

4000 Knights Trail Rd.
Nokomis, FL 34275

941-861-5000
scgov.net

February 7, 2019

Solid Waste Section
Department of Environmental Protection
South District Office
2295 Victoria Avenue, Suite 364
Ft. Myers, Florida 33902

Re: Sarasota County
Central County Solid Waste Disposal Complex
Permit No. 0130542-028-SO-IM)
WACS No. 51614
Above-Ground Leachate Storage Tank Inspection

To Whom It May Concern:

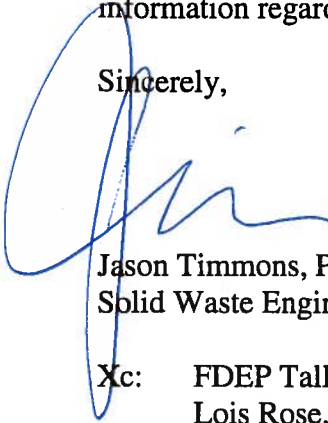
Sarasota County is pleased to submit the attached storage tank inspection report for the 1.8-million-gallon capacity pre-stressed concrete leachate storage tank located at the Central County Solid Waste Disposal Complex in Nokomis, FL. The inspection was performed in accordance with Permit No. 130542-028-SO-IM and Operations Plan Section K.8.b.(4). Starting on January 21, 2019, In-Depth Services, Inc. emptied and cleaned the storage tank. Upon completion of the tank cleaning on January 23, 2019, the inspection was performed in accordance with the applicable standards. The inspection was supervised by and the report signed and sealed by a Professional Engineer licensed in the State of Florida. As detailed in the inspection report, the inspector found the tank to be in good structural condition, with no signs of leakage or structural issues with the tank walls and floors. All appurtenances including external stairs, piping, and the level gauge were found in good condition and operational. At the conclusion of the inspection, the inspector released the County to continue operation of the storage tank since no items were found that compromised the integrity and operation of the tank. The recommendations provided by the inspector in the report include replacement of interior pipe that is corroded as well as repairs to the walls and coatings for the interior and exterior walls of the primary and secondary tank systems. None of these items were urgent and were provided for future consideration by the County.

In accordance with the requirements of Rule 62-701, Permit No. 130542-028-SO-IM, and the facility's Operations Plan, the County will schedule the next inspection to be completed no later than April 15, 2022. In the next inspection, the items the inspector listed in the report to re-inspect will be specifically included in the inspection requirements.

Please note that the County continues to work on a construction project to address the repairs noted in the 2015 and 2019 inspection reports including replacement of the interior piping, recoating of the interior tank walls and floor joint, and sealing and coating of exterior wall cracks. The work is anticipated to be completed in Fall 2019 to Spring 2020 to coincide with the dry season.

Please contact me anytime at 941-861-1572 if you have any questions or require additional information regarding this inspection report and attached documents.

Sincerely,



Jason Timmons, PE
Solid Waste Engineer

Xc: FDEP Tallahassee Solid Waste
Lois Rose, Sarasota County

Attachments (1)

In Depth Services, Inc. Inspection Report signed and sealed on January 30, 2019

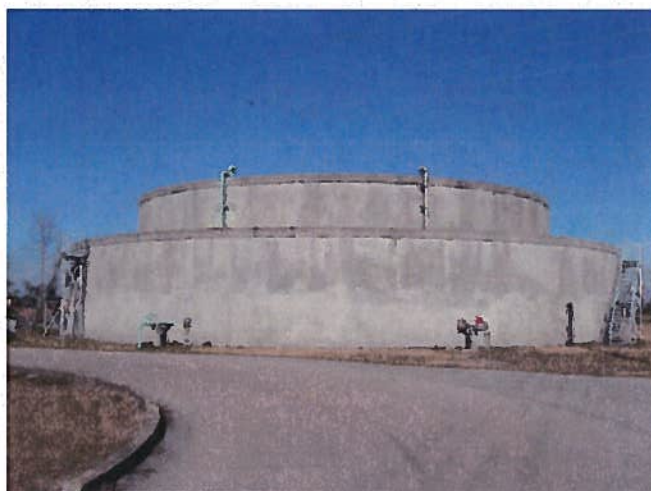


In Depth Inc.
800 Belle Terre Pkwy Unit 200 #122
Palm Coast, FL 32164
(386) 202-2771

In-Depth Inspection Report for

Sarasota County

Sarasota, FL



Lechate Storage Tank

100' x 30-8" / 130' x 21'-2"

1.8 MG / 2.1 MG

Concrete On-Grade

Constructed Date: 1997

Inspection Date: 1/21/19

Person Completing Report: Z.R.

Supervisor: Z.R.

Team: Alpha

Engineer: R.N.



Scope of Work:

Our team has performed and completed a full dewatered clean/sediment removal to the previously referenced tank. Sediment depths, ranging from **6" - 10"**, have been removed from the tanks floor and/or walls. Upon the completion of the cleaning services, our surveying crew and inspection team has taken this structure under full evaluation (internally & externally) to prepared an "In Depth" visual inspection (NDT) of this tank and its fixtures. The evaluation taken on the construction of this tank, complies with all related ANSI/AWWA codes. All NDT (non-destructive testing) have been performed up to code, in order to identify the structural integrity as well as the coating condition of this structure. All operable plumbing components have been inspected and evaluated within this report. All evaluations done, where performed in according to American Water Works Association (AWWA), NACE, SSPC, ASNT, ACI and AWS standards under the guidance of OSHA, DEP, and EPA regulations. Utilizing the necessary and proper procedures, the tank has been left in operable condition. Elements found prior to clean as well as details of the inspection and its findings have been included within the report below.

Summary of the Inspection:

Exterior Inspection:

1. Easy access to tank w/ secured gated perimeter
2. Primary storage tank equipped with outer containment tank
3. Opened roof tanks, exposed to the environment

Containment Tank Inspection:

1. Crossover plumbing components in good to excellent condition
2. Heavy - moderate staining noted throughout floor
3. Heavy signs of shrinkage / hairline cracking noted throughout inner & outer walls
4. Minor corrosive staining noted on walls in areas of exposed reinforcements

Interior Inspection:

1. 6 to 10 inches of sediment found throughout tank (Removed during clean)
2. Severe corrosion noted throughout all internal plumbing components below waterline
3. Heavy blistering noted on floor to wall seen (elastomeric urethane floor-wall boot)
4. Moderate checking, cracking, & pop outs noted throughout upper / lower walls
5. Heavy - moderate staining noted throughout all extremities of tank
6. Minor unevenness noted throughout tank floor (coating: good - excellent condition)

Recommendations:

1. Routine Clean & Inspect every 3 years per sludge accumulation / report findings
2. Replace severely corroded / de-alloying plumbing components (internal: inlet & outlet)
3. Pressure wash & re-coat containment tank (grout / repair areas as needed)
4. Consider replacement of elastomeric urethane floor-wall boot due to heavy blistering

Engineer Seal:

Robert J. Norton PE
FL Reg. No. 54750

This Item Has Been Electronically Signed And Sealed By:
ROBERT J. NORTON PE, FL REG. NO. 54750 Using A Digital
Signature And Date. Printed Copies Of This Document Are Not
Considered Signed And Sealed And All Signatures Must Be
Verified On Any Electronic Copies. THIS DOCUMENT DESIGN
CONCEPT, SPECIFICATION AND ASSOCIATED CONTRACT
DOCUMENTATION ARE THE PROPERTY OF ROBERT J. NORTON PE, AND MAY NOT
BE USED FOR ANY PURPOSE UNTIL FULL PAYMENT IS RECEIVED. THEY ARE
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AGREES NOT TO DISCLOSE THESE CONTENTS TO ANY OTHER PARTY, EXCEPT FOR
THE SPECIFIC PURPOSES FOR WHICH THIS SET WAS RELEASED. PAST DUE
INVOICES WILL BE CHARGED ON PAST DUE INVOICES AT THE MAXIMUM ALLOWED
BY THE STATE OF FLORIDA. MONTHLY ATTORNEY'S FEES WILL BE FULLY
REIMBURSED. IF LEGAL PROCEEDINGS ARE REQUIRED TO SECURE PAYMENT, ALL
WORK MUST BE COMPLETED BY LICENSED AND INSURED, TRADE APPROPRIATE
CONTRACTORS.



Digitally signed by Robert
Norton

Date: 2019.01.30 14:11:24
-05'00'

Key:

Excellent – Like new, no repairs needed
Good – Cosmetic problems, repair if client wants
Fair – Minor problems, repairs needed
Poor – Major problems, fix now

InDepth
SURVEYING LLC



Tank Evaluation

Tank Security

Is the tank in a secured, gated area? Y ☒ N ☐

Are the access gates locked? Y ☒ N ☐

Is the tank equipped with a vandal guard on the access ladder(s)? Y ☐ N ☒ N/A ☐

Is the vandal guard locked? Y ☐ N ☐ N/A ☒

Are all of the access hatches locked? Y ☒ N ☐

Are all of the vents/discharge openings properly covered? Y ☒ N ☐

Does the tank exterior show any signs of trespass? Y ☐ N ☒

Is the area surrounding the tank well lit? Y ☒ N ☐

Are there any additional security features? Y ☒ N ☐

Description: Guarded Facility

Additional Notes: On site of county landfill

Tank Condition

Does the tank appear to be structurally sound? Y ☒ N ☐

Are there any unprotected openings in the tank (breaches, leaks, daylight, etc.) Y ☒ N ☐

When viewed from inside the tank, is there visible daylight around the hatches, vents, joints or other fixtures? Y ☒ N ☐

Description: Opened roof tanks (fully exposed to the environment)

Tank Description:

This leachate storage tank was built and constructed by "Crom Corporation" in 1997.

Primary Tank: inside diameter of 100'-0" and a side wall height of 30'-8"

Containment Tank: inside diameter of 130'-0" and a side wall height of 21'-2"

Tank Cleaning

Sediment depth before cleaning: 6" - 10" Sediment type: Leachate Sludge

Additional Pictures



Wall Condition

Concrete / Coating Condition:

Signs of Leaking? Y ☐ N ☒
 Dents / Holes? Y ☐ N ☒ Type: None
☐ De-lamination: N/A
☐ Deterioration: N/A
☒ Pop-outs: Minor
☐ Voids: N/A
☐ Unevenness: N/A
☒ Cracking: Moderate Type: Hairline / Shrinkage
☐ Growth: N/A Type: None
☒ Staining: Minor Type: Mildew / Moisture
☐ Exposed Aggregate: N/A
☐ Exposed Reinforcement: N/A
☒ Spalling: Minor

Seams/Joints Condition: Excellent to Good

Corrosion:

☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Overall Condition: Excellent to Good

Additional Notes:

- Prestressed concrete walls (no coating)
- Minor spalling noted on upper walls near opening
- Mildew staining localized on upper walls
- Consistent ratings noted throughout



Access Stairway Condition

Ladder Type: Aluminum welded
 OSHA Adherence? Y ☐ N ☒
 Vandal Guard Present? Y ☐ N ☒
 Locked? Y ☐ N ☒ N/A ☒
 Safety Climb Type: Guided rail
 OSHA Adherence? Y ☐ N ☒

Coating Condition:

☐ Oxidation: N/A
☐ De-lamination: N/A
☒ Staining: Moderate Type: None
☐ Blistering: N/A
☐ Chalking: N/A
☐ Checking: N/A
☐ Cracking: N/A Type: None
☐ Pinholes: N/A
☐ Saggs/Runs: N/A

Seams/Welds Condition: Excellent

Corrosion:

☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Depth: N/A

Standoff Supports Condition: Excellent

Overall Condition: Excellent

Additional Notes:

- Equipped w/ multiple stairways and access ladders (3 Outer stairways & 2 Inner ladders)
- All shared equally ratings (no discrepancies)
- Moderate signs of mildew staining noted throughout
- Constructed of aluminum (no coating)



Foundation Condition

Foundation Exposed? Y ☐ N ☒

Concrete Condition:

- ☐ De-lamination: N/A
- ☐ Deterioration: N/A
- ☐ Pop-outs: N/A
- ☐ Voids: N/A
- ☐ Unevenness: N/A
- ☐ Cracking: N/A
- ☐ Growth: N/A
- ☐ Staining: N/A
- ☐ Exposed Aggregate: N/A
- ☐ Exposed Reinforcement: N/A
- ☐ Spalling: N/A

Type: None

Type: None

Type: None

Seams/Joints Condition: Excellent to Good

Anchor Bolts Present? Y ☐ N ☒

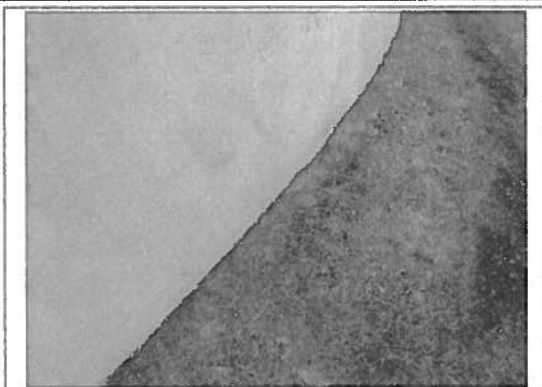
Anchor Bolts Loose? Y ☐ N ☒ N/A ☒

Corrosion on Anchor Bolts:

- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Overall Condition: Select the Overall Condition

Additional Notes: - Buried foundation (unable to fully evaluate)
- Backfilled approx. 12"



Float Level Indicator Condition

Pulley Condition: Excellent to Good

Attached Properly? Y ☒ N ☐

Cable Condition: Excellent to Good

Attached Properly? Y ☒ N ☐

Overall Hardware Condition: Excellent to Good

Hardware Corrosion:

- ☐ None: N/A
- ☒ Uniform Surface Corrosion: None, or < 0.01%
- ☒ Concentrated Cell Corrosion: Minute: < 0.03%
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Marker Condition: Excellent to Good

Attached & Accurate? Y ☒ N ☐

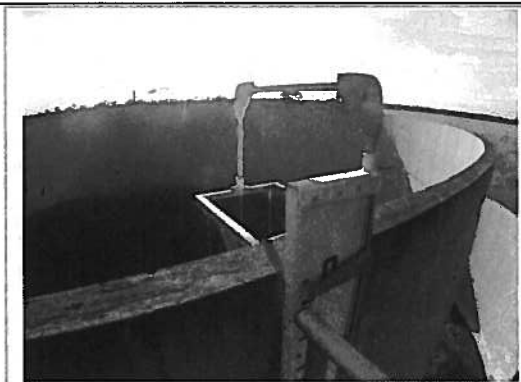
Marker Corrosion:

- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes: - Attached an accurate
- Minimal discrepancies to be noted
- Minor biological growth / staining noted



Manway #1 Condition

Coating Condition:

- ☐ Oxidation: N/A
- ☐ De-lamination: N/A
- ☒ Staining: Minor
- ☐ Blistering: N/A
- ☐ Chalking: N/A
- ☐ Checking: N/A
- ☐ Cracking: N/A
- ☐ Growth: N/A
- ☐ Pinholes: N/A
- ☐ Saggs/Runs: N/A

Type: Sediment

Type: None

Type: None

Seam/Welds Condition: Excellent to Good

Gasket Condition: Good

Location: 11:00

Corrosion:

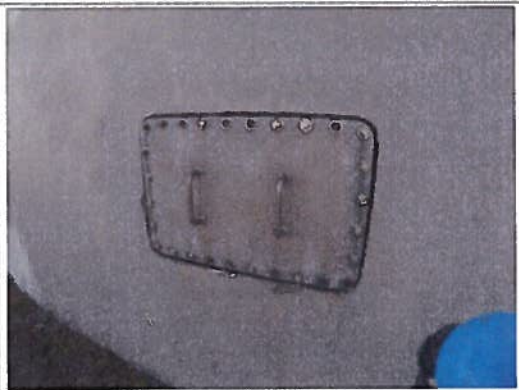
- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes:

- Outer manway ratings
- Consistent ratings throughout (26.5" x 16.5")
- Constructed of stainless steel
- Minimal discrepancies to be noted (no coating)
- Minor spalling noted around penetration



Manway #2 Condition

Coating Condition:

- ☐ Oxidation: N/A
- ☐ De-lamination: N/A
- ☒ Staining: Minor
- ☐ Blistering: N/A
- ☐ Chalking: N/A
- ☐ Checking: N/A
- ☐ Cracking: N/A
- ☐ Growth: N/A
- ☐ Pinholes: N/A
- ☐ Saggs/Runs: N/A

Type: Sediment

Type: None

Type: None

Seam/Welds Condition: Excellent to Good

Gasket Condition: Good

Location: 11:00

Corrosion:

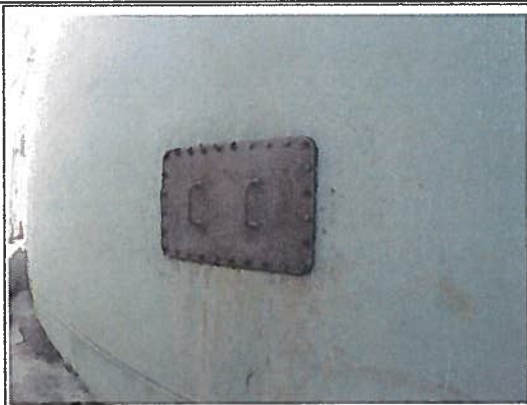
- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes:

- Inner manway ratings
- Consistent ratings throughout (26.5" x 16.5")
- Constructed of stainless steel
- Minimal discrepancies to be noted (no coating)



Containment Tank Inspection Report

Tank Floor & Wall Seam Condition

Concrete / Coating Condition:

- ☒ De-lamination: Minute: < 0.03%
☐ Deterioration: N/A
☐ Pop-outs: N/A
☐ Voids: N/A
☐ Unevenness: N/A
☒ Cracking: Moderate
☐ Growth: N/A
☒ Staining: Minor
☐ Exposed Aggregate: N/A
☐ Exposed Reinforcement: N/A
☐ Spalling: N/A

Type: Hairline / Shrinkage
 Type: None
 Type: Sediment

Seams/Joints Condition: Excellent to Good

Any irregularities or structural deficiencies? Y ☐ N ☒

Description: N/A

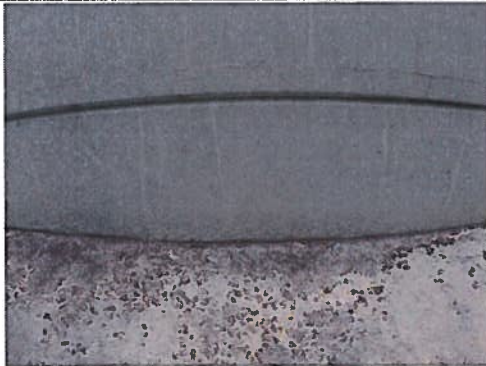
Corrosion:

- ☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes:
 - Inner & Outer wall seams share similar ratings
 - Minimal discrepancies to be noted
 - Consistent ratings noted throughout
 - No signs of leaking or seepage noted



Ladder Condition

Ladder Location: 12:00

Coating Condition:

- ☐ Oxidation: N/A
☐ De-lamination: N/A
☒ Staining: Minor
☐ Blistering: N/A
☐ Chalking: N/A
☐ Checking: N/A
☐ Cracking: N/A
☐ Growth: N/A
☐ Pinholes: N/A
☐ Saggs/Runs: N/A

Type: None

Type: None

Type: None

Seams/Welds Condition: Excellent

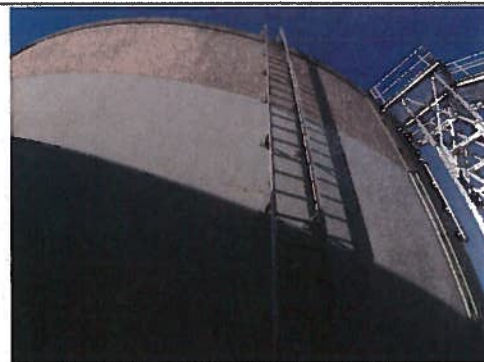
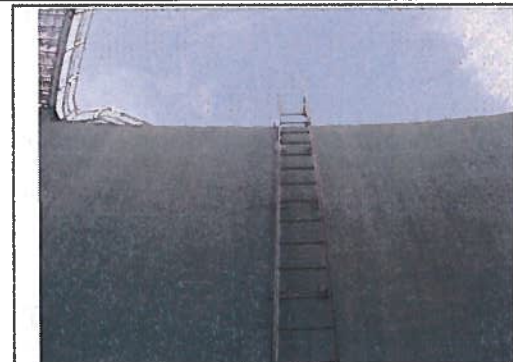
Corrosion:

- ☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent

Additional Notes:
 - Equipped w/ 2 ladders inside of containment tank
 - Both ladders share equal ratings (consistent)
 - Constructed of aluminum (no coating)
 - Guided rail safety climb



Containment Tank Wall Condition

Number of Walls: Two (2)

Concrete Condition:

- ☒ De-lamination: Minute: < 0.03%
☒ Deterioration: None, or < 0.01%
☒ Pop-outs: Minor
☐ Voids: N/A
☐ Unevenness: N/A
☒ Cracking: Heavy Type: Hairline / Shrinkage
☒ Growth: N/A Type: None
☒ Staining: Minor Type: Corrosive
☐ Exposed Aggregate: N/A
☒ Exposed Reinforcement: Minor

Seams/Joints Condition: Excellent to Good

Any irregularities or structural deficiencies? Y ☐ N ☒

Description: N/A

Corrosion:

- ☐ None: N/A
☒ Uniform Surface Corrosion: Extensive: < 1%
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A Depth: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☒ Stress Corrosion Cracking: Few Isolated: < 0.1%
☐ Erosion Corrosion: N/A

Overall Condition: Excellent to Good

- Additional Notes:
- Tank has 2 walls (inner & outer)
 - Walls share similar ratings
 - Inner wall only partially coated
 - Minor unlocalized areas of corrosion on inner wall
 - Consistent cracking noted throughout both walls



Containment Tank Floor Condition

Drain Location: 11:55

Coating Condition:

- ☐ Oxidation: N/A
☒ De-lamination: None, or < 0.01%
☒ Staining: Heavy Type: Mildew / Dirt / Bio
☐ Blistering: N/A
☒ Chalking: Minor
☒ Checking: Moderate
☒ Cracking: Minor Type: Hairline
☒ Growth: Minor Type: Biological
☐ Pinholes: N/A
☐ Saggs/Runs: N/A

Seams/Welds Condition: Excellent to Good

Is anything blocking the drain? Y ☐ N ☒

Description: N/A

Corrosion:

- ☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A Depth: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Overall Condition: Excellent to Good

- Additional Notes:
- Consistent ratings noted throughout
 - Crossover plumbing in good / excellent condition
 - Drain penetrates through sump in floor
 - Minor unevenness noted throughout concrete floor



Plumbing Condition

Coating Condition:

- ☒ Oxidation: Extensive: < 1%
☒ De-lamination: Few Isolated: < 0.3%
☒ Staining: Minor Type: Corrosive
☐ Blistering: N/A
☐ Chalking: N/A
☐ Checking: N/A
☐ Cracking: N/A Type: None
☐ Growth: N/A Type: None
☐ Pinholes: N/A
☒ Saggs/Runs: Minor
Corrosion:
☐ None: N/A
☒ Uniform Surface Corrosion: Extensive: < 1%
☒ Concentrated Cell Corrosion: Extensive: < 1%
☐ Rust Noduling/Pitting: N/A Depth: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☒ Erosion Corrosion: Extensive: < 1%

Seams/Welds Condition: Excellent to Good

Stand-off Supports Condition: Excellent to Good

Discharge Opening:

- End Cap Sealed Properly? Y ☐ N ☐ N/A ☐
 Duckbill Valve Sealed Properly? Y ☐ N ☐ N/A ☐
 Flapper Valve Sealed Properly? Y ☐ N ☐ N/A ☐
 Screen 24 Mesh? Y ☐ N ☐ If no, size: N/A
 Directly Connected to Sewer or Storm Drain? Y ☐ N ☐
 Any Obstructions of Water Flow? Y ☐ N ☐
 Height Above Ground for Discharge: N/A
 Is Discharge Spot Adequate? Y ☐ N ☐

Overall Condition: Excellent to Good

Additional Notes:

- All crossover plumbing in good / excellent condition
- Consistent ratings noted throughout
- High-fill inlet constructed on stainless steel
- All others coated & constructed of carbon steel
- No discharge location (fully contained)

Crossover Plumbing



High-fill Inlet Plumbing



Primary Inlet Crossover Plumbing



Drain / Outlet / Sump



Tank Wall Condition

Concrete / Coating Condition:

- ☒ De-lamination: To Extent of 3%
- ☒ Deterioration: Minute: < 0.03%
- ☒ Pop-outs: Minor
- ☐ Voids: N/A
- ☐ Unevenness: N/A
- ☒ Cracking: Moderate
- ☐ Growth: N/A
- ☒ Staining: Heavy
- ☐ Exposed Aggregate: N/A
- ☐ Exposed Reinforcement: N/A
- ☒ Spalling: Minor
- ☒ Saggs/Runs: Minor

Type: Hairline / Shrinkage

Type: None

Type: Sediment

Seams/Joints Condition: Good

Is biofilm present? Y ☐ N ☒

Any irregularities or structural deficiencies? Y ☐ N ☒

Description: N/A

Corrosion:

- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

N/A

Depth:

Overall Condition: Good

Additional Notes:

- Consistent ratings noted throughout
- Prestressed coated concrete walls
- Moderate signs of bug holing
- Heavier staining noted on lower walls
- Heavy blistering noted on floor to wall seams
- Minor chalking & checking noted throughout coating



Float Condition

Float Location: 11:45

Float Condition: Excellent to Good

Float Sealed? Y ☒ N ☐

Guidelines Condition: Excellent to Good

Attached Properly? Y ☒ N ☐

Cable Condition: Excellent

Attached Properly? Y ☒ N ☐

Hardware Condition: Excellent to Good

Coating Condition: Excellent to Good

Corrosion:

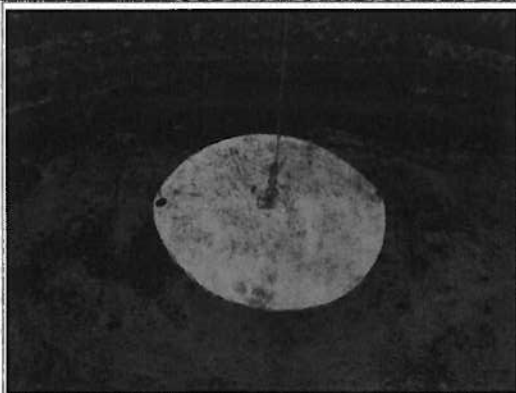
- ☐ None: N/A
- ☒ Uniform Surface Corrosion: None, or < 0.01%
- ☒ Concentrated Cell Corrosion: Few Isolated: < 0.1%
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes:

- Constructed of fiberglass
- Attached and accurate (Anchored properly)
- Heavy staining noted throughout



Tank Floor Condition

Concrete / Coating Condition:

- ☒ De-lamination: Extensive: < 1%
☐ Deterioration: N/A
☒ Pop-outs: Minor
☐ Voids: N/A
☒ Unevenness: Minor
☐ Cracking: N/A
☐ Growth: N/A
☒ Staining: Heavy
☐ Exposed Aggregate: N/A
☐ Exposed Reinforcement: N/A
☐ Spalling: N/A

Type: None
 Type: None
 Type: Sediment

Any identified signs of leaking? Y ☐ N ☒

Seams/Joints Condition: Good

Sediment depth: 6" - 10"

Any irregularities or structural deficiencies? Y ☐ N ☒

Description: N/A

Corrosion:

- ☒ None: N/A
☐ Uniform Surface Corrosion: N/A
☐ Concentrated Cell Corrosion: N/A
☐ Rust Noduling/Pitting: N/A
☐ Galvanic: N/A
☐ De-alloying: N/A
☐ Intergranular: N/A
☐ Stress Corrosion Cracking: N/A
☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent to Good

Additional Notes: - Consistent ratings noted throughout
 - Heavy blistering noted on floor to wall seam
 - Coating present and in-tact
 - No signs of leaking or seepage noted throughout



Floor to Wall Seam Condition

Coating: Y ☒ N ☐

Coating Condition:

- ☐ Oxidation: N/A
☒ De-lamination: Extensive: < 1%
☒ Staining: Heavy
☒ Blistering: Heavy
☐ Chalking: N/A
☒ Checking: Minor
☐ Cracking: N/A
☐ Growth: N/A
☐ Pinholes: N/A
☒ Saggs/Runs: Moderate

Type: Sediment

Type: None
 Type: None

Seams/Welds Condition: Good

Gasket Condition: Good to Fair

Concrete Condition:

- ☐ Deterioration: N/A
☒ Pop-outs: Minor
☐ Voids: N/A
☐ Unevenness: N/A
☐ Cracking: N/A
☐ Exposed Aggregate: N/A
☐ Exposed Reinforcement: N/A
☐ Spalling: N/A
☐ Corrosion: N/A

Overall Condition: Good

Additional Notes: - Sloped floor to wall seams
 - Consistent rating noted throughout
 - Has elastomeric urethane floor-wall boot (blistering)
 - No signs of leaking or seepage noted



Inlet Condition

Common Inlet/Outlet? Y ☒ N ☒ Location: N/A

If No:

Inlet Location: 7:30

Coating Condition:

☒ Oxidation: Approx. 100%

☒ De-lamination: Approx. 50%

☒ Staining: Heavy

☐ Blistering: N/A

☐ Chalking: N/A

☒ Checking: Heavy

☒ Cracking: Moderate

☐ Growth: N/A

☐ Pinholes: N/A

☐ Saggs/Runs: N/A

Seams/Welds Condition: Fair

Type: Corrosive / Sediment

Type: Coating

Type: None

Corrosion:

☐ None: N/A

☒ Uniform Surface Corrosion: Approx. 100%

☒ Concentrated Cell Corrosion: Approx. 50%

☒ Rust Noduling/Pitting: To Extent of 10%

Depth: 1/8"

☐ Galvanic: N/A

☒ De-alloying: Approx. 50%

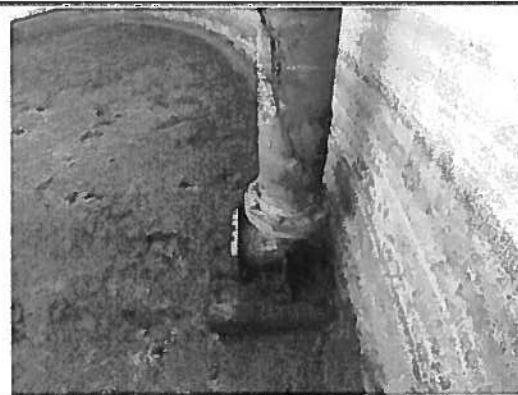
☒ Intergranular: Approx. 50%

☐ Stress Corrosion Cracking: N/A

☒ Erosion Corrosion: To Extent of 3%

Overall Condition: Poor

Additional Notes: - Consistent ratings noted throughout
- Severe corrosion present (coating failure)
- Stainless stand-offs in excellent condition
- Ultrasonic measurement readings: 373" - 369"
- High & Low fill opening flange



Outlet Condition

Outlet Location: 11:50

Coating Condition:

☒ Oxidation: Approx. 100%

☒ De-lamination: Approx. 33%

☒ Staining: Heavy

☐ Blistering: N/A

☐ Chalking: N/A

☒ Checking: Heavy

☒ Cracking: Moderate

☐ Growth: N/A

☐ Pinholes: N/A

☐ Saggs/Runs: N/A

Seams/Welds Condition: Poor

Type: Corrosive / Sediment

Type: Stress / Coating

Type: None

Corrosion:

☐ None: N/A

☒ Uniform Surface Corrosion: Approx. 50%

☒ Concentrated Cell Corrosion: Approx. 50%

☒ Rust Noduling/Pitting: To Extent of 10%

Depth: 1/8"

☐ Galvanic: N/A

☒ De-alloying: Approx. 17%

☒ Intergranular: Approx. 17%

☒ Stress Corrosion Cracking: Approx. 33%

☒ Erosion Corrosion: To Extent of 10%

Overall Condition: Poor

Additional Notes: - Severe corrosion noted throughout (coating failure)
- Penetrates through stainless flange in lower wall
- House within concrete floor sump (60"x60"x12")
- Ultrasonic thickness readings: 331 - 365
- 29" Outer circumference



Secondary High-Fill Inlet Condition

High-Fill Location: 6.00

Coating Condition:

- ☐ Oxidation: N/A
- ☐ De-lamination: N/A
- ☐ Staining: N/A
- ☐ Blistering: N/A
- ☐ Chalking: N/A
- ☐ Checking: N/A
- ☐ Cracking: N/A
- ☐ Growth: N/A
- ☐ Pinholes: N/A
- ☐ Saggs/Runs: N/A

Type: None

Type: None

Type: None

Seam/Welds Condition: Excellent

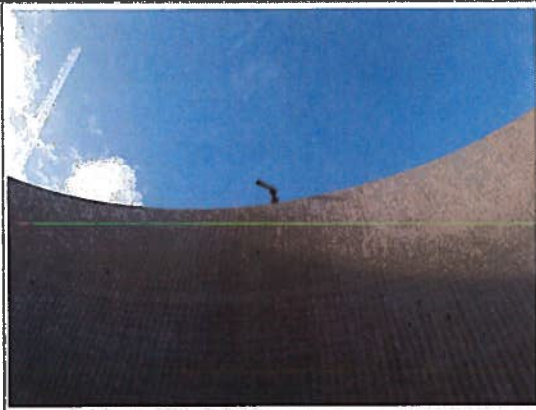
Corrosion:

- ☒ None: N/A
- ☐ Uniform Surface Corrosion: N/A
- ☐ Concentrated Cell Corrosion: N/A
- ☐ Rust Noduling/Pitting: N/A
- ☐ Galvanic: N/A
- ☐ De-alloying: N/A
- ☐ Intergranular: N/A
- ☐ Stress Corrosion Cracking: N/A
- ☐ Erosion Corrosion: N/A

Depth: N/A

Overall Condition: Excellent

Additional Notes: - Constructed of stainless steel
- No coating present
- No discrepancies to be noted



Additional Pictures

Plaque



Outlet



Pitting Measurement



Primary Inlet



Tank Layout

