

North Hudson Sewerage Authority

Connection Review Checklist for Dewatering Applications

1. GENERAL

- A. The following general information must be submitted as part of the application:
 - i) Two (2) copies of Plans and Specifications for proposed connection, certified by a Licensed Land Surveyor or Professional Engineer that includes, but is not limited to, the following information:
 - a) Name of Applicant
 - b) Name of Project
 - c) Name of Owner, if different from that of Applicant
 - d) Block and Lot numbers on the current Tax Assessment Map
 - e) North Arrow
 - f) Date of preparation of map and revision dates
 - g) Graphic scale
 - h) Benchmark datum with elevation
 - i) Proof of compliance with pretreatment program, if applicable.
- B. See below for required technical information, as applicable.

2. Treatment Works Approval (TWA) Applications

- A. Submittal of completed application to the North Hudson Sewerage Authority is required for all sewer discharges. Submittal to the State for approval is only required for sanitary sewer discharge greater than 8,000 gallons per day (gpd).
- B. Two (2) copies of forms TWA-1, WQM-006, WQM-003 must be submitted.
- C. Forms must be signed and sealed by a Licensed Professional Engineer.

3. General Notes

- A. The following notes must be on the plan:
 - i) "The Contractor is responsible for the stabilization of the sewer during connection."
 - ii) "North Hudson Sewerage Authority will be notified at least 72 hours prior to connection to the sewer."

4. Connections - General

- A. The following notes must be on the plan:
 - i) “The Contractor is responsible for the stabilization of the sewer during connection.”
 - ii) “North Hudson Sewerage Authority will be notified at least 72 hours prior to connection to the sewer.”

5. Sewer Connections

- A. Laterals should be connected to the sewer with a tee connection if the lateral is less than or equal to 18 inches in diameter. If the lateral is greater than 18 inches in diameter, then the connection should be made using a doghouse manhole.
- B. Storm sewer laterals must have adequate capacity to handle drainage from property during a 2-year storm event. A detention system may be required. Sizing calculations should be submitted by the Applicant, signed and sealed by a Licensed Professional Engineer. Calculations performed by a Licensed Architect will not be accepted.
- C. Method of collection of storm water on property must be shown on the plans (i.e., catch basins in parking lots, roof drains, etc.).
- D. Grading on the lot (minimum 2 foot contours) should be shown to ensure proper drainage of storm water from the site.
- E. Location of the connection from the collection system to the sewer must be shown on the plans.
- F. Detail of the connection to the sewer must be shown on the plans.
- G. The following information pertaining to the storm sewer lateral must be shown on the plans:
 - i) Material
 - ii) Size
 - iii) Slope
 - iv) Invert elevation at collection system discharge
 - v) Invert elevation at sewer connection
 - vi) Location of lateral relative to other utilities in profile view

6. Connections to Manholes (if applicable)

- A. A drop connection is needed if the difference between the invert of the lateral and the invert of the manhole is greater than two (2) feet.
- B. The location of the lateral in the manhole must be such that it does not conflict with other pipes entering the manhole or with other manhole features such as manhole steps and benches.

7. Dewatering

- A. All dewatering submittals must include the following:
 - i) Water quality data showing that the water from the dewatering operation meets the Authority's standards. Table 1 represents the Authority's requirements for discharge.
 - ii) Dewatering plan that indicates the anticipated duration of the dewatering operation and a sampling schedule to monitor the water quality to ensure that it is continuously meeting the Authority's limitations throughout the entire dewatering operation.
 - iii) A contingency plan which addresses the handling of the water in the case where the Authority's requirements are exceeded.
- B. A flow meter must be installed on the discharge piping. The meter should be able to provide instantaneous flow rates and should have a flow totalizer. Show the flow meter location and details on the plans.
- C. Information on the dewatering pump as outlined in the next section of this checklist.
- D. The Applicant must submit an estimated flow rate in gallons per day (gpd) through the connection to the Authority's sewer system. The flow rate will be used to determine the connection or tapping fee per 300 gpd at the current established rate.

TABLE 1 Sanitary Sewer Connection Limitations

Pollutant	NHSA Limit (mg/L)	Sample Type
Arsenic	0.043	Composite
Cadmium	0.016	Composite
Chromium (Total)	2.00	Composite
Copper	2.04	Composite
Lead	0.365	Composite
MBAS (surfactants)	100	Grab ²
Mercury	0.034	Composite
Nickel	0.723	Composite
Tetrachlorethane ³	0.4	Grab ²
Zinc	3.61	Composite
BOD	250	Composite
Oil & Grease	50	Grab ²
TSS (Total Suspended Solids)	190	Composite

Notes:

- 2 Grab samples will be collected for analysis of organic pollutants.
- 3 Includes two isomers, 1, 1, 2, 2 - tetrachloroethane and 1, 1, 1, 2 - tetrachloroethane

8. Pumped Connections and Dewatering Pumps

- A. Pump calculations and pump curves must be submitted for the pumping system.
- B. Back up pumps must be provided in the event of pump failure and a back up generator must be provided in the event of power failure during discharge.
- C. The control and alarm system must be detailed in the submittal.
- D. Pumps must be selected so that the force of discharge into the sewer will not adversely impact the structural integrity of the sewer.