



7453 South Norfolk Street
Aurora, Colorado 80016
Office Phone: 800-637-1322
Office Fax: 303-309-0097

Inspection Report for San Bernardino County

04/19/2016

Spring Valley Lake, CA

County Service Area 64

32' High x 80' Diameter, 1MG Steel Welded On-Grade

Diver: Brandon Erickson

Tender: Dustin Morton

Stand-by: Keegan Nace



EXTERIOR

Wall Panels

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 1%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Dents Present: Yes No

Summary: The wall panels have good coating conditions overall. Minor pinhole corrosion spots present.



EXTERIOR

Ladder

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 1%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Safety Climb Present: Yes No

Type of safety climb and deficiencies noted: Cage.

Support Condition: Good.

Summary: The ladder has good coating conditions overall. Minor uniform surface corrosion noted.



EXTERIOR

Manway (s)

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: Less than 1%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Bolts missing: Yes No

Leakage Present: Yes No

Summary: The manway has good coating conditions overall. Minor uniform surface corrosion is the only discrepancy found during the inspection.



EXTERIOR

Foundation

Foundation Present: Yes No

Concrete Foundation: Yes No

Cracking Present: Yes No

Type of Cracking: N/A.

Spalling Present: Yes No

Depth of Spalling: N/A.

Anchor Bolts Exposed: Yes No

Undermining of Foundation Present: Yes No

Summary: The foundation is present and there appears to be no discrepancies. Foundation ring is intact and in good condition.



EXTERIOR

Overflow

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: N/A.

De-alloying present: Yes No

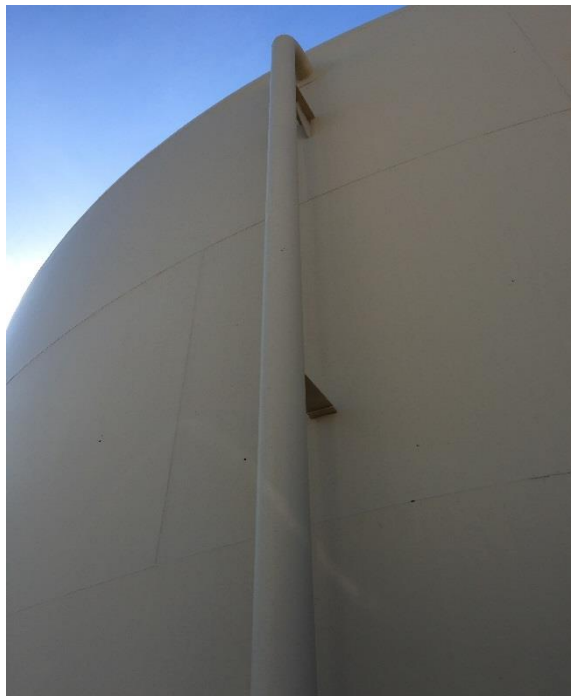
Percent of De-alloying: N/A.

End Cap Present: No- Buried.

Screen Present: No- Buried.

Support Condition: Good.

Summary: The overflow has good coating conditions overall. There were no discrepancies noted at the time of inspection.



EXTERIOR

Roof Panels

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: Less than 1%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Cathodic protection plates present: Yes No

Cathodic protection plates missing: Yes No

Low Spots Present: Yes No

Summary: The roof panels have good coating conditions overall. Heavy chalking present to coating.



EXTERIOR

Hatch

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: 1%.

Uniform Surface Corrosion: Yes No

Percent of USC: Less than 1%.

De-alloying present: Yes No

Percent of De-alloying:

Hatch Found Locked: Yes No

Gasket Present: Yes No

Summary: The hatch has good coating conditions overall. Minor de-lamination and uniform surface corrosion present.



EXTERIOR

Vent

Coating Conditions Overall: Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: N/A.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Screen Present: Yes No

Vent Cap Condition: None.

Summary: There are two vents on the tank, and both of them have good coating conditions overall. Screen is not 24 mesh in size and should be replaced to meet AWWA code.



INTERIOR

Ladder

Coating Conditions Overall: Fair.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 5-10%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A.

Safety Climb Present: Yes No

Type of safety climb and deficiencies noted: N/A.

Support Condition: Good.

Summary: The ladder has fair coating conditions overall. Moderate uniform surface corrosion present with the majority being towards the top of the ladder.



INTERIOR

Wall Panels

Coating Conditions Overall: Poor.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 35%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A/

Summary: The wall panels have poor coating conditions overall. There appears to be a large amount of cracking of the coating $\frac{3}{4}$ of the way up the wall panels. Heaviest amount of cracking to the coating and corrosion on the panels is at the 12:00- 4:00 positions around the 2nd weld seam.



INTERIOR

Floor Panels

Coating Conditions Overall: Fair/ Good.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 2%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A.

Summary: The floor panels have fair to good coating conditions overall. Corrosion nodules appear on the floor to wall seam with up to 1/8" deep pitting. Minor uniform surface corrosion present mainly in quadrant #4. Some cracking and staining also visible.



INTERIOR

Manway (s)

Position of Manway(s): 12:00- behind ladder.

Coating Conditions Overall: Fair.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

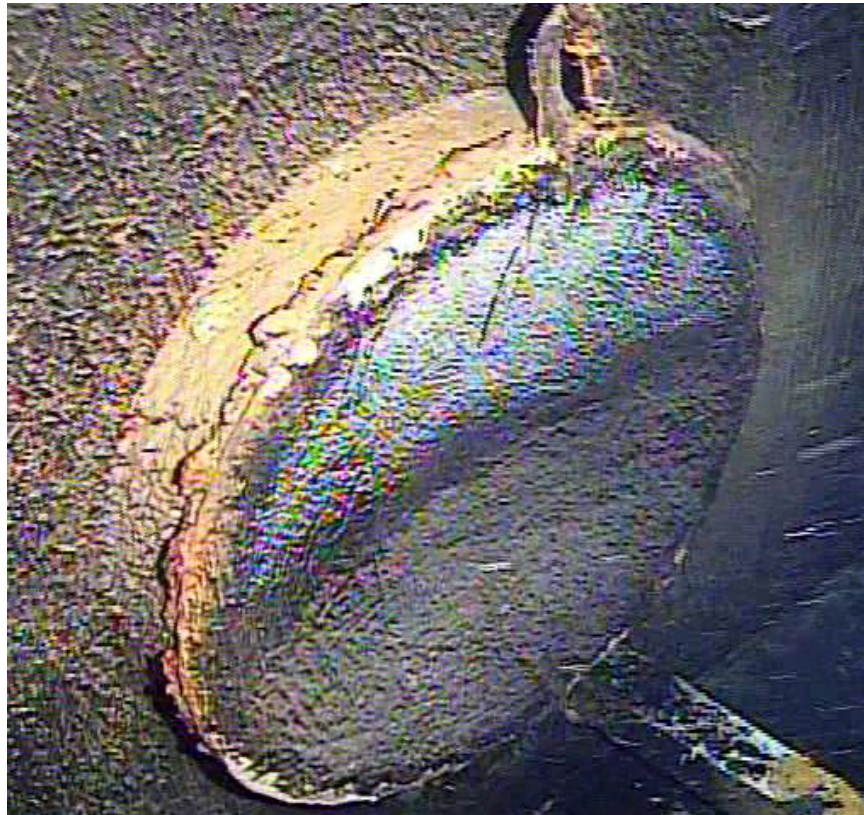
Uniform Surface Corrosion: Yes No

Percent of USC: 3%- corrosion nodules around the seam and chain.

Blistering Present: Yes No

Percent of Blistering: N/A.

Summary: The manway has fair coating conditions overall. Minor uniform surface corrosion and corrosion nodules noted around the seam and chain.



INTERIOR

Roof Panels

Coating Conditions Overall: Fair.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 30 to 40%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Seam Condition: Fair.

Summary: The roof panels have fair coating conditions overall. Heavy uniform surface corrosion present to the roof panels. Condensation noted on the flange of the I-Beams. The roof hardware is also in fair condition.



INTERIOR

Support Column

Coating Conditions Overall:

De-lamination of the coating: Yes No

Percent of De-lamination:

Uniform Surface Corrosion: Yes No

Percent of USC: 30%.

De-alloying present: Yes No

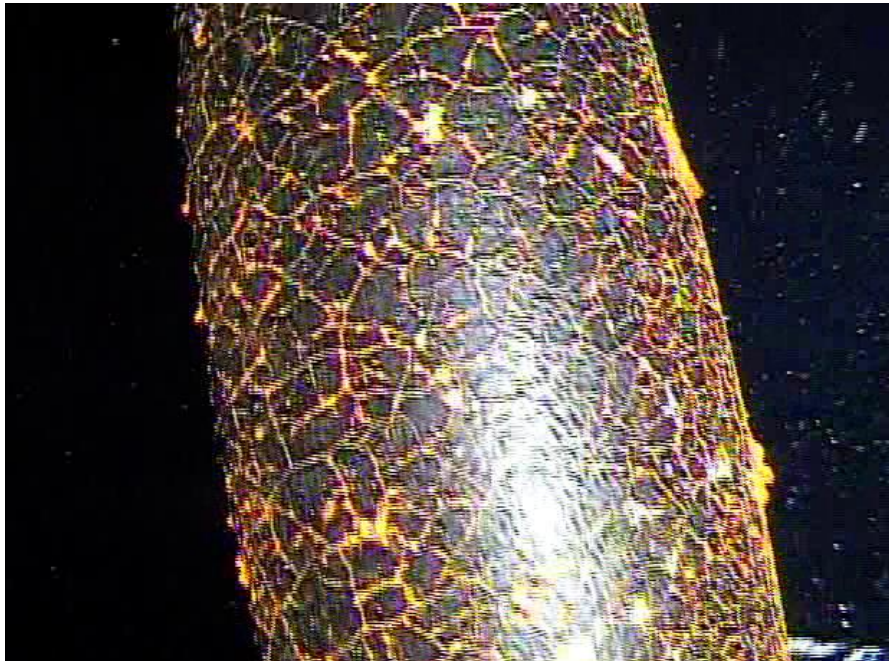
Percent of De-alloying: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A.

Support Condition: Good.

Summary: The support columns have poor coating conditions overall. Cracking in the coating present similar to the wall panels. Uniform surface corrosion and corrosion nodules are present where the coating has failed.



INTERIOR

Inlet/Outlet

Position of Inlet: 1:15.

Coating Condition Overall: Good.

Common Inlet/Outlet: Yes No

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A.

Summary: The inlet/outlet has good coating conditions overall. No major discrepancies noted during the inspection.



INTERIOR

Overflow

Position on Overflow: 1:00.

Coating Conditions Overall: Fair.

De-lamination of the coating: Yes No

Percent of De-lamination: N/A.

Uniform Surface Corrosion: Yes No

Percent of USC: 10%.

De-alloying present: Yes No

Percent of De-alloying: N/A.

Blistering Present: Yes No

Percent of Blistering: N/A.

Standoff support condition: N/A.

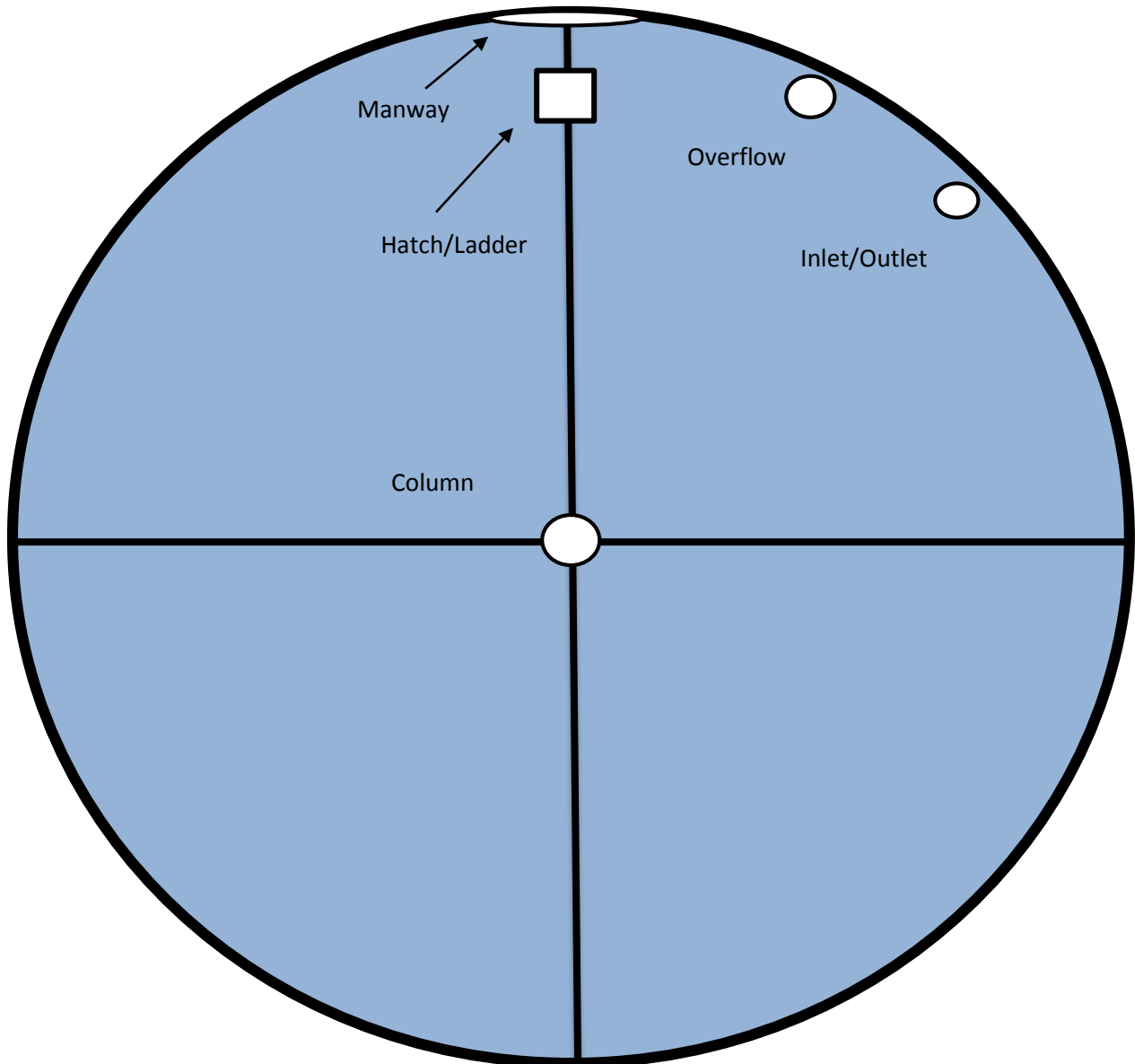
Summary: The overflow has fair coating conditions overall. Significant uniform surface corrosion noted.





Round Tank

Spring Valley Lake, CA
32' High x 80' Diameter, 1MG
Steel Welded On-grade





Post Inspection Recommendations

Tank Description

Tank Name:

Steel Welded On-grade

Dimensions:

32' High x 80' Diameter

Volume (g):

1MG

Type of discrepancies noted

De-lamination

U.S.C.

Blistering

Pitting

De-alloying

C.C.C.

Corrosion Nodules

Abnormal Sediment

Summary

-Recommend installing a 24 mesh screen to follow AWWA D100-11; 5.5.

-Interior ladder has fair coating conditions due cracking of the coating.

-Recommend installing a gasket to the hatch to prevent bugs and insects from entering into tank.

-The interior overflow has fair coating conditions with uniform surface corrosion present.

-The interior wall panels have heavy uniform surface corrosion and heavy cracking of the coating.

-The interior roof panels have fair to poor coating conditions and areas of heavy uniform surface corrosion.

-The floor panels have cracking of the coating, uniform surface corrosion and corrosion nodules with pitting at the floor to wall seam.

- Recommend an SSPC SP10 blast and recoat to the interior of tank.

Contact our office at 1-800-637-1322 for repair quotes.