

NORTH POINT FACILITY OUTFALL SYSTEM REHABILITATION PROJECT, SAN FRANCISCO

BASELINE Key Staff

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Status

On-going

Total Budget to Date

\$305,000

Project Reference

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The North Point Facility (NPF) is a wastewater treatment facility operated by the San Francisco Public Utilities Commission (SFPUC) as a wet-weather facility. The NPF receives sewer and storm flows which are treated and disinfected prior to discharge to the San Francisco Bay. Since initial construction in the 1950s, components of the facility have degraded, particularly the outfall system which has lost significant hydraulic capacity through the accumulation of sediment deposits on the diffuser pipes at the end of each outfall pipe. The NPF Outfall System Rehabilitation project was a maintenance project that rehabilitated the outfall system to restore discharge capacity, increase reliability, and extend service life. The project components included:

- Interior cleaning and repair of the concrete sewer portion of the outfall system;
- Interior cleaning and relining of the outfall pipes;
- Removing sediment that had accumulated over and within the diffuser pipes;
- Installing a comprehensive corrosion protection system; and
- Installing air release exhaust stacks to prevent entrainment of air when the outfall system is not in use.



BASELINE was retained by the SFPUC to assist in the preparation of necessary environmental documentation to support a request with the San Francisco Planning Department (Planning Department) that the project is categorically exempt under the California Environmental Quality Act. BASELINE's tasks during the environmental permitting stage included acquiring permits from various resource agencies including the San Francisco Bay Regional Water Quality Control Board, the San Francisco Bay Conservation and Development Commission, and

the U.S. Army Corps of Engineers. Consultation letters were also obtained from the State Historic Preservation Office and the National Marine Fisheries Service. To restore discharge capacity, BASELINE developed a water quality monitoring plan to ensure that discharge of decant water during sediment removal does not violate water quality objectives for the Bay. The Planning Department issued a Certificate of Exemption for the project in October 2015.

During construction in 2017, BASELINE was retained by the SFPUC to monitor construction activities to ensure compliance with the requirements of the various resource agency permits and SFPUC's Standard Construction Measures (SCM). The SCM addressed environmental concerns ranging from air quality, water quality, traffic, noise quality, hazardous materials, biological resources, visual and aesthetic concerns, cultural resources, and final restoration. BASELINE was also scoped to implement the water quality monitoring to support sediment removal.