



Certificate of Inflow and Infiltration Compliance Guide

Purpose

These instructions and standards are intended for property owners and licensed contractors completing the City-required Certificate of Inflow and Infiltration Compliance inspection. Inspectors must follow these procedures and submit all documentation required by the City of Deephaven. Access to the lowest level of the structure, all sewer cleanouts, sump pump(s), and related plumbing is required. The televised portion of the inspection shall note any defects in the sanitary sewer lateral contributing to infiltration and exfiltration. The goal of this program is to reduce clear water entering the sanitary sewer through cross connections (inflow) or through pipe defects (infiltration).

Video/ Picture Standards

- The video report will be in a MPEG format
- Still photos will be in a JPEG format
- Video reports can be submitted on a thumb drive or USB hard drive
- Reference the start and end of each video segment as it begins
- Footages along the sewer service line must be shown on the video report
- The video camera shall be guided forward at a moderate to slow pace along the bottom of the pipe.
- The camera shall stop at any connection and bends
- The camera shall stop at any unusual instances that are viewed while in progress and provide a more detailed and longer view of the specific instances (i.e. – bad joint, dirt in lines, settlement in line, etc.

Sewer Service Inspection Criteria and Process

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| <ul style="list-style-type: none"> • Inflow & Infiltration Compliance Inspection form must be completely filled out for the inspection to be complete. • The inspector is required to note all defects and footage location in the sanitary sewer lateral on the compliance inspection form and an audio description recorded on USB Thumb drive or hard drive. • The sewer service inspection must be the service pipe from before it exits the building to the sewer main. • All connections must be verified by flowing water into drains, referencing the source, and reporting them on the video • Any connection that cannot be verified is considered to be an unknown connection and must be exposed to verify source. • All clean outs are required to be opened and inspected (include photos of opened cleanout riser); cleanout inspection requires documented footage location on the form and audio description recorded on USB Thumb Drive or hard drive | <ul style="list-style-type: none"> • All floor drains will need to be opened and inspected (Include photos of the drain, the surrounding area, and the nearest foundation wall). • Any Foundation drains found will need to be opened and the discharge point verified (include photos) • All external drains will need to be opened and the discharge point verified • Defects /items that required documentation include, but are not limited to: <ul style="list-style-type: none"> ➤ Roots, mineral deposits, or debris ➤ Offset pipe joints or deflections ➤ Cracked, chipped or collapsed pipe sections ➤ Pipe size transitions ➤ Missing or broken connections ➤ Length of service and all clean out locations |
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Sewer Service Further Investigation Issues

Properties found in need of further investigation have one or more of the following:

- Unable to access sewer lateral due to un-located cleanouts (behind walls, under flooring, etc)
- Unable to complete inspection of sewer lateral due to roots, solid deposition, crushed pipe, etc
- Unknown connections (unable to verify connection flowing water into sewer lateral)

Sump Pump/ Inspection Criteria and Process

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| <ul style="list-style-type: none"> • Inflow & Infiltration Compliance Inspection form must have the “Sump Pumps” sections completely filled out for the inspection to be complete. • Every sump pump on the property is required to be inspected (including photos of the opened basket, the surrounding area, and the discharge pipe, both interior and exterior). Total number of sump pumps must be noted. • Sump Pump discharge piping is required to be rigid pipe. Flexible pipe, shut-off valves, plumbing tees and wyes are not allowed. | <ul style="list-style-type: none"> • Correctly plumbed sump pump discharges outside of the building using rigid pipe. Pipe discharge should be a minimum of 10 – feet from the building • Sump pumps that do not discharge outside are incorrectly plumbed and are considered non-complaint |
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Completed Inspection

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| <ul style="list-style-type: none"> • Property owner is to sign the completed Inflow & Infiltration Compliance form and retain a copy for their records. • A copy of the completed Inflow & Infiltration Compliance inspection form and video via Thumb Drive or USB hard drive is required to be delivered to the City of Deephaven for review. • The City’s Utilities Supervisor or his/her designee will review the video and compare it with the completed Inflow & Infiltration Compliance Inspection form | <ul style="list-style-type: none"> • The City will issue either a Certificate of Compliance or a Notice of Correction once the review is complete. If a correction notice is issued, the required repairs must be made and a post -repair televised inspection must be performed in order to receive Certificate of Compliance. • The competed forms will be mailed to the address on the Inflow & Infiltration Compliance Inspection form, unless a different address is noted. |
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Contractor’s Signature

Contractor completing the Inflow & Infiltration Compliance Inspection has read and understands the conditions of the Private Property Inflow & Infiltration Procedures for contractors

Company Name

Inspector Name

License number

Bond

Date

Staff Use Only

Date Received

Staff Name and Signature

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