

Presentation to

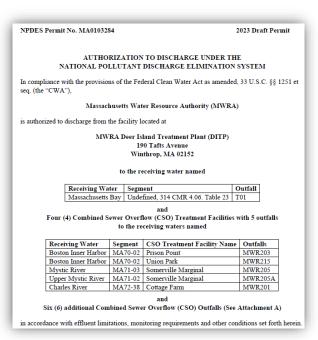
MWRA Board of Directors

Deer Island Wastewater Treatment Plant
Draft National Pollutant Discharge Elimination
System (NPDES) Permit and
State Surface Water Discharge Permit
Comment Letter Overview



Comment Letter on Draft Deer Island NPDES Permit

- On May 31 EPA issued a draft Deer Island NPDES Permit and MassDEP issued a separate Surface Water Discharge Permit
- Public Comment Period closes November 28
- Comments are made to:
 - Request certain elements be changed
 - Preserve right to appeal





Important Positive Elements of the Draft Permit

- Seasonal Enterococcus limit
- No Nitrogen Limit
- Removed Contingency Plan





Comment Letter Highlights

- Blending:
 - Important to maximize flows to the plant, needs to be incorporated into the permit
- Co-Permittees
- Storm Event Plans/Adaptation Plans:
 - Significant level of effort, unbalanced with other needs
 - Modified language in recent permits





Comment Letter Highlights

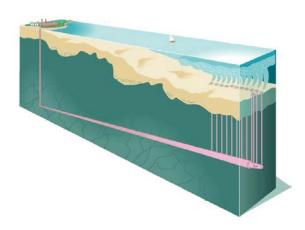
- CSO Program:
 - Concerns with setting LTCP volume and activation goals as limits
- Nuisance and Harmful Algal Bloom Monitoring:
 - Some reductions in MA Bay Monitoring Program
 - But algal monitoring additions are significant
- Pretreatment Program:
 - Report deadlines





Comment Letter Highlights

- Other Elements
 - Strict Acute Toxicity Test limit
 - Challenging Seasonal Event CSO
 Sampling Program
 - Costly Outfall Tunnel Video Inspection required
 - Generic Narrative requirements compliance





After the Public Comment Period Closes:

- EPA will compile all the comments, develop responses, make changes to the permit language, and finalize the permit.
- There is no set time period for going from draft to final it can take from months to years.
- When the final permit is issued, permit limits generally start approx.
 60 days later
- If there is an appeal, it first goes to the EPA Environmental Appeals Board, and then to the First Circuit if the appeal is pursued further.
- Appeal of state Surface Water Discharge Permit first goes to MassDEP's Office of Appeals and Dispute Resolution.





Presentation to

MWRA Board of Directors

Operation and Maintenance of the Fore River Pelletizing Plant New England Fertilizer Company Contract S592



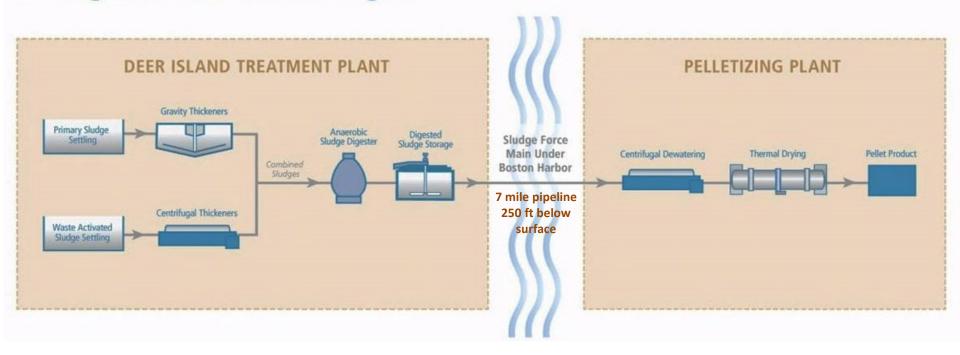
MWRA Pellet Plant in Quincy, MA

- Located in Fore River Shipyard
- Designed, Constructed & Owned by MWRA
 - Total cost \$133 M
- **FY24 Budget** \$20,343,524 (105 dtpd)
 - Plus \$6,208,643 for landfilling



- Contract Operation and Maintenance since startup
 - Contract 1: 1991 2001 Competitive Bid NEFCo
 - Contract 2: 2001 2015Competitive Bid NEFCo
 - Amendment 1 Negotiated 5-Year Extension (through end 2020)
 - Amendment 2 Loss of remote silos
 - Amendment 3
 2 yr extension + 1 optional year

Existing Solids Process Flow Diagram





MWRA Pellet Plant

- Processes liquid sludge from Deer Island
 - Receives digested sludge
 - Dewaters with centrifuges
 - Dries with thermal dryers
 - Produces Class A EQ Fertilizer Pellet
- Processes 105 dry tons sludge daily
 - Contract has 95 dtpd base quantity
- Markets/distributes 34,000 tons fertilizer pellets









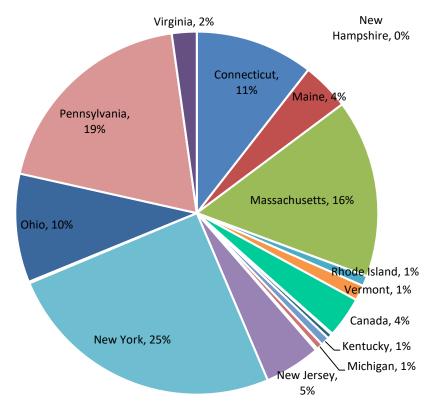
Pellet Plant O&M Contract: \$592

Issued as RFQ/P

- Operate & Maintain Pellet Plant
- Contract Duration: 10-years
- Expected production: 105 dtpd, 95 dptd base
- Goal: beneficial use
- Responsible for testing/determine compliance
- Separate line item for Marketing and Disposal
- Contractor accepts Title to Biosolids, is responsible for liability and indemnifies MWRA for end use
- Includes landfill contingency due to PFAS

• Capital projects – by MWRA

MWRA Pellet Distribution - 2022





Pellet Plant O&M Contract: \$592

Issued as RFQ/P (April 25, 2023)

- 15 Firms Solicited
- 10 Firms requested RFQ documents
- May 23, 2023 held pre-proposal conference/tour
- 3 Firms submitted qualifications statements, 2 deemed qualified received RFP
 - New England Fertilizer Company
 - Veolia Water North America Northeast, LLC

RFP issued June 14, 2023

- MWRA received over 150 questions from potential proposers
 - Veolia ultimately did not submit proposal citing risk allocation
 - MWRA received one proposal on September 29, 2023



Pellet Plant O&M Contract: \$592

One Proposal: NEFCo

NEFCo Proposal Price: \$229,289,350

• Engineer's Estimate: \$189,777,563

Total cost including estimated excess

quantities and index adjustments: \$340,768,294

Alternate Disposal Option Cost

\$2,825,360 per year



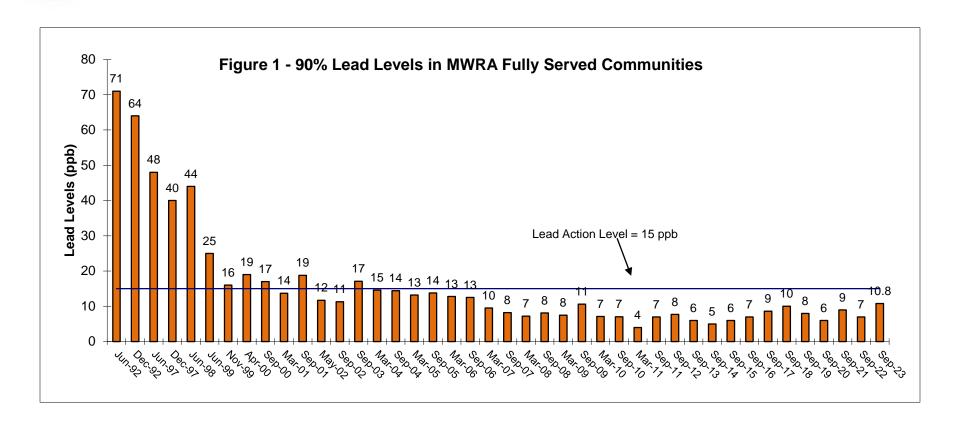
Presentation to

MWRA Board of Directors

Update on Lead and Copper Rule Compliance – Fall 2023



2023 System-Wide Lead Levels are Below the Action Level





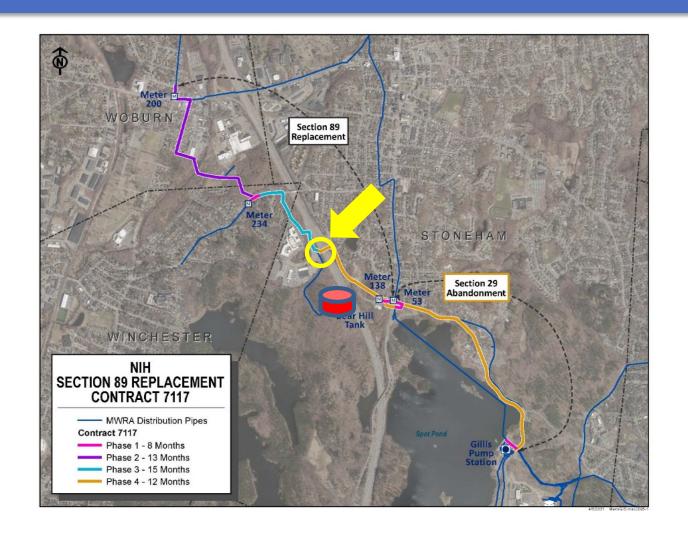
Presentation to

MWRA Board of Directors

Northern Intermediate High Section 89 Replacement Pipeline Contract 7117 - Change Order 5

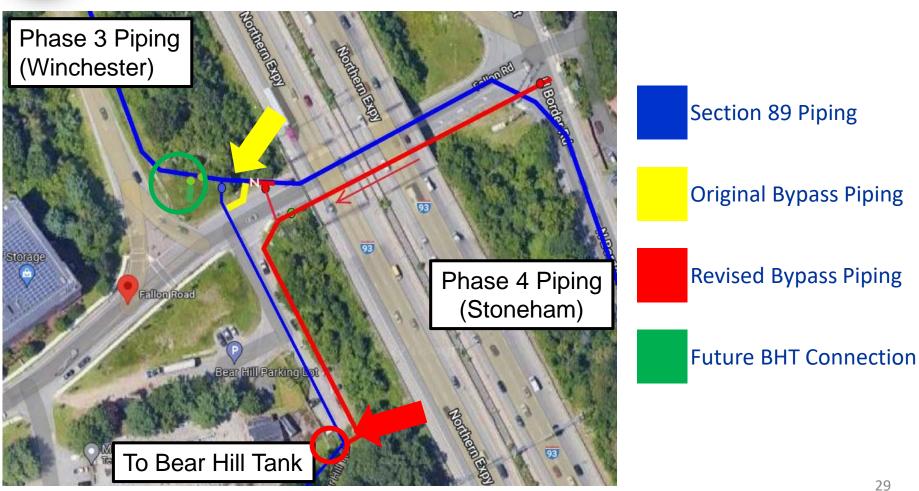


Contract 7117 NIH Section 89 Replacement





Bear Hill Tank Bypass Redesign





Contract 7117 NIH Section 89 Replacement

Pre-stressed Concrete Cylinder Pipe

- Several catastrophic breaks have occurred around the country due to brittle wire issues in Pre-stressed Concrete Cylinder Pipe (PCCP).
- Section 89 pipeline in the MWRA Water System is comprised of PCCP.

