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# **Inspection Report for**

# Odd Fellow Sierra Recreation Association Long Barn, CA



43 KG Steel on Grade Tank

Date Completed: July 4th, 2010

**Commercial Dive Team:** 

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

## Scope of Work:

Our team completed sediment removal from the tank floor using underwater vacuum equipment. Sediment depth ranging from 2 to 3 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. (In a gated area)
- 2. The ladder was found secure, OSHA approved and in good condition with corrosion and de-lamination noted.
- 3. The hatch was found locked with no gasket present and in excellent condition.
- 4. The overflow and vent were found in excellent condition with screens in place
- 5. The roof, walls and foundation were found in excellent to good condition.

### **Interior Inspection**

- The inlet, outlet and manway were found in good condition with corrosion, pitting and noduling noted.
- 2. The overflow was found in good condition with corrosion, pitting and dealloying noted.
- 3. The interior walls were found in good to fair condition with corrosion noted on the brackets and bolts on the seams. (The heavy staining makes it difficult to tell if there is corrosion present on the walls).
- The support column was found in good condition with corrosion and staining noted.
- 5. The floor was found in good condition with corrosion and noduling noted on the nuts and bolts on the seams.

# **Recommendations:**

- 1. Install a gasket on the access hatch.
- 2. Install cathodic protection.
- 3. Repair corrosion on exterior ladder.
- 4. Schedule time for epoxy repairs to the brackets and bolts on the interior of the tank.
- 5. Schedule time to have the interior walls cleaned.
- 6. 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

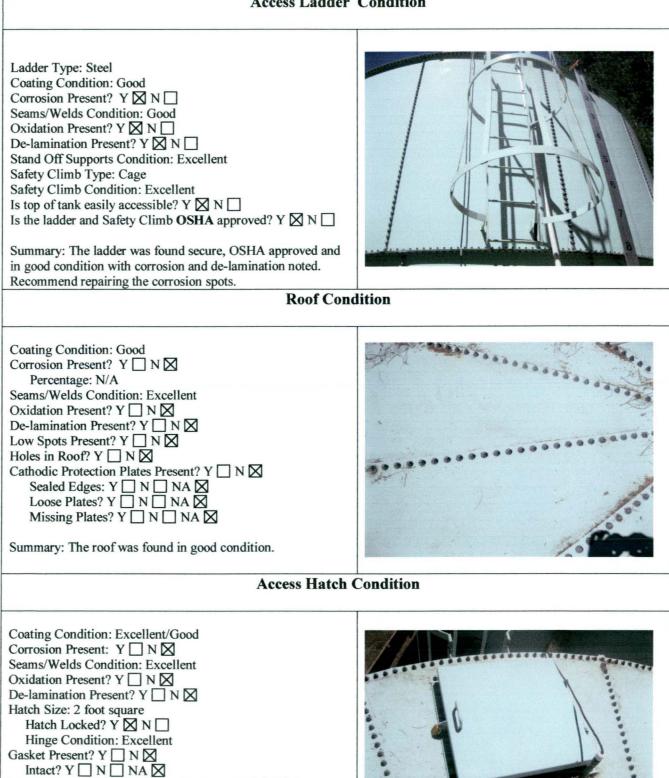


## Inland Potable Services, Inc.



**Exterior Inspection Report** 

Access	Ladde	r Condition
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Summary: The hatch was found locked with no gasket present and in excellent condition. Recommend installing a gasket.

Insects, dirt or debris present under hatch? Y ⋈ N □



# **Wall Panel Condition** Coating Condition: Excellent/Good Corrosion Present? Y N N Percentage: N/A Seams/Welds Condition: Excellent Oxidation Present? Y N N De-lamination Present? Y ☐ N 🛛 Dents Present? Y N N Holes Present? Y N N Summary: The walls were found in excellent condition. **Overflow Structure Condition** Coating Condition: Excellent Corrosion Present? Y N N Percentage: N/A Seams/Welds Condition: Excellent Oxidation Present? Y N N De-lamination Present? Y □ N 🛛 Stand Off Supports Condition: Excellent End Cap Present? Y N Hinge and Cap Condition: N/A Screen Present? Y ⋈ N ☐ Condition: Excellent Summary: The overflow was found in excellent condition with a screen in place.

### **Vent Condition**

Coating Condition: Excellent
Corrosion Present: Y □ N ☒
Percentage: N/A
Seams/Welds Condition: Excellent
Oxidation Present? Y □ N ☒
De-lamination Present? Y □ N ☒

Screen in Place? Y ☒ N □
Condition: Good
All Openings sealed? Y ☒ N □
Cap Condition: Excellent

Summary: The vent was found in excellent condition with a screen in place.



# **Foundation Condition** Foundation Exposed? Y \( \subseteq N \( \subseteq \) Anchor Bolts Present? Y N N Corrosion on Anchor Bolts Present? Y ☐ N ☐ NA 🛛 Anchor Bolts Loose? Y N N NA Cracking Noted in Foundation? Y \( \subseteq N \subseteq NA \( \subseteq \) Spalling Noted? Y N N NA Summary: The foundation was found in excellent condition.



## **Manway Condition**

Manway Location: 10:30 o'clock Coating Condition: Excellent Weld/Seam Condition: Excellent Corrosion Present? Y N N

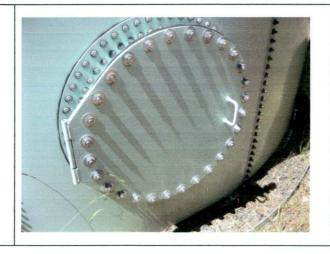
Percentage: N/A

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The manway was found secure and in excellent

condition.





# Inland Potable Services, Inc.





### **Inlet and Outlet Condition**

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

If No:

Outlet location: 1 o'clock Inlet Location: 1 o'clock Coating Condition: Good Weld/Seam Condition: Fair Corrosion Present? Y ⋈ N □

Percentage: 5%

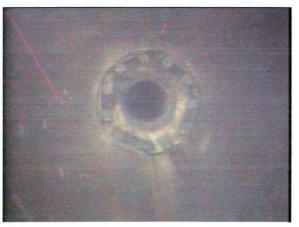
Pitting noted in metal? Y ⋈ N □

Depth: Unknown

Summary: The inlet and outlet were found in good condition with corrosion, pitting and noduling noted on the brackets and

hardware.





## **Manway Condition**

Coating Condition: Good

Weld/Seam Condition: Excellent Corrosion Present? Y ⋈ N ☐

Percentage: 10%

Pitting noted in metal? Y ⋈ N □

Depth: Unknown

Summary: The manway was found in good condition with corrosion, pitting and noduling noted on the brackets and bolts.



### **Overflow Condition**

Overflow Location: 8 o'clock Coating Condition: Good Weld/Seam Condition: Good Corrosion Present? Y ⋈ N ☐

Percentage: 10%

Pitting noted in metal? Y ⋈ N □

Depth: Unknown

Summary: The overflow was found in good condition with uniform surface corrosion, pitting and 2% de-alloying noted.



## **Wall Panel Condition**

Coating Condition: See notes Welds/seam condition: Good/Fair Corrosion Present on panel? Y N N

Percentage: N/A

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The walls were found in good to fair condition with corrosion present on brackets and bolts at the seams. Heavy staining on the walls made it difficult to determine if corrosion was present.



## **Roof Condition**

Coating Condition: Good Welds/seam condition: Good

Corrosion Present on panels? Y X N

Percentage: 5%

Metal De-alloying noted? Y □ N ☒

Percentage: N/A

Summary: The roof was found in good condition with corrosion

noted on the support beams.



## **Support Column Condition**

Coating Condition: Good

Welds/seam condition: Excellent Corrosion Present? Y ⋈ N ☐

Percent: 5%

Pitting noted in metal? Y □ N ☒

Depth: N/A

Summary: The support column was found secure and in good condition with corrosion and staining noted. There is also uniform surface corrosion on the bolts at the base of the column.



## **Floor Condition**

Coating Condition: Excellent Welds/seam condition: Fair Corrosion Present? Y ☒ N ☐

Percentage: 5%

Pitting noted in metal? Y ⋈ N □

Depth: Unknown

Summary: The floor was found in good condition with uniform surface corrosion and noduling present on the nuts and bolts at the seams of the panels. Between 2 and 3 inches of manganese sediment was removed.



