

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

Bethpage Remediation Update

April 2016

Northrop Grumman is committed to addressing environmental conditions in close coordination with federal, state, and local regulatory authorities and in accordance with federal, state, and local laws and regulations.

For over 20 years, Northrop Grumman has worked closely with the New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Health (NYS-DOH), the U.S. Navy, and other federal, state, and local regulatory agencies to address environmental conditions relating to the former U.S. Navy/Grumman facility in Bethpage, N.Y.

As part of its comprehensive response to these environmental conditions, Northrop Grumman has entered into three consent orders with NYSDEC, has fully implemented its obligations under those agreements, and continues to conduct investigation and remediation activities.

History

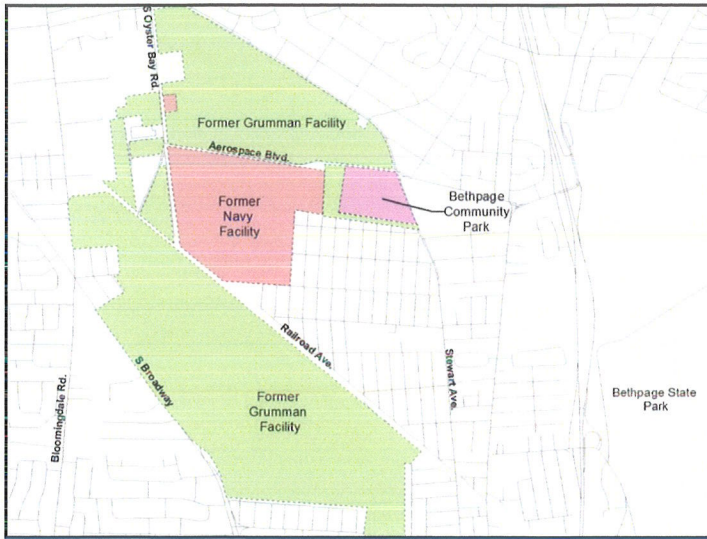
Grumman was founded in Baldwin, N.Y. in 1929. It operated in Bethpage from 1942 to 1996 as a U.S. government-owned, contractor-operated manufacturing facility. During World War II, the company produced 12,200 F6F Hellcats for the U.S. Navy at the 600-acre site, which was instrumental in achieving a decisive victory. Bethpage employees also designed and built the Apollo lunar module, which landed Neil Armstrong on the

moon in July 1969. Grumman was acquired by Northrop in 1994 and, since that time, the company has been known as Northrop Grumman.

In the 1980s, investigations were undertaken by Grumman to evaluate the presence of contamination in soil and groundwater from the U.S. Navy's and Grumman's legacy military production operations. The investigation found volatile organic compounds (VOCs) in groundwater, and VOCs, metals, and polychlorinated biphenyls (PCBs) in soil.

Grumman funded wellhead treatment in 1990 and 1994 to protect Bethpage Water District drinking water wells. In 1997, it also constructed a groundwater treatment system (the on-site containment system) at the southwestern boundary of the former U.S. Navy/Grumman facility to intercept and treat groundwater migrating from the site. Northrop Grumman continues to operate this system today. Northrop Grumman also regularly monitors a network of on-site and off-site groundwater monitoring wells and provides information regarding groundwater conditions to NYSDEC.

Northrop Grumman investigated soil and groundwater impacts in and near the Bethpage Community Park. In 2008, Northrop Grumman installed two treatment systems (for soil vapor and groundwater) along the southern and western boundaries of the Park. These systems continue to operate effectively today.



Northrop Grumman has conducted and submitted to NYSDEC a comprehensive evaluation of technical options to address soil and groundwater impacts in, and near, the Park. In 2013, NYSDEC selected the following comprehensive actions:

- Continued implementation of a soil vapor extraction system to extract and treat vapors at the southern and western boundaries of the Park. As noted above, Northrop Grumman implemented this system and has been capturing soil vapors along the southern and western boundaries of the Park property since 2008.
- Continued implementation of a groundwater pump-and-treat system along the southern and western boundaries of the Park property. Also, as noted above, Northrop Grumman installed this groundwater treatment system. It has been operating since 2008.
- Remediation of impacted soil within the Park property. In March 2016, NYSDEC approved the company's proposed remedy. The company is working with the State toward implementation of the State-approved remedy.
- Installation of one or more groundwater treatment wells to capture and treat impacted groundwater south of the Park. NYSDEC approved the company's proposed remedy, which will capture and remove VOCs from the groundwater and reduce potential future impacts to drinking water wells further south. Northrop Grumman is proceeding with implementation of the State-approved remedy.

NYSDEC has concluded that the above approach protects human health and the environment, and complies with federal, state, and local requirements.

While remedial activities are underway, residents continue to have safe drinking water as a result of wellhead treatment at public water supply wells, just as they have for decades. Wellhead treatment systems are common on Long Island and ensure that contaminants, if present at all, are at levels that achieve New York State safe drinking water standards. Routine monitoring by the water districts and New York State ensures the continued safety of the treated water.

The history of Grumman is the heritage of Long Island. The company has a proud legacy of helping to insure America's freedom and of putting Americans on the moon. This legacy is very much a part of today's Northrop Grumman and is reflected in its sustained commitment to addressing environmental issues.

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in autonomous systems, cyber, C4ISR, strike, and logistics and modernization to government and commercial customers worldwide. Please visit www.northropgrumman.com for more information.

Document Repository

Documentation of Northrop Grumman's long and close collaboration with NYSDEC, NYSDOH, the U.S. Navy, and other federal, state, and local regulatory agencies to address environmental conditions in the area are available for review at the Bethpage Public Library, 47 Powell Avenue, Bethpage, NY 11714.



Grumman's operations during World War II looking northwest in Bethpage (1943). Courtesy of the Grumman History Center.