

Note: This is what we refer to as Tank #2

Underwater Inspections  
Welding & Burning  
Specializing in Water  
Tank Inspections

**C W Divers**  
903 N. Watson • Farmington, NM 87401  
Phone: (505) 327-2830

Cathodic Protection  
Member AWWA  
NACE Level III  
Inspector #763

## WATER TANK INSPECTION REPORT

Town, City, Agency: La Mesa Water      Date: 11/7/2020

**Tank#: 1**      Tank Capacity: 200K      Dia.: 55      High: 14

Current Water Level: \_\_\_\_\_      Tank Location: North Tank

Elevated Tank :       Ground Level Tank :       Under ground Concrete Tank :

Bolted       Welded :       Riveted :       Concrete :

Type of service to be performed:

Video Inspection Only

Still Photography Only

Complete inspection with vacuum cleaning

Depth of sediment, over 2" \_\_\_\_\_

Additional cost to remove sediment \_\_\_\_\_

Additional cost for coating repairs \_\_\_\_\_



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## Exterior Tank Inspection

**Tank Foundation:** (concrete retainer ring, pad, soil erosion)

4                       3                       2                       1

No soil erosion

Tank supported by gravel pad w/steel ring

Observed no settling of floor

**External Ladder Condition:** (bolts, rungs, welds, security, fall protection)

4                       3                       2                       1

Has no fall protection in place

Has no security lock

Base of ladder 12' from grade.

**External Tank Roof Condition:** (hatch, open areas)

4                       3                       2                       1

No open to atmosphere locations

Hatch found in locked position

Paint in good condition, no peeling or areas of rust

**Roof Vent:** (screen condition, adequate vent)

4                       3                       2                       1

Roof vent screen in place

Roof venting is adequate

No action is necessary

**Exterior Paint System:** (cracking, peeling, chalking, rock damage or graffiti)

4                       3                       2                       1

Exterior paint system in good condition

Observed no peeling paint. No action necessary

Water Tank Inspection Report
Internal Inspection

Depth of Sediment, Color, Sand or Silt:

Depth of Sediment is: 1/8" Sandy Average Sediment is: 1/8"

Steel Structures Painting Council SSPC-VIS 2
Standard Method of Evaluating Degree of Rusting on Painted Surfaces

Table with 4 columns: Rust Grade, Description, Rust Grade, Description. Rows include grades 10, 9 to 7, 6 to 5, 4 and 3, 2, 1, 0 with corresponding rust percentages.

Interior Ceiling Panels: Rust Grade 9 Spot [ ] General [ ] Pinpoint [ ]

Coating Condition:

4 [ ] 3 [x] 2 [ ] 1 [ ]

Ceiling panels in good condition

No peeling paint. Rust bleed on plate overlaps. Otherwise good condition.

Interior Ceiling Rafters: Rust Grade 9 Spot [ ] General [ ] Pinpoint [ ]

Coating Condition:

4 [ ] 3 [x] 2 [ ] 1 [ ]

Coating on rafters in good condition

Rafters have rust bleed only

No peeling paint.

Ceiling Rafter Clips: Rust Grade 9 Spot [ ] General [ ] Pinpoint [ ]

Coating Condition:

4 [ ] 3 [x] 2 [ ] 1 [ ]

Rafter clips in good condition

No corrosion, only slight rust bleed.

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Steel Structures Painting Council  
Standard Method of Evaluating Degree of Rusting on Painted Surfaces

SSPC-VIS 2

Rust Grade	Description	Rust Grade	Description
10	No Rusting	3	10% to 16%
9 to 7	.3% to 1%	2	16% to 33%
6 to 5	1% to 3%	1	33% to 50%
4	3% to 10%	0	Greater than 50%

**Ceiling Rafter Bolts:** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Rafter bolts in good condition

No corrosion.

**Overflow:** Rust Grade 10 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

External Over-Flow Piping

Over-Flow Supports In Excelent Condition

Weir box style.

**Ring Wall #4:** Rust Grade \_\_\_\_\_ Spot  General  Pinpoint

Coating Condition:

4  3  2  1

N/A

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SSPC-VIS 2

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6 to 5	1% to 3%	1	33% to 50%
4	3% to 10%	0	Greater than 50%

**Ring Wall #3:** Rust Grade \_\_\_\_\_ Spot  General  Pinpoint

Coating Condition:

4  3  2  1

N/A

**Ring Wall #2:** Rust Grade 10 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Coating in excellent condition

No measurable corrosion. Occasional pinpoint rust.

**Ring Wall #1 (Bottom):** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Coating in good condition

No measurable corrosion. Small spot of blisters. Both manways have minor pinpoint rust.

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SSPC-VIS 2

Rust Grade	Description	Rust Grade	Description
10	No Rusting	3	10% to 16%
9 to 7	.3% to 1%	2	16% to 33%
6 to 5	1% to 3%	1	33% to 50%
4	3% to 10%	0	Greater than 50%

**Corner Weld:** Rust Grade 10 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Corner Weld Coating In Excelent Condition

**Floor:** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Coating on floor in good condition

No measurable corrosion. Small spots of blisters.

**Inlet/Outlet Piping:** Rust Grade 10 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Common

Has Silt Dam

Support pad has no stress crack. Coating in good condition.

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SSPC-VIS 2

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10	No Rusting	3	10% to 16%
9 to 7	.3% to 1%	2	16% to 33%
6 to 5	1% to 3%	1	33% to 50%
4	3% to 10%	0	Greater than 50%

**Roof Support Pads:** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Roof support pad in good condition

Welded to the floor. No blisters, no measurable corrosion.

**Vertical Roof Support:** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Vertical roof support pole in good condition

Rust bleed on dollar plate from the rafters. Otherwise good condition.

**Tank Interior Ladder:** Rust Grade 9 Spot  General  Pinpoint

Coating Condition:

4  3  2  1

Ladder in good condition

Bottom rung has minor corrosion nodules, otherwise good condition.

**Cathodic Protection:** Impressed System  Passive System

Date installed - \_\_\_\_\_ Native State - \_\_\_\_\_V Current - 2.1mA On Potential - 1.1V

Condition of Anodes - nine anodes in good condition.

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## Weld Seam Inspection

A-Satisfactory      B-Splatter      C-Porosity      D-Convexity/Concavity      E-Cracks  
G-Incomplete Fusion      H-Incomplete Penetration      I-Undercut      J-Under Fill      K-Over lap  
Z-Unable to evaluate; welds masked by coating

Floor Weld Seams A      Shell Weld Seams      Ring #1 A      Ring #2 A  
Ring #3      Ring #4  
Ring #5      Ring #6

**Structural Condition:** (bolts, rivets welds man way fasteners, nozzles, gaskets, general corrosion)

4       3       2       1

Structural condition good, minor corrosion

Observed only spot areas of minor pinpoint corrosion. No action required.

### Recommendations:

Maintain the cathodic protection.  
Clean every 4-5 years. Observed no sanitary defects.

NACE Level III Coatings Inspector #763



Date 11/08/20

**C W Divers**

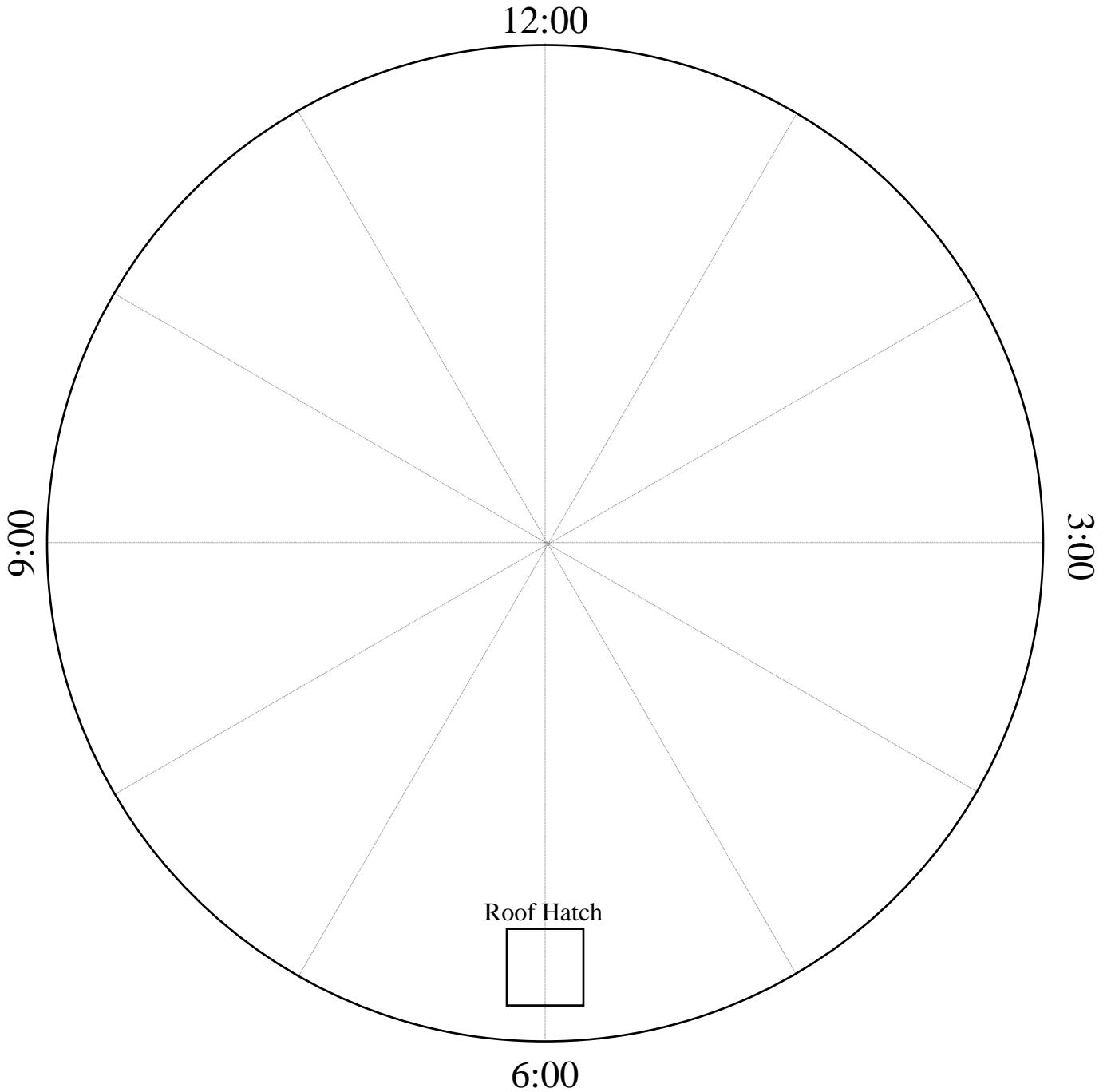
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**Storage Tank Internal Penetration Layout**

Inlet Position: 6:30      Outlet Position: 6:30      Drain Position: 7:00

Over Flow Position: 7:00      Shell Manways: 9:00 / 3:00

Other Penetrations:



● = Shell Penetration

● = Floor Penetration

**ALL LOCATIONS ARE APPROXIMATIONS ONLY AND NOT TO SCALE**