



CIVIL INFRASTRUCTURE SOLUTIONS



# Vertical Spray In Place Pipe (SIPP) 24" ID x 25ft Access Through 18" x 24" Adapter Flange

Project Owner/Speaker: Vortex – Sean Fuller

Applicator/Speaker: Elite Pipeline Services – Scott Dishon

January 27 – 28, 2026

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# Introduction

- Known through wall on one (1) vertical water pump can (Taking two (2) out of five (5) to service)
- Existing Coating that needs to be removed
- Access Through 18" x 24" Adapter Flange
- NSF 61 Compliant Hi Build Coating Repair Method
- BEM Scanning to check wall thickness



Asset owner thinks surrounding soils are corrosive from neighboring usage of fertilizers

- Access Through Door Only
- Can't Remove Adapter Flange

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# Initial Inspection After Dewatering

12mil – 15mil Existing Coating Looks Pretty Good (20 yrs) Top Side



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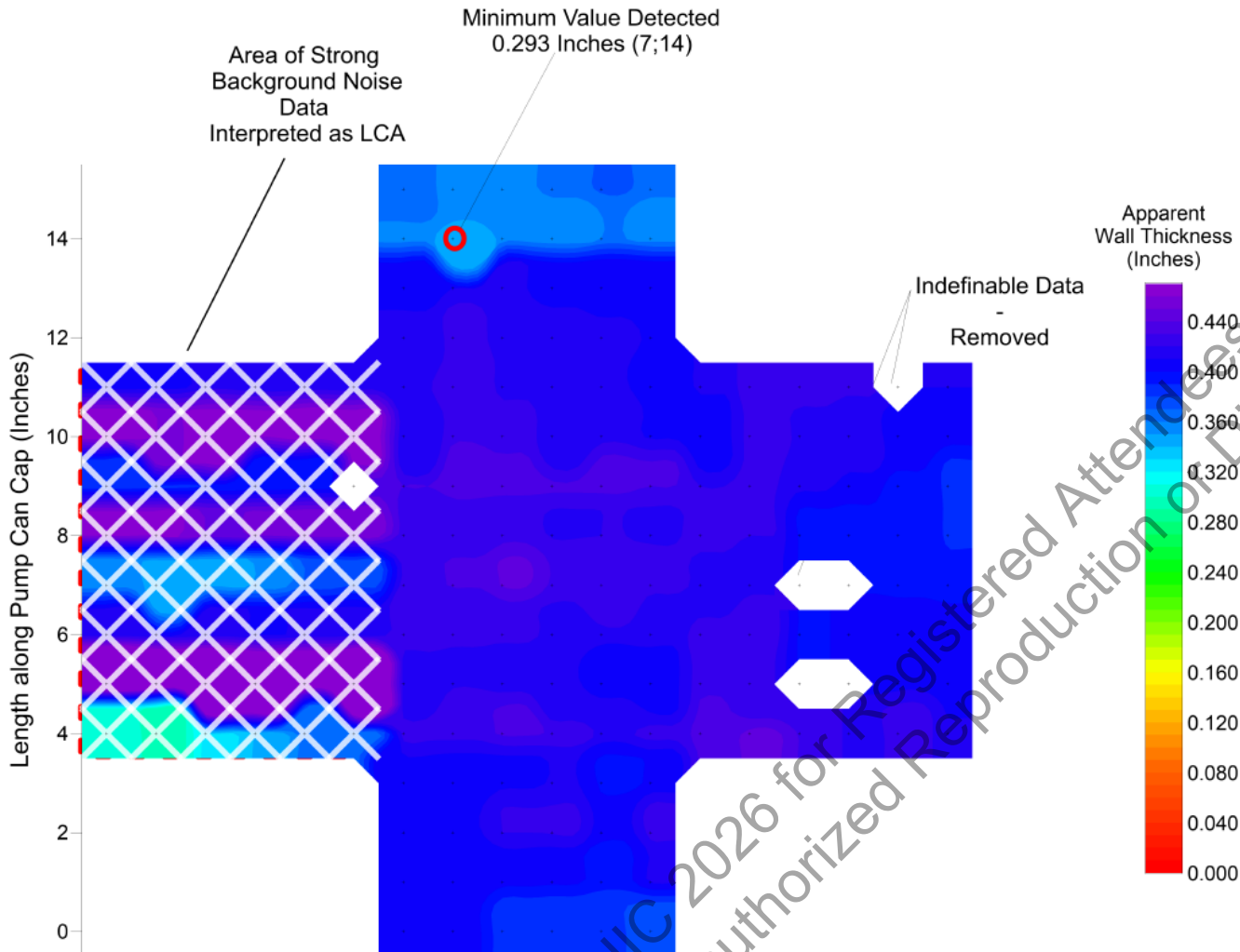


Through Walls

Coating Blistering

75% of Coating in  
Good Condition



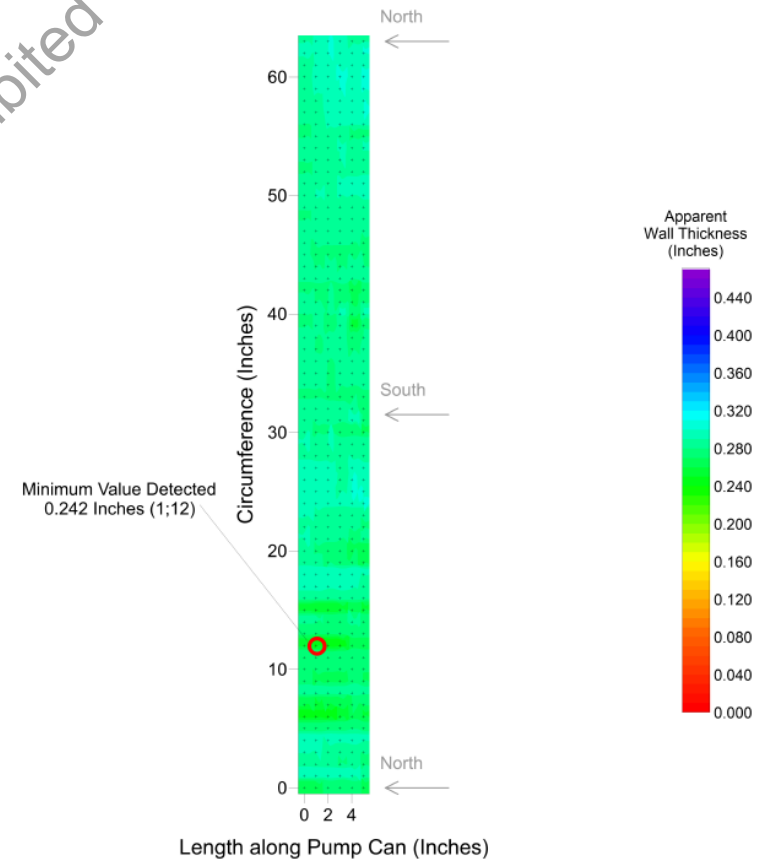
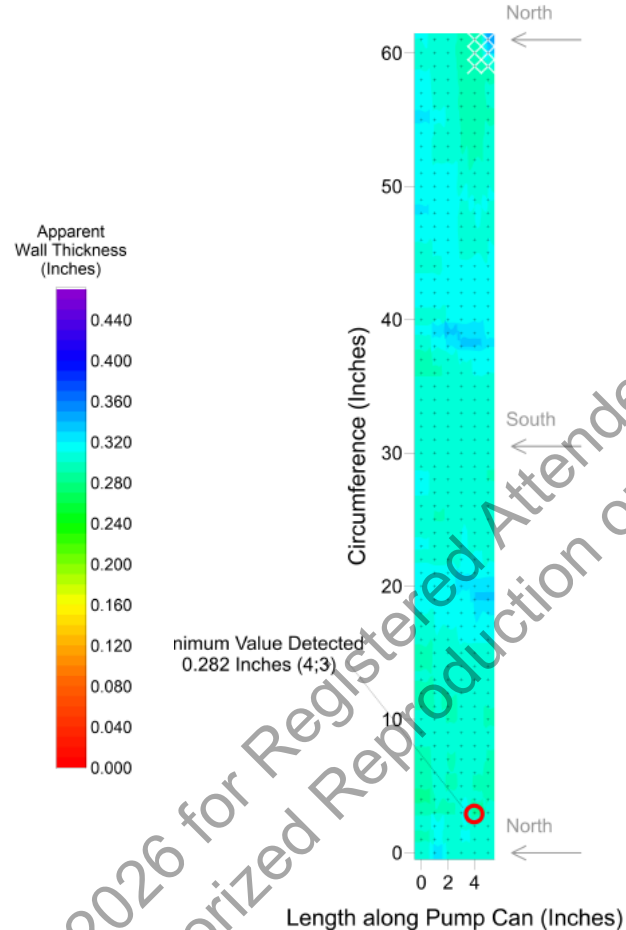
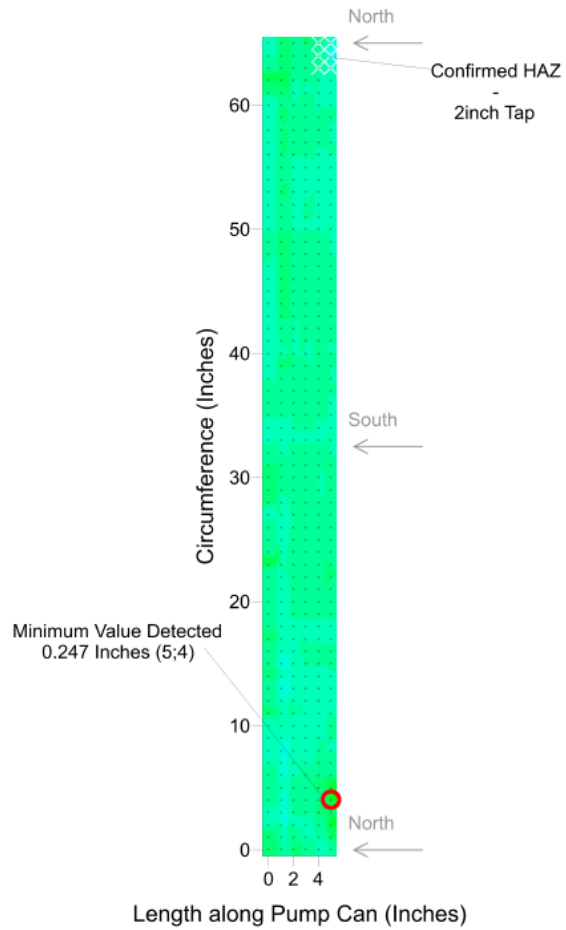


Bottom of Pump Can Thicker  
 Than Originally Thought  
 0.400+ Ave  
 Scanning Interference

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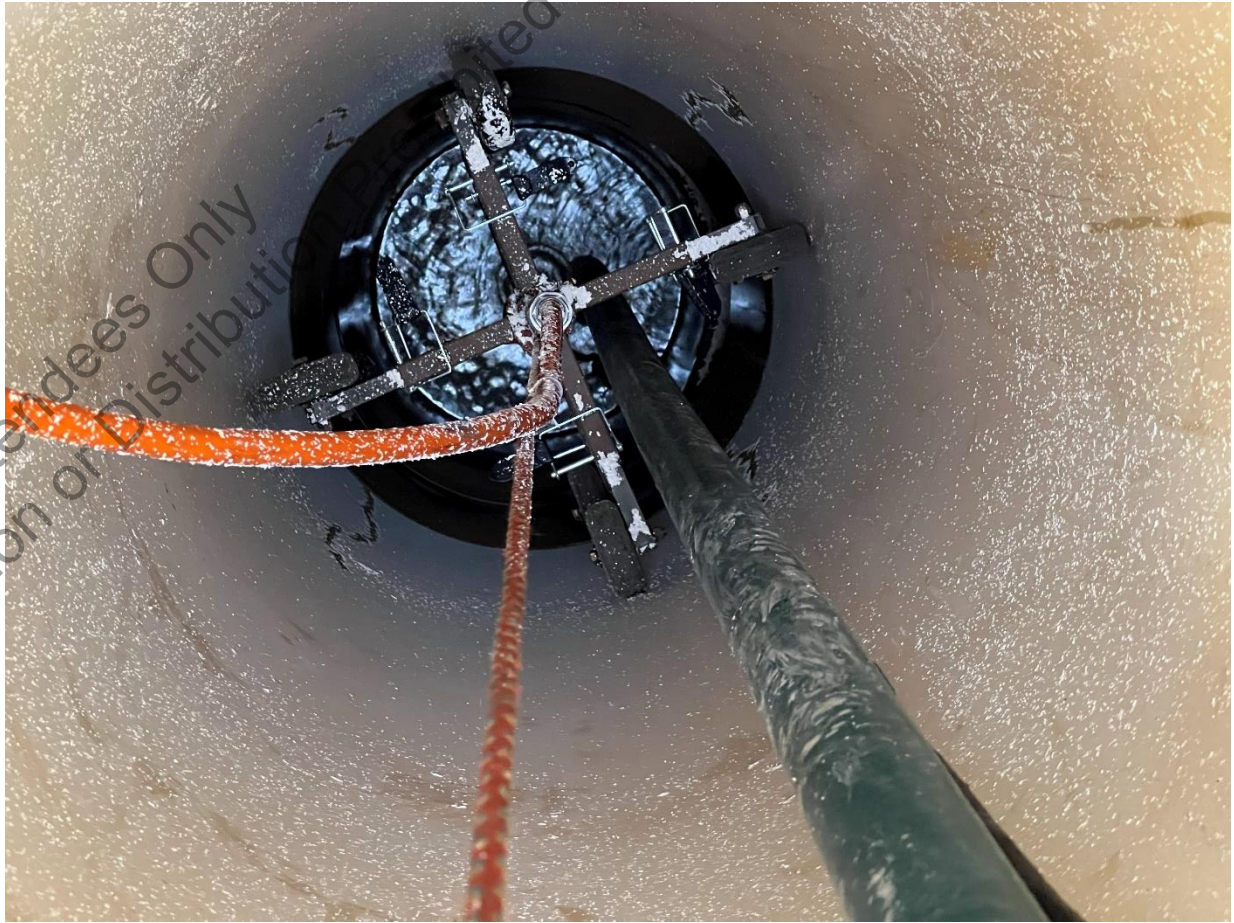
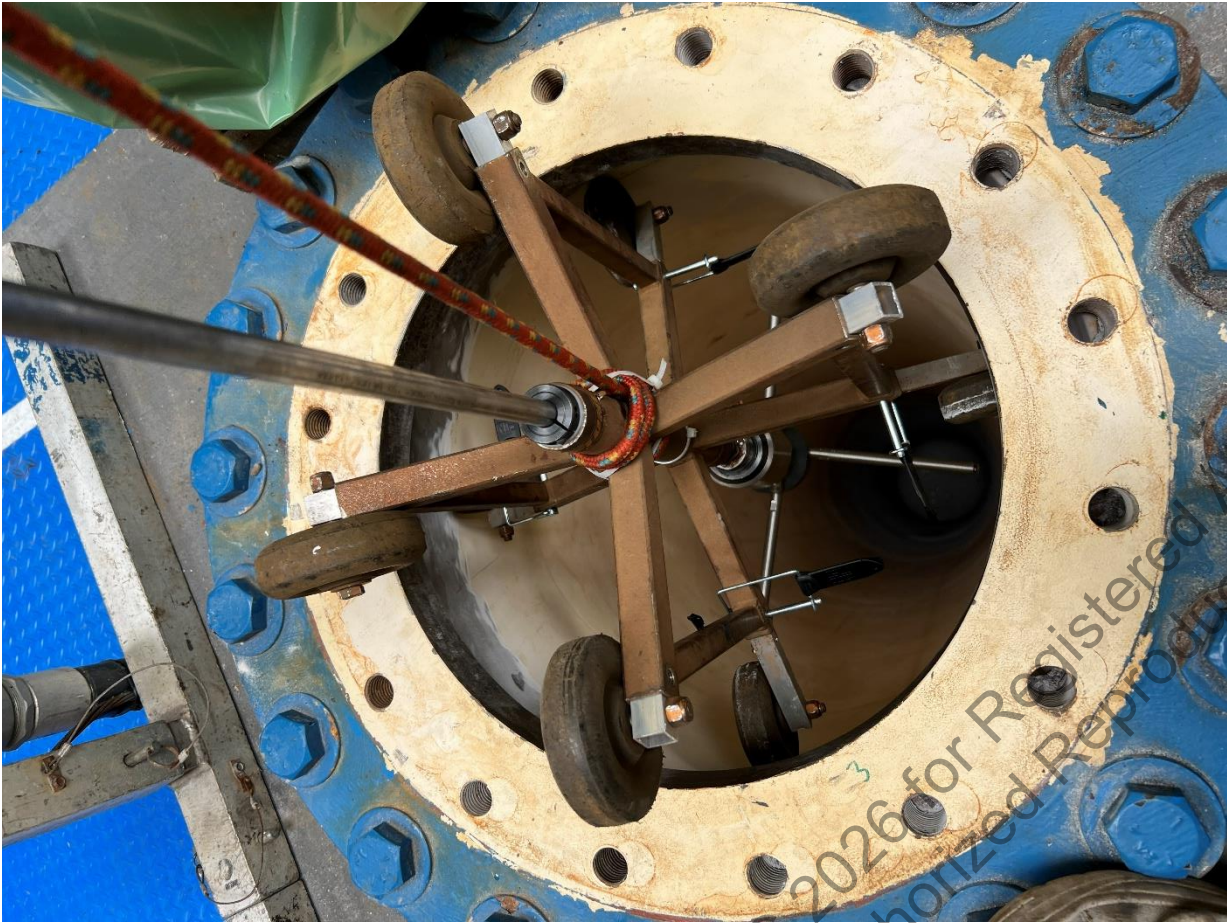


Original Wall Thickness of Cans 0.375  
 Scanning Ave – 0.247 – Confidence in Hydro Lazing Step

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Approximately 32,000 psi  
Required to remove coating

Vac truck onsite to remove  
debris

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Approximately 5 Through Walls Total

75% Wall Loss Pitting



# Enecon Duralloy Metal Clad

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# End Cap Repair Process

- End cap was in good condition
- Heavily corroded from welds up
- Hand Prepped
- Enecon Metal Clad Filled and Smoothed Out
- Hand Sprayed up 1ft
- SIPP Over the Top

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## Filled In and Sanded Back

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Hand Coated 1<sup>st</sup> Ft. (Welds)



SIPP Coated Over The Top



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- After repairs pump cans completely dry
- Not possible for weld repairs in certain areas (cap)
- Existing coating was 12-15mil Ave, new coating 60mil Ave
- Zero holidays after sweep
- With our SIPP Services we like to pre hand coat welds, joints, flanges to avoid possible holiday exposure

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Any Questions?

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