

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

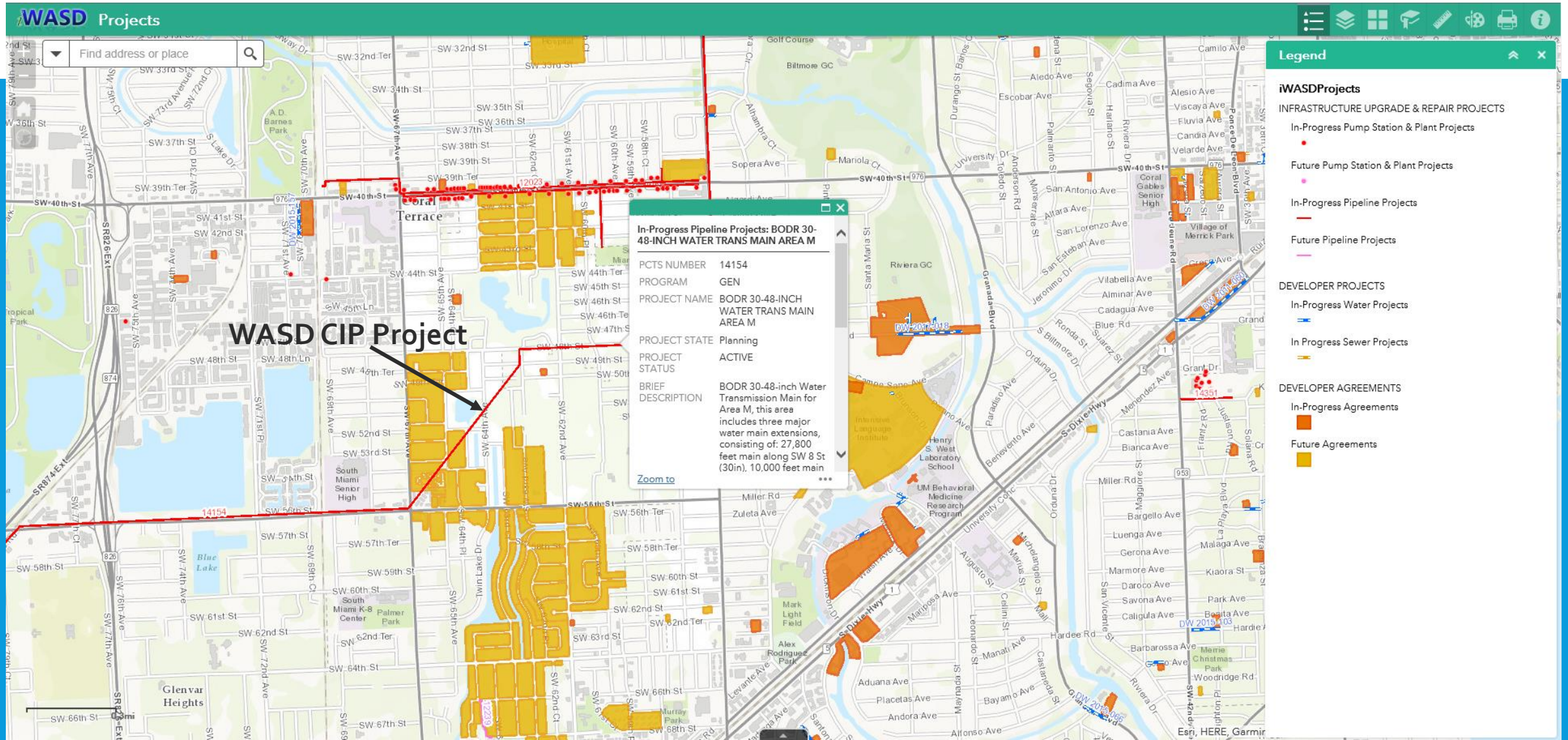


WATER & SEWER PROJECTS

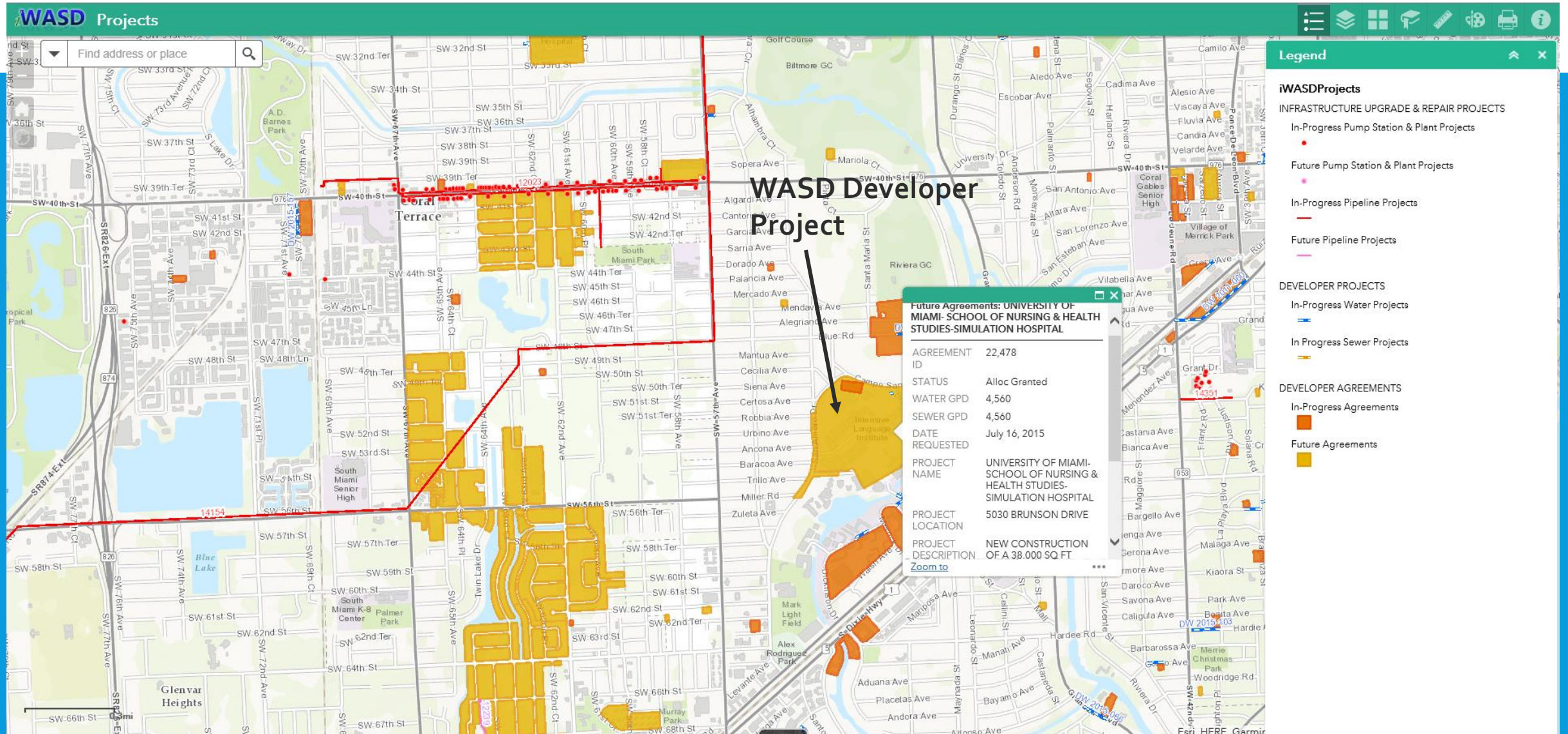


- Contain all WASD construction related information
- Consultants use Projects to view WASD project activity while out in the field or their offices. Eliminates need to connect to WASD network or call office for project information
- Residents can see WASD construction activity in their neighborhood
- 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

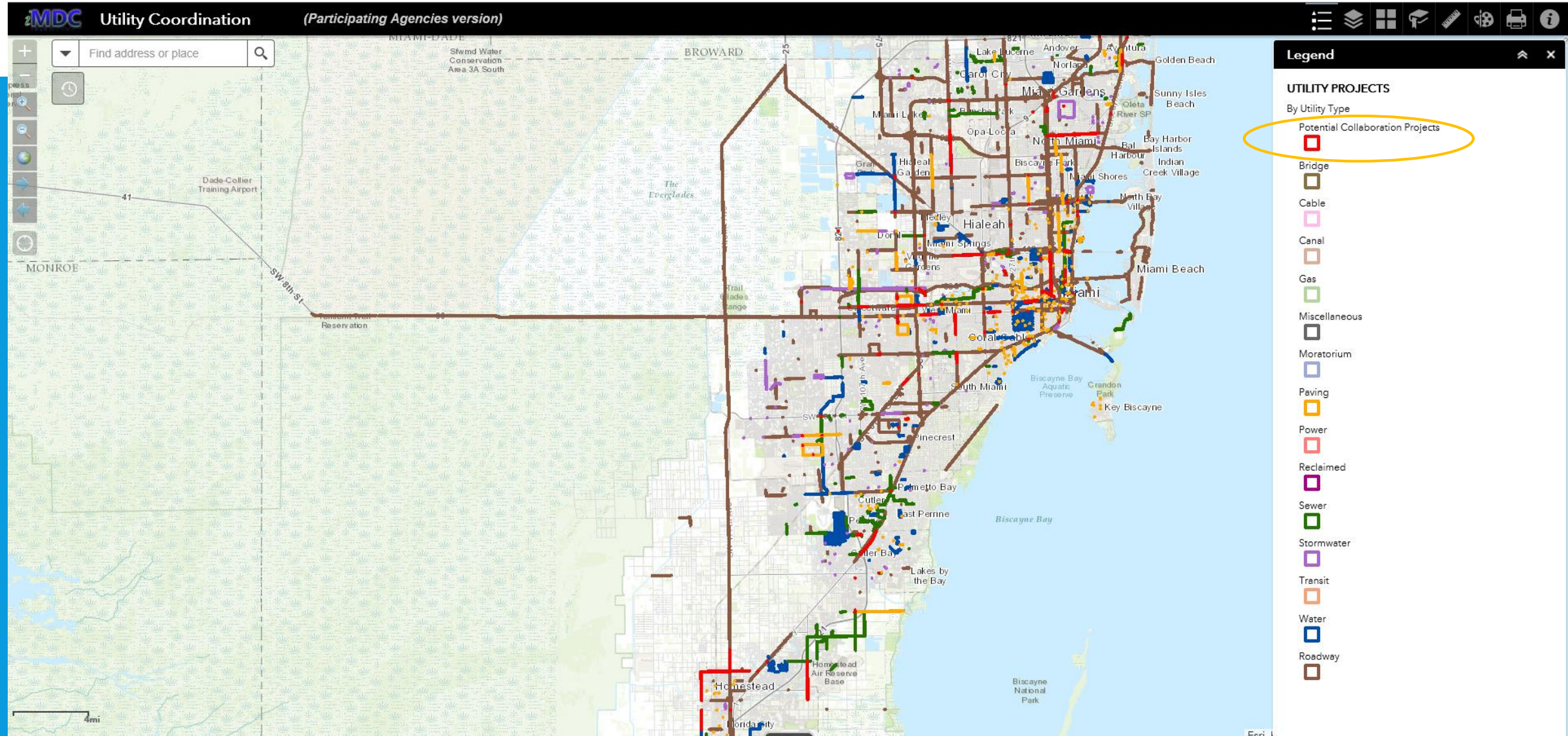


- Collaboration between WASD, Public Works, Transit & FDOT to share all construction projects in the roadway
- Participating agencies submit WASD provided template file geodatabase with their project information to SFTP site
- Projects sharing portions of space and time are identified as Potential Coordination 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)

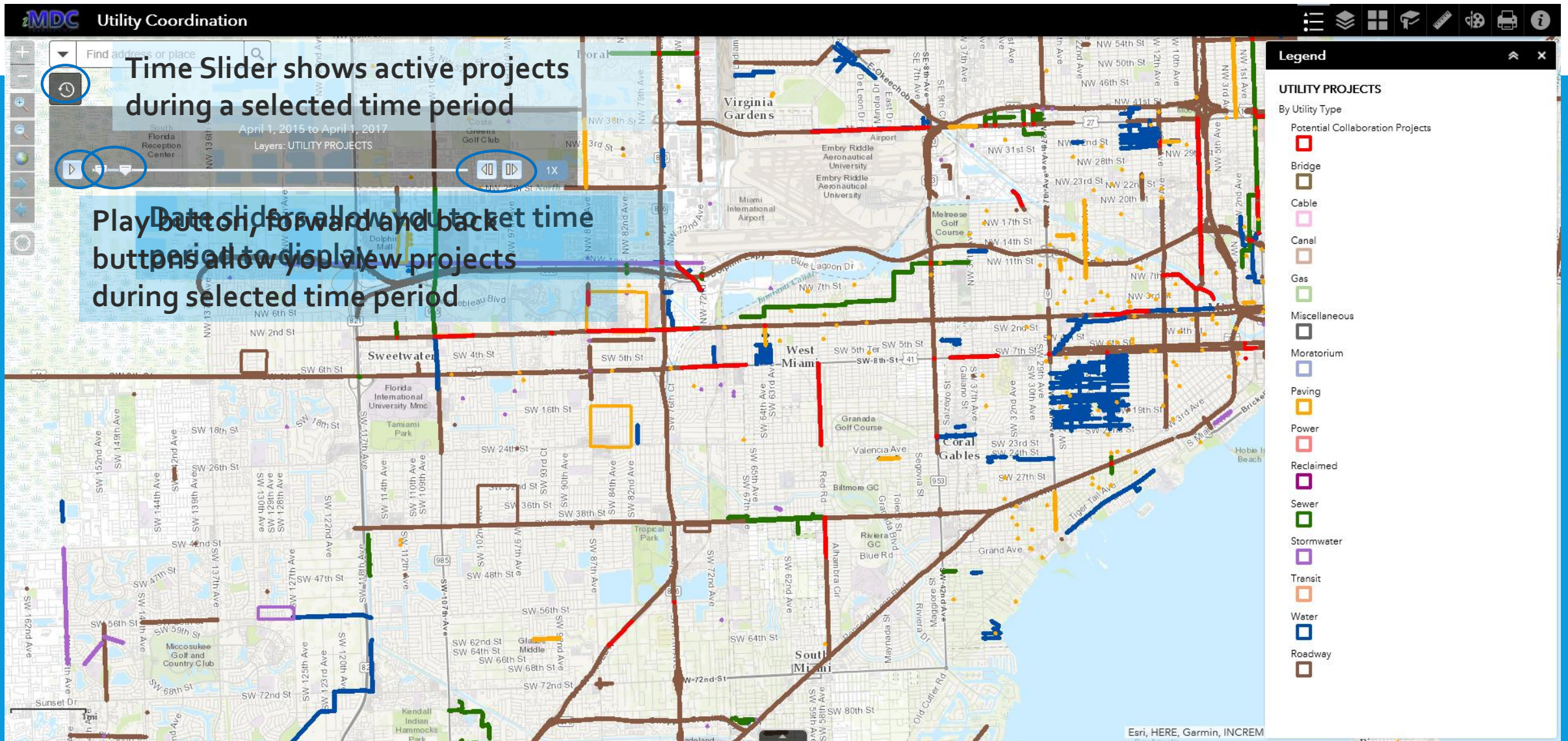
Water: MIAMI SPRINGS AGREEMENT, WATER SYSTEM FIRE FLOW & WATER SERVICE IMPROVEMENTS

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 J
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

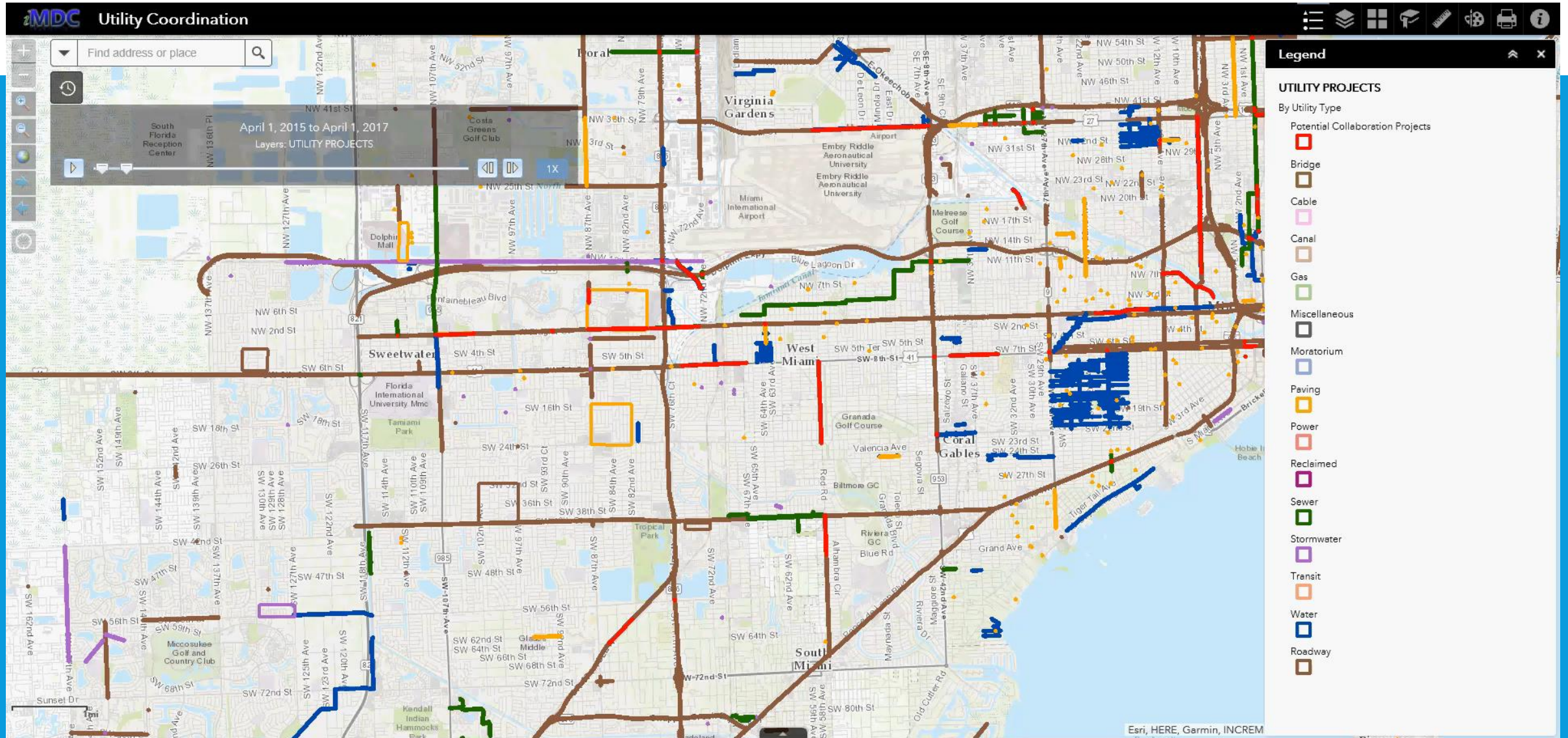
(4 of 4)

Roadway: SR 948/NW 36 STREET	
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.FI.Us
General Contact Number	3054705349
General Contact Email	fdot-dópio@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

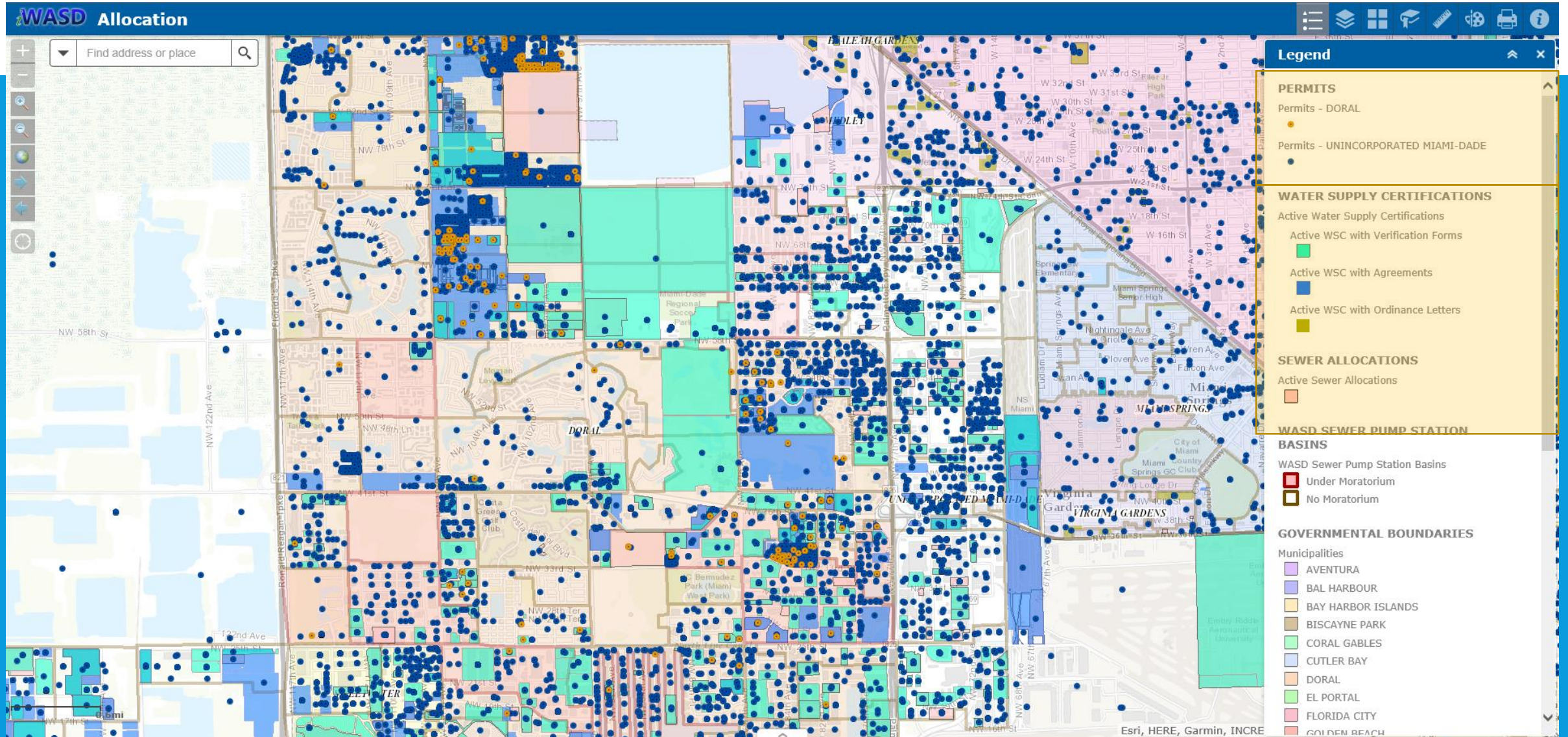


- Collaboration between WASD, Division of Environmental Resource Management (RER/DERM), and municipalities (pilot cities Doral, Miami, and Unincorporated Miami-Dade County)
- Municipalities provide permit data related for new building construction, remodeling, change of use, or any building permit that 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

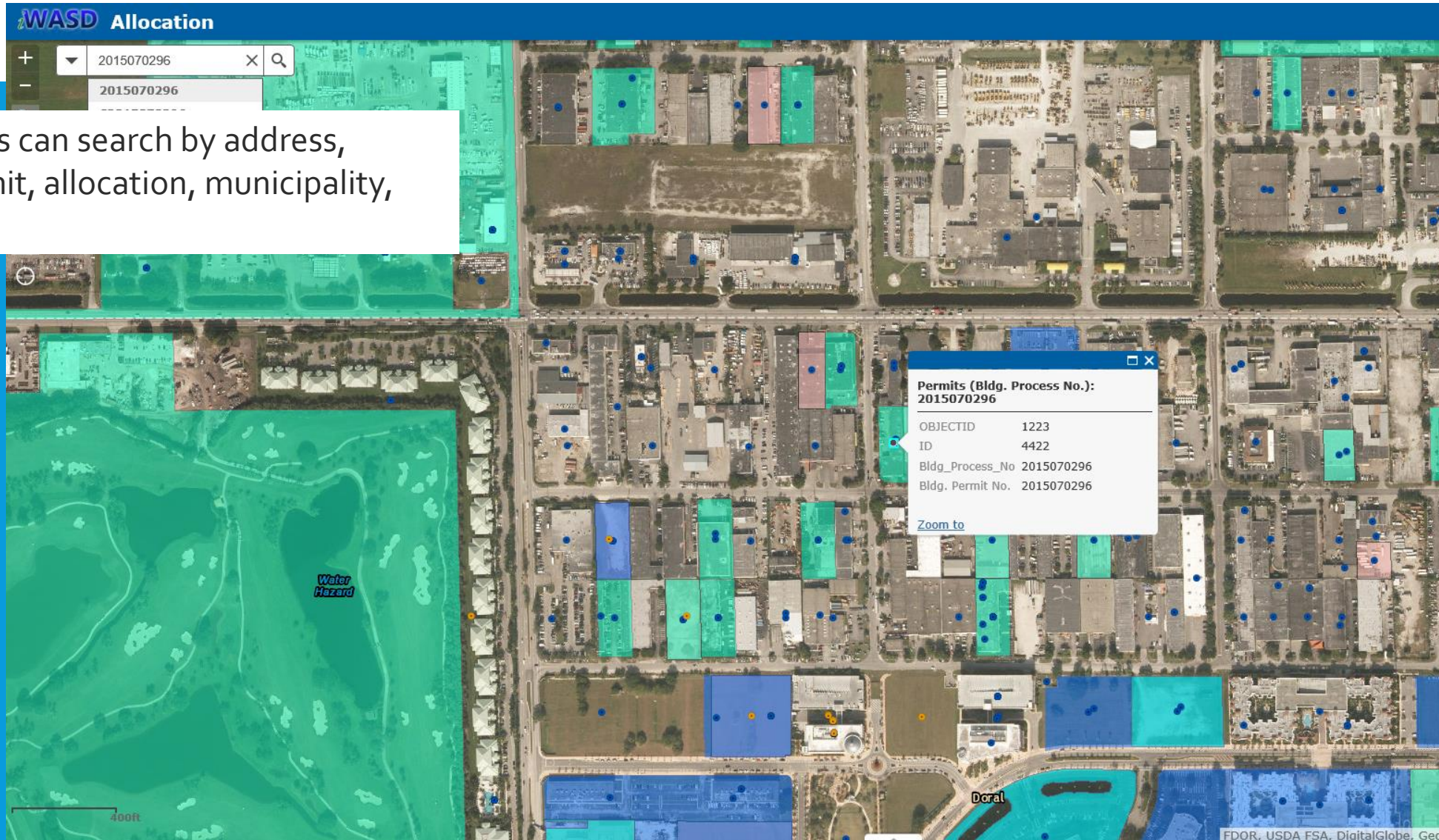
- Industry benefit
 - Increases available capacity for future development by eliminating unnecessary reserves
 - DERM expecting to de-allocate approximately 50% - 60% of current allocations within the City of Miami, since most of the construction has already been completed. This represents approximately 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)



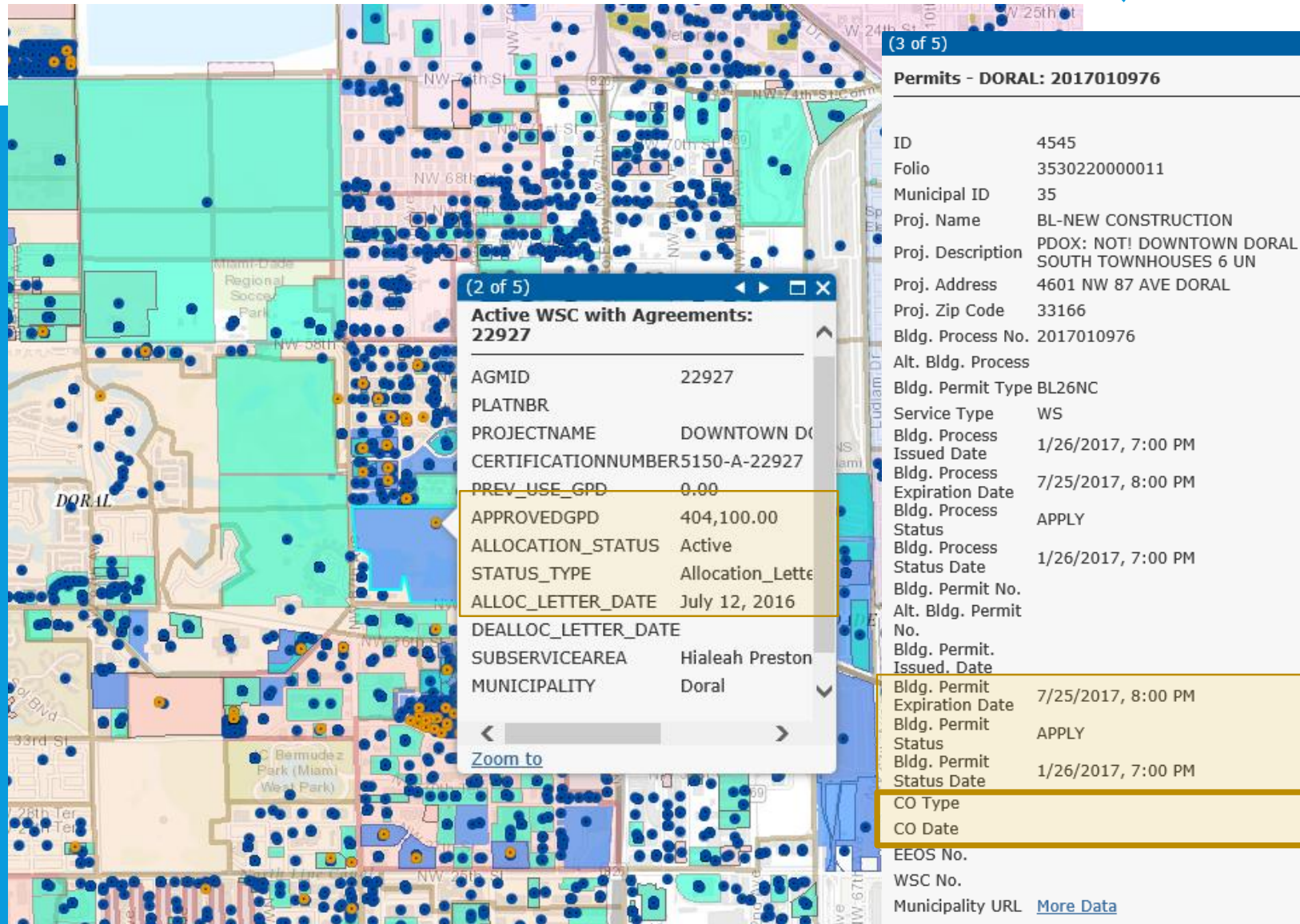
WATER AND SEWER ALLOCATION (CONTINUED)

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



WATER AND SEWER ALLOCATION (CONTINUED)

Example of
Active Water
Supply
Certification with
supporting
Active municipal
permit

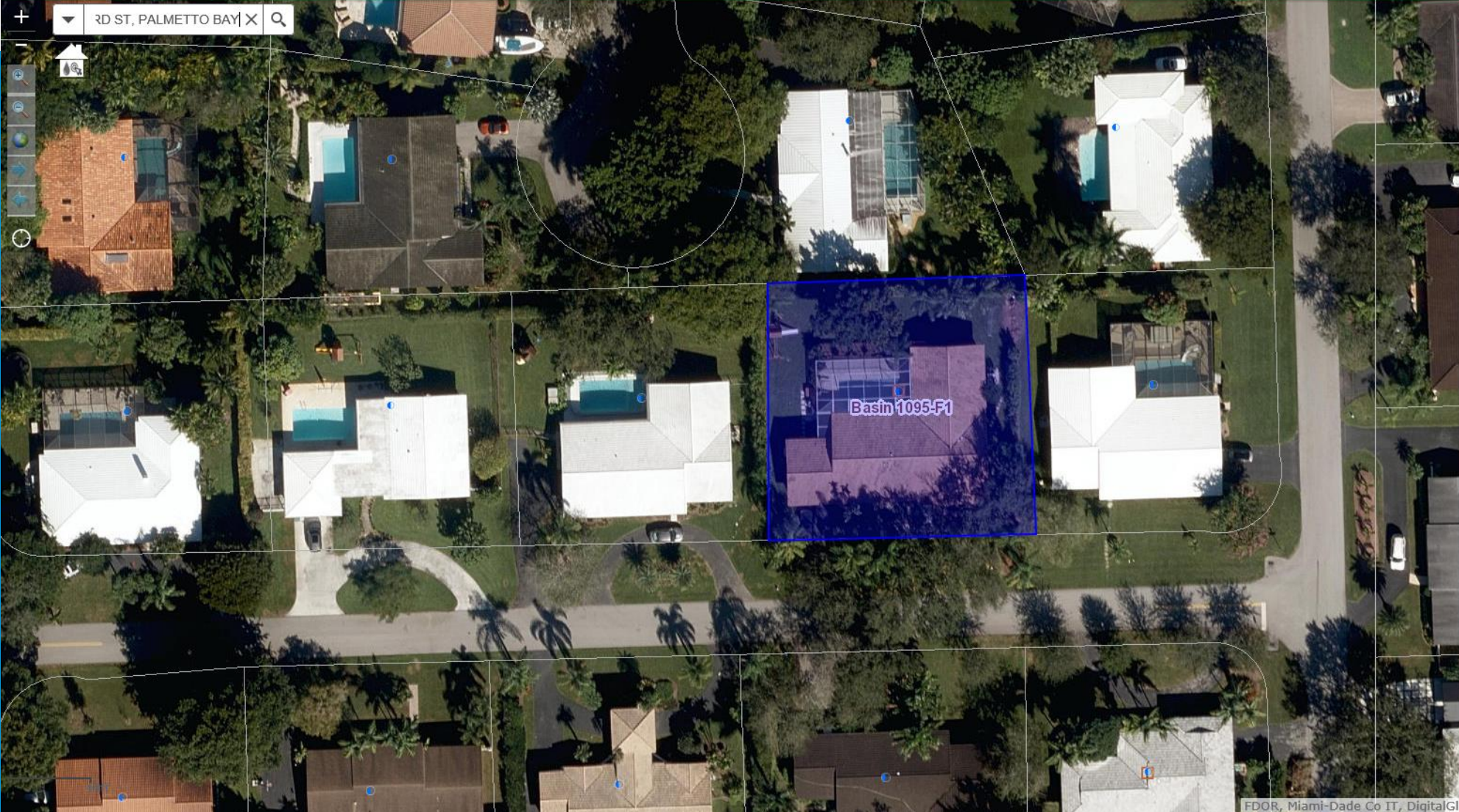


CONNECTION FINDER



- 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)



Basin 1095-F1

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, DigitalG

CONNECTION FINDER (CONTINUED)

WASD Connect

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1 AVE, CORAL G

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Coral Gables

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Apr 11

Panel: Parallels of Practice
April 11, 2017

Apr 13

The Flower Market at Plaza Aragon
April 13, 2017

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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.

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FDOR, DigitalG

CONNECTION FINDER (CONTINUED)

WASD Connect

182 SW 26TH ST, MIAMI

X

Q

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Full Screen

Print

Help

miamidade.gov

Departments

Government

Employees


Visitors

Calendar

Transparency

Log In | Create Account

Q



miamidade.gov

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ECONOMIC GROWTH.

Water and Sewer

Last Visited > GIS Maps and Apps > Water and Sewer > WASD GIS Service Maps > Water and Sewer

MY ACCOUNT

PAY WATER BILL

CUSTOMER SERVICE

FAQ'S

BILLING QUESTIONS? ASK AVA

Customer Service


Multi-Year Capital Improvement Plan

Water & Wastewater Services

Water Meters

Conservation & Outreach

Construction & Development




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.


MY ACCOUNT

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

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, DigitalGI

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

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