Outline

• Background
• CIP Stats
• Key Drivers
• Upcoming Annual Services RFP’s
• Upcoming Capital Project RFP’s
• Created in 1940
• 17 counties and cities
• More than 500 miles of pipes, 6-66 inches
• 106 Pump Stations
• 9 major plants and 4 smaller plants
• 231 MGD capacity
FY 2010 to FY 2019 CIP stats

- Upgraded to AAA by S&P
- Total FY10 to FY19 CIP = $1.2 billion
- 169 projects
- FY10 $193.7 million
- FY11 $186.9 million
- Multi-criteria capital project prioritization
Key Drivers

- Nutrient Waste Load Allocations for the Chesapeake Bay - 2011
- Mass Limits for TN and TP
- Five of our Nine large plants are being upgraded
- Estimated cost $500 million
Key Drivers

- State Special Order by Consent/Pending EPA Consent Decree – Sanitary Sewer Overflows (SSOs)
  - Phase I – Investigation, Regional Hydraulic Model and Regional Wet Weather Plan – 2013
    - $43 million – Investigation/Model
    - $140 million – Capital Improvements
  - Phase II – Regional Wet Weather Plan Implementation
    - Unknown Cost
Selection Process

1. Issue Request for Proposals (RFP)
2. Conduct Pre-Proposal Conference as needed
3. Receive Proposals
4. Short-list Two or More Firms
5. Complete Preliminary Technical Rankings
6. Conduct Interviews
7. Complete Final Technical Rankings
8. Complete Final Selection and Negotiation
9. Issue Final Approval & Award by Commission
Annual Services
RFP’s Coming Out
General Engineering Annual Services

- Two contracts available
- One year renewable, five year max
- Construction project limits
  - Max individual project $1 million
  - Maximum annual $5 million
- Estimated RFP - Spring 2010
Experience Required

- Master Planning
- Interceptor and Pump Station Design
- Wastewater Process Design
- Reclaimed Water
- Program Management
- Utility Management
- Value Engineering
Example Projects

- Wastewater Process Design
  - Nansemond Treatment Plant Odor Control
  - Williamsburg Treatment Plant Improvements
- Water Reuse
  - Northrup Grumman Newport News Shipbuilding Feasibility Study
- Program Management
  - Master Metering Program
  - SCADA System Upgrades
  - Pressure Reducing Stations
Example Projects

- Utility Management
  - Capital Project Prioritization
- Value Engineering
  - Army Base Treatment Plant Improvements
- Alternative Energy
  - Wind Turbines
  - Digester Gas to Energy
Structural Projects Engineer – Annual Services

- One contract available
- One year renewable, five year max
- Construction project limits
  - Max individual project $1 million
  - Maximum annual $5 million
- Estimated RFP - Spring 2010
Experience Required

- Code reviews
- Structural analysis for existing facilities
- Develop typical details
- Structural design
- Load rating
Example Projects

- Army Base Wet Well Rehabilitation
- Center Avenue Pump Station Building Wall Evaluation
- Boat Harbor Bulkhead Condition Assessment
- Ferebee Pump Station, Elevated Foundation Pad – Emergency Generator
- South Shore Interceptor Force Main Structural Support Replacement
CIP
RFP's Coming Out
H.A.R.T. Analysis

- Hydraulic Analysis Review Team
  - HRSD – Planning and Operations
  - CDM
  - Locality
- Consent Order Requirement – Regional Design Guidelines (RDG)
- Develop Technical Memos
  - Sizing
  - Pump Station design points
Capital Projects coming out for RFP in the next year

- Total value = $88.5 million
- Projects may be grouped into one RFP and have multiple consultants selected
## Capital Projects coming out for RFP

<table>
<thead>
<tr>
<th>CIP No</th>
<th>PROJECT NAME</th>
<th>PROJECT CATEGORY</th>
<th>PROJECT TYPE</th>
<th>TOTAL PROGRAM</th>
<th>Est. Start A/E Selection / RFP</th>
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</thead>
<tbody>
<tr>
<td>AB-100</td>
<td>Army Base 24-Inch and 20-Inch Transmission Main Replacements</td>
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<td>Rehab / Replacement</td>
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<td>Bridge Street Pump Station Replacement</td>
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<td>NP-106</td>
<td>Wilroy PRS, Pughsville PRS Upgrades, and Suffolk PS Upgrades</td>
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<td>Submersible PS Replacements</td>
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<td>York River Treatment Plant Phase I Contract B</td>
<td>Treatment Plant</td>
<td>New</td>
<td>$52,700,000</td>
<td>Spr - 2010</td>
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AB-100, Army Base 24-inch and 20-inch Transmission Main Replacements
AB-105, Section W Force Main Replacement
AB-100, Army Base 24-inch and 20-inch Transmission Main Replacements

- Constructed in 1956
- 20”/24” Cast Iron, RCP Parallel lines – over 3 miles
- Replacement may combine both lines (30”?)
- Estimated Cost - $9,620,000
- Estimated RFP – Spring 2010
AB-105, Section W Force Main Replacement

- Constructed in 1948
- 2,600 ft 10 inch Cast Iron
- Discharge from North Shore Road PS#117
- Estimated Cost $980,000
- Estimated RFP
  - Spring 2010
BH-116, Bridge Street Pump Station Replacement

- Constructed in 1945 (63 yrs old)
- Wet well is small - limiting capacity
- Tidegate on the upstream inverted siphon
- Possible historical preservation area
- Adjacent to yacht club
- Hampton Study underway
- Estimated Cost - $2.7 million
- Estimated RFP – Spring 2010
NP-106, Wilroy PRS, Pughsville PRS, and Suffolk PS
NP-106, Wilroy PRS, Pughsville PRS, and Suffolk PS

- Provide increased system capacity
- HART evaluation underway
  - Wilroy Pressure Reducing Station Location
  - System operating approach for all stations
- Estimated Cost - $15,600,000
- Estimated RFP – Spring 2010
VIP-142, Colley Ave Pump Station Rehab

- Pumps
- Motors
- Drive
- Instrumentation
- Controls
- Valving, Piping
- Generator
- Estimated Cost: $1,200,000
- Estimated RFP: Feb 2010
VIP-147, Submersible Pump Station Replacement
VIP-147, Submersible PS Replacement

- Four aging submersible pump stations
- 0.4 to 0.8 MGD
- 1950’s to 1970’s
- Estimated Cost - $5,700,000
- Estimated RFP – Feb 2010
YR-110-2, York River Treatment Plant Phase I
Contract B

- Compost and Dewatering Facility
- Solids for James and York River Treatment Plants (30 – 35 MGD)
- Design Build using the Public-Private Educational Facilities and Infrastructure Act (PPEIA) Process
- Estimated Cost - $52,700,000
- Estimated RFP - Spring 2010
Questions?

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