What is the Allegheny County Sanitary Authority (ALCOSAN)?

- City-County authority governed by the Municipal Authorities Act of Pennsylvania
- Seven-member board of directors appointed by the Allegheny County executive and the mayor of the City of Pittsburgh
- Provides treatment of wastewater from 83 municipalities with discharge to the Ohio River
ALCOSAN treats up to 250 million gallons of wastewater per day and serves 823,600 people
ALCOSAN owns 90 miles of interceptors with 400 municipal connection points.
Wet Weather Solutions

ALCOSAN WET WEATHER PROGRAM

Clean Water Plan
Clean Water Plan
Key Components

Municipal Flow Reduction

- Plant expansion
- Critical tunnel segments
- Sensitive-area projects

Flow Reduction Targets
- Green infrastructure
- Sewer rehabilitation
- GROW program

ALCOSAN Gray Backbone

- Inter-municipal trunk sewers
- Existing wet weather facilities

Priority Projects
- Plant expansion
- Critical tunnel segments
- Sensitive-area projects

Regionalization

Transfer to ALCOSAN
Clean Water PMO Team

ALCOSAN

Owner Representative
ALEM Consulting, LLC

Wet Weather Program Director
CDM Smith

Preliminary Planning
Wade Trim

Property Acquisition
Keystone/Hanna

Plant Program Manager
Arcadis

Regional Tunnel Program Manager
TBD

Regionalization Program Manager
AECOM

Green Infrastructure Program Manager
Jacobs (CH2M Hill)

Plant Design Packages

Tunnel and Consolidation Design Packages

Transferred Trunk Sewer Projects

I&I Source Red. /Green Infrastructure Projects
General Update

- Consent Decree negotiations nearing completion
- Regionalization Transfer Agreements ready for Board approval
- GROW Cycle 3 awards announced shortly
- Completion of the Phase 1 Geotechnical Report
- Basis of Design Report, 537 Special Study and Part II permit for the plant expansion submitted to PADEP
Preliminary Planning

- Incorporate flow optimization, GI and source control into CWP
- Identify right balance of green and gray infrastructure
- Perform geotechnical investigations for tunnel features
- Coordinate with Plant Expansion, GROW and Regionalization programs
- Evaluate tunnel route and consolidate sewer alternatives
- Prepare CWP Report update, BOD Report and preliminary drawings
- Completion: 4th Quarter 2020
WWTP Expansion Program

- Wet Weather Pump Station
- Wet Weather Disinfection Tank
- Chemical Building
- New Outfall
- Chemical Building
- Ras Pump Station
- River Wall
- Final Disinfection Tank
- Final Settling Tank (EFS-9)
- Final Settling Tank (WFS-9)

Expand Pumping, Headworks and Primary Capacity to 480 then to 600 MGD

Create an additional 305 MGD of Secondary Treatment Bypass Capacity

Increase Plant Secondary Treatment Capacity from 250 to 295 MGD
WWTP Expansion Program

Plant Design Packages

• **Package 1** – North end facilities
• **Package 2** – 5KV substation modifications
• **Package 3** – Misc. infrastructure improvements
  • New main pumping station flow meters and access platforms
  • Return activated sludge (RAS) pump and piping replacements
  • Temporary hypochlorite piping and pump modifications
  • Effluent water pump replacement
Plant Design Packages (continued)

- **Package 4** - CSO-related bypass disinfection
- **Package 5** - East headworks
- **Package 6** – Waste activated sludge thickening
- **Package 7** - New laboratory
- **Package 8** - Primary sedimentation tanks
- **Package 9** – Wet weather pump station
### WWTP Expansion Program

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<tr>
<th>Project</th>
<th>2018</th>
<th>2019</th>
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- **Design**
- **Construction**
2018 Plant Expansion Progress

- Plant expansion construction manager selected
- Property acquisition consultants selected
- Demolition of Operations and Maintenance Building
- **Package 1** – North end facilities
- New laboratory and Industrial Waste facility assessment
- **Package 2** – Plant electrical distribution system upgrade
- Temporary hypochlorite piping and pump modifications
2019 Opportunities

• Package 5 - East headworks
• Package 7 - New laboratory
• New main pumping station flow meters and access platforms
• Return activated sludge (RAS) pump and piping replacements
ALCOSAN Procurement

- Advertise for qualifications on as-needed basis in local newspapers and on website
- Use RFQ/RFP process for large projects
- MBE/WBE/SDV participation goals: 10% - 25%
- Selection process includes review of technical proposals and interviews
- Selections require approval of ALCOSAN Professional Services Committee and Board of Directors
• Go to www.alcosan.org

• Click on Business Opportunities

• Click on RFQs / RFPs
Opportunities Contracts

• Wet Weather Preliminary Planning (Mike Lichte)

• Wet Weather Plant Expansion (Dan Lockard)

• Regionalization Program (Jan Oliver)

• GROW Program (Tim Prevost)

• Procurement Questions (Suzanne Thomas)
Save the Date for ALCOSAN’s Award-Winning Annual OPEN HOUSE

FREE and open to the public!

3 RIVERS PROUD

Saturday, September 15, 2018 - Open 9 to 4, Rain or Shine!

Questions?