



R&R Visual, Inc.

1828 W. Olson Rd.
Rochester, IN 46975
Phone: (800) 776-5653
Fax: 574-223-7953
www.seepipe.com

PIPELINE INSPECTION EXPERTS

DATA REPORT FOR SONAR/CCTV PIPELINE INSPECTION

Interceptor Inspection

Prepared for:

Your Customer

Prepared by:

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April 26, 2019

Customer Name

Address

Data Report: **Interceptor Inspection**

Location: The interceptor inspection took place at University Athletic Field parking lot into the woods.

Dear Mr.

As requested, we have generated a report for Interceptor Inspection. R&R Visual collected the sonar data used to generate this report.

This report uses English units as the primary units.

The inspection consisted of a line that was 36 inch combined RCP sewer pipe.

Standard sonar pipeline inspection instrumentation includes a sonar frequency profiling head, float, winching system, and proprietary software. The caliper head was positioned at the manhole and pulled through at a specified rate while capturing 360-degree profiles at set increments. The caliper head echoes sonar frequency sound from the pipe walls to measure the distance from the head. Each distance reading is stored with the head's relative position (in degrees) to the top of the pipe. These readings allow the software to generate points in a three dimensional space to create a profile ring at the given distance.

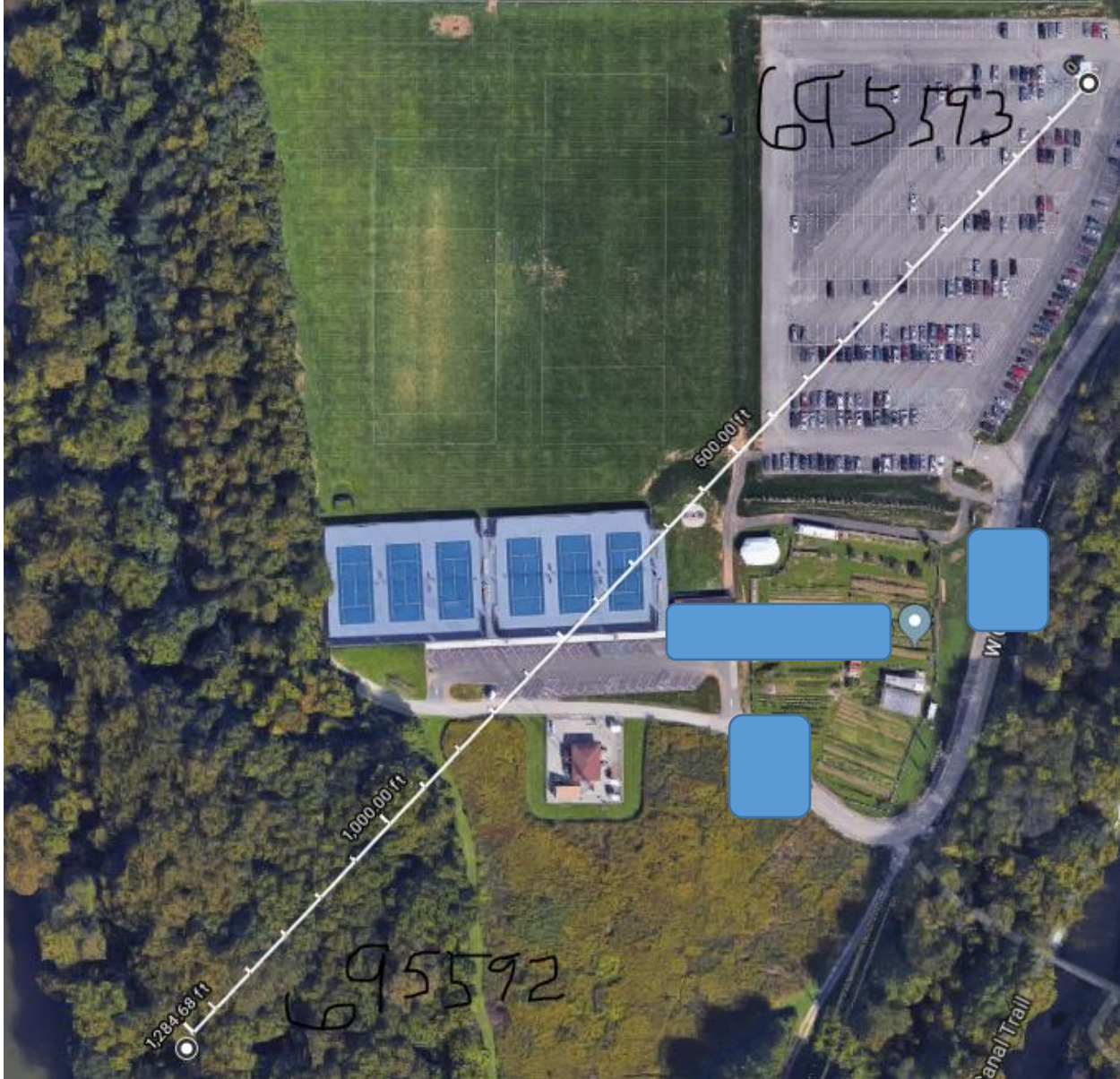
To acquire sediment and debris calculations, the area of fluid filled space is determined at each profile ring. Collectively these calculations are used to figure the overall volume (or space) inside of the pipe. The ideal volume is the full diameter of the pipe over the total distance. The fluid volume is deducted from the ideal volume to estimate the amount of sediment and debris in the pipe segment.



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During the inspection of this section of pipe, the field crew was able to get the pipe strung with a rope from manhole to manhole. At around the 800 foot mark they started to notice some roots starting to enter the pipe though the joints. The size of the roots continued to get larger the farther down the pipe that they got. At around 940 feet the roots got be enough that they could not pull the raft down the pipe any longer. The survey had to be abandoned at that point.

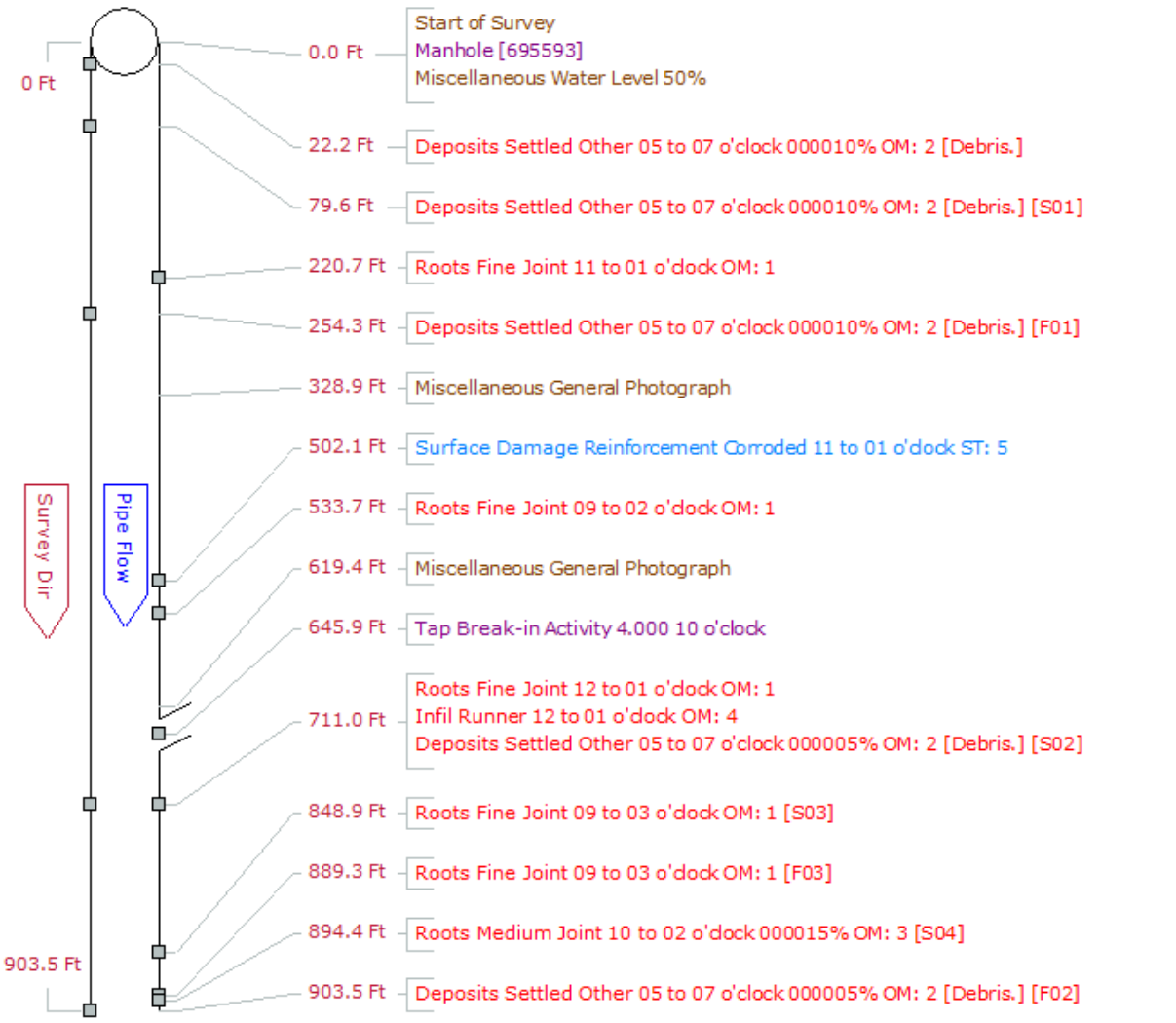


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Tabular Report of PSR		695593;695592	for	[Redacted]					
Setup	1	Surveyed By	Evan	Certificate# U-913-18727	Owner	[Redacted]			
Reviewed By		Reviewer#		Work Order					
Customer	[Redacted]			P/O #					
Media Label	04252019	Project	[Redacted] Interceptor Inspection						
Date	2019/04/25	Time	8:20	Weather	Dry - no Precipitation	Pre-Cleaning	N	Date Cleaned	
Flow control	Not Controlled	Survey Purpose	Maintenance Related	Direction	Downstream				
Street	[Redacted]	City	Indianapolis	Drainage area					
Location Code		Pipe Use	Sanitary Sewage Pipe						
Location details		Height	36	Width	ins				
Shape	Circular	Material	Reinforced Concrete Pipe	Lining					
Coating		Pipe Joint length	Ft	Total length	Ft	Structural	O & M		
Length Surveyed	942.90 Ft	Year Constructed		Year Renewed		Miscellaneous	Constructional		
Up	695593	Rim to invert		Grade to invert					
Down	695592	Rim to invert		Grade to invert					



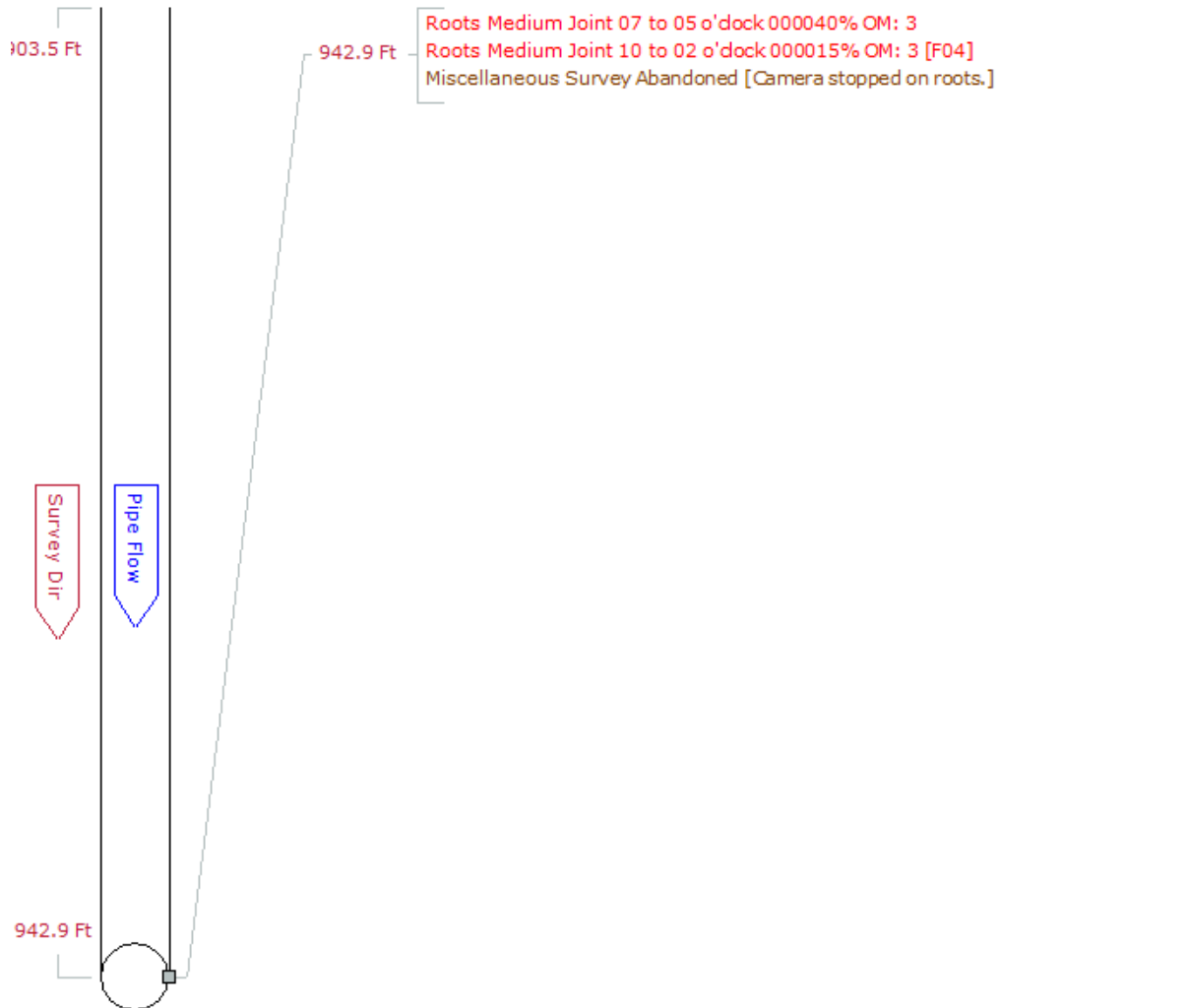


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Survey Purpose	Maintenance Related	Direction	Downstream			
Street	[Redacted]	City	Indianapolis		Drainage area	[Redacted]
Location Code	[Redacted]	Pipe Use	Sanitary Sewage Pipe			
Location details		Height	36	Width	ins	
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Coating		Pipe Joint length	Ft	Total length	Ft	
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Image at 220.70' shows fine roots.



Image at 502.10' shows surface reinforcement.



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Image at 848.90' shows fine roots.



Image at 894.90' shows medium roots.



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Date: 04/26/2019 Time: 7:00 AM
Operator: Evan
Total Length: 942.90

Diameter: 36 Inches
Avg. Debris Depth: 2.16 Inches
Avg. Water Level: 21.22 Inches
Approx. Debris Vol.: 43.20 Cubic Ft.

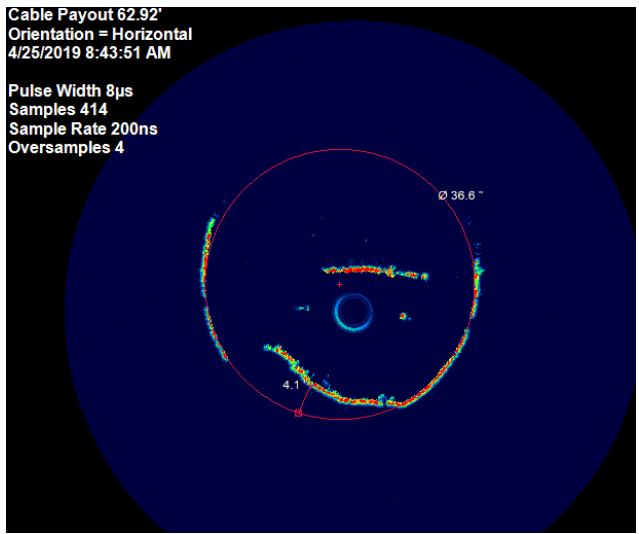
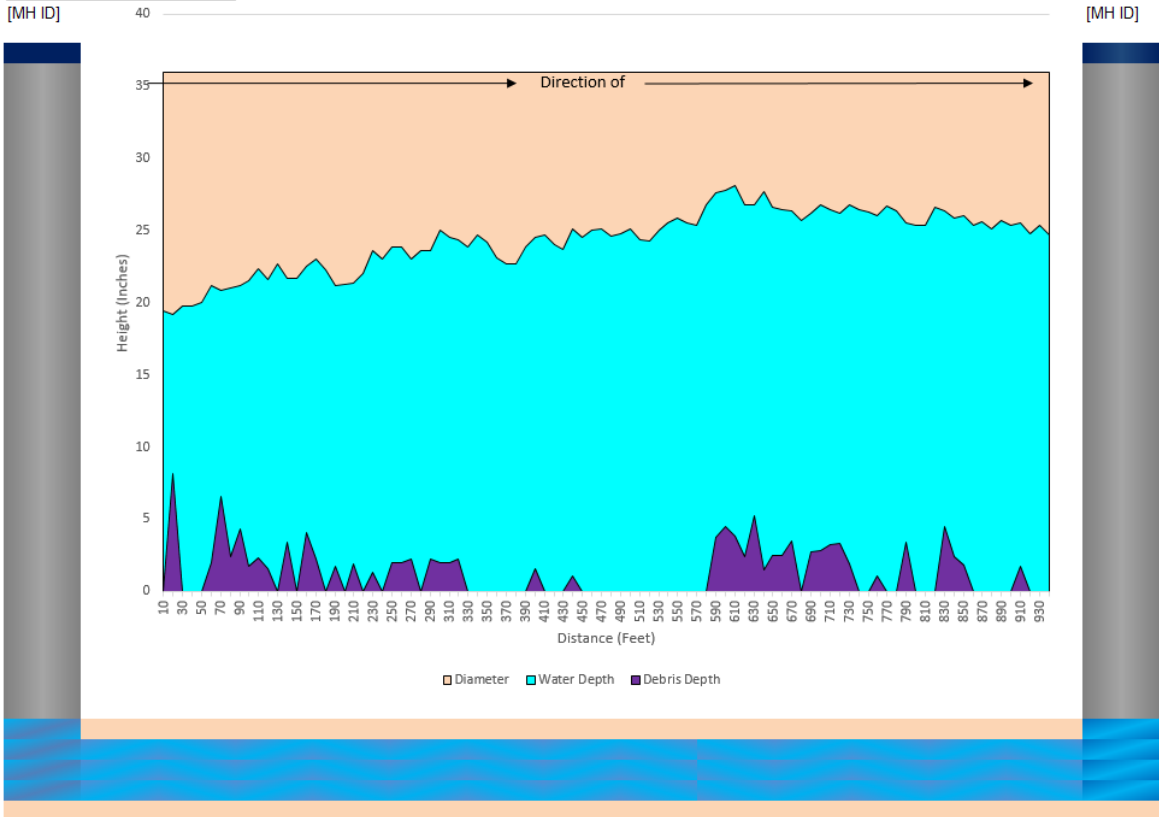


Image at 62.92' shows 4.1" of debris.



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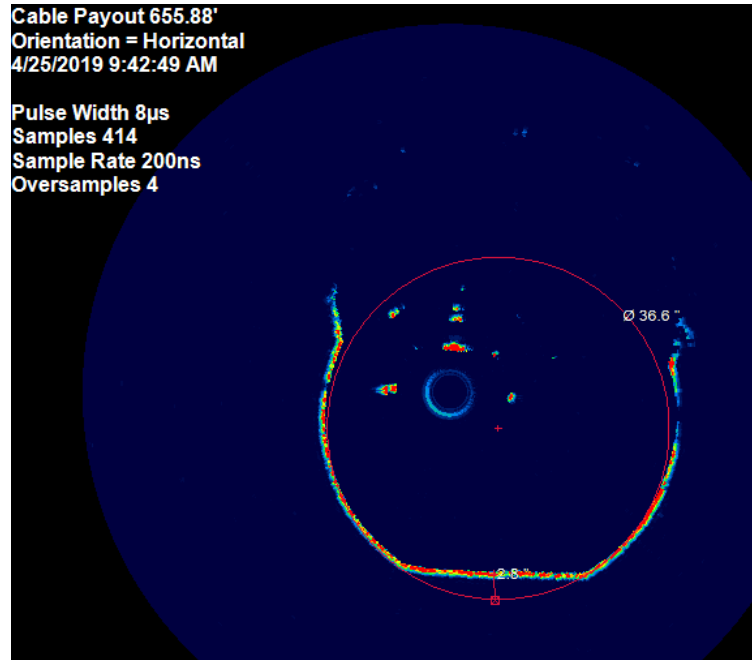


Image at 655.88' shows 2.5" of debris.

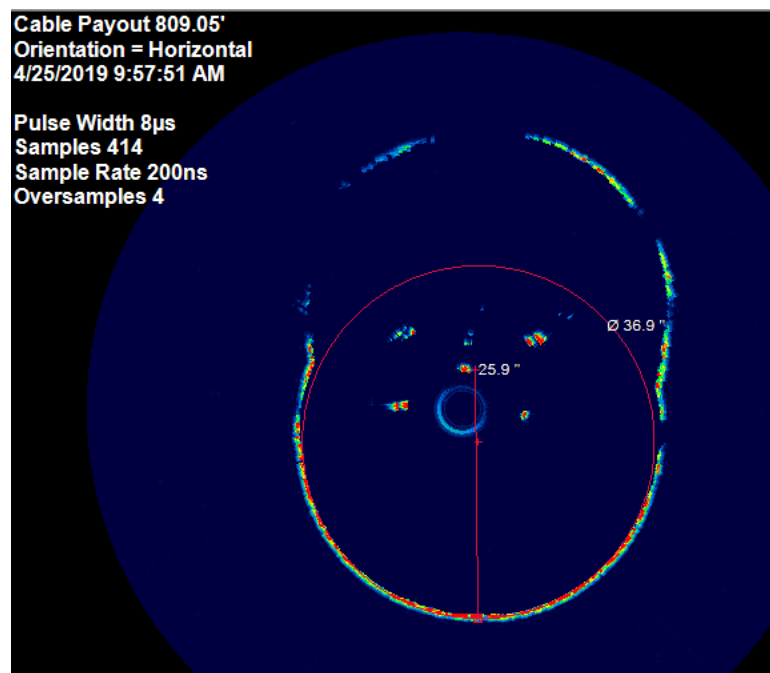


Image at 809.05' shows 25.9" of water.