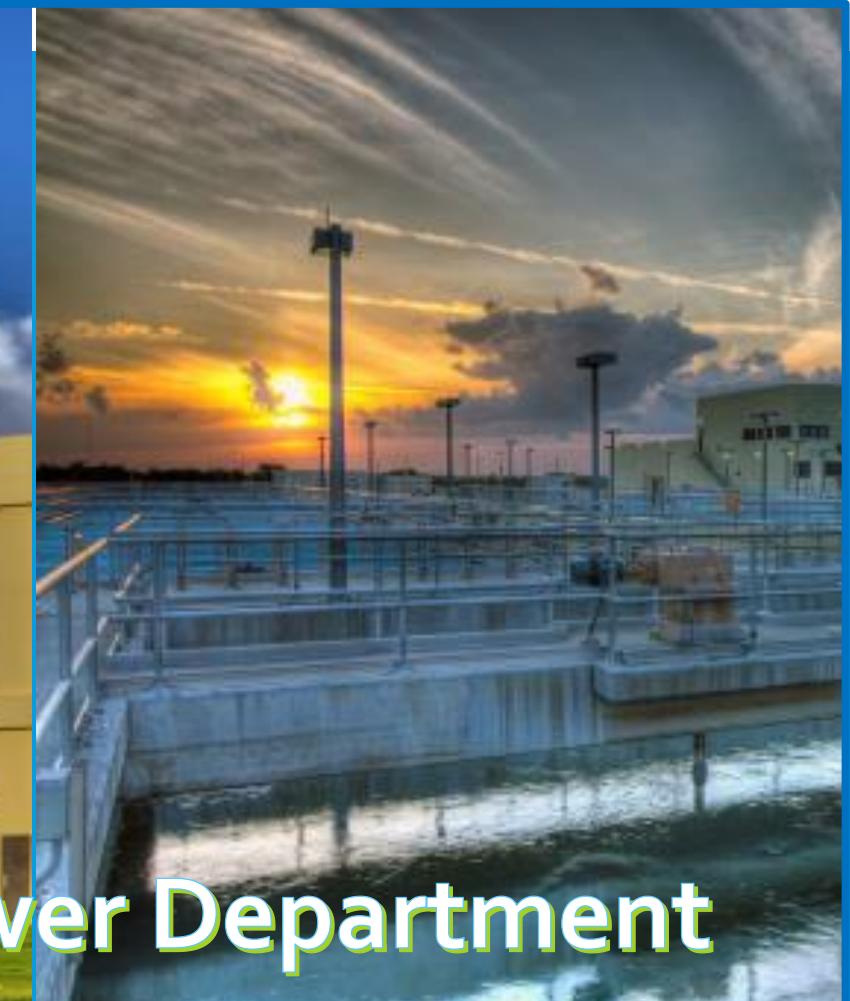


# OUTWARD FACING GIS SOLUTIONS HELP SUPPORT OUR CIP, CONSENT DECREE, AND RESIDENTS



**Miami-Dade Water & Sewer Department**

By: Jose L. Lopez

# CAPITAL IMPROVEMENT PROGRAM & CONSENT DECREE

Collectively, both increase service capacity, improves reliability of the water and sewer system, and ensure WASD complies with regulatory requirements to provide high- quality drinking water and wastewater disposal services

- \$13.5 billion to enhance and upgrade WASD infrastructure
- Duration: two decades
- Impact to community
  - +16,00 new jobs
  - Increase service capacity
  - Improves reliability and sustainability of water and sewer system
  - Could negatively impact traffic during construction

# SUPPORTING OUTWARD FACING GIS SOLUTIONS

These solutions act as a clearinghouse of shared data from WASD, County departments, municipalities and other utilities

- Access construction project information related to CIP - CMOM, PSIP, OOL, In-house Projects, Developer donated projects
- Improve construction planning across Miami-Dade County by viewing County, Municipal, and Utility projects from inception to completion
- Helps the County and municipalities comply with regulatory requirements related to building construction projects impacting water and sewer supply
- Helps residents determine which utility provides water and sewer service for a property and determines estimated distance to connect

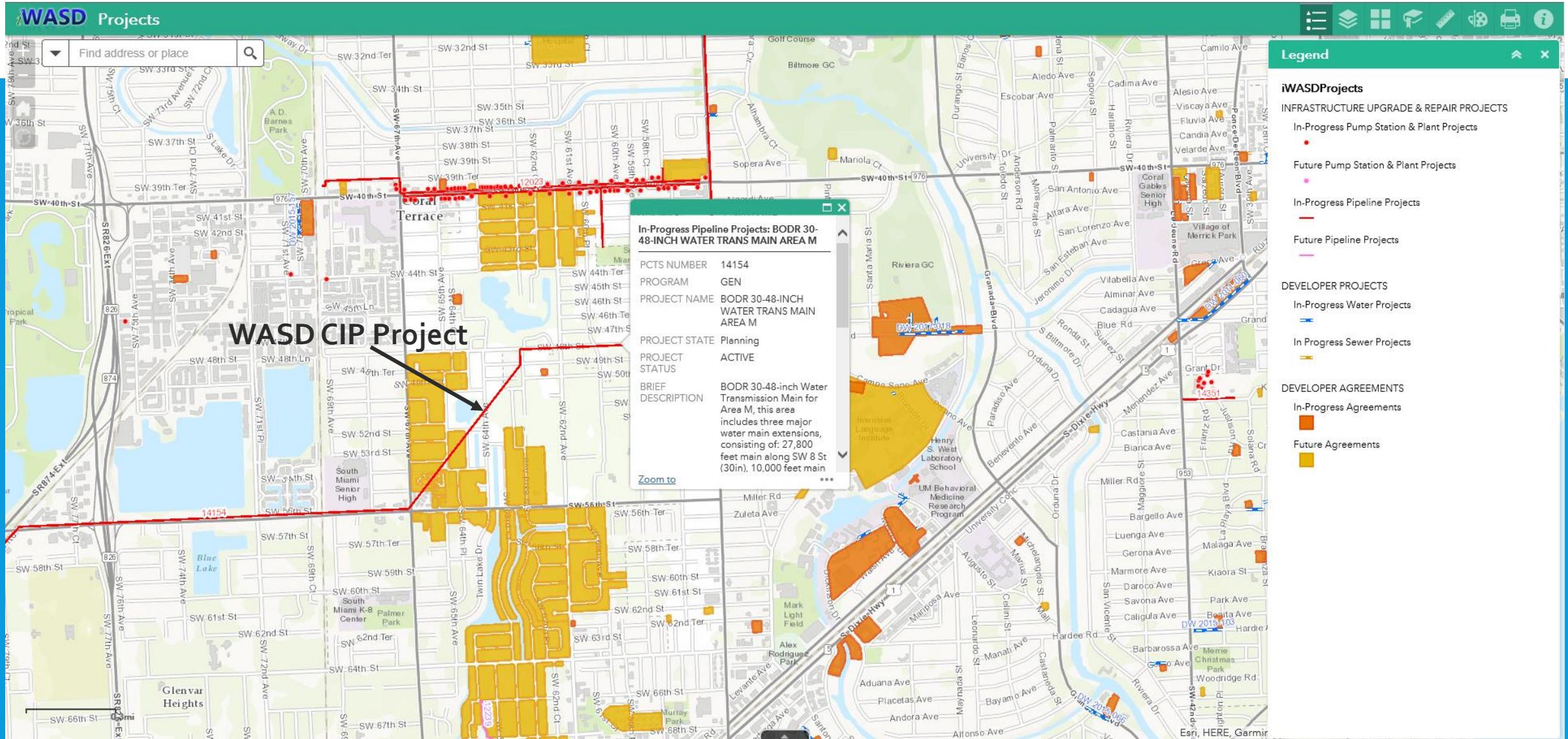


# WATER & SEWER PROJECTS

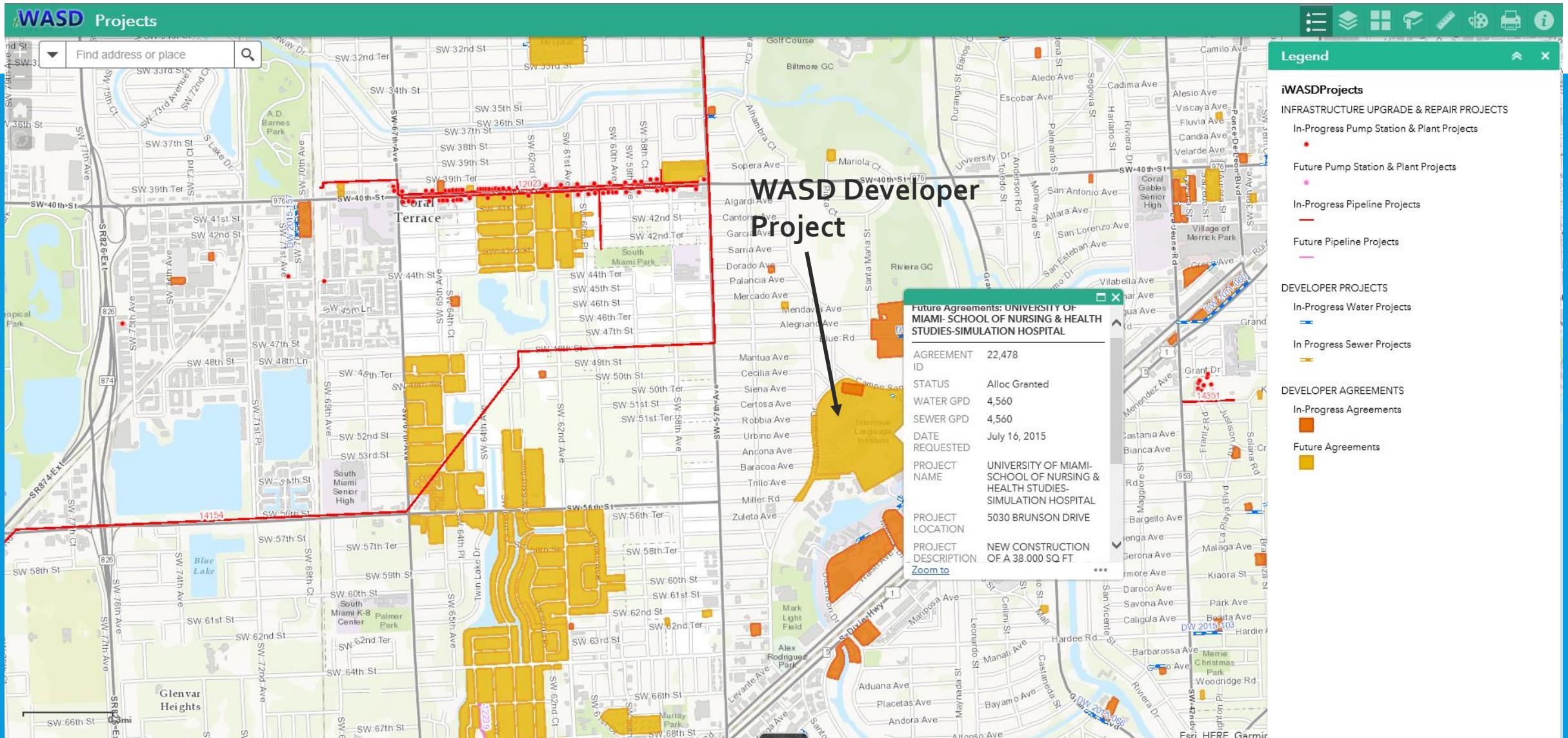


- Contain all WASD construction related information
- Consultants use Projects to view WASD project activity while out in the field or their offices. Eliminates need to connect to WASD network or call office for project information
- Residents can see WASD construction activity in their neighborhood
- Customers and Developers can track high-level project information for their request to connect and developer project related construction projects
- Information is updated nightly from WASD Capital Project System and Developer Tracking System.

# WATER & SEWER PROJECTS (CONTINUED)



# WATER & SEWER PROJECTS (CONTINUED)



# UTILITY COORDINATION



- Collaboration between WASD, Public Works, Transit & FDOT to share all construction projects in the roadway
- Participating agencies submit WASD provided template file geodatabase with their project information to SFTP site
- Projects sharing portions of space and time are identified as Potential Coordination Projects
- Agencies can see projects from all participating agencies and find opportunities to enter into Joint Project Agreements (JPA)
- JPA saves project cost by sharing responsibilities

# UTILITY COORDINATION (CONTINUED)

- Time slider tool helps identify active projects between two dates
- Time slider video play or step-through buttons allow users to see construction activity progression throughout the County
- Better planning mitigates roadway restoration costs and costs associated with utility conflicts and delay claims from conflicting construction schedules
- Improves quality of life by reducing waste associated with multiple road restoration costs, reducing debris in communities, and minimizes traffic congestion
- Financial savings by minimizing or eliminating costs associated with lost productivity from attending multiple coordination meetings, including travel costs
- Information is updated nightly from information provided by participating agencies.

# UTILITY COORDINATION (CONTINUED)

# UTILITY COORDINATION (CONTINUED)



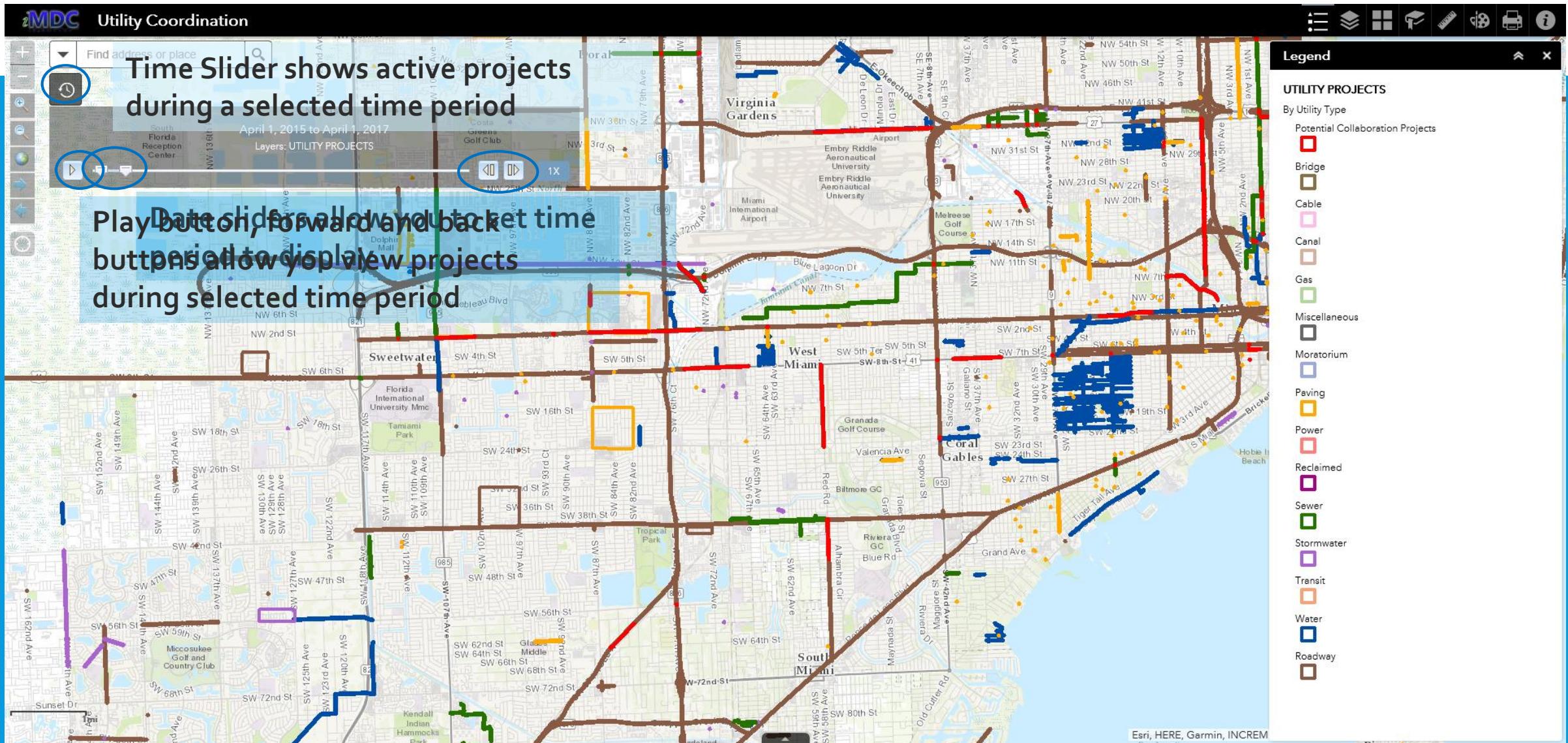
(2 of 4)

## Water: MIAMI SPRINGS AGREEMENT, WATER SYSTEM FIRE FLOW & WATER SERVICE IMPROVEMENTS

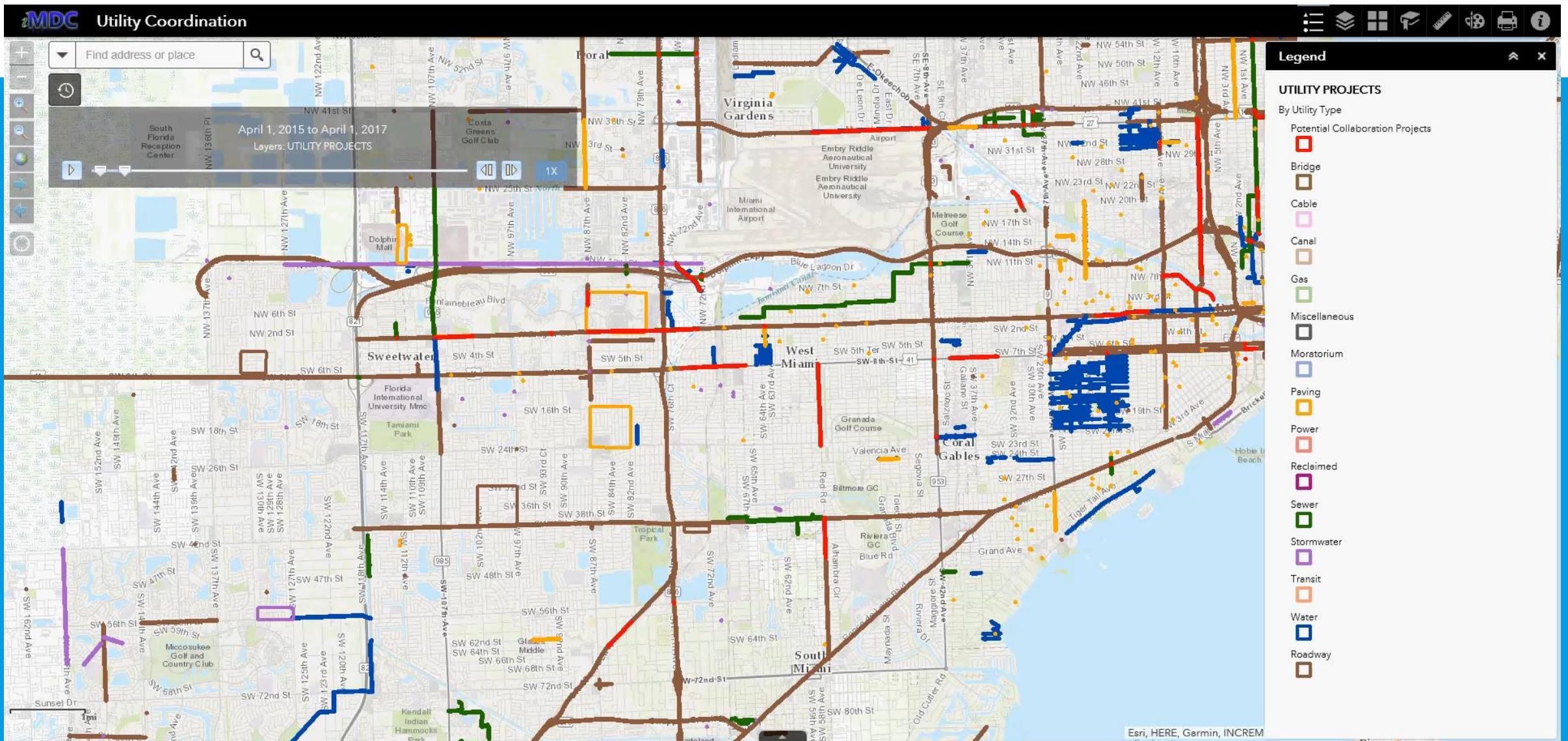
Project Name	MIAMI SPRINGS AGREEMENT, WATER SYSTEM FIRE FLOW & WATER SERVICE IMPROVEMENTS
Project Id	14501
Project Scope	As per Miami Springs Agreement replace 8895' of undersized water main pipe with 16" DI water main pipe to improve fire flows and water service in NW 36 ST between Curtis Pkwy & Canal at Le Jeune Rd
Agency Name	Miami-Dade Water and Sewer Department
Utility Type	Water
Agency Project Status	Design & Permitting
General Project Status	Planning & Design
Start Date	October 30, 2015
End Date	September 29, 2017
Contact Name	Victor Fernandez-Cuervo
Contact Number	786268-5310
Contact Email	VICTORFC@miamidade.gov
General Contact Number	7865968970
General Contact Email	WASDUtilityCoordination@miamidade.gov
Created Date	August 24, 2016
Created By	
Updated Date	August 24, 2016

Project Name	SR 948/NW 36 STREET
Project Id	429136.1
Project Scope	Resurfacing
Agency Name	FDOT
Utility Type	Roadway
Agency Project Status	Line Item Reopened
General Project Status	Under Construction
Start Date	June 30, 2009
End Date	June 29, 2016
Contact Name	Daniel Iglesias
Contact Number	3054705266
Contact Email	Daniel.Iglesias@Dot.State.FL.Us
General Contact Number	3054705349
General Contact Email	fdot-d6pio@dot.state.fl.us
Created Date	March 29, 2016
Created By	
Updated Date	April 5, 2016

# UTILITY COORDINATION (CONTINUED)



# UTILITY COORDINATION (CONTINUED)



# WATER AND SEWER ALLOCATION

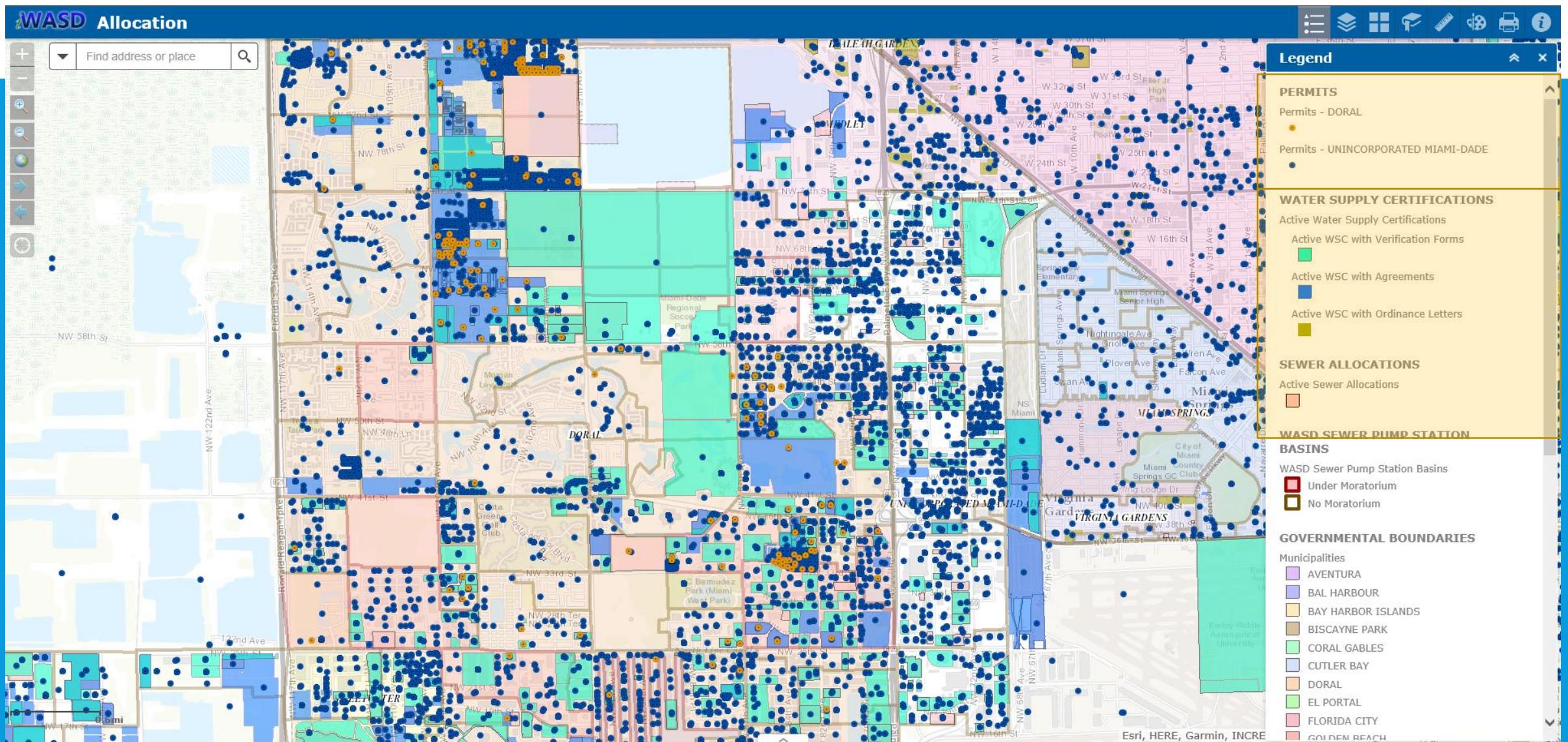


- Collaboration between WASD, Division of Environmental Resource Management (RER/DERM), and municipalities (pilot cities Doral, Miami, and Unincorporated Miami-Dade County)
- Municipalities provide permit data related for new building construction, remodeling, change of use, or any building permit that requires a change in water and sewer flow
- Regulatory compliance
  - Helps municipalities comply with federal, state and local regulatory requirements related to building construction impacting water and sewer supply
  - Reduces the sewer spill possibility
  - Helps County maintain accurate allocation records and expedite de-allocation process
    - WASD tracks water allocation
    - RER/DERM tracks sewer allocation
- Efficiencies
  - Eliminates County having to proactively call municipalities to ascertain status of projects when available capacity is low
  - Eliminates municipalities having to supply same information to two County departments
  - Improves allocation related communication between municipalities and County by sharing records online
  - Municipality receives free viewer to benefit permitting process and residents

# WATER AND SEWER ALLOCATION

- Industry benefit
  - Increases available capacity for future development by eliminating unnecessary reserves
  - DERM expecting to de-allocate approximately 50% - 60% of current allocations within the City of Miami, since most of the construction has already been completed. This represents approximately 3.75 to 4.5 MGD of water and sewer flows that may be removed
- Municipalities have the option to link directly into their outward facing permitting system, and vice-versa
- To Participate
  - WASD, RER/DERM and municipalities document each municipal and utility permitting business process and generate unique rules for each municipal permit process variation so that allocations are automatically flagged for removal
  - Participating agencies submit information using a standard format, as often as desired, but monthly minimum
  - Information is updated nightly from information provided by participating agencies.

# WATER AND SEWER ALLOCATION (CONTINUED)



# WATER AND SEWER ALLOCATION (CONTINUED)

**WASD Allocation**

+ ▼ 2015070296 x 🔍

2015070296

Users can search by address, permit, allocation, municipality, etc.

Permits (Bldg. Process No.):  
2015070296

OBJECTID	1223
ID	4422
Bldg_Process_No	2015070296
Bldg. Permit No.	2015070296

Zoom to

400ft

Doral

FDOR, USDA FSA, DigitalGlobe, Geo

# WATER AND SEWER ALLOCATION (CONTINUED)

Example of Active Water Supply Certification with supporting Active municipal permit

(2 of 5)

Active WSC with Agreements: 22927

AGMID	22927
PLATNBR	
PROJECTNAME	DOWNTOWN DC
CERTIFICATIONNUMBER	5150-A-22927
PREV_USE_GPD	0.00
APPROVEDGPD	404,100.00
ALLOCATION_STATUS	Active
STATUS_TYPE	Allocation_Letter
ALLOC LETTER DATE	July 12, 2016
DEALLOC LETTER DATE	
SUBSERVICEAREA	Hialeah Preston
MUNICIPALITY	Doral

Zoom to

(3 of 5)

Permits - DORAL: 2017010976

ID	4545
Folio	3530220000011
Municipal ID	35
Proj. Name	BL-NEW CONSTRUCTION
Proj. Description	PDOX: NOT! DOWNTOWN DORAL SOUTH TOWNHOUSES 6 UN
Proj. Address	4601 NW 87 AVE DORAL
Proj. Zip Code	33166
Bldg. Process No.	2017010976
Alt. Bldg. Process	
Bldg. Permit Type	BL26NC
Service Type	WS
Bldg. Process Issued Date	1/26/2017, 7:00 PM
Bldg. Process Expiration Date	7/25/2017, 8:00 PM
Bldg. Process Status	APPLY
Bldg. Process Status Date	1/26/2017, 7:00 PM
Bldg. Permit No.	
Alt. Bldg. Permit No.	
Bldg. Permit Issued Date	
Bldg. Permit Expiration Date	7/25/2017, 8:00 PM
Bldg. Permit Status	APPLY
Bldg. Permit Status Date	1/26/2017, 7:00 PM
CO Type	
CO Date	
EEOS No.	
WSC No.	
Municipality URL	<a href="#">More Data</a>



# CONNECTION FINDER

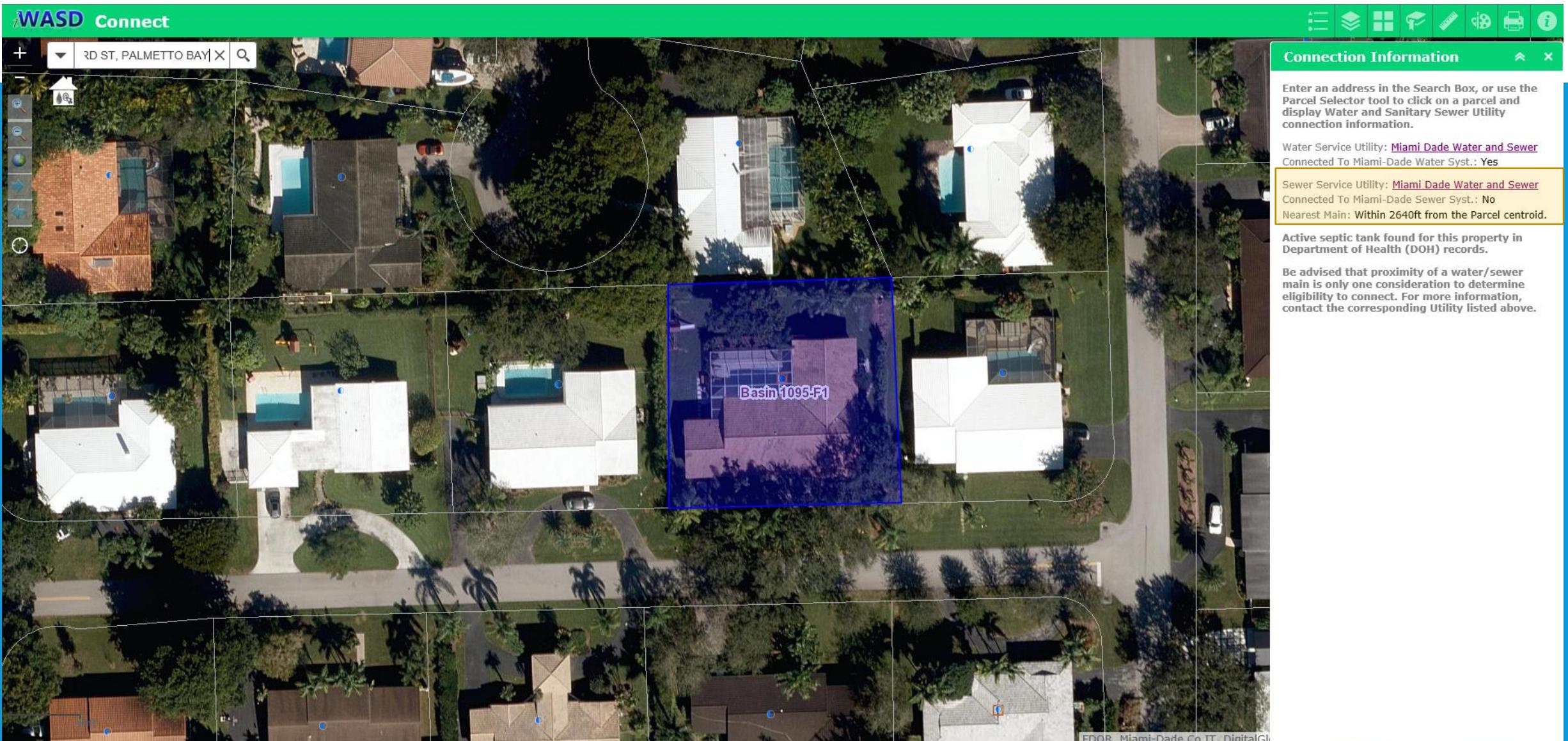


- Provides utility connection information for properties within Miami-Dade County limits
  - Serving water and sewer utility
  - Estimated distance to connect to nearest utility line
  - Pump station moratorium status
  - Septic tank permit records from Florida Department of Health (FDOH)
  - Links to serving utility website
- Collaborative tool between WASD, RER/DERM, and FDOH
- Offers realtors, developers, and potential buyers quick information on parcel utility service
- Helps reduce customer service calls to determine if a property has water or sewer

# CONNECTION FINDER (CONTINUED)

**WASD Connect**

RD ST, PALMETTO BAY X



**Connection Information**

Enter an address in the Search Box, or use the Parcel Selector tool to click on a parcel and display Water and Sanitary Sewer Utility connection information.

Water Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Water Syst.: Yes

Sewer Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Sewer Syst.: No  
Nearest Main: Within 2640ft from the Parcel centroid.

Active septic tank found for this property in Department of Health (DOH) records.

Be advised that proximity of a water/sewer main is only one consideration to determine eligibility to connect. For more information, contact the corresponding Utility listed above.

FDOR, Miami-Dade Co IT, DigitalGlobe

# CONNECTION FINDER (CONTINUED)

**WASD Connect**

AVE, CORAL Gables

Español

City of Coral Gables

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*The City Beautiful*

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Apr 13 The Flower Market at Plaza Aragon April 13, 2017

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FDOR, DigitalGlobe

**Connection Information**

Enter an address in the Search Box, or use the Parcel Selector tool to click on a parcel and display Water and Sanitary Sewer Utility connection information.

Water Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Water Syst.: Yes

Sewer Service Utility: [Coral Gables](#)  
Connected To Miami-Dade Sewer Syst.: No

Be advised that proximity of a water/sewer main is only one consideration to determine eligibility to connect. For more information, contact the corresponding Utility listed above.

# CONNECTION FINDER (CONTINUED)

**WASD Connect**

182 SW 26TH ST, MIAMI X 

miamidade.gov Departments Government Employees Visitors Calendar Transparency Log In | Create Account 

 QUALITY. VALUE. ECONOMIC GROWTH.

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**MY ACCOUNT**

**PAY WATER BILL**

**CUSTOMER SERVICE**

**FAQ'S**

**BILLING QUESTIONS?  
ASK AVA** 

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Multi-Year Capital Improvement Plan  
Water & Wastewater Services  
Water Meters  
Conservation & Outreach  
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**NEW FEATURES FOR YOUR ACCOUNT**

Access all of your Water and Sewer account information in a simple, new way. View water-use history, enroll multiple accounts under one user name, and stop or transfer service.

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Why register? [Read more.](#)

**Start Service**  
Start new service with Miami-Dade Water & Sewer.

**Water Conservation**  
We offer countless tips and free programs to save water and

**Capital Improvement**  
Our multi-year plan to deliver high quality drinking water and

**Connection Information**

Enter an address in the Search Box, or use the Parcel Selector tool to click on a parcel and display Water and Sanitary Sewer Utility connection information.

Water Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Water Syst.: Yes

Sewer Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Sewer Syst.: No

Nearest Main: Within 2640ft from the Parcel centroid.

No Septic tank found in Department of Health records for this property

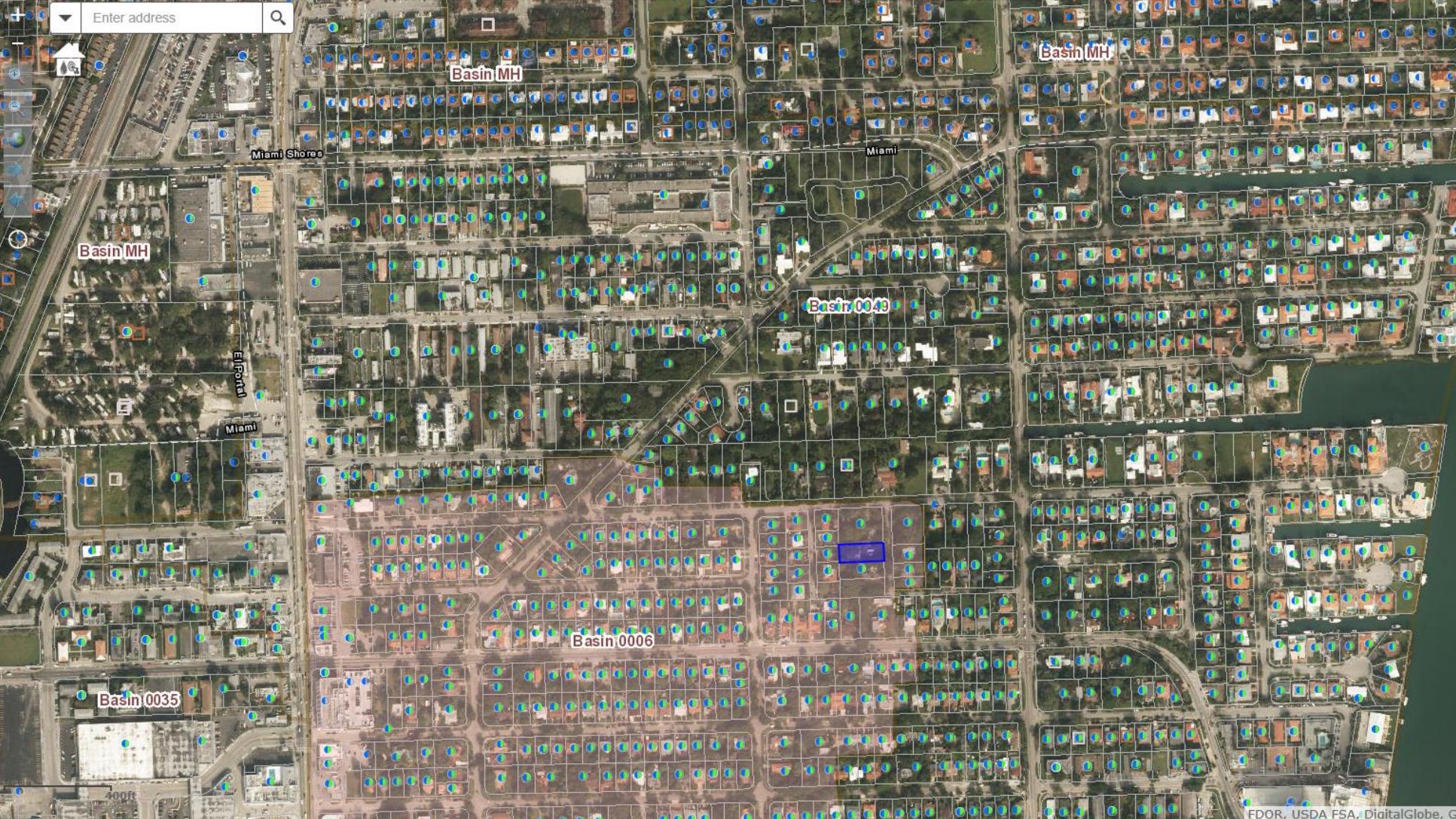
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FDOR, Miami-Dade Co IT, DigitalGlobe

# CONNECTION FINDER (CONTINUED)

**WASD Connect**

Enter address  



**Connection Information**

Enter an address in the Search Box, or use the Parcel Selector tool to click on a parcel and display Water and Sanitary Sewer Utility connection information.

Water Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Water Syst.: No  
Nearest Main: Within 2640ft from the Parcel centroid.

Sewer Service Utility: [Miami Dade Water and Sewer](#)  
Connected To Miami-Dade Sewer Syst.: No  
Nearest Main: Within 2640ft from the Parcel centroid.

No Septic tank found in Department of Health records for this property

Nearest sewer pump station basins to serve the selected parcel may be under moratorium. For more information contact DERM at 305-372-6200.

Be advised that proximity of a water/sewer main is only one consideration to determine eligibility to connect. For more information, contact the corresponding Utility listed above.

FDOR, USDA FSA, DigitalGlobe, Geo

# NEXT STEPS

- Work with municipalities to join the iWASD Allocation program and simplify their regulatory reporting process, while receiving free online GIS tools
- Develop auto-notifications to notify iWASD Allocation data contributors of upcoming allocation expirations, permits missing proper allocation, and any other activity requiring municipal or County attention
- Work with municipalities and utilities to join the iMDC Utility Coordination program and better coordinate construction projects impacting the roadway to save money, minimize breaking multiple times, minimize disruption to communities and traffic
- Add WASD developer donation projects to iMDC Utility Coordination
- Develop auto-notifications to notify iMDC Utility Coordination data contributors of projects for potential collaboration, municipalities when new construction in their area, begin to auto-generate moratorium data

# Questions?

Contact Info

Jose L. Lopez

Miami-Dade Water & Sewer Department

3071 SW 38<sup>th</sup> Ave

Miami, FL 33146

786-552-8334

jll@miamidae.gov