

# Potential Public Private Partnership Projects



# Who We Are

Number of People Served by Our Utility Each Day

**2.3 Million**

Residential Monthly Rates Are Among the Lowest in Florida

**\$51.11**

# Existing Infrastructure

14,000+ Miles of Water and Sewer Pipelines

1,047 Pump Stations

Central Wastewater  
Treatment Plant

In Service Since 1956

North Wastewater  
Treatment Plant

In Service Since 1979

South Wastewater  
Treatment Plant

In Service Since 1983

Hialeah Water  
Treatment Plant

In Service Since 1924

Alexander Orr Water  
Treatment Plant

In Service Since 1954

Preston Water  
Treatment Plant

In Service Since 1968

# How We Serve Our Customers

Amount of Times We Test Our Water Per Year

**150,000**

Gallons of Drinking Water Produced Per Day

**303 Million**

Gallons of Wastewater We Treat Per Day

**315 Million**

# Capital Improvement Program

Pump  
Station  
Upgrades

**\$215**  
MILLION

**138**  
CAPITAL  
PROJECTS

Federally  
Mandated  
Upgrades

**\$1.6**  
BILLION

**82**  
CAPITAL  
PROJECTS

State  
Mandated  
Ocean  
Outfall

**\$5.2**  
BILLION

**62**  
CAPITAL  
PROJECTS

Other  
Water &  
Sewer  
Projects

**\$6.4**  
BILLION

**100s**  
CAPITAL  
PROJECTS

# Potential Public Private Partnership Projects



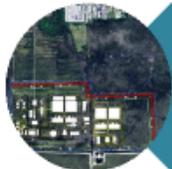
**South Miami Heights Water Treatment Plant**



**South District Wastewater Treatment Plant – Biosolids**



**Northwest Wellfield Water Treatment Plant**



**West District Wastewater Treatment Plant**



**Automatic Meter Reading System**

# South Miami Heights Water Treatment Plant



# South Miami Heights Water Treatment Plant

## Estimated Budget

\$150 Million

## Project Manager

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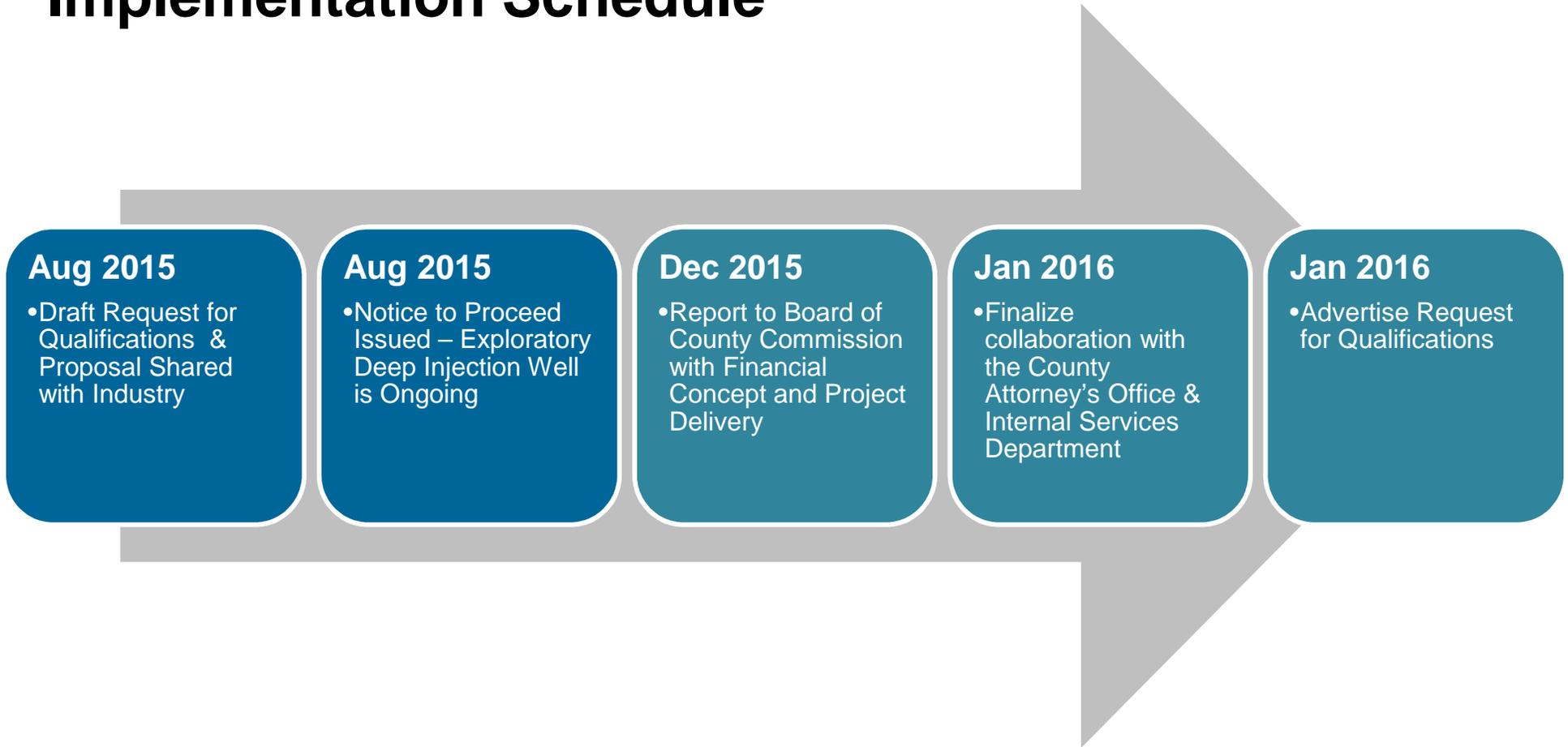
# South Miami Heights Water Treatment Plant

## Project Details

- The South Miami Heights Water Treatment Plant will improve reliability in water service and quality for south Miami-Dade area residents
- The Project includes construction of a membrane treatment plant, wellfields and raw water transmission lines to produce up to 20 million gallons per day of drinking water
- The raw water will come from the Upper Floridan (17 million gallons per day) and Biscayne Aquifers (3 million gallons per day)
- Reduces pumpage from the Biscayne Aquifer for the South Dade Water System resulting in an environmental benefit and further enhancing the Department's use of Alternative Water Supplies as endorsed by the South Florida Water Management District

# South Miami Heights Water Treatment Plant

## Implementation Schedule



# South Dade Wastewater Treatment Plant – Biosolids



# South Dade Wastewater Treatment Plant – Biosolids

## Estimated Budget

\$200 Million

## Project Manager

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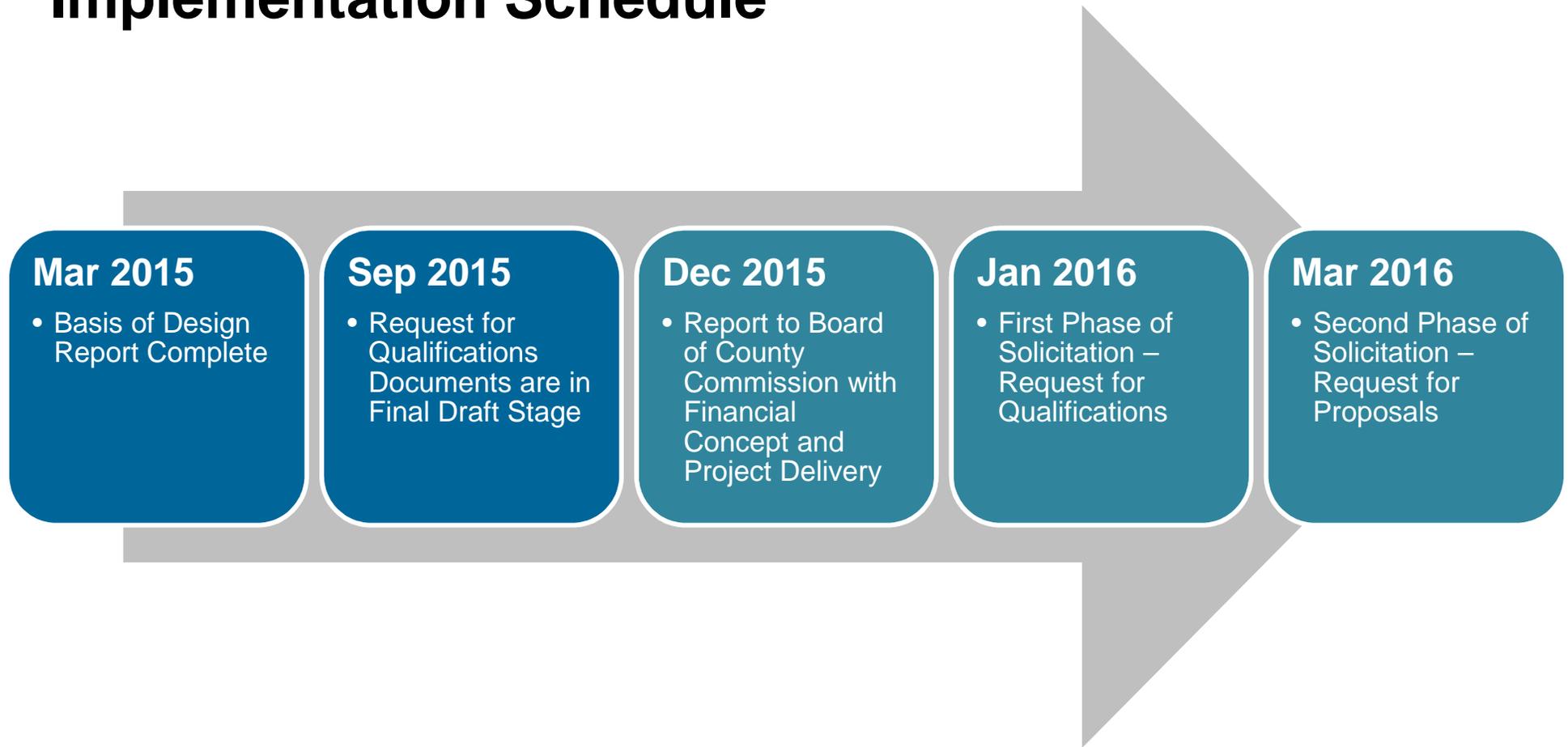
# South Dade Wastewater Treatment Plant – Biosolids

## Project Details

- Miami-Dade Water and Sewer Department plans to implement a Biosolids Processing Facility at its South District Wastewater Treatment Plant, and potentially another Biosolids Processing Facility at its Central District Wastewater Treatment Plant
- Scope of project is to handle and process Miami-Dade County's biosolids in order to monetize this process
- Biosolids processing options are thermal and composting

# South Dade Wastewater Treatment Plant – Biosolids

## Implementation Schedule



# Northwest Wellfield Water Plant



# Northwest Wellfield Water Plant

## Estimated Budget

\$300 Million

## Project Manager

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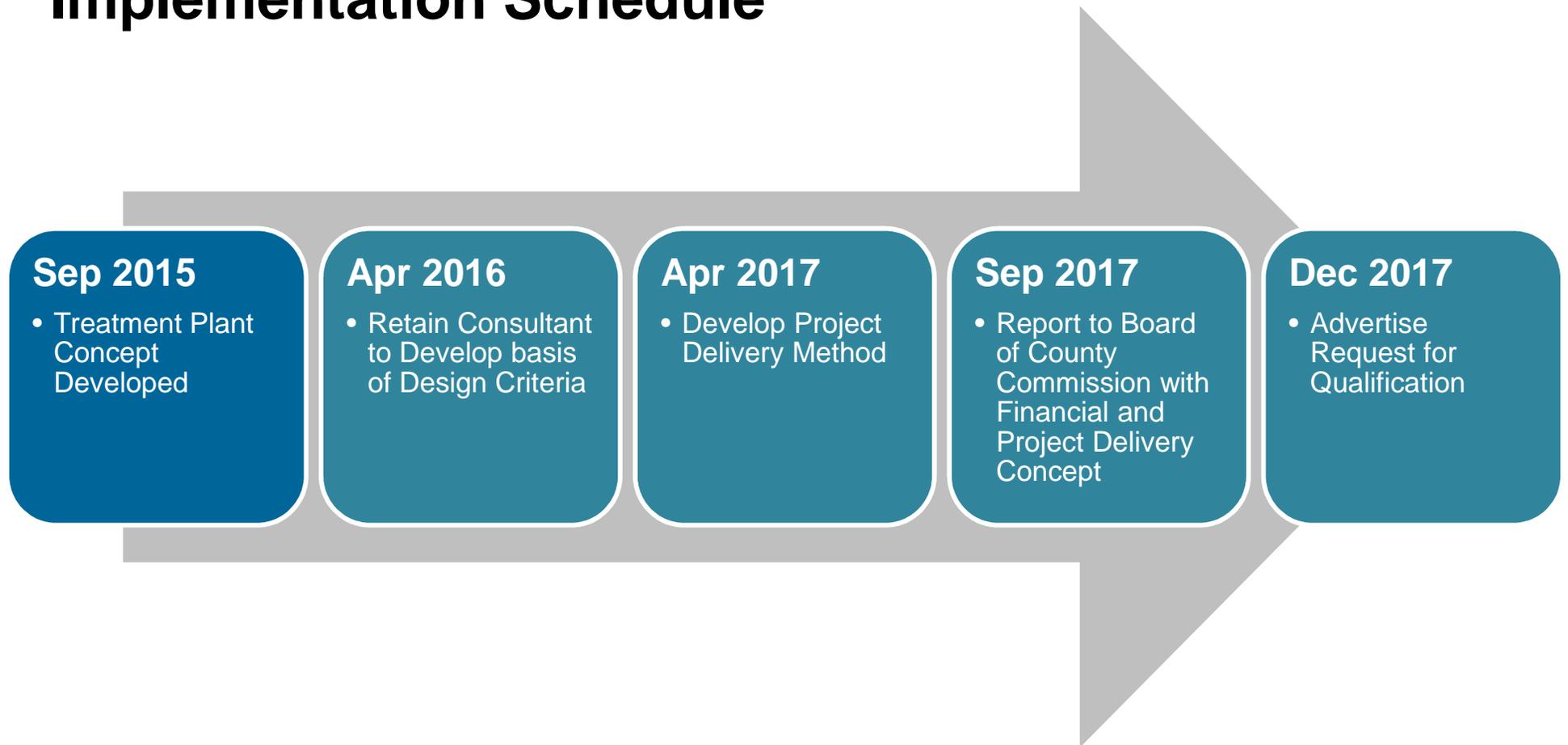
# Northwest Wellfield Water Plant

## Project Details

- New 50 million gallons per day Water Treatment Plant
- Serves the Northwest area of Miami-Dade County and replaces the Hialeah Water Treatment Plant built in 1925
- 25 million gallons per day of the plant will use the Nanofiltration Treatment method (Surface Water)
- 25 million gallons per day of the plant will use the Enhanced Lime Softening method (Traditional)

# Northwest Wellfield Water Plant

## Implementation Schedule



# West Dade Wastewater Treatment Plant



# West Dade Wastewater Treatment Plant

## Estimated Budget

\$2.1 Billion

## Project Manager

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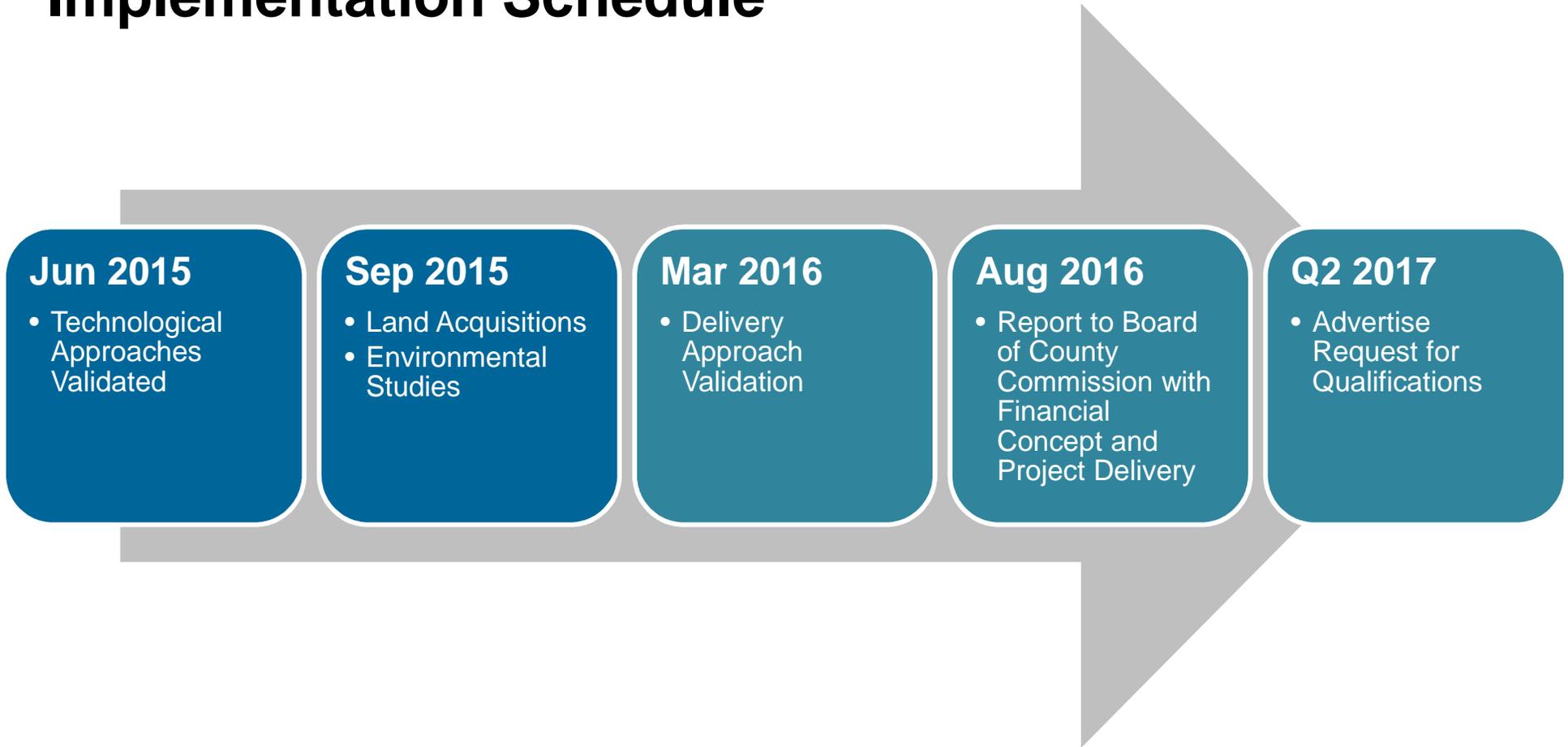
# West Dade Wastewater Treatment Plant

## Project Details

- West Dade Wastewater Treatment Plant is an integral part of the Ocean Outfall Legislation compliance plan
- Once operational, it will receive flows from the existing sewer plants
- It will have an average annual daily flow of 102 million gallons per day
- Treated effluent will be discharged to the boulder zone 3,000 feet below ground via deep injection wells
- Plant construction must be completed by 2024 with operations starting in 2025

# West Dade Wastewater Treatment Plant

## Implementation Schedule



# Automatic Meter Reading System



# Automatic Meter Reading System

## Estimated Budget

\$220 Million

## Project Manager

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# Automatic Meter Reading System

## Project Details

- Implement Automatic Meter Reading and Advanced Metering Infrastructure system wide
- Increase billing frequency (Monthly / Quarterly)
- Improve customer information
- Utilize features available through modern metering technology such as leak detection, tamper alarms, remote meter on/off

# Automatic Meter Reading System

## Implementation Schedule

### Dec 2015

- Technological Approach Validated and RFP prepared

### Jan 2016

- Report to Board of County Commission with Financial Concept and Project Delivery

### April 2016

- Advertise for Procurement

### Oct 2016

- Project Award and Commencement