

This Guide

The goal of this handbook is to serve the needs of CCTV camera operators and their utilities by providing clarity around common issues when using CCTV to inspect Vitrified Clay Pipe (VCP) lines. Each specific condition is highlighted on a separate page with an illustration of the condition and a CCTV image from inside the pipeline.

The assessment guidance presented in this handbook is reliable, but no guarantee is made, or liability assumed. Direction from this handbook should not be substituted for the judgment of a professional engineer, system owner, and/or operator experienced in evaluating CCTV footage of Vitrified Clay Pipe.

Three Keys to CCTV Inspection of VCP Lines:

- The image, as seen by the camera, may be distorted, exaggerating an area of concern. The operator's observations may not accurately portray conditions **Page 2**
- The image of a joint is exaggerated by the pipe trim/end chamfer, pipe roundness, and the designed gap between pipe ends. These visual anomalies do not affect the integrity of the joint. **Pages 5 and 14**
- Avoid misinterpretation of manufacturing and handling marks. They are not breaks or cracks..... **Page 18**

Acceptance Testing

The Low-Pressure Air Test is NCPI's recommended acceptance test. It is the definitive low-cost test for pipelines and can frequently prevent costly mistakes. It is a clear pass/fail test evaluating the structural soundness of all pipe sections and integrity of each compression joint.