FOXBOROUGH DEPARTMENT OF PUBLIC WORKS
70 ELM STREET
FOXBOROUGH, MASSACHUSETTS 02035

REQUEST FOR PROPOSALS
FOR
MAINTENANCE, REPAIR, MODIFICATION AND ASSET MANAGEMENT OF WATER STORAGE FACILITY
WATER TANK AT PATRIOT PLACE
GILLETTE STADIUM TANK

The Foxborough Department of Public Works, Water & Sewer Division, acting through its Public Works Director and the Board of Water and Sewer Commissioners and in accordance with the provisions of MGL c.40, §§62-69, inclusive, seeks proposals from qualified firms to provide extended rehabilitation, maintenance, repair, modification and asset management services for the subject tank, a reuse water storage facility.

Interested firms may obtain copies of the Requests for Proposals (RFP) documents by requesting electronically by sending an email to cgallagher@foxboroughma.gov . You may also download the documents directly from the Water & Sewer department page at www.foxboroughma.gov

Proposals will be received at the Foxborough Department of Public Works, 70 Elm Street, Foxborough, Massachusetts 02035 by Thursday January 7, 2021 until 1:00 PM. All Proposals must be in a sealed package and labeled with the firm's name and must include the following:

(1) A NON-PRICE PROPOSAL

FOR EXTENDED REHABILITATION, MAINTENANCE, REPAIR AND ASSET MANAGEMENT SERVICES FOR WATER TANK AT PATRIOT PLACE, FOXBOROUGH, MASSACHUSETTS 02035.

THREE (3) copies of the sealed Non-price Proposal are required.

A sealed package labeled with the firm's name and the following is required with the above:

(2) A PRICE PROPOSAL

FOR EXTENDED REHABILITATION, MAINTENANCE, REPAIR AND ASSET MANAGEMENT SERVICES FOR WATER TANK AT PATRIOT PLACE, FOXBOROUGH, MASSACHUSETTS 02035.

THREE (3) Copies of the sealed Price Proposal are required.

The Foxborough Department of Public Works (DPW), Water & Sewer Division intends to award a contract to a responsible and responsive offeror, whose Proposal has been deemed to be the most advantageous for the Foxborough DPW, Water & Sewer Division, taking into consideration

price and the evaluation criteria set forth in the RFP, provided, however, that such Proposal shall be in full compliance with all applicable requirements of federal, state and local laws, including Section 26 to 27H, inclusive, of MGL Chapter 149.

The contract to be awarded will be for a term of fifteen (15) years, including one option for the Foxborough DPW, Water and Sewer Division in its sole discretion, to extend the term for an additional five (5) years. The contract to be awarded pursuant to this RFP shall contain terms consistent with and required by MGL c.40, Sections 61 to 69, inclusive. An award of a contract pursuant to this RFP will require a favorable, two-thirds vote of the Foxborough Board of Water and Sewer Commissioners.

The Foxborough DPW, Water & Sewer Division reserves the right to cancel this RFP, to reject in whole or in part any and all Proposals, to seek further information from any and all offerors, to negotiate terms and price with the selected firm, or waiver informalities on the process, as deemed to be in the best interest of the Foxborough DPW, Water and Sewer Division. There will be no reimbursement to any firm if selection or this RFP is terminated.

Public notice of this RFP shall be published in the Central Register pursuant to section 20A of Chapter 9 of the general laws, at least 30 days before the time specified for receipt of Proposals.

William G. Keegan, Jr., Chief Procurement Officer

Request for Proposals

Inspection, Maintenance, Repair or Modification of Tanks
Town of Foxborough Department of Public Works (DPW), Water & Sewer Division
Foxborough, Massachusetts 02035

1. OVERVIEW

The Foxborough DPW, Water and Sewer Division is seeking to engage a qualified multi-disciplined firm to provide the required services and rehabilitation of the Foxborough Water Department water tank inventory.

Tank Asset	Capacity	Material	Type	Built	Inspected
Patriot Pl Gillette Stadium	**1MG**	**Steel & Concrete**	**Composite Hydropillar**	**2001**	**11/15/2019**

See attached inspection report by Suez, dated November 15, 2019.

The Foxborough DPW, Water & Sewer Division intends to select a single firm capable of providing the required services based on price and the evaluation criteria set forth in this RFP. All Proposals must be in full compliance with all applicable requirements of federal, state and local laws, including sections 26 to 27H, inclusive, of Chapter 149 of the general laws.

The selected firm shall enter into a contract with the Foxborough DPW, Water & Sewer Division to provide and perform all scope of work as specified and all services and tasks as listed below in accordance with the routines identified for the water tank at Patriot Pl Gillette Stadium:

MAINTENANCE AND INSPECTION SERVICES

a.) Annual inspections for safety, security, sanitary, structure and coatings management. A written report shall be provided on an annual basis to document the inspection and provided to the Town by e-mail in Portable Document Format (PDF).
b.) Periodic Remotely Operated Vehicle (ROV) inspections. No diving allowed.
c.) Power wash entire exterior surfaces every five (5) years.
d.) NSF 61 approved chemical cleaning of interior floor and sidewalls every (5) years.
e.) All permits for inspections and renovation work as required.
f.) Warranties:
    - Exterior: Fifteen (15) year exterior coatings warranty while under contract.
    - Interior: Three (3) year interior coatings warranty from time of application.
    - Mixer: Two (2) year warranty on mixer, materials and workmanship.
g.) Overcoat exterior within fifteen years or when applicable to preserve coatings.
h.) Correction of any coating failure from annual inspections at areas repaired during the initial maintenance scope on interior, exterior, circulation system and sanitary deficiencies.

i.) Maintain tank in good working order and sanitary condition so tank does not depreciate.
j.) Maintain the tank in safe, secure, sanitary and aesthetically appealing condition.
k.) Professional maintenance provider is responsible for all aspects of tank repair.
l.) Professional provider assumes all risk and responsibility including repairs due to emergencies, leaks or vandalism during the warranty period.
m.) All work shall conform to MassDEP's Guidelines for Public Water Systems as found here: https://www.mass.gov/service-details/guidelines-for-public-water-systems
n.) All items in contact with drinking water shall be certified for drinking water application by the National Sanitary Foundation (NSF) standard 60 and 61 or similar certifications, which would be acceptable to MassDEP for such application.
o.) Professional provider assumes all risk and responsibility to maintain minimum pressure(107psi) and fire flow(3000 GPM) in the system whenever the tank needs to be drained. Cost should be itemized in the price proposal per occurrence if required throughout the 15 year contract.

CAPITAL MODIFICATIONS, REPAIRS OR INSTALLATION SCOPE OF WORK FOR EQUIPMENT AND SYSTEM

Patriot Pl Gillette Stadium 1MG Composite Water Tank (in Year 1)

Safety, Sanitary, and Coatings (Exterior and Interior).

Safety

- Replace both interior dry pedestal ladders (2) safety climb systems with a corrosion resistant flexible cable safety climb system.
- Move conduit in access tube to stand offs from ladder side rails. (ref. OSHA 1926.1053 Ladders)
- Disassemble, prepare & paint roof vent, replace screen and bolts.
- Replace any bulbs not working in dry interior column and access tube.
- Replace existing welded lock hasp notch on top hatch neck of access tube with a new closed loop hasp to ensure locking capability.
- Replace ten (10) roof hatch hinge bolts with stainless steel bolts on all five (5) roof hatches.
- Remove water chamber notched safety climb device. Contractors will be responsible for bringing and utilizing their own retraceable lifeline when entering water chamber.

Sanitary

- Install PAX active water mixer model PWM400v3 with control center and retrieval system to eliminate water temperature and disinfectant stratification, and reduce ice formation in the tank.
- Replace 13" OD flanged O-flow screen with a screen/flapper assembly combination (bolt on due to existing stainless pipe).

Coating Renovations

Exterior

- The exterior rehabilitation should consist of SSPC Guide 6 Class 2A containment, abrasive blast cleaning the complete exterior to an SSPC-SP6 commercial blast cleanliness, TNEMEC Series 94-H2O Hydro-Zinc Aromatic Urethane, Zinc-Rich primer, a full coat of TNEMEC Series 135 Chembuild Modified Polyamidoamine Epoxy, and a full coat of TNEMEC 72 series Endura-Shield Aliphatic Acrylic Polyurethane or equivalent. Steel grit recycling for reducing waste required.
- Apply new logo (two sides). Logo graphic to be provided by Foxborough.

Interior

- The full wet interior rehabilitation should consist of abrasive blast cleaning the complete interior to an SSPC-SP10 near white cleanliness standard followed by the application of a zinc rich urethane primer. All welds, bolts, edges and apparatus should be stripe coated using brush and roller with a high build low VOC epoxy coating followed by the application of a full coat of a TNEMEC 100% solids epoxy or equivalent coating. Steel grit recycling for reducing waste required.

Dry Interior

- The dry interior will require touchup maintenance to include SPPC-SP11 power tool to bare metal, spot solvent wipe, spot preparation, spot prime, spot finish, power tool clean around corroded O-flow flange below bowl and coat with prime & finish flange only. Series V140 TNEMEC Porta-Pox Plus coatings or equivalent preferred.

CONTRACT TERMS (as required by MGL c.40, §§61-69, inclusive).

1. A contract awarded pursuant to this RFP shall contain a provision stating that the Foxborough DPW, Water & Sewer Division may terminate the contract upon 90 days written notice and prepay any outstanding annual payments at the convenience of the Foxborough DPW, Water & Sewer Division.

2. The contract will provide that the Foxborough Department of Public Works, Water & Sewer Division obligation for payment of the annual costs to inspect, maintain, repair or modify the Patriot Pl Gillette Stadium Tank shall be subject to appropriation; provided, however, that the Foxborough DPW, Water & Sewer Division shall not be exempt from liability for the payment of the amounts amortized for completed capital modifications, repairs or installation of equipment and systems at the Patriot Pl Gillette Stadium Tank. Costs shall be amortized over a period that shall not be longer than the useful life of the modifications or repairs or the equipment and systems installed.

3. The Foxborough DPW, Water & Sewer Division annual payment obligation for any inspection, maintenance, repair or modification services shall be contingent upon the contractor's performance of the services under the terms of the contract.

4. The contract will provide that the Foxborough DPW, Water & Sewer Division: (i) will make annual payments to fund capital modifications, repairs or installation of equipment and systems at the Patriot Pl Gillette Stadium that have been completed or are to be

completed pursuant to the terms of this RFP; provided, however, that costs shall be spread over the fifteen years of the initial program as described above; (ii) shall make payments for future capital modifications, repairs or installation of equipment and systems or a second interior or exterior coating at the Patriot Pl Gillette Stadium pursuant to the terms of this RFP if the Foxborough DPW, Water & Sewer Division elects to add an additional five years to the contract at the end of the initial fifteen year program.

5. The contract shall provide for any activities deemed necessary to carry out the services described herein, inclusive, which may include, but shall not be limited to, equipment installation and replacement, studies, permitting, design and engineering, capital modification, capital repairs, painting, ordinary repairs and maintenance and the furnishing of all related material, supplies and services required for the Patriot Pl Gillette Stadium and the management, maintenance and repair of and improvements to the facility. The Foxborough DPW, Water & Sewer Division may elect to extend the contract for an additional five years. A professional or tank consultant shall prepare a written report to advise the Foxborough DPW, Water & Sewer Division on proceeding or not proceeding with the selected contractor's extension proposal.

6. The contract will include a professional consultant's report that was used as the basis of this solicitation. If the Foxborough DPW, Water & Sewer Division authorizes payments for future capital modifications, capital repairs, installation of equipment and systems or a second interior or exterior coating during the succeeding five years following the initial fifteen year period, the contractor shall then prepare a separate schedule of the payments to be made based on the estimated costs of such future capital modifications, capital repairs, installation of equipment and systems or a second interior or exterior coating at the time of the extension.

7. The contract shall specifically state that the offeror and any subcontractor under the offeror shall comply with all federal and state occupational health and safety requirements applicable to the activities provided for in the contract.

8. The selected offeror shall furnish to the Foxborough DPW, Water & Sewer Division performance bonds, payment bonds or other forms of security for the selected offeror's obligations, and insurance, satisfactory to the Foxborough DPW, Water & Sewer Division.

9. The selected Contractor will assume responsibility for working with any cell carriers directly to review any proposed cellular equipment on the Water Tower and report to the Foxborough DPW, Water & Sewer Division for approval. The Foxborough DPW, Water & Sewer Division will remain responsible for any lease agreement, coordination of efforts for equipment removal if necessary and the primary point of contact for the cell carriers or their representative. If proposed cell equipment must be removed during this agreement, it will be the responsibility and cost of the cell carriers to remove any equipment.

10. The contract shall specifically state that the offeror and any subcontractor under the offeror shall comply with all federal and state occupational health and safety requirements applicable to the activities provided for in the contract.

11. The selected offeror shall furnish to the Foxborough DPW, Water & Sewer Division performance bonds, payment bonds or other forms of security for the selected Bidder's obligations, and insurance, satisfactory to the Foxborough DPW, Water & Sewer Division.

QUESTIONS CONCERNING THIS RFP

Questions or requests for clarification concerning this RFP should be submitted in writing to the:

Foxborough Department of Public Works, Water & Sewer Division
70 Elm Street
Foxborough, MA 02035
Email: CGallagher@foxboroughma.gov
Phone: (781)-389-6139

Questions concerning this RFP must be submitted in writing and must be received by the DPW Director, Christopher Gallagher, at the address above. Questions may be sent by either mail or electronic mail before 10:00 AM on December 28, 2020. Written responses will be mailed /emailed on or before 11:00 AM December 31, 2020, to those recorded by the Foxborough DPW, Water & Sewer Division as having received the RFP.

2. SCHEDULE

The schedule for assignment will be determined at the sole discretion of the Foxborough DPW, Water & Sewer Division.

3. NON-PRICE PROPOSAL

Contents of the Non-Price Proposal must include written responses to the requirements of this RFP in the order of the section headings listed below:

A. Letter of Interest/Summary (3 page maximum)
B. Asset and Risk Management Experience and Qualifications
C. Company Net Worth and Financial Stability
D. Capability of Firm
E. Management Approach and Staff Qualifications
F. In-House and Subcontractor Resource Availability
G. Detailed Scope of Work and Schedule
H. Experience with National, Regional and Local Projects
I. References
J. Quality and Safety Plan with Experience Modification Factor (EMR) Rating
K. Other Requirements

A. Letter of Interest/Summary

This section should highlight examples of similar asset management and maintenance programs as described in Section 1 of this RFP, which have been provided by the firm for other utilities.

B. Asset and Risk Management

Describe company history and experience with general asset management, current state of assets, levels of service, risk management, maintenance and reliability, and asset planning. Identify number of municipal assets currently being maintained using asset management principals. Provide experience with implementation and execution of an asset maintenance and compliance reporting program compatible with the GASB-34 Modified Approach as referenced in the Governmental Accounting Standards Board - GASB Statement No. 34 Basic Financial Statements and Management's Discussion and Analysis for State and Local Governments. Explain how your firm's risk mitigation methods systematically reduce risk exposure to the municipality.

C. Company Net Worth and Financial Stability

1. Demonstrate corporate stability.
    a. Please provide documentation on company years of operation, assets on balance sheet, full audited financial statements and succession plan if private company.
    b. Provide reference from a financial institution
2. Ownership structure of firm. (Sole proprietorship, Partnership, Publicly Held, etc.)
    a. If the proposing firm is a sole proprietorship, partnership, or Limited Liability Corporation, a succession plan and guarantee of future performance must be documented in the proposal.
    b. The primary criteria for approving or denying the contract include the financial and technical capabilities of the private contractor; the reasonableness of the contract terms; the protection of the public/water customers from risks or subsidization of the contract; the financial terms for the Town/District and impact of the contract on its ability to repay its indebtedness; and inclusion of statutorily required terms. Under MA General Laws: Part I Administration of the Government, Title VII Cities, Towns and Districts, Chapter 40 Powers and Duties of Cities and Towns, Section 62 Contracts for the inspection, maintenance, repair or modification of water storage facility authorized (62-69), the tank owner may enter into a contract with the private firm for up to 20 years and will therefore require reasonable assurances from the firm that future performance under the contract will be secure.
    c. If one or more owners sell all, or a portion of the firm, and/or is deceased prior to the required future tank renovations, the proposal must document the ability of the company to successfully fulfill the requirements outlined in this RFP.
    d. If respondent is a consortium, the proposal must document the ability of the company to successfully fulfill the requirements outlined in this RFP.

D. Capability of Firm

This section should highlight firm history, years in business, size, and experience on comparable services for municipal clients. In addition, provide in-house summary of equipment, personnel and total assets available for execution of the scope of work outlined in

the document. Special certifications or recognition of quality assurance management should be provided.

If respondent is a consortium, the primary firm must demonstrate the partnering firms will be in partnership legally for the full duration of this project contract. The response must include a clear outline of which firm is responsible for delivering each task as specified in the RFP.

E. Project Management Approach with Staff Qualifications/Experience

This section shall include a description of the firm's Team and anticipated sub-professionals, if needed. The firm should describe its team's overall capability to meet its commitment to successfully undertake the specified work. Names, resumes and professional certifications held by key personnel such as National Association of Corrosion Engineers (NACE) should be provided along with their respective roles and related experiences. Supervisory personnel as well as one staff member that will serve as Project Manager and work with the Foxborough DPW, Water & Sewer Division on the day-to-day management of the project, shall be assigned and identified. This section shall also clearly address the ability of the firm to respond to the Foxborough DPW, Water & Sewer Division in a timely manner.

F. In-House and Subcontractor Resources and Availability

Provide total number of in-house crews that have executed similar projects and number of accessible subcontractor crews if needed to complete the work in the specified timeline. Identify location of assets and resources that will support the complete project and response time for certain project responsibilities for maintenance to include emergency service response time for weld repairs, coating failures, structural deformity of storage tank, gasket replacement, inspections, equipment failure, graffiti or other. If any work is to be performed by a subcontractor and not direct employees of the firm, it must be indicated in your proposal. Indicate percentage of work to be subcontracted. Submit a complete list of subcontractors and suppliers to be utilized for completion of the project. Subcontractors are subject to all qualifications and shall follow rules and regulations set forth herein or otherwise required to complete the work.

G. Detailed Scope of Work and Maintenance Schedule

Provide a detailed schedule with timeline and methods for pre-meeting, project start, mobilization, initial renovation and repairs, demobilization, inspections with corrective actions if necessary and any additional work to be performed while under agreement. Provide equipment and coating specifications and NSF certifications where available.

If respondent is a consortium or utilizing subcontractors, the respondent must identify which firms are delivering and managing each service and task provided for the duration of the agreement.

H. Experience on a National, Regional and Local Level

This section should include a summary of similar projects nationally and regionally (NY, NH, VT, ME, MA, CT, RI) and highlight a minimum of five (5) similar projects conducted within the past five (5) years that reflect the firm's experience with comparable services for municipal clients in New England. In addition, include the number of similar projects

conducted in the last two (2) years in Massachusetts. If applicable, describe services previously provided to the Foxborough DPW, Water & Sewer Division.
If respondent is a consortium or utilizing subcontractors, the respondent must identify the experience of each firm by project.

I. References

The firm shall provide the name, title and telephone number of a minimum of five (5) persons, who can substantiate the firm's summary of its qualifications and performance on similar contracts. References should be from recent projects of similar in size, scope and location.

If respondent is a consortium or utilizing subcontractors, the respondent must identify by reference which firm's project is being referenced.

J. Quality and Safety

Provide quality management standards and practices of the firm. Provide a copy of the firm's safety plan that includes policies for fall protection and confined space entry procedures, staff training and certifications of personnel. Provide a copy of the current 3 years of Experience Modification Rate (EMR).

If respondent is a consortium or utilizing subcontractors, all firms in the consortium should include copies of the current 3 years of Experience Modification Rate (EMR).

K. Other Requirements

a. Completed and signed forms (included in RFP): non-collusion certification form, tax compliance certificate, bidder's certification regarding payment of prevailing wages form, and labor harmony & OSHA training certification.
b. Address the ability of the firm to obtain insurance required by the Foxborough DPW, Water & Sewer Division, if selected.
c. Provide a fifteen (15) year payment summary that itemizes rehabilitation payments, annual recurring service fees, future capital modification fees, total sum of annual payments and balance due to owner upon cancellation at end of contract year.
d. Provide an itemized fee for any temporary water structures required to maintain a minimum of 107 PSI and 3000 GPM fire flow. The offeror will be responsible for coordination of this work and direct payment to any subcontractors.
e. Provide any documentation that support firm's ability to provide quality work safely.

Any additional information considered relevant by the firm, but does not apply to the categories listed, can be added after the required headings.

4. PRICE PROPOSAL

In a separate sealed envelope labeled PRICE PROPOSAL, a table of annual fees for the tasks described above will be provided. The format for this table shall list, by year, the annual fee for performance of the required services. The initial fee for rehabilitation shall be divided into the first 2 years. The fee for each subsequent year from year 3 to year 15 will be listed appropriately.

5. SELECTION CRITERIA

The selection of the firm will be made based on the criteria set forth in this RFP. After the Non-Price Proposals are evaluated, the Foxborough DPW, Water & Sewer Division reserves the right to conduct interviews of short-listed firms or to directly select the top ranked firm.

The Foxborough DPW, Water & Sewer Division reserves the exclusive right to select or reject a firm that it deems to be in its best interest to do so. The Foxborough DPW, Water & Sewer Division reserves the right to conduct interviews with selected firms if deemed necessary.

Non-Price Proposals will be evaluated for the following categories:

1. Asset and Risk Management
2. Company Net Worth and Financial Stability
3. Capability of Firm to Deliver
    a. Management Approach and Staff Qualifications
        i. Experience of Supervisory Personnel
        ii. Experience, Talent, Knowledge and Ability of Project Manager
    b. In House and Subcontractor Resource Availability
    c. Single Source Management
    d. Scope of Work and Maintenance Schedule
4. Experience with Similar Projects
    a. Experience in National, Regional and Local Projects
        i. Successful experience of similar projects
        ii. Successful experience of similar projects in New England
        iii. Successful projects with municipality
    b. References
5. Quality and Safety
6. Completion of Other Requirements Documentation

The evaluation and ranking of the Non-Price Proposals will be made by a Selection Committee consisting of:

Water Superintendent
Town Administrator

The evaluation will be based on the following:

Excellent/Highly Advantageous
Good/Advantageous
Fair/Not Advantageous
Poor/ Unacceptable

The selection of the firm will be based on the following comparative criteria:

Category 1: Asset and Risk Management Responsibility

1. Current number of Assets under Maintenance Contract with a duration over 10 years.
    - *Highly Advantageous:* Greater than 500
    - *Advantageous:* Greater than 100

- *Not Advantageous:* Greater than 25
- *Unacceptable*: Less than 25

2. Capabilities or firm with years of experience in similar long-term asset management infrastructure projects.
    - *Highly Advantageous*: Over thirty (30) years history with similar projects
    - *Advantageous*: Over fifteen (15) years history with similar projects
    - *Not Advantageous*: Over five (5) years history with similar projects
    - *Unacceptable*: Less than five (5) years history with similar projects
3. Risk Management
    - *Highly Advantageous*: Firms proposal demonstrates history, experience, and process as the best option for risk mitigation and systematic reduction of exposure to risk for the tank asset and community.
    - *Advantageous*: Firms proposal demonstrates ability to mitigate risk for systematic reduction of exposure to risk for the tank asset and community.
    - *Not Advantageous*: Does not demonstrate ability to mitigate risk of the asset.
    - *Unacceptable*: Does not meet criteria.
4. GASB-34 Modified Approach
    - *Highly Advantageous*: The firm demonstrates experience with implementation and execution of an asset maintenance and compliance reporting program compatible with the GASB-34 Modified Approach.
    - *Advantageous*: The firm demonstrates capability to implement and execute an asset maintenance and compliance reporting program compatible with the GASB-34 Modified Approach.
    - *Not Advantageous*: Does not demonstrate capability to implement.
    - *Unacceptable*: Did not respond.

Category 2: Company Net Worth and Financial Stability

1. Company Financial Condition and Stability
    - *Highly Advantageous*: Over 25 years history, greater than 100 million/year revenue and submitted completed audited financials for previous two years.
    - *Advantageous*: Over 10 years, greater than 50 million/year revenue and submitted completed audited financials for previous two years.
    - *Not Advantageous*: Over 5 years, greater than 10 million/year revenue, no audited financial documents submitted.
    - *Unacceptable*: Less than 5 years, less than 10 million/year revenue, no audited financials submitted.
2. Assets owned by firm for completion of the project. Assets classified as Dust Collection equipment, Vacuum Systems, Containment Systems, Decontamination Units, Abrasives Transport Trailers, Road Tractors, Bulk Abrasive Transport Rail Cars, Grit Blast and Robotic Blast Units.

- *Highly Advantageous*: Over one hundred (100) combined assets
- *Advantageous*: Over twenty-five (25) combined assets
- *Not Advantageous*: Over ten (10) combined assets
- *Unacceptable*: Less than ten (10) combined assets

Category 3: Capability of Firm to Deliver

1. Experience of project Supervisor and Staff on projects similar in size and value.
    - *Highly Advantageous*: Supervisor has over 25 years' experience in similar projects and experience to perform greater than 90% of required tasks based on size and value of the project.
    - *Advantageous*: Supervisor has over 15 years' experience in similar projects and experience to perform greater than 75% of required tasks based on size and value of the project.
    - *Not Advantageous*: Supervisor has over 5 years' experience in similar projects and experience to perform greater than 50% of required tasks based on size and value of the project.
    - *Unacceptable:* Supervisor has less than 5 years' experience on similar projects of size and value.
2. In-House employed NACE inspection personnel
    - *Highly Advantageous*: Greater than 35 independent NACE certified inspectors.
    - *Advantageous*: Greater than 25 independent NACE certified inspectors.
    - *Not Advantageous*: Less than 10 independent NACE certified inspectors.
    - *Unacceptable*: No NACE certified inspectors.
3. In-House and subcontractor paint crew availability
    - *Highly Advantageous*: Greater than 50 internal and 25 subcontract crews.
    - *Advantageous*: Greater than 15 internal and 10 subcontract crews.
    - *Not Advantageous*: Greater than 5 internal and 5 subcontract crews.
    - *Unacceptable*: Less than 5 internal crews and 5 subcontract crews.
4. Percentage of work capable of completion by in-house personnel.
    - *Highly Advantageous*: 100% of work can be completed by in-house crews.
    - *Advantageous*: Greater than 60% of work can be completed by in-house crews.
    - *Not Advantageous*: Greater than 40% of work can be completed by in-house crews.
    - *Unacceptable*: Less than 40% completed by in-house capability.
5. Specialty Training of Crews
    - *Highly Advantageous*: Crew workers have completed both SSPC Coating Application Specialist Certification (CAS) and SSPC-C5 Lead Supervisor Certification.

- *Advantageous*: Crew workers have completed SSPC Coating Application Specialist Certification (CAS) but not SSPC-C5 Lead Supervisor Certification.
- *Not Advantageous*: Crew workers have not completed either SSPC Coating Application Specialist Certification (CAS) or SSPC-C5 Lead Supervisor Certification.
- *Unacceptable*: Did not respond to this request.

6. Single Source Responsibility and Delivery
    - *Highly Advantageous*: One firm will provide management and delivery of all services and requirements as outlined in the RFP.
    - *Advantageous*: A consortium is being proposed and all information as requested for each firm has been provided to include a legal partnership between firms for the full duration of project, each firm's capability, experience, references and proposal demonstrates the ability of the company to successfully fulfill the requirements outlined in this RFP.
    - *Not Advantageous*: The consortium and proposal does not demonstrate the ability to successfully fulfill the requirements outlined in this RFP.
    - *Unacceptable*: The requested information is not provided.
7. Emergency Response Capabilities
    - *Highly Advantageous*: Ability to respond to emergencies within 24 hours.
    - *Advantageous*: Ability to respond to emergencies within 48 hours.
    - *Not Advantageous:* Ability to respond to emergencies within 72 hours.
    - *Unacceptable*: No emergency response capabilities.
8. Scope of Work and Maintenance Schedule. Provided detailed schedule with 1. Service timeline, 2. Start and completion dates, 3. Annual inspections, 4. Renovations and maintenance.
    - *Highly Advantageous*: All four (4) areas addressed in easy to understand timeline and meets delivery expectations. Provided exact scope of work requested.
    - *Advantageous*: Only three (3) areas addressed in easy to understand timeline and meets delivery expectations. Provided exact scope of work requested.
    - *Not Advantageous*: Only 1-3 areas addressed in timeline but does not meet delivery expectations. Did not provide exact scope of work requested.
    - *Unacceptable*: Schedule and timeline not provided.

Category 4: Experience with Similar Projects

1. Experience in National, Regional and Local Projects
    - *Highly Advantageous*: Greater than 500 National, 20 Regional and has worked with municipality in previous 3 years.
    - *Advantageous*: Greater than 25 National, 10 regional and has worked with municipality in previous 3 years.

- *Not Advantageous*: Less than 25 National and 5 regional but has not worked with municipality.
- *Unacceptable*: Does not have any projects regionally or locally.

2. Quality of References
    - *Highly Advantageous*: Reference requirements met, and references indicate firm exceeded expectations and services were beneficial.
    - *Advantageous*: Reference requirements met, and references indicate firm was responsive and met basic project requirements.
    - *Not Advantageous*: Less than 5 references provided and indicated that contractor did not meet requirements, was difficult to work with or failed to meet expectations.
    - *Unacceptable*: No references provided.

Category 5: Quality and Safety

1. Quality Management Systems and Certification
    - *Highly Advantageous*: Provided quality management practices and is ISO 9001 certified for the seven quality management principles.
    - *Advantageous*: Provided quality management practices and is in process of ISO certification with expected completion within 1 year.
    - *Not Advantageous*: Provided quality management practices but is currently not in the process of ISO certification.
    - *Unacceptable*: Did not meet criteria.
2. Safety Plan and Experience Modification Factor (EMR)
    - *Highly Advantageous*: Plan provided and EMR rating below 1.0.
    - *Advantageous*: Plan provided and EMR rating at 1.0.
    - *Not Advantageous*: Plan provided and EMR rating greater than 1.0
    - *Unacceptable*: Plan and/or EMR rating not provided

Category 6: Completion of Other Required Documentation

1. Completion of required documents.
    - *Highly Advantageous*: Completed all required documents with signatures and offered additional supporting documentation to support quality and safety.
    - *Advantageous*: Provided five (5) completed and signed documents.
    - *Not Advantageous*: Provided three (3) or less completed and signed documents.
    - *Unacceptable*: Did not provide required documents.

The Foxborough Department of Public Works, Water & Sewer Division shall award the contract to the most advantageous proposal from a responsible and responsive offeror taking into consideration price and the evaluation criteria set forth in this RFP; provided, however, that such proposal shall be in full compliance with all applicable requirements of federal, state and local laws, including section 26 to 27H, inclusive, of chapter 149.

CERTIFICATE OF NON-COLLUSION

The undersigned certifies under penalties of perjury that this Proposal has been made and submitted in good faith and without collusion or fraud with any other person. As used in this certification, the word "person" shall mean any natural person, business, partnership, corporation, union, committee, club, or other organization, entity or group of individuals.

_____

Print or Type Name and Title of individual submitting proposal

_____

Signature of individual submitting proposal

_____

Name of Business

_____

Date

TAX COMPLIANCE CERTIFICATION

Pursuant to M.G.L. c. 62C, Section 49A, the undersigned hereby certifies under pains and penalties of perjury that, to the best of his or her knowledge, _____ has complied with all laws of the Commonwealth relating to taxes, reporting of employees and contractors, and withholding and remitting child support.

_____
Signature of individual submitting proposal

_____
Name of Business

_____
Federal Tax Identification Number

_____
Date

BIDDER'S CERTIFICATION REGARDING PAYMENT OF PREVAILING WAGES FORM

The undersigned Bidder hereby certifies, under the pains and penalties of perjury, that the foregoing bid is based upon the payment to laborers to be employed on the project of the wages in an amount no less than the applicable prevailing wage rates established for the project by the *Massachusetts Department of Labor and Industries.*

The undersigned Bidder agrees to indemnify the awarding authority for, from and against any loss, expense, damages, actions or claims, including any expense incurred in connection with any delay or stoppage of the project work, arising out of or as a result of:

1. The failure of the said bid to be based upon the payment of the said applicable prevailing wage rates or

2. The Failure of the bidder, if selected as the contractor, to pay laborers employed on the project the said applicable prevailing wage rates.

_____

Print or Type Name and Title of individual submitting proposal

_____

Signature of individual submitting proposal

_____

Name of Business

_____

Date

LABOR HARMONY AND OSHA TRAINING CERTIFICATION

The undersigned certifies under penalties of perjury:

(1) that he can furnish labor that can work in harmony with all other elements of labor employed or to be employed in the work;

(2) that all employees to be employed at the worksite will have completed a course in construction safety, and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in the documentation of successful completion of said course with the first certified payroll report for each employee; and

(3) that all employees to be employed in work subject to this bid have completed a course in construction safety and health approved by the United States Occupational Safety and Health Administration that is at least 10 hours in duration.

_____

Print or Type Name and Title of individual submitting proposal

_____

Signature of individual submitting proposal

_____

Name of Business

_____

Date

Advanced Solutions
Scott Kelley
Water System Consultant
603-724-8226
Scott.Kelley@SUEZ.com

Barracuda Tank
1,000,000 gallon Composite Tank
Condition Assessment Report

Foxborough, MA

Prepared By:
Richard Pena
North East Inspector
NACE Level III Cert #62116
Richard.Pena@SUEZ.com

Assessment Performed 11/15/2019

TANK DATA

TANK NAME:	Barracuda Tank				
TANK DESIGN:	Composite	**CONSTRUCTION TYPE:**		Welded Steel & Concrete	
LOCATION:	2 Patriot Place				
	CITY:	Foxborough		**STATE:**	MA
CAPACITY:	1,000,000 gallon	**HEIGHT:**	172' HWL	**DIAMETER:**	NR
BUILDER:	Caldwell Tanks	**YEAR:**	2001	**CONTRACT #**	E-4914
EXT. COATING:	Acrylic Polyurethane	**LEAD:**	<4 mg/kg	**CHROMIUM:**	<4 mg/kg
INT. COATING: **DRY INT:**	Epoxy Epoxy	**LEAD:**	93 mg/kg 11 mg/kg	**CHROMIUM:**	320 mg/kg 310 mg/kg
INSPECTOR(S):	Richard Pena		**DATE:**	11/15/2019	

SUMMARY

SUEZ –Advanced Solutions (SUEZ-AS) conducted a visual inspection of the Barracuda Tank. The purpose of the inspection was to determine the condition of the coatings and structure, and to evaluate the tank for compliance with current sanitation guidelines, safety and security regulations, and guidelines in accordance with AWWA, OSHA, related state and federal agencies. The information contained herein is as accurate as could be obtained by SUEZ-AS personnel at the time of the inspection.

EXTERIOR COATING RECOMMENDATIONS

The exterior coatings along the bowl & roof are showing some fading & chalking. There are several small isolated spots of corrosion along the bottom of the bowl & general corrosion along the steel to concrete interface. There are some small isolated spots of coating delamination to the prime coat and substrate on the roof. The roof vent & bolted ventilation access hatch has more extensive corrosion present. Due to the age of the existing coatings along with less than fair adhesion it is recommended that the exterior be blast cleaned and recoated for best and lasting results.

The full exterior renovation should consist of abrasive blast cleaning all surfaces to an SSPC-SP6 commercial blast cleanliness followed by the application of a zinc/epoxy/acrylic polyurethane coating system.

The composite/concrete base appears to be in good overall condition. There were a few small spots of rust bleed showing from the dry area vents or small pieces of rebar at the surface. No spalling was noted. No recommendations at this time for maintenance of this part of the tank.

INTERIOR COATING RECOMMENDATIONS

The interior roof plates and rafters have large areas of coating delamination to the substrate with the coating falling into the water in pieces up to 1' diameter. Looks as though it is caused by the mil scale not removed when it was built. The rigging rings in the roof are showing moderate corrosion with little steel loss at this point however, the loss of steel will continue to accelerate as it isn't protected anymore by the coatings. Everything from the high water level down has extensive staining, the condition of the coatings and steel could not be determined due to this. Based off of the age of this coating system and current condition, a full interior renovation is recommended to restore the sanitary condition and protection of the substrate/structure.

The interior rehabilitation should consist of abrasive blasting all surfaces to an SSPC-SP10 near white metal blast cleanliness followed by the application of a zinc rich urethane primer before the formation of rust bloom. All weld seams, bolts, apparatus and edges should be strip coated with brush and roller using a high solids low VOC epoxy coating. Apply a full coat 100% solids epoxy to all surfaces of the interior including the roof structure.

Any welding repairs should be prepared in the same manner as listed above and coated with same coating system.

STRUCTURAL RECOMMENDATIONS

A hairline crack appox. 7' long just above the 1 man door was noted & photographed in previous years. There doesn't appear to be any differential movement at this time. This crack should be inspected for movement at each inspection moving forward. No repairs are recommended at this point to this crack.

Ice was found at the overflow discharge, this lead to investigation which concluded that the mud valve leading to the overflow piping was leaking causing unnecessary discharge and subsequent ice. The mud valve is recommended to be replaced at the earliest convenience.

SANITARY RECOMMENDATIONS

Disassemble the current mild steel vacuum pallet roof vent. Abrasive blast all components of the vent. Apply 2 full coats of epoxy to all internal surfaces of the vent. The screen ring should be disassembled, prepped and coated in the same manner with a new 24 mesh per inch stainless screen to be installed before reassembling.

Replace the flanged screen termination on the 13" OD stainless overflow pipe with a screen/flapper combo valve with a 24 mesh per inch stainless steel screen installed to meet current EPA requirements.

Due to the amount of staining present, the tank interior should be drained and chemically cleaned on a regular basis to remove staining a reduce biofilm buildup on the walls to ensure the highest quality of water.

The sediment should also be cleaned out on a regular basis to ensure the highest quality of water. This can be done robotically biannually so the tank doesn't have to be drained.

SAFETY & SECURITY RECOMMENDATIONS

Recommend replacing 2 access ladder safety climbs in the dry interior with a flexible cable type system. Remove & discontinue the notched rail safety climb in the water chamber, due to corrosion at the connections it is recommended that portable retractable “yoyo” type cables are used during inspections & renovations.

There are bolts in each of the 4 roof access hatches. Padlocks should be installed to comply with Homeland Security’s recommendations.

The hatch leading onto the roof in the dry tube is secured with a padlock however, the hatch can be shifted to the side and opened without opening the lock. Recommend modifying the hasp to prevent this.

WATER STORAGE TANK CONDITION ASSESSMENT REPORT

Advanced Solutions
Richard Pena
North East Inspector
NACE Level III Cert #62116
Richard.Pena@SUEZ.com

Date: 11/15/19	**Project:**	**Task:**	
Tank Name: Barracuda Tank			
Address: 2 Patriot Place	**City:** Foxborough	**State:** MA	
County: Norfolk	**Lat:** 42.0894	**Long:** -71.2677	

Capacity: 1,000,000 **gallons**	**Tank Type:** Composite	**Construction:** Welded Steel		**Tank ID Plate:** Yes
HWL: 172'	**LWL:** 137'	**Diameter:** NR	**Yr Built:** 2001	**By:** Caldwell Tanks	**Contract:** E-4914
Exterior Last Painted: NR	**Exterior Color:** White	**Interior Last Painted:** 2001		**Interior Color:** White

Exterior Roof Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Roof / Upper Ball Coating	Coating visual assessment? (G/F/P)	Fair	**Coating Type:** Acrylic Polyurethane **DFT:** 12.6
	Actionable checking / delamination?	Yes	The roof coatings are in fair overall condition. Fading and chalking present. Some small isolated spots of coating delamination to the prime coat and substrate.
	Actionable corrosion / deterioration?	No	
	Is there any graffiti paint or etchings?	No	
	Coating adhesion assessment? (G/F/P)	Fair	
	Does soiling impact visual appearance?	No	
	Will antenna equipment impact recoat?	No	
Roof / Upper Ball Structure	Structural visual assessment? (G/F/P)	Good	The roof structure appeared to be in sound condition.
	Are all plate seams sealed?	Yes	
	Significant pitting or metal loss visible?	No	
	Rigging holes / access ports sealed?	Yes	
	Other unsealed penetrations present?	No	
	Is the upper ball surface watertight?	Yes	
Roof Vent	Design meets state standards?	Yes	**Finial Stub OD:** 24"
	Screen intact?	Yes	The roof vent is functional with an intact screen. There is a considerable amount of corrosion along the interior surfaces of the vent. The screen ring is showing some steel loss, as long as it is prepped and coated soon it shouldn't require replacement.
	Vacuum pallet functional?	Yes	
	Unsealed penetrations present?	No	
	Is weatherhead to roof junction sealed?	Yes	
Roof Access	At least two hatches to WC present?	Yes	There are 4 30" roof hatches leading to the water chamber, 3 outer perimeter, 1 at the center. All hatches are in good condition with aluminum lids installed. The hatches are all secured shut with a bolt and nut, padlocks should be installed. There is also a 24" bolted type roof ventilation hatch that has widespread corrosion along the surfaces, there is no gasket installed between the lid & flange, the bolts are not drawn down tight leaving a gap around this lid to the water chamber. The primary hatch bolt was replaced with a SUEZ lock.
	Primary meets state standards?	Yes	
	Additional meet state standards?	Yes	
	All roof access points secured?	No	
	Antenna equipment affects roof entry?	No	
Roof Safety	Is there a guardrail system present?	No	There are no roof safety systems or guardrails in place
	Required fall arrest system present?	No	
	Are the roof FAA lights operational?	No	

Exterior Shell / Ball & Pedestal Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Shell / Ball Coating	Coating visual assessment? (G/F/P)	Fair	**Coating Type:** NR **DFT:** NR
	Actionable checking / delamination?	No	The shell coatings have been overcoated to change the logo. The bowl coatings are beginning to fade and chalk. There are several small general corrosion spots along the shell to roof transition as well as along the bowl especially towards the bottom. The bowl to concrete transition has corrosion present all along the circumference.
	Actionable corrosion / deterioration?	Yes	
	Logo visual assessment? (G/F/P)	Good	
	Transition cone coating condition? (G/F/P)	Poor	
	Does soiling impact visual appearance?	No	
	Will antenna equipment impact recoat?	No	

Shell / Ball Structure	Structural visual assessment? (G/F/P)	Good	The shell and ball structure appeared to be in good overall condition at the time of the inspection.
	Are all plate seams sealed?	Yes	
	Significant pitting or metal loss visible?	No	
	Unsealed penetrations present?	No	
	Any active leakage observed?	No	
	Painter's angle or rigging rail present?	No	
Pedestal Coating	Pedestal coating assessment? (G/F/P)	NA	**Coating Type:** N/A **DFT:** 9.6 access tube The column of the tank is uncoated concrete. The concrete surfaces appeared to be in good condition overall. There were a few small areas of rust bleed staining visible.
	Coating adhesion assessment? (G/F/P)	NA	
	Actionable checking / delamination?	NA	
	Actionable corrosion / deterioration?	NA	
Pedestal Structure	Structural visual assessment? (G/F/P)	Good	There is one estimated 7' long hairline crack just above the man door towards the bottom that was reported in previous years. Doesn't appear to be any differential movement along this crack at this time.
	Significant pitting or metal loss visible?	NA	
	Unsealed penetrations present?	No	
	Painter's angle or rigging rail present?	Yes	
Pedestal Access	Painter's manhole secured?	Yes	The pedestal access was secured upon arrival and departure. The main door appears to have been repaired since past visits.
	Pedestal personnel door locked?	Yes	
	Pedestal overhead door locked?	Yes	
	Column vents are screened?	Yes	
	Antenna equipment affects tank security?	No	
Pedestal Foundation	Structural visual assessment? (G/F/P)	Good	The concrete column goes directly into the ground with the actual foundation bottom underground.
	Exterior anchor bolts in sound condition?	NA	
	Grout or sealer in sound condition?	NA	
	Does grade promote good drainage?	Yes	
	Failure or undermining of foundation?	No	
Overflow	Extends to near ground level?	Yes	**Pipe OD:** 13" The overflow weir box has some corrosion at the pipe connection in the water chamber. There is moderate corrosion present at the bolt flange just below the bowl. The overflow terminates over a concrete splash pad with a flanged screen. The flange has corrosion present. The screen is a wide meshed stainless steel screen, EPA requires a 24 mesh per inch screen installed. In a recent inspection a faulty mud valve was found to be leaking into the overflow causing discharge and ice during the colder months.
	External weir box sealed / secured?	NA	
	Actionable corrosion / deterioration?	Yes	
	Unsealed penetrations present?	No	
	Required air gap present?	Yes	
	Screen is intact or was replaced?	Yes	
	Flapper is functional or was replaced?	NA	
	Drain, spillway or rip-rap present?	Yes	

Interior Roof / Upper Ball Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Roof / Upper Ball Coating	Coating visual assessment? (G/F/P)	Poor	**Coating Type:** Epoxy **DFT:** 12.0 There is widespread coating delamination to the substrate along the roof plates and rafters. It appears as though there is mil scale still on the steel which could be the cause of this. The rigging rings along the ceiling are showing moderate corrosion with some mild steel loss visible.
	Actionable blistering / delamination?	Yes	
	Actionable corrosion / deterioration?	Yes	
	Coating adhesion assessment? (G/F/P)	NR	
	Rafter visual assessment? (G/F/P)	Poor	
	Roof to shell junction? (G/F/P)	Fair	
Roof / Upper Ball Structure	Structural visual assessment? (G/F/P)	Good	The roof structure appears to be in good condition from what was visible during this in service inspection.
	Are all plate seams sealed?	Yes	
	Significant metal loss on plates visible?	No	
	Significant metal loss on rafters visible?	No	
	Roof to access tube connection sound?	Yes	
	Light leaks visible from the interior?	No	

Interior Shell / Ball Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Shell / Ball Coating	Coating visual assessment? (G/F/P)	NR	**Coating Type:** NR **DFT:** NR The shell, bowl & wet side riser were not inspected due to the amount of staining present & the tank was in service at the time of the inspection.
	Actionable blistering / delamination?	NR	
	Actionable corrosion / deterioration?	NR	
	Wet side access tube coating? (G/F/P)	NR	
	Coating adhesion assessment? (G/F/P)	NR	
Shell / Ball Structure	Structural visual assessment? (G/F/P)	NR	The shell, bowl & wet side riser structural aspects were not inspected as this was an in service visual inspection.
	Wet side access tube structurally sound?	NR	
	Significant pitting or metal loss visible?	NR	
	Cone plate condition assessment? (G/F/P)	NR	
	Stiffener / annular ring in sound condition?	NR	
Shell / Ball Safety	Is a ladder present in the water chamber?	Yes	**Safety Climb Type:** Notched Rail There is a ladder attached to the access tube. The rungs have some mild corrosion present across them, the ladder appears to be structurally sound from what is visible.
	Required safety climb system present?	Yes	
	Internal balcony or platform present?	No	
	Actionable corrosion / deterioration?	Yes	
Water Quality	Overflow extension in sound condition?	Yes	The water turbidity water quality could not be assessed due to the amount of staining along the sidewalls, the floor is not visible.
	Water quality visually acceptable?	Yes	
	Significant staining or biofilm present?	Yes	
	Significant floor sediment present?	NR	
	Is there a mixing system present?	No	
	Is there a cathodics system present?	NR	

Interior Pedestal Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Access Tube	Coating visual assessment? (G/F/P)	Fair	The access tube coatings overall are in fair condition. There is some corrosion along the ladder stand off connections & erection lugs, general corrosion of a light degree can be found within the lower tube from degradation.
	Actionable delamination or corrosion?	No	
	Dry side access tube structurally sound?	Yes	
	Internal stiffener rings in sound condition?	NA	
Access Tube Safety	Drywell ladder coating condition? (G/F/P)	Fair	**Safety Climb Type:** Notched Rail There is a conduit that is attached to the siderails of the ladder which is against OSHA regulations, this should be moved to the ladder standoffs or separate clips so as not to block hand access around the siderail during climbing. Some corrosion at the stand off welds to the access tube.
	Required safety climb system present?	Yes	
	Do antenna cables affect safe climbing?	No	
	Any leakage from the bowl manhole?	No	
Pedestal Shaft	Coating visual assessment? (G/F/P)	NA	**Coating Type:** N/A **DFT:** N/A The pedestal shaft is uncoated concrete. The column appears to be in good condition overall. The inlet pipe & overflow pipe are both stainless steel.
	Actionable checking / delamination?	NA	
	Actionable corrosion / deterioration?	NA	
	Structural visual assessment? (G/F/P)	Good	
	Shaft supports / bracing in good condition?	NA	
	Condensate deck condition? (G/F/P)	NA	
	Upper level platform structurally sound?	Yes	
	Interior overflow pipe visually acceptable?	Yes	
	Is any leakage of the fill line evident?	No	

Pedestal Safety	Pedestal ladder coating condition? (G/F/P)	Good	**Safety Climb Type:** Notched Rail There are several light bulbs not working in the dry interior, could be just the bulbs need replaced. There is a drop ceiling installed just above the bottom with insulation laying on top. During a rehab special care would have to be taken so this doesn't get damaged.
	Required safety climb system present?	Yes	
	Pedestal ladder(s) equipped with a cage?	No	
	Platforms equipped with safety rails?	NA	
	Actionable corrosion / deterioration?	No	
	Lighting functional inside pedestal?	No	
Pedestal Foundation	Interior anchor bolts in sound condition?	NA	The foundation is below grade. The composite column down to grade appears to be in good condition overall. Only the hairline crack mentioned above the man door was found.
	Interior base plate condition? (G/F/P)	NA	
	Interior pedestal floor condition? (G/F/P)	Good	
	Is the pedestal floor open & accessible?	Yes	

Site Conditions: All questions are Yes / No / NA / NR unless listed (G/F/P) for Good / Fair / Poor / NA / NR

Tank Area	Item of Concern	Status	Comments
Site	Is site equipped with a security fence?	Yes	The tank sits on an elevated mound with a small circular security fence that follows the drip edge of the tank. Equipment for a rehab would have to be staged outside the fence which shouldn't be a problem except will not be secured. The pro football stadium is next to the tank with a large parking lot between them. Hotels and restaurants on the other sides of the tank.
	Any signs of damage to the fence?	No	
	Are fence gates secured with locks?	Yes	
	Is a vault or pump house present?	Yes	
	Sample tap onsite?	Yes	
	Is there telemetry / SCADA onsite?	Yes	
	Is there non-tank pooling water onsite?	No	
	Is there electrical service onsite?	Yes	
	Are there power lines near the tank?	No	
	Is there a non-tank water source onsite?	Yes	
	Is the tank located in a coastal area?	No	
	Site utility during tank rehab (G/F/P)	Fair	

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Overview of the Barracuda Tank.

Data tag found on column.


Overview of vent.


Intact wide mesh screen suffering from corrosion.


Stratification taking place near the center of vent.


Vent stub is weld sealed to roof.

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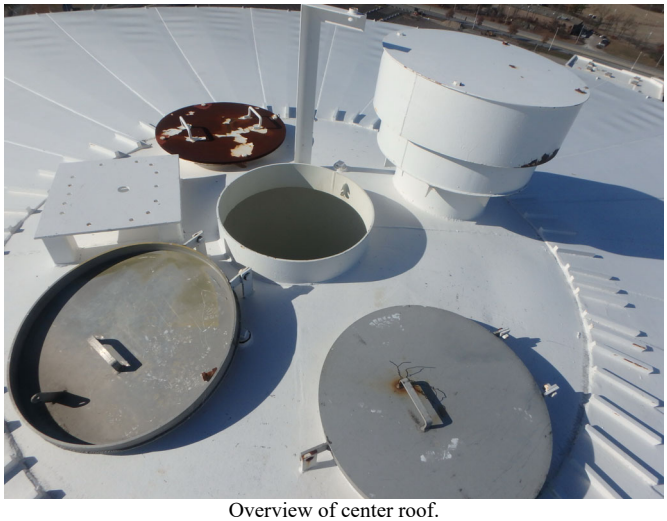
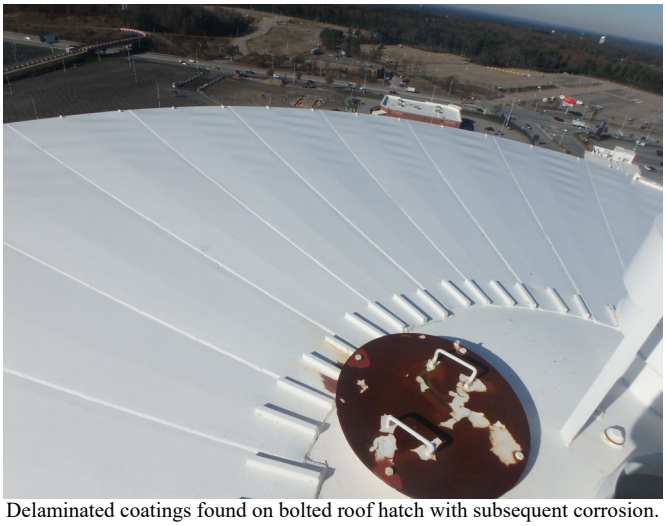


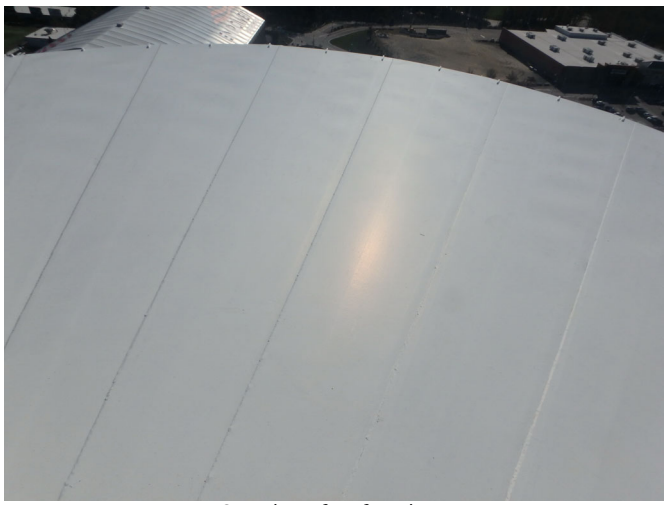
Overview of center roof.



Delaminated coatings found on bolted roof hatch with subsequent corrosion.

Bolt securing hatch was replaced with SUEZ lock.

Secondary roof hatch secured using nut and bolt assembly.



Overview of roof coatings.

Overview of shell and cone coatings.

Foxborough, MA Barracuda Tank 11.15.19

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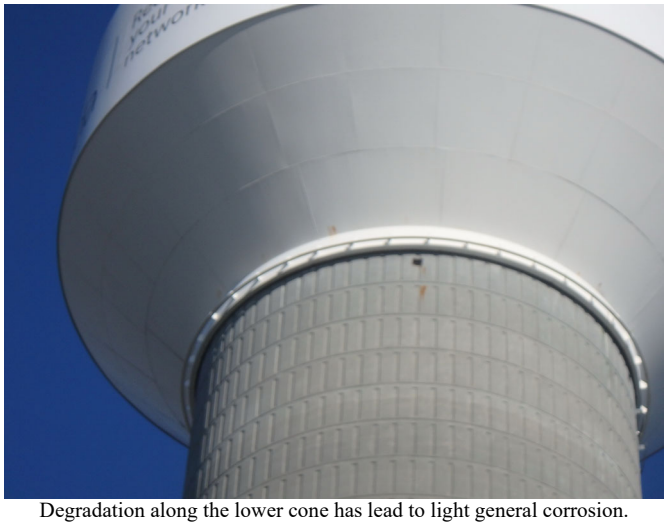


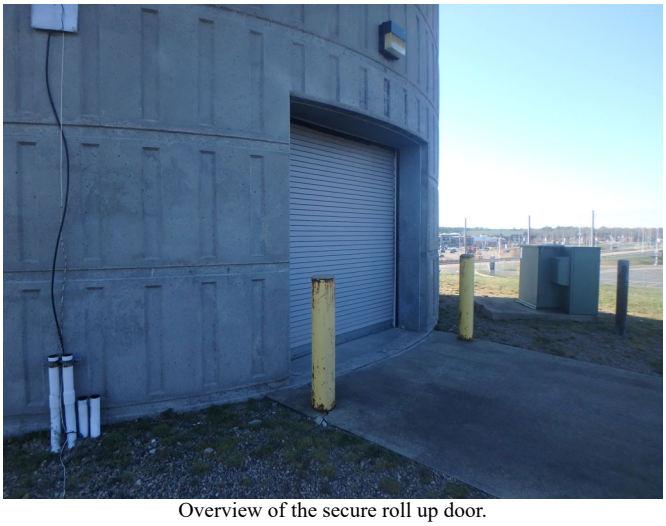
Degradation along the lower cone has lead to light general corrosion.

Overview of tank structure.

Sound composite column.

Concrete column is observed in generally sound overall condition.

One of the two access doors found at the base.



Overview of the secure roll up door.

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Overview of overflow which is observed to have had some discharge.

Intact fine mesh screening however found with ice build up.

Cables found at grade rather then underground.

Antenna cables leading to column.

Delamination and stratification found on the interior painters ring.

Spent abrasive found on lip along with holidays on the backside of ladder rungs.

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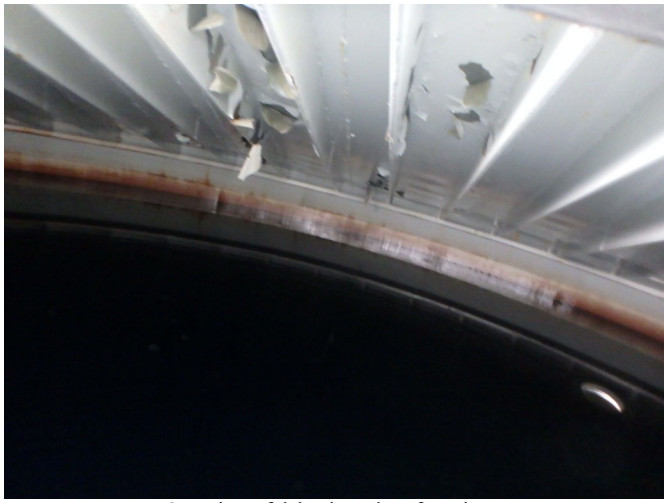
Overview of wet side access tube and overflow funnel.

A moderate amount of delamination is found on the interior roof.

Moderate staining and general corrosion found along shell at the water level.

Water turbidity is viewed to be high with no visibility below.



Overview of delaminated roof coatings.

Dry side access tube showing light general corrosion from degraded coatings.

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Overview of platform leading to access tube.

Ladder and bowl manway found within column.

Interior view of concrete column.

Sound interior concrete column structure.

Overflow piping penetration through the upper concrete column.

Mud valve found affixed to the overflow piping.

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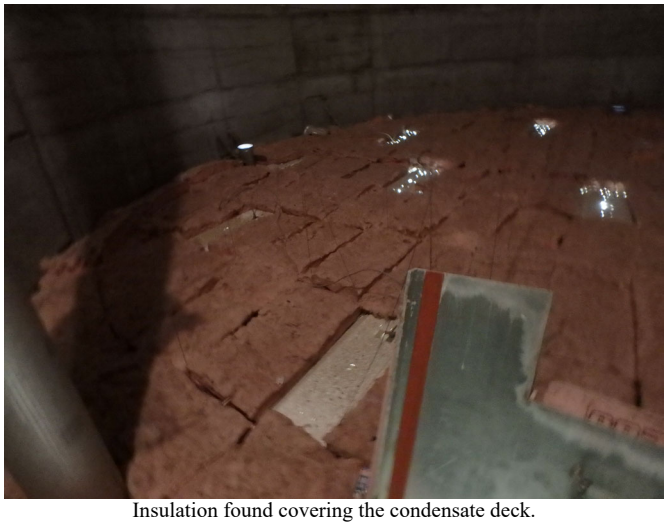
Overview of the inlet/outlet as well as the overflow piping.

Overview of column ladder equipped with a sound notched rail.

Burnt out bulbs found within the column.

Sound ladder rest platform found at the column ladder.



Insulation found covering the condensate deck.

Column door lock was replaced with a SUEZ lock.

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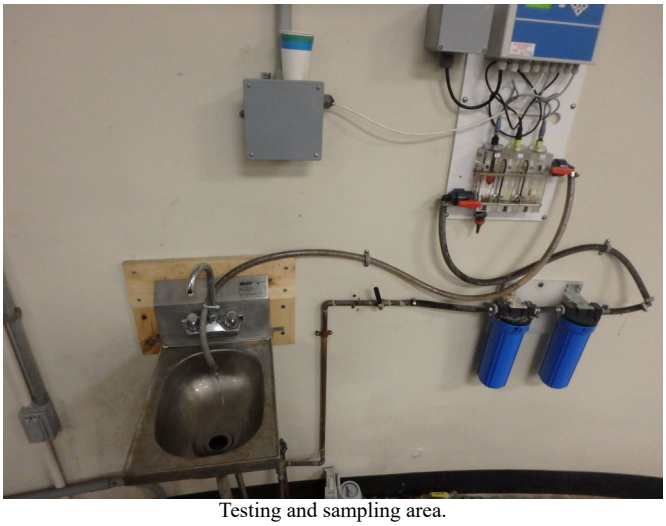
Overview of column base.



Testing and sampling area.

Overview of interior.

Miscellaneous electrical panels and equipment.

Overview of the perimeter fencing.

Sound fencing found around the tank site.

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Secure and functional entry gates found on site.