



Cure in place (CIP) pipe lining information handout

Prior to the project, the contractor must:

- **Apply for a Clear Water Waste (CWW) Disposal Permit**
Submit an online application at least three to four weeks in advance of the project. Provide a wide window for prospective pumping, and outline any sanitary manholes that could potentially be utilized to dispose of project water. [Click here to apply for a Clear Water Waste Disposal Permit.](#)
(Please note that these forms will only work using Internet Explorer, and will NOT work using Edge, Firefox, or Chrome)
- **Apply for a Drainage Permit**
Submit an online application three to four weeks in advance of the project. Provide a wide window for prospective pumping, and outline any catch basins that may be utilized during the project.
[Click here to apply for a Drainage Permit.](#)
- **Apply for a Street Use/Traffic Permit**
Apply to the Roads department three to four weeks in advance of the project, to get the appropriate approvals.
- **Apply for an Excavation Permit**
Apply to the Roads department four to six weeks in advance of the project, to get the appropriate approvals.

During the project

1. The City of Calgary will shut off the mains. Contractors are prohibited from altering main valves.
2. Contractors will keep a logbook detailing every access, and all discharges to the sanitary/storm systems. Include the date, time, specific access point, and water quality data, as described below.
3. Contractors must not open a manhole cover without first checking the headspace for H₂S using a gas monitoring device, and logging the result. For the safety of the contractor and the public, manholes must not be opened if there is any reading. In the event of a reading, call Confined Entry at (403) 312-8780 to mitigate.
4. Any manhole that is uncovered must be cordoned off to prevent public access.
5. When pumping water, some form of prefilter on the pump inlet, as well as a sock filter on the outlet, are required.
6. Contractors are never to pump water without personnel monitoring the discharge. Log a visual description, ph, turbidity, and Cl results every 15minutes.

7. **Storm discharge water quality** – Water quality results must not exceed 0.2mg/L Cl, 100 NTU Turbidity, and must not fall outside the range of 6.5-9 for pH for storm discharges (Although these are the anticipated parameters of concern, all discharges must adhere with the Alberta Surface Water Quality Guidelines.).
Sanitary discharge water quality – Water quality results must not exceed 5mg/L Cl, 300mg/L Total Suspended Solids (TSS), and must not fall outside the range of 6-9.5 for pH for sanitary discharges (Although these are the anticipated parameters of concern, all discharges must adhere with the limits set forth in Schedules A, B, and C of the [Wastewater Bylaw 14M2012](#)).
8. When depressurizing the line; water may be discharged to the storm system provided a Drainage Permit is in place, and the water is dechlorinated.
9. When cleaning the pipe; water **MUST** be sent to the sanitary system. This water may **NOT** go to the Storm System.
10. Any cure water that must be disposed of **MUST** go to the Sanitary System. It may **NOT** go to the Storm System.
11. Final flushing water may be discharged to the storm system provided a Drainage Permit is in place, and the water is dechlorinated below 0.2mg/L.
12. Pressure Test – Flushing must achieve a velocity of 0.75m/sec. This will require at least one three-inch (3”) hose for lines less than 300mm and at least two three-inch (3”) hoses for lines greater than 300mm.

In case of emergencies

An emergency is considered any situation where there is imminent danger to life and/or the destruction of property. In case of emergencies, you may discharge to the sanitary system without following the abovementioned procedure; instead call 311 and report the release to the Industrial Monitoring Group as soon as is practicable.

City of Calgary regulations

- Wastewater Bylaw number 14M2012
- Drainage Bylaw number 37M2005

For more information please contact 311 or:

- **The Industrial Monitoring Group at img@calgary.ca**
- **The Stormwater Pollution Prevention team at stmpp@calgary.ca**