

NE-2: Municipal Injection Wells

NDWWTP – 2575 NE 151ST STREET, NORTH MIAMI, FLORIDA, 33160

CLIENT NAME

Miami-Dade Water and Sewer
Department

CONTRACT NUMBER

S-956

TIMELINE

SCHEDULED ADVERTISEMENT

March 2021

SCHEDULED BID OPENING

April 2021

SCHEDULED PROJECT AWARD

July 2021



Contact Information

For additional information please call Mr. Isaac Smith at (786) 552-8989 or send electronic mail to: Isaac.Smith@miamidade.gov.

NOTE: AFTER THE ADVERTISEMENT DATE, THIS PROJECT IS UNDER THE CONE OF SILENCE (Pursuant to MDC Section 2-11.1 (t)) ANY E-MAILS SENT TO MR. ISAAC SMITH MUST ALSO COPY THE CLERK OF THE BOARD AT Clerk.Board@miamidade.gov.

PROJECT SCOPE

The Miami-Dade North District Wastewater Treatment Plant (NDWWTP) has four existing municipal injection wells. Five (5) additional municipal injection wells and two (2) monitoring wells will be constructed as a part of the NE-2 project to comply with the Ocean Outfall Legislation. A FDEP UIC construction and testing permit has been obtained by WASD.

The scope of work includes, but is not limited to, furnishing all materials, labor and equipment necessary to construct five (5) injection wells approximately 3,300 feet deep, two (2) monitoring wells approximately 1,500 feet deep and all necessary drilling pad monitoring wells, drilling pads, site work, and wellhead piping.

Specifically, the work includes but is not limited to:

1. The municipal injection wells and associated monitoring wells will be constructed separately from the process and electrical facilities.
2. Each injection well will have a permitted capacity of 18.65 mgd at a maximum flow rate of 10 feet/second and provide an additional disposal capacity of 74.6 mgd in an N+1 configuration for redundancy purposes.
3. Each injection well will be completed to a depth of approximately 3,300 feet below land surface, with a 24-inch final steel casing and will include a 24-inch isolation valve immediately above the first flange on the final casing (vertical), below the tee.
4. The injection well driller will complete the new injection wells with this isolation ball valve and blind flange, under project NE-2.

Project Scope (Continued)

- a. The wellhead, including instrumentation, tee, air vacuum release valve, flowmeter, flow control valve, check valve, and appurtenances will be installed separately as a component of the HLD IWPS project (NE-1).
5. The two Floridan aquifer monitoring wells will similarly be completed with only isolation valves by the drilling contractor.
6. The injection wells will be installed with surface casing (54-inch OD) set at approximately 350 feet bls and intermediate casing (44-inch OD) to approximately 1,100 feet bls, using the conventional mud rotary drilling method.
7. Well construction will then be converted to the reverse air circulation method. A second intermediate casing (34-inch OD) will be set at approximately 1,500 feet bls, and the final 24-inch seamless casing string will be set to a depth of approximately 2,800 feet bls.
8. The work includes all FDEP permit required sampling, coring, testing and geophysical logging.