

## **Temporary Pumps**

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### Commission Workshop on Resilience January 27, 2020

MIAMIBEACH



# OBJECTIVES PROTECT AND ENHANCE OUR ENVIRONMENT AND INVEST IN INFRASTRUCTURE PROJECTS AND ASSETS THAT BUILD RESILIENCE BENEFITS LIKE REDUCING FLOOD RISK AND INCREASING SUSTAINABILITY.







## While the plan is implemented...

 During emergency conditions the City deploys temporary pumps and personnel with vacuum trucks to mitigate flooding





Indian Creek and 34th Street







West Ave and 8th Street

## This effort needs to continue...

Existing Permanent Active Pump Stations: **47**Proposed Future Permanent Pump Stations: **55** 

Proposed locations for temporary pumps deployment: 14

**Recommended/ 28 Possible** 

MIAMIBEACH RISING ABOVE







Legend

Existing Pump Stations

Proposed Pump Stations

Temporary Pump Stations







MIAMIBEACH RISING ABOVE

## Temporary Pumps Deployment - 2020

#### Cost of Temporary Deployment 2017-2020

	Duration	No. of Pumps	<b>Equipment</b>	Fuel	Personnel	Total
FY 16/17	5-months	13 to 28	\$ 152,742.38	\$ 139,574.40	\$100,800.00	\$ 393,116.78
FY 17/18	11-months	27	\$325,410.73	\$307,063.68	\$221,760.00	\$854,234.41
FY 18/19	4-months	10 to 14	\$ 65,026.57	\$ 51,842.96	\$ 53,760.00	\$170,629.53
FY 19/20	3-months	14	\$147,701.10	\$ 38,882.22	\$ 40,320.00	\$226,903.32

#### **Estimated Cost of 2020 Deployment:**

#### 14-Pump deployment for 6 months:

Deployment Duration: **6-months** 

No. of Pumps: 14

Equipment Cost: \$295,420.20

Fuel Cost: **\$77,764.44** 

Personnel: \$80,640.00

Total estimated cost for 6 months: \$453,824.64

### 28-Pump deployment for 6 months:

Deployment Duration: 6-months

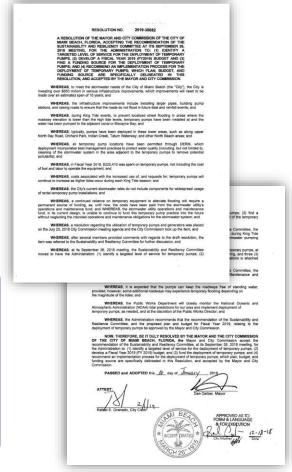
No. of Pumps: 28

Equipment Cost: **\$601,670.40** 

Fuel Cost: **\$167,486.28** 

Personnel: \$120,960.00

Total estimated cost for 6 months: \$890,119.68



Resolution No. 2019-30682

