted level of service for temporary pumps, during King Tide events, for previously identified low lying areas not equipped with permanent stormwater pumping stations, will be to maintain the roads passable for vehicles and pedestrians. This level of service will require the City to deploy of at least 25 temporary pumps, at an estimated cost of \$270,000.00 (assuming three (3) months of King Tides, in the Spring, and three (3) months of King Tides, in the Fall), which plan for deployment for temporary pump stations.

Consistent with the direction of the Sustainability and Resiliency Committee, the Administration has identified \$272,000.00 in the Fiscal Year 2019 Stormwater Maintenance and Operations Fund.

It is expected that the pumps can keep the roadways free of standing water; provided, however, some additional roadways may experience temporary flooding depending on the magnitude of the tides and coinciding rainfall events.

The Public Works Department will closely monitor the National Oceanic and Atmospheric Administration (NOAA) tidal predictions for our area and implement deployment of temporary pumps, as needed, and at the discretion of the Public Works Director.

CONCLUSION

The Administration recommends the approval of the resolution accepting the recommendation of the Sustainability and Resiliency Committee at its September 26, 2018 meeting to identify a target level of service, come up with a FY 19 budget, find a funding source, and implement a recommended process for deployment of temporary pumps.

Legislative Tracking

Public Works

Sponsor

Commissioner John Elizabeth Aleman

ATTACHMENTS:**Description**

- ▢ MAP
- ▢ Resolution

