

Inspection Report for
Odd Fellow Sierra Recreation Association
Long Barn, CA



13 KG Steel on Grade
Tank #1

Date Completed: July 4th, 2010

Commercial Dive Team:

Diver – Ian Stephens
Dive controller – Brett Taake
Tender – Tom Romel

Scope of Work:

Our team completed sediment removal from the tank floor using underwater vacuum equipment. Sediment depth averaging 4 inches (manganese) was removed from tank floor. When the cleaning process was finished, a full visual inspection was performed of the tank interior and all interior fixtures. The team also performed a full visual inspection of the tank exterior and all attached fixtures. The details of the inspection findings are included in the report below.

Summary of the Inspection:

Exterior Inspection

1. There was limited access to the tank.
2. The ladder was found secure, OSHA approved and in excellent to good condition with corrosion noted.
3. The hatch was found locked with no gasket present and in good condition with corrosion and de-lamination noted.
4. The vent was found in good condition with a screen in place and corrosion noted.
5. The roof and walls were found in fair to poor condition with de-lamination noted.

Interior Inspection

1. The inlet and outlet were found in good condition.
2. The interior roof and floor were found in good condition.
3. The drain was found in good condition with corrosion noted.
4. The interior walls were found in excellent to good condition. Between ¼ and ½ inch of manganese was removed.

Recommendations:

1. Install a gasket on the access hatch.
2. Schedule time to re-paint the exterior of the tank.
3. Clean and inspect every 3-5 years per AWWA recommendations.

Key

Excellent – Like new, no repairs needed

Good – Cosmetic problems, repair if utility wants

Fair – Minor problems, repairs needed

Poor – Major problems, fix now



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Exterior Inspection Report



Access Ladder Condition

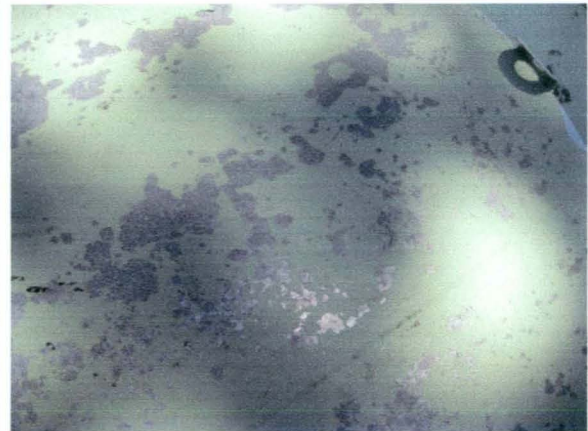
Ladder Type: Steel
 Coating Condition: Good
 Corrosion Present? Y N
 Seams/Welds Condition: Excellent
 Oxidation Present? Y N
 De-lamination Present? Y N
 Stand Off Supports Condition: Excellent
 Safety Climb Type: Cage
 Safety Climb Condition: Excellent
 Is top of tank easily accessible? Y N
 Is the ladder and Safety Climb OSHA approved? Y N



Summary: The ladder was found secure, OSHA approved and in excellent to good condition with corrosion noted.

Roof Condition

Coating Condition: Fair/Poor
 Corrosion Present? Y N
 Percentage: N/A
 Seams/Welds Condition: Excellent
 Oxidation Present? Y N
 De-lamination Present? Y N
 Low Spots Present? Y N
 Holes in Roof? Y N
 Cathodic Protection Plates Present? Y N
 Sealed Edges: Y N NA
 Loose Plates? Y N NA
 Missing Plates? Y N NA



Summary: The roof was found in fair to poor condition with de-lamination noted. Recommend re-coating the roof.

Access Hatch Condition

Coating Condition: Fair/Poor
 Corrosion Present: Y N
 Seams/Welds Condition: Excellent
 Oxidation Present? Y N
 De-lamination Present? Y N
 Hatch Size: 18 inch round
 Hatch Locked? Y N
 Hinge Condition: Good
 Gasket Present? Y N
 Intact? Y N NA
 Insects, dirt or debris present under hatch? Y N

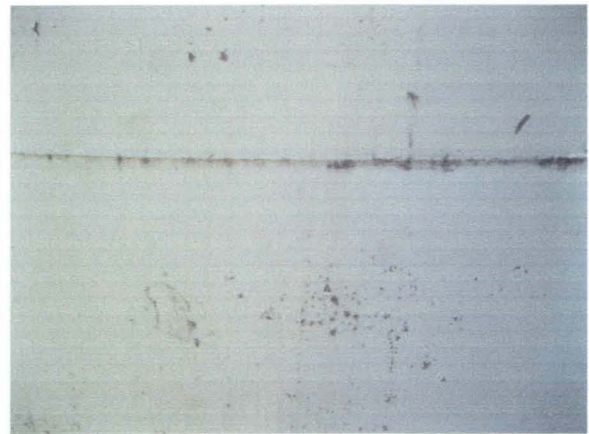


Summary: The hatch was found locked with no gasket present and in good condition with corrosion and de-lamination noted. Recommend installing a gasket and re-coating.

Wall Panel Condition

Coating Condition: Fair/Poor
Corrosion Present? Y N
Percentage: N/A
Seams/Welds Condition: Excellent
Oxidation Present? Y N
De-lamination Present? Y N
Dents Present? Y N
Holes Present? Y N

Summary: The walls were found in fair to poor condition with 50% de-lamination noted. Recommend re-coating the wall panels.



Vent Condition

Coating Condition: Good
Corrosion Present: Y N
Percentage: 5%
Seams/Welds Condition: Good
Oxidation Present? Y N
De-lamination Present? Y N
Screen in Place? Y N
Condition: Good
All Openings sealed? Y N
Cap Condition: Good

Summary: The vent was found in good condition with a screen in place and corrosion noted.



Foundation Condition

Foundation Exposed? Y N
Anchor Bolts Present? Y N
Corrosion on Anchor Bolts Present? Y N NA
Anchor Bolts Loose? Y N NA
Cracking Noted in Foundation? Y N NA
Spalling Noted? Y N

Summary: The foundation was found in excellent condition.





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Interior Inspection Report



Inlet and Outlet Condition

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

If No:

Outlet location: 6 o'clock

Inlet Location: 3 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y N

Percentage: N/A

Pitting noted in metal? Y N

Depth: N/A

Summary: The inlet and outlet were found in good condition.



Drain Condition

Drain Location: 12 o'clock

Coating Condition: Good

Weld/Seam Condition: Good

Corrosion Present? Y N

Percentage: 10%

Pitting noted in metal? Y N

Depth: N/A

Summary: The drain was found in good condition with corrosion noted.



Wall Panel Condition

Coating Condition: Excellent/Good
Welds/seam condition: Excellent
Corrosion Present on panel? Y N
Percentage: N/A
Pitting noted in metal? Y N
Depth: N/A

Summary: The walls were found in excellent to good condition.
Between ¼ and ½ inch of manganese sediment was removed.



Roof Condition

Coating Condition: Good
Welds/seam condition: Good
Corrosion Present on panels? Y N
Percentage: N/A
Metal De-alloying noted? Y N
Percentage: N/A

Summary: The roof was found in good condition.



Floor Condition

Coating Condition: Good
Welds/seam condition: Good
Corrosion Present? Y N
Percentage: N/A
Pitting noted in metal? Y N
Depth: N/A

Summary: The floor was found in good condition.
Approximately 4 inches of manganese sediment was removed.



Tank Layout

Quadrant #4

Quadrant #1

Drain

Access Hatch

Inlet

Center Vent

Outlet

Quadrant #3

Quadrant #2

