



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Bureau of Safe Drinking Water

Pennsylvania Capability Enhancement Program

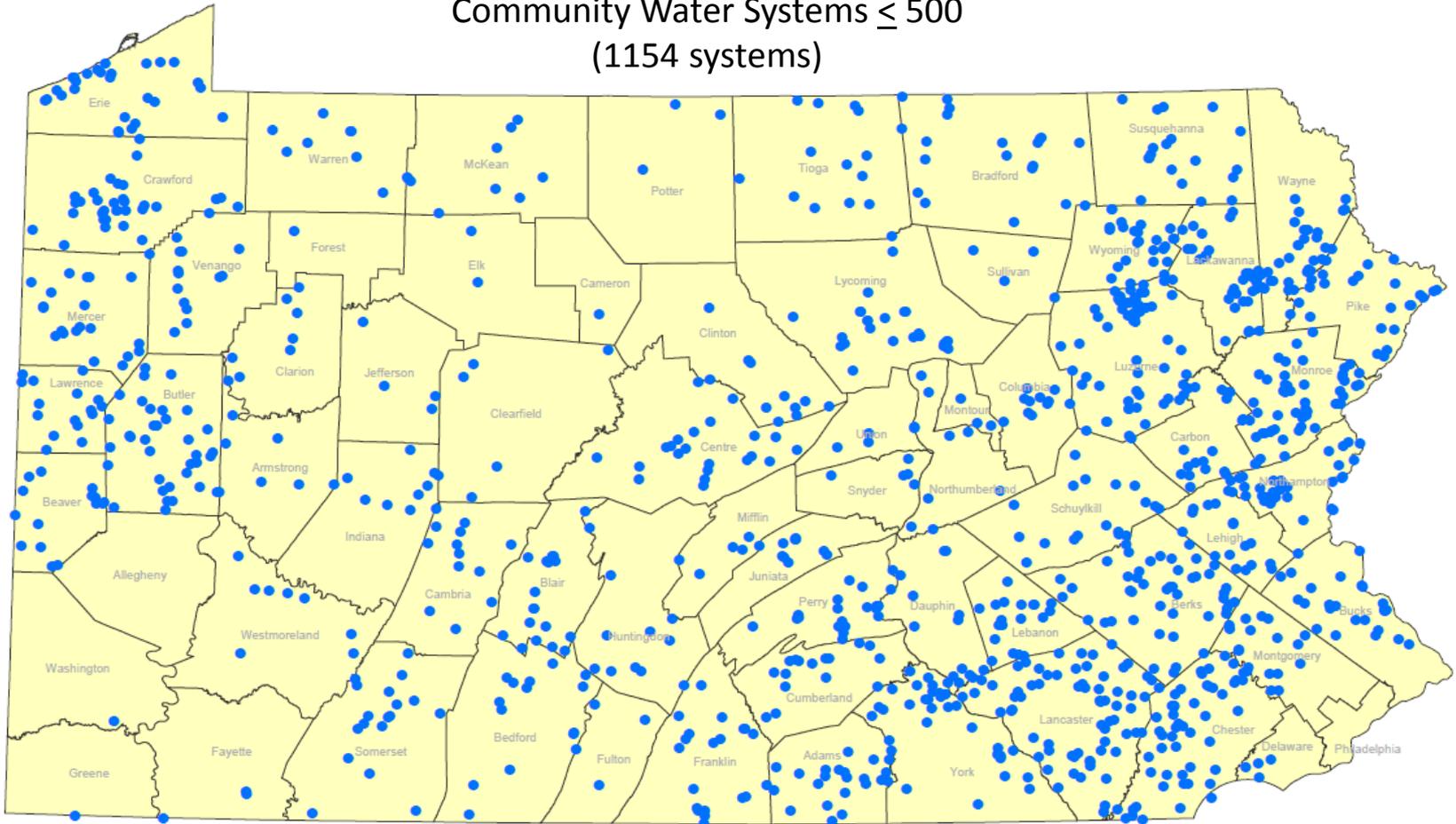
2017 SRBC Workshop

Williamsport, PA

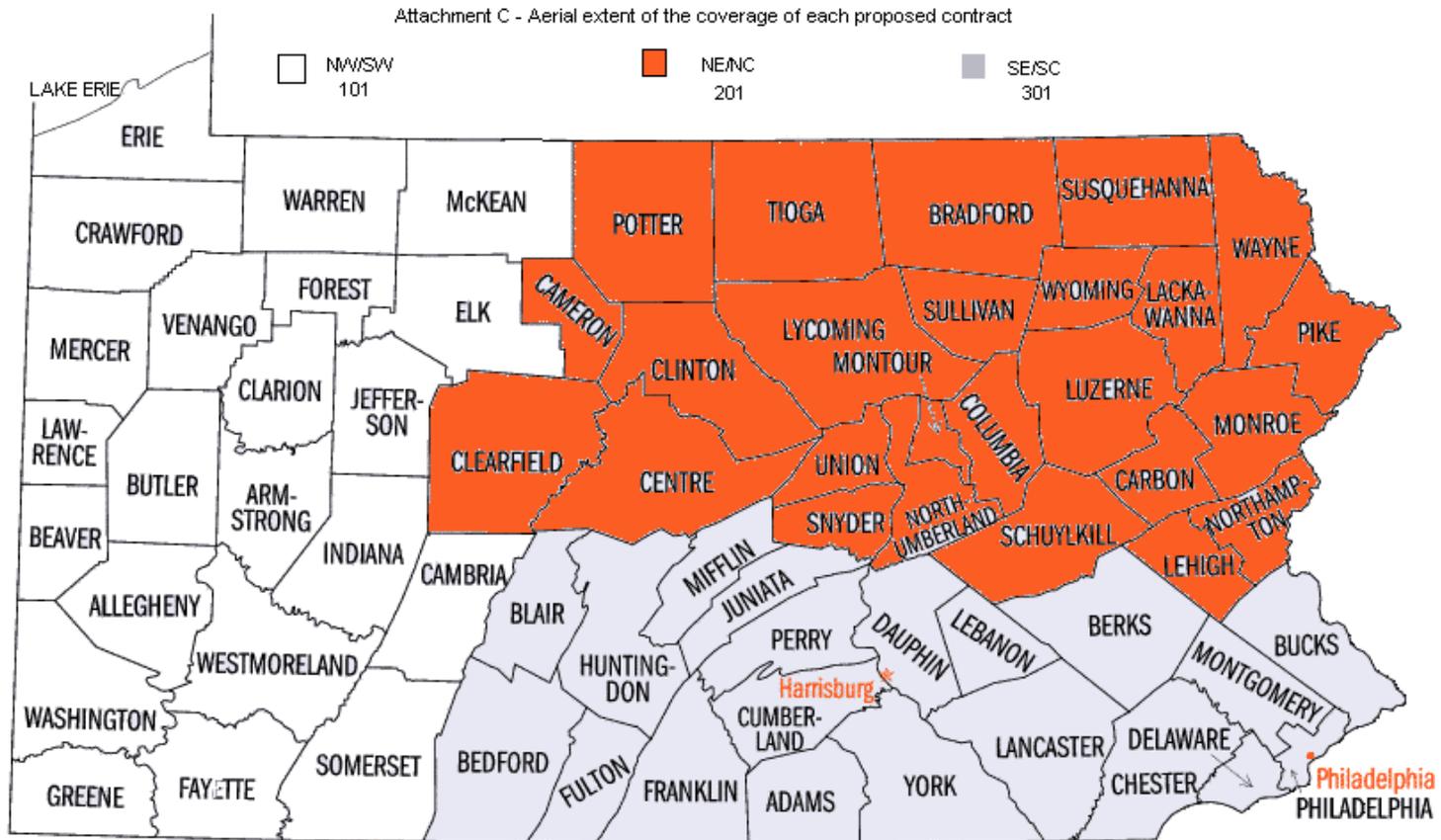
September 20, 2017

Community Water Systems

Community Water Systems ≤ 500
(1154 systems)

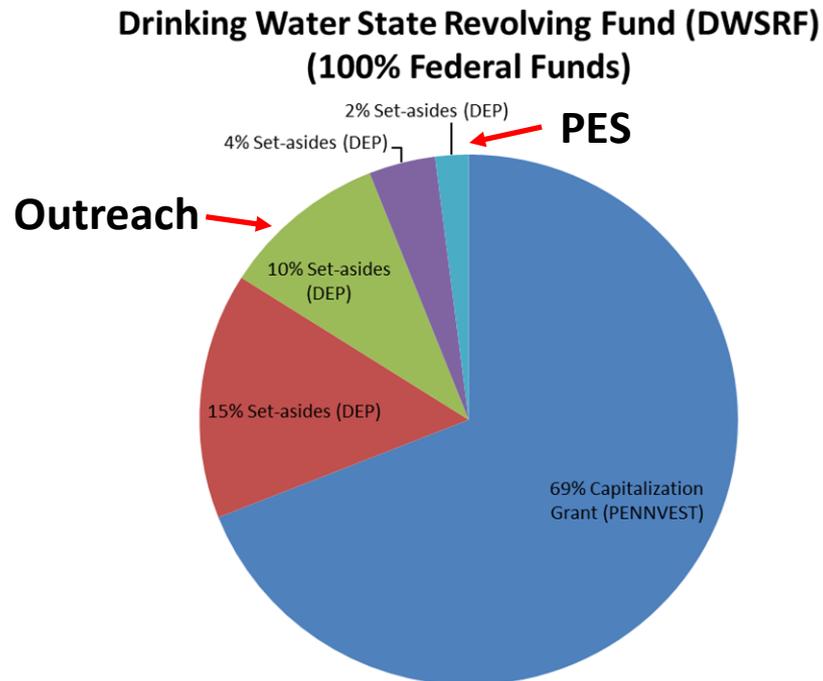


Capability Enhancement Facilitators



Capability Enhancement Program

- Outreach Assistance
- Professional Engineering Services
- Use of DWSRF Set-aside Provided by EPA



Outreach Assistance Program

- Peer assistance



Direct Assistance

Classroom Training



Outreach Assistance Program

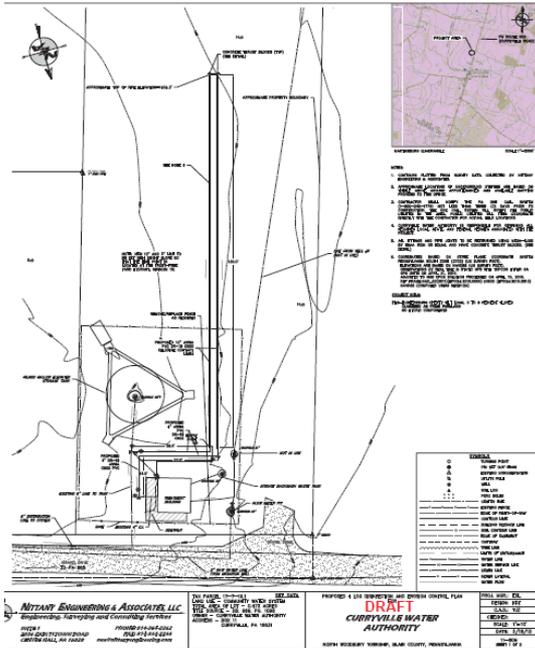
Technical

- Optimizing Treatment and Solving Treatment Challenges (e.g., inorganic removal, corrosion control treatment, pre-treatment, and filtration)
- Operational Skills (e.g., lab procedures , jar testing, chemical feed pump calibration, special studies)
- Water Loss Control Auditing

Managerial / Financial

- Asset Management
- Recordkeeping and Reporting

Professional Engineering Services



Design

Permit

3800-PM-BSDW002 Rev. 8/2013
Application

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF SAFE DRINKING WATER

DEP USE ONLY
DATE RECEIVED

PUBLIC WATER SUPPLY PERMIT APPLICATION

Before completing this form, read the step-by-step instructions provided in the Public Water Supply Permit Application Instructions.

SECTION A. APPLICANT IDENTIFIER
Applicant Name: Curryville Water Authority-PWSID No. 4070298

SECTION B. PROJECT INVENTORY
Will the water system serve at least 15 service connections or an average of at least 25 individuals at least 60 days out of the year? Yes No

Proposed Activity <input type="checkbox"/> Construction <input checked="" type="checkbox"/> Modification	Proposed Source Type <input type="checkbox"/> Well(s) <input type="checkbox"/> Lake(s) <input type="checkbox"/> Spring(s) <input type="checkbox"/> Stream(s) <input type="checkbox"/> Finished Source Source Name _____
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Proposed Facilities <input type="checkbox"/> Impoundment <input type="checkbox"/> Settling <input type="checkbox"/> Filtration <input type="checkbox"/> Iron and Manganese Treatment <input type="checkbox"/> Softening <input type="checkbox"/> Fluoridation <input type="checkbox"/> Distribution Facility <input type="checkbox"/> General Corrosion Control	<input type="checkbox"/> Corrosion Control for lead/copper <input type="checkbox"/> Disinfection <input type="checkbox"/> Pump Station(s) <input type="checkbox"/> Transmission Lines <input type="checkbox"/> Finished Water Storage <input type="checkbox"/> Bulk Water Loading Station(s) <input checked="" type="checkbox"/> Other chlorine contact volume addition to demonstrate compliance with 4-log treatment of viruses for groundwater sources	BVRB Systems <input type="checkbox"/> Bottled Water System <input type="checkbox"/> Vended Water System <input type="checkbox"/> Retail Water Facility <input type="checkbox"/> Bulk Water Hauling System
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Funding Acquisition Assistance



Professional Engineering Services

Free Engineering Assistance

- Design
- Permitting
- PENNVEST, CDBG and other Application Assistance

System pays for:

- Construction
- New groundwater source sampling
- Permit fees

Competitively Bid Contract

Professional Engineering Services

Eligibility

- All community systems with population $\leq 10,000$ people
- Non-profit Non-community systems serving $\leq 10,000$ people (hospitals, schools, churches, municipal buildings and facilities)
- **Systems willing to address their capability deficiencies**
 - Operator Outreach and PES can assist

Professional Engineering Services

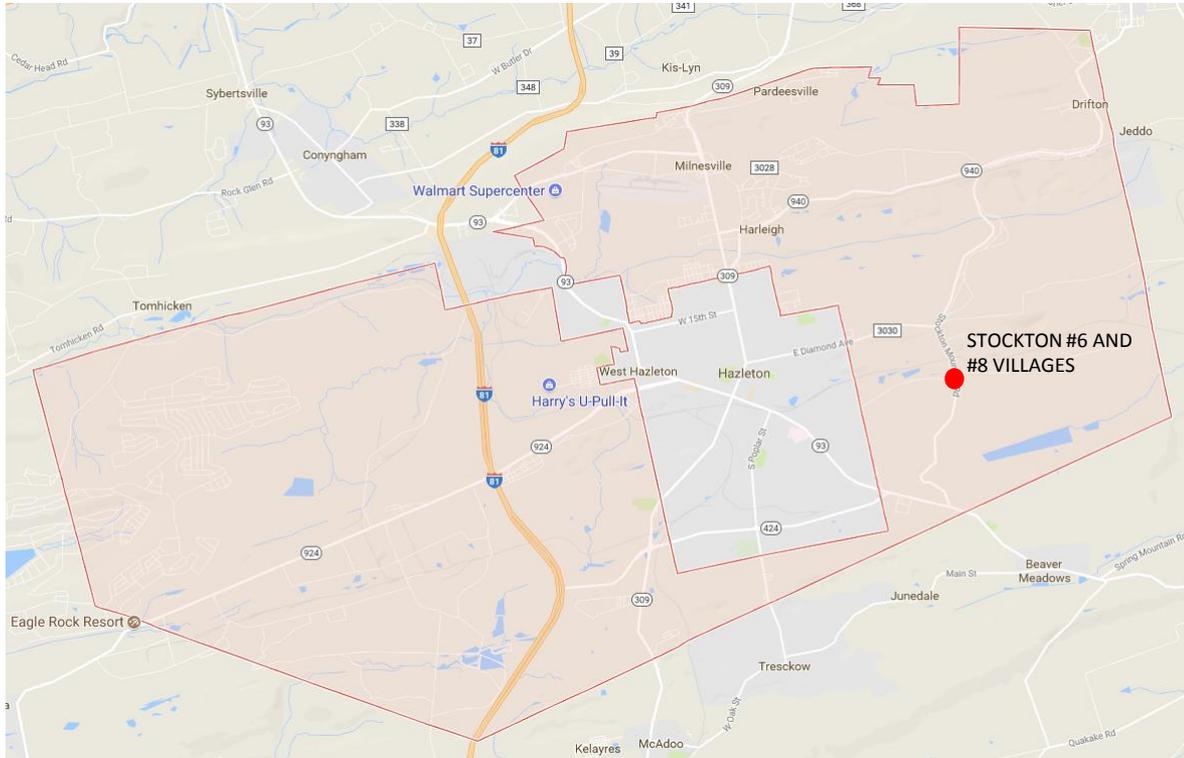
Example projects

- 4-log Inactivation design
- Consolidation or Interconnection
- Permit Amendments
- Storage Tank Replacement Design
- Storage Tank Painting Design
- Source Rehabilitation
- Groundwater Well Evaluation/Treatment Design
- Distribution System Assessment & Leak Detection
- Contract Admin and Construction Oversight
- Capital Needs Assessment
- Grant and Funding Acquisition Assistance
- Income Survey
- Treatment System Design
- Waterline Extension or Replacement
- New Source Permit and Treatment
- Engineering Assessments
- As Built Engineering Drawings
- Groundwater Well Siting
- Tracer Study
- System Mapping
- Corrosion Control Feasibility Study
- Asset Management Budget Analysis

Success

**Stockton 6 & 8 Villages
Hazleton City Authority
Waterline Extension Project**

Stockton



Priority Ranking Score (2014) – 34,689

- Defunct PWS System with no responsible party
- Approximately 43-50 service connections
- No treatment
- Lab results showed presence of *Giardia Lamblia*
- MCL exceedances for total coliforms, turbidity, aluminum, manganese, pH
- Do Not Use Notice for human consumption sent by DEP in July 2014
- Potable Water Tanker provided by Hazleton City Authority

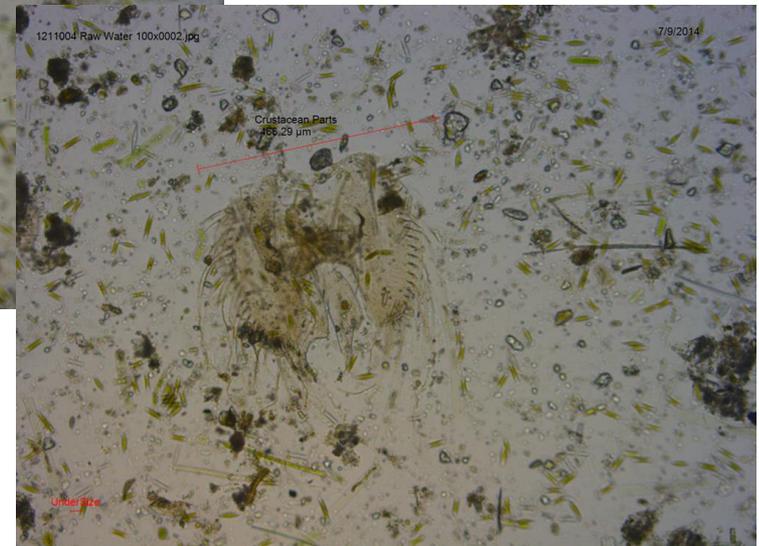
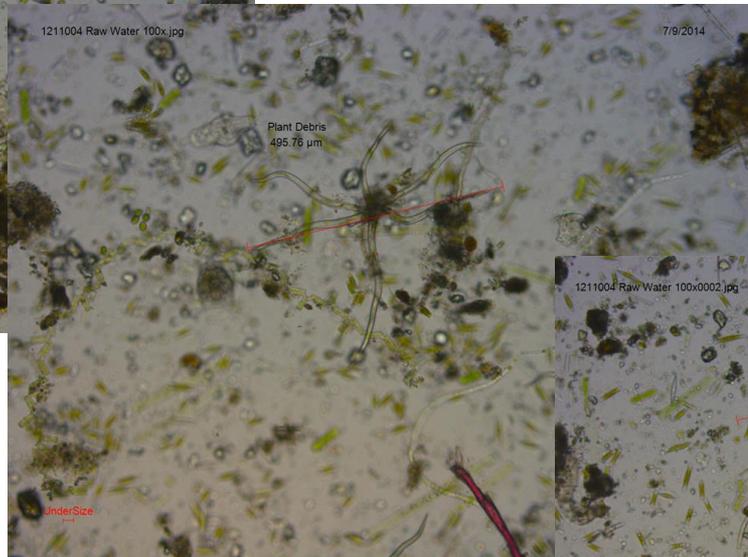
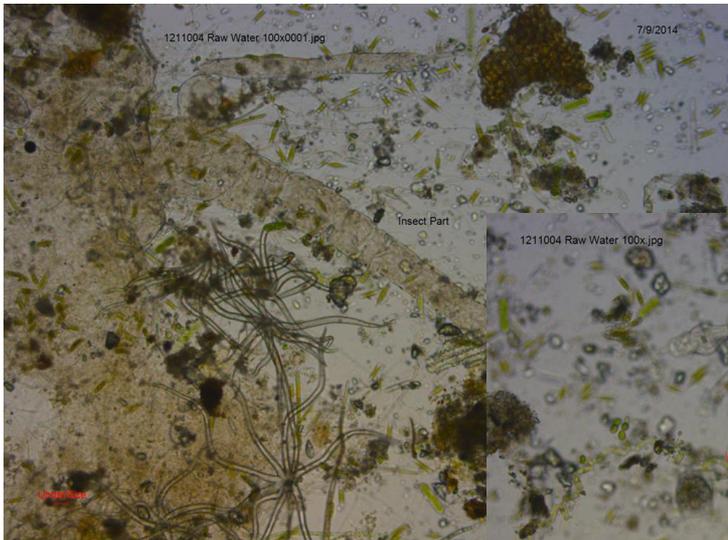
Stockton

Sources



Stockton

MPA Sample Results



Stockton

Distribution Main



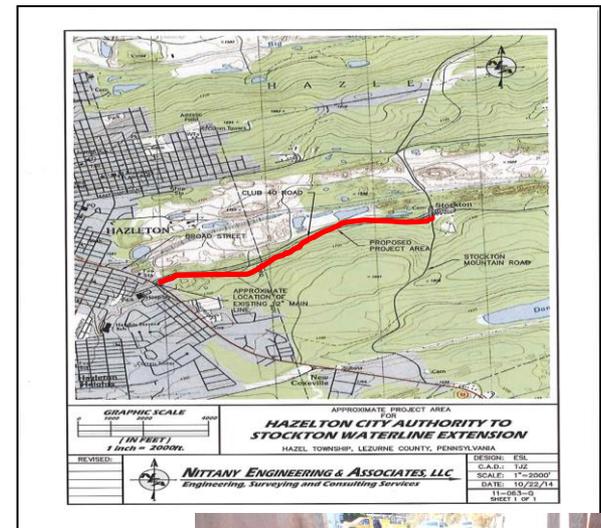
Stockton

Hazleton City Authority Water Buffalo



Stockton

- Extend HCA's (PWS ID 2408001) Distribution System to Stockton
- Installation of \approx 2 miles 12-inch DI waterline with associated appurtenances (hydrants, shut-offs, valves, restoration, paving, meters)
- Project Cost was estimated to be \$2,210,181.00
- CEP initiated project and secured PES funding. Obtained buy-in from interested parties and facilitated submission of documentation to DEP NERO and PENNVEST to secure project funding.
- HCA was project applicant
- Grant Funding Offer on April 22, 2015
- PENNVEST LONP issued September 2015 to allow work to begin
- Interconnect in service on August 2016

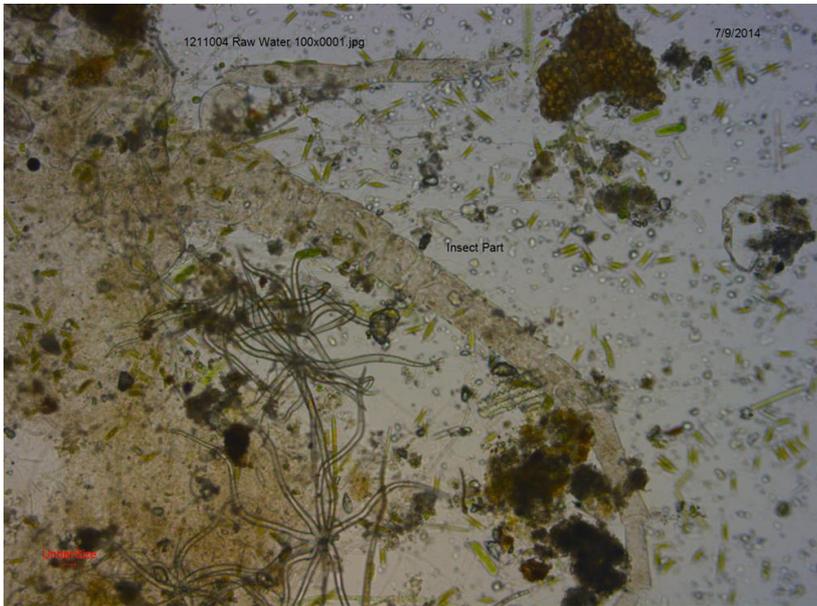


Stockton

Role of Capability Enhancement and Professional Engineering Services Program

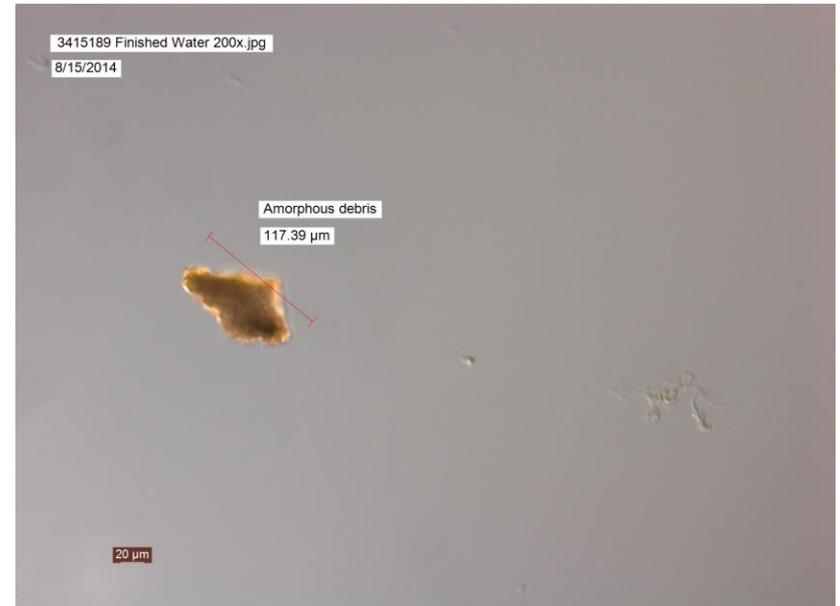
- Initiated and facilitated project by consensus building (among DEP Northwest Regional Office DW, SW, and Upper Management, Hazleton City Authority, Hazle Township, PennDOT, state legislators) and Securing PES
- Contract Management of Engineering Services (PES - Nittany Engineering)
- Develop PES Scope of Work for Project
- Facilitated status and progress meetings through the design and permit application stage.

Stockton



Stockton
Water

Priority Ranking Score (2014) – 34,689



Hazleton City
Water

Priority Ranking Score (2017) – 68



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