

U.S. Navy / Northrop Grumman Bethpage Facility Site Briefing

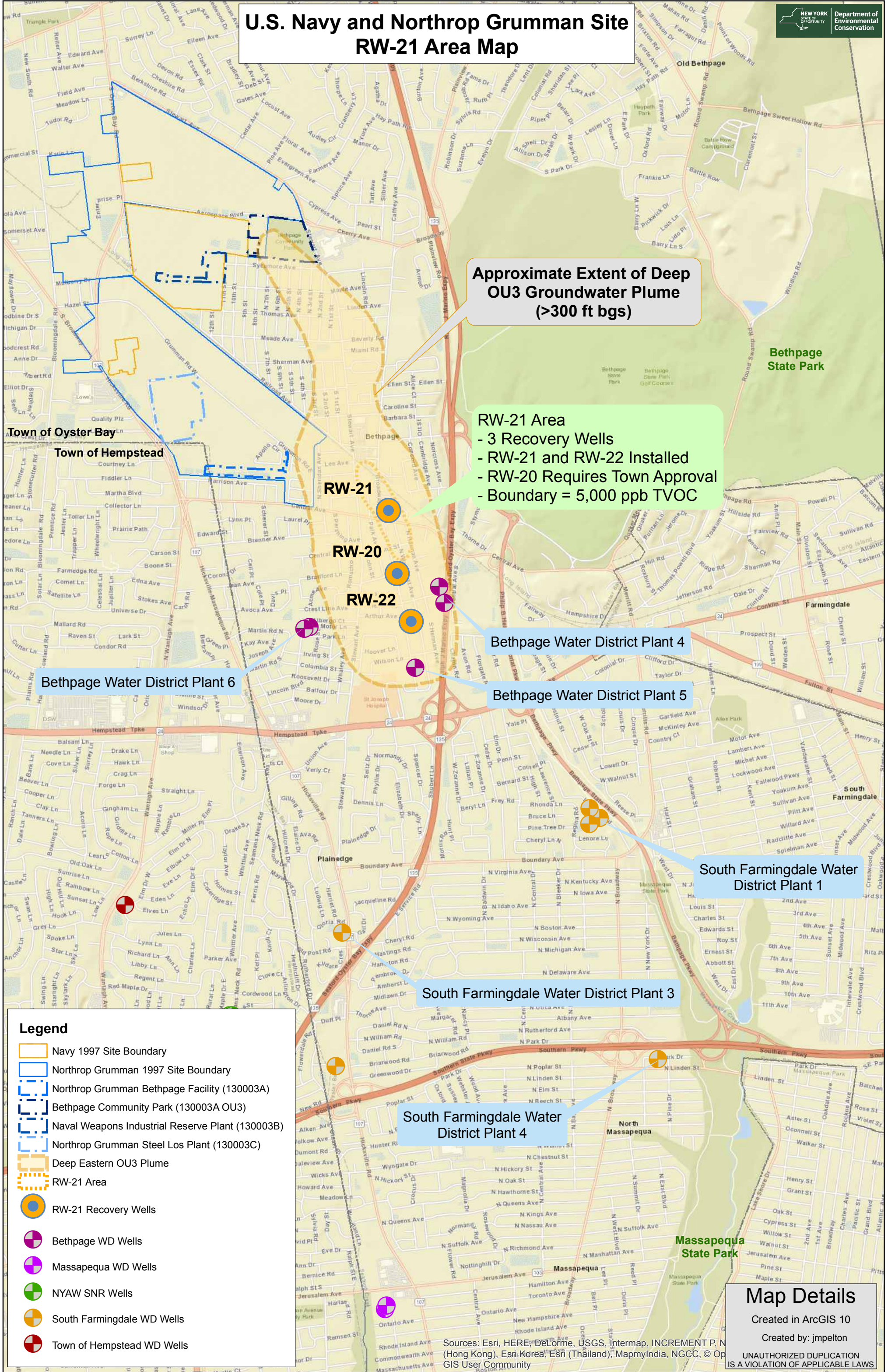
Recovery Well RW-20 Installation – Town of Oyster Bay March 4, 2017 Meeting

March 2, 2017

Background/Overview

- The Northrop Grumman remedial investigation identified a hot spot area with elevated total Volatile Organic Compounds (TVOCs) in groundwater (identified as the “RW-21 Project Area”) downgradient of the Bethpage Community Park. See attached map.
- Results of a subsequent investigation in this RW-21 Area along with groundwater modeling indicated that three remedial wells (RW-20, RW-21, and RW-22) would meet the OU3 ROD requirement for capturing and treating 90 percent of the TVOC mass migrating from the hot spot area. Collectively, these three wells would expedite cleanup and provide added protection to downgradient public water supplies.
- Between June and July 2016 Grumman submitted permit applications to the Town of Oyster Bay for installing RW-20, RW-21, and RW-22.
- The Town of Oyster Bay approved the installation of RW-21 and RW-22 and both recovery wells were installed in 2016.
- Mostly related to concerns raised by nearby residents, Town approval and the installation of RW-20 has not yet occurred and has resulted in significant delays in the remedial action schedule.
- The installation of RW-20 and the completion of the groundwater recovery and treatment system represents a critical element of the OU3 ROD groundwater remedy, as this system will capture and treat 90 percent of the TVOC mass migrating from this hot spot area of the plume.
- While there is some ability to move the well location within the vicinity of the currently proposed area, an alternative location outside of this neighborhood would not effectively capture groundwater in this area of concern. As such, the Department strongly supports the Town of Oyster Bay Town Board's approval of the required access for RW-20 installation.
- The original remedial action schedule indicated that the RW-21 Area groundwater recovery and treatment system would be operational in early 2017.
- If the Town of Oyster Bay provides approval during the March 7, 2017 Town Board meeting, RW-20 can be installed in the very near future and it is possible that removal and treatment of contaminated groundwater from the RW-21 Area can begin in late 2017.
- Northrop Grumman has informed the Department that they have the equipment in storage to begin construction of the groundwater recovery and treatment system once RW-20 is installed.

U.S. Navy and Northrop Grumman Site RW-21 Area Map



**Approximate Extent of Deep
OU3 Groundwater Plume
(>300 ft bgs)**

RW-21 Area
 - 3 Recovery Wells
 - RW-21 and RW-22 Installed
 - RW-20 Requires Town Approval
 - Boundary = 5,000 ppb TVOC

RW-21

RW-20

RW-22

Bethpage Water District Plant 4

Bethpage Water District Plant 5

Bethpage Water District Plant 6

**South Farmingdale Water
District Plant 1**

South Farmingdale Water District Plant 3

**South Farmingdale Water
District Plant 4**

- Legend**
- Navy 1997 Site Boundary
 - Northrop Grumman 1997 Site Boundary
 - Northrop Grumman Bethpage Facility (130003A)
 - Bethpage Community Park (130003A OU3)
 - Naval Weapons Industrial Reserve Plant (130003B)
 - Northrop Grumman Steel Los Plant (130003C)
 - Deep Eastern OU3 Plume
 - RW-21 Area
 - RW-21 Recovery Wells
 - Bethpage WD Wells
 - Massapequa WD Wells
 - NYAW SNR Wells
 - South Farmingdale WD Wells
 - Town of Hempstead WD Wells

Map Details
 Created in ArcGIS 10
 Created by: jmpelton
 UNAUTHORIZED DUPLICATION
 IS A VIOLATION OF APPLICABLE LAWS

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