

# WATER TANK INSPECTION REPORT

## Town of Johnstown, CO

01-24-2023



<b>TANK NAME:</b>	Johnstown North Tank	<b>Location:</b>	Johnstown, CO
<b>CAPACITY:</b>	750 MG	<b>STYLE:</b>	GST
<b>CONSTRUCTION STYLE:</b>	Welded	<b>CONSTRUCTION DATE:</b>	Unknown
<b>BUILDER:</b>	N/A	<b>HEIGHT/DIMENSION:</b>	50' D x 52' H



COATINGS



SAFETY



SANITARY



STRUCTURAL



SECURITY

## EXTERIOR COATING



**Exterior Coating / Roof**

Roof exterior in good condition, no sponginess noticed when walking on roof sections.



**Exterior Coating / Roof**

Roof exterior in good condition, some areas showing coatings failure on overlap weld seams. More than likely due to misses from previous overcoat.



**Exterior Coating / Roof**

Overall good condition, this shot near the roof hatch, coating chips could have been result of tools and or equipment being staged in the area for maintenance.



**Exterior Coating / Roof**

North section of roof in good condition, again no sponginess noted when walking on surface.

## INTERIOR CONDITION



**Interior Coating / Floor**

Fair condition, with considerable number of tubercles over entire floor.



**Interior Coating / Floor**

Tubercles once removed and cleaned little to no discernable pitting present.



**Interior Coating / Floor**

Tubercle removed from floor seam weld, no deterioration present.



**Interior Coating / Floor**

Representative of more tubercles removed little to no discernable pitting present.

## INTERIOR CONDITION



**Floor / Shell Connection**

In good condition overall, shell paint mils averaged 15 and floor averaged 14 mils



**Floor / Shell Connection**

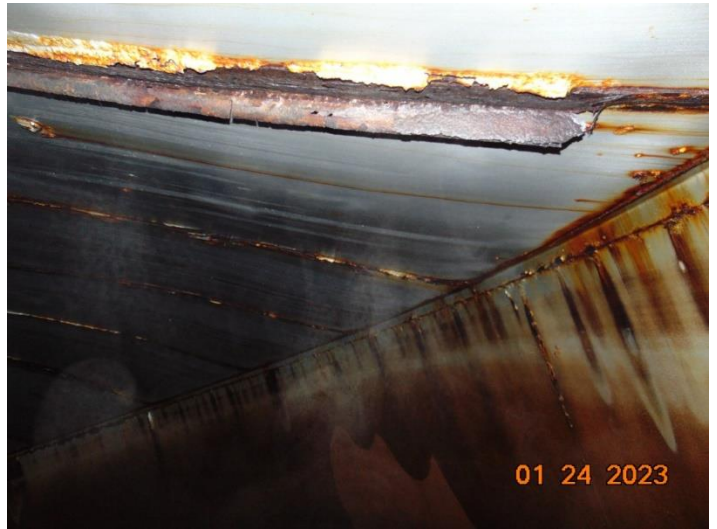
Good condition overall, no visual concerns.

## ROOF INTERIOR CONDITION



**Roof Interior**

Previous support members are all but gone and corroded away.



**Roof Interior**

Some old support members still present, what is left of them. Roof sheets/panels look to be in fair to good condition with some coating failures.

## ROOF INTERIOR CONDITION



**Roof Interior from Floor**

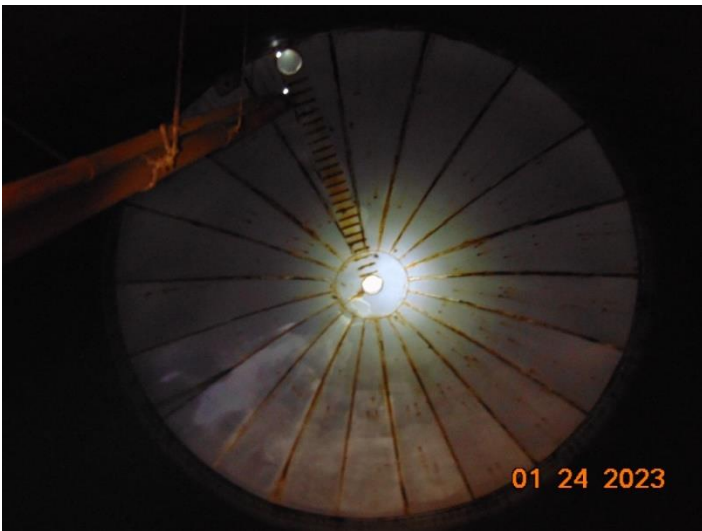
Hard defined rust/corrosion lines from old supports. Roof panels/sheets appear to be in fair condition. See next photo close up.



**Roof Interior**

Note old support structure all but gone, roof sheets/panels look to be in good and salvageable condition.

## ROOF INTERIOR CONDITION



**Floor to Roof Shot**

As in above photo, vent to roof hatch corrosion due to lugs welded to roof for footing to access vent.



**Roof Hatch**

Roof hatch rusted out requires replacement with repositioning of hatch hinge to be operator friendly and safer when needing to access vent for inspection / maintenance.

## SUMMARY

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### **Exterior:**

Good condition overall.

### **Interior Wet Area:**

Fair to poor condition. Now is the time to address the interior renovation. At this time our professional opinion is the roof is salvageable. Interior of roof to be blasted, new support members to be installed between the old existing (what is left of them) old remains cut out once new supports are in place, surface area of old supports ground and prepped, blasted for proper profile.

### **Safety:**

Railing to be added either side of the ladder to be OSHA Compliant and Controls removed from ladder and repositioned onto the north section of new railing. Install new 24" Shell Manway opposing existing for confined space compliance. Cable safety climb to be consideration with renovation.

### **Sanitary:**

Sanitation items; vent is screened, roof hatch to be replaced with 30" round manway and gasketed for CDPHE compliance.

### **Structural:**

Tank and tower appear structurally sound.

### **Security:**

Tank and tower were secure upon arrival and departure. Locking ladder gate to be a consideration with renovation.

### **Recommendations:**

Move forward with tank renovation as mentioned in the Interior Wet Area, Sanitary and Safety sections above.



## **CHUCK GRABER**

### **WATER TOWER EXPERT**

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