



Fact Sheet: Capacity Analysis Report

N.J.A.C. 7:14A-22.16
(September 2024)

Introduction

A capacity analysis is required when the average flow, over 12 consecutive months, is at or above 95% of a treatment plant's permitted flow. The Department may also require a capacity analysis of a treatment plant or conveyance system if criteria under 7:14A-22.16(b) or (d) are met.

Capacity Analysis Report (CAR)

The capacity analysis is to be conducted in coordination with all impacted municipalities and sewage authorities. It shall be submitted to the Department within 180 days following the last day of the final month of the 12 consecutive month period and must include:

- An assessment of the treatment works
 - Dry weather treatment capacity at the plant;
 - Wet weather treatment capacity at the plant;
 - Sources and extent of inflow and infiltration;
 - Amount of flow for connections that Treatment Works Approvals (TWAs) have been issued but are not yet in operation;
 - Projected flows to accommodate growth within the service area over the next 20-year period;
 - Current operation and maintenance practices that maximize conveyance and treatment;
 - Planned improvements to the treatment works;
 - Pending applications for NJPDES permits and TWAs related to the capacity of the treatment works; and
 - Compliance status (e.g., NJPDES permit violations and known sanitary sewer overflows).
- An evaluation of alternative measures to maximize conveyance and treatment of current flows, reduce or maintain current flows, ensure adequate conveyance capacity, and/or increase treatment plant capacity.
 - A review of current and proposed water conservation measures to reduce flow;
 - Strategies to reduce infiltration and inflow;
 - Strategies to maximize current conveyance and treatment capacity (e.g., changes to current operation and maintenance practices or increases in permitted flow at the treatment plant); and
 - Capital improvements to expand existing conveyance or treatment capacity.
- Map of the existing conveyance system
- Identification and justification of measure(s) selected
- Implementation schedule for selected measure(s) that includes significant milestones and submission of quarterly progress reports to the Department
- Description of funding mechanisms to be used
- Certification, signed in accordance with N.J.A.C. 7:14A-4.9, that selected measure(s) will be conducted in accordance with the implementation schedule

Public Notification

Upon the Department's approval of the CAR, public notice of the program is required in a manner to inform residents, developers, planning boards, and other affected persons. A copy of the CAR must be available on the website and at the office (e.g., a physical location) of the permittee or owner/operator of the conveyance system.

Additional Resources

[N.J.A.C. 7:14A Subchapter 22](#)

[Capacity Assurance Program webpage](#)

NJ DEP, Division of Water Quality
Bureau of Ground Water, Residuals and Permit Administration
401 East State Street
P.O. Box 420, Mail Code 401-03D
Trenton, NJ 08625-0420
Tel. (609) 984-4428 • Fax (609) 777-0432
dwq_cap@nj.dep.gov