



Infrastructure, environment, facilities

Mr. Steven Scharf, P.E.  
Bureau of Remedial Action  
Division of Environmental Remediation  
NYSDEC Central Office  
625 Broadway  
Albany, New York 12233-7015

Subject:

Report of Validated Analytical Results from Monitoring Well MW116-5,  
Bethpage, New York.

Dear Mr. Scharf:

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman),  
ARCADIS is providing the validated analytical results from groundwater samples  
collected from Monitoring Well MW116-5. This well was installed as part of the off-  
site Remedial Investigation (see Table 1 enclosed) and is located hydraulically  
upgradient of Bethpage Water District Plant 4 (see Figure 1).

If you have any questions, please contact us.

Sincerely,

ARCADIS

David E. Stern  
Associate Project Manager/Senior Hydrogeologist

Enclosures

Copies:

Richard Humann, P.E., H2M Group  
Andrew Musgrave, Bethpage Water District  
John Cofman, Northrop Grumman  
Kent Smith, Northrop Grumman  
Carlo San Giovanni, ARCADIS  
Mike Wolfert, ARCADIS  
File

ARCADIS  
Two Huntington Quadrangle  
Suite 1S10  
Melville  
New York 11747  
Tel 631-249-7600  
Fax 631-249-7610  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENT

Date:

October 2, 2008

Contact:

David Stern

Phone:

631-391-5284

Email:

[David.stern@arcadis-us.com](mailto:David.stern@arcadis-us.com)

Our ref:

NY001464.1008.00001

# ARCADIS

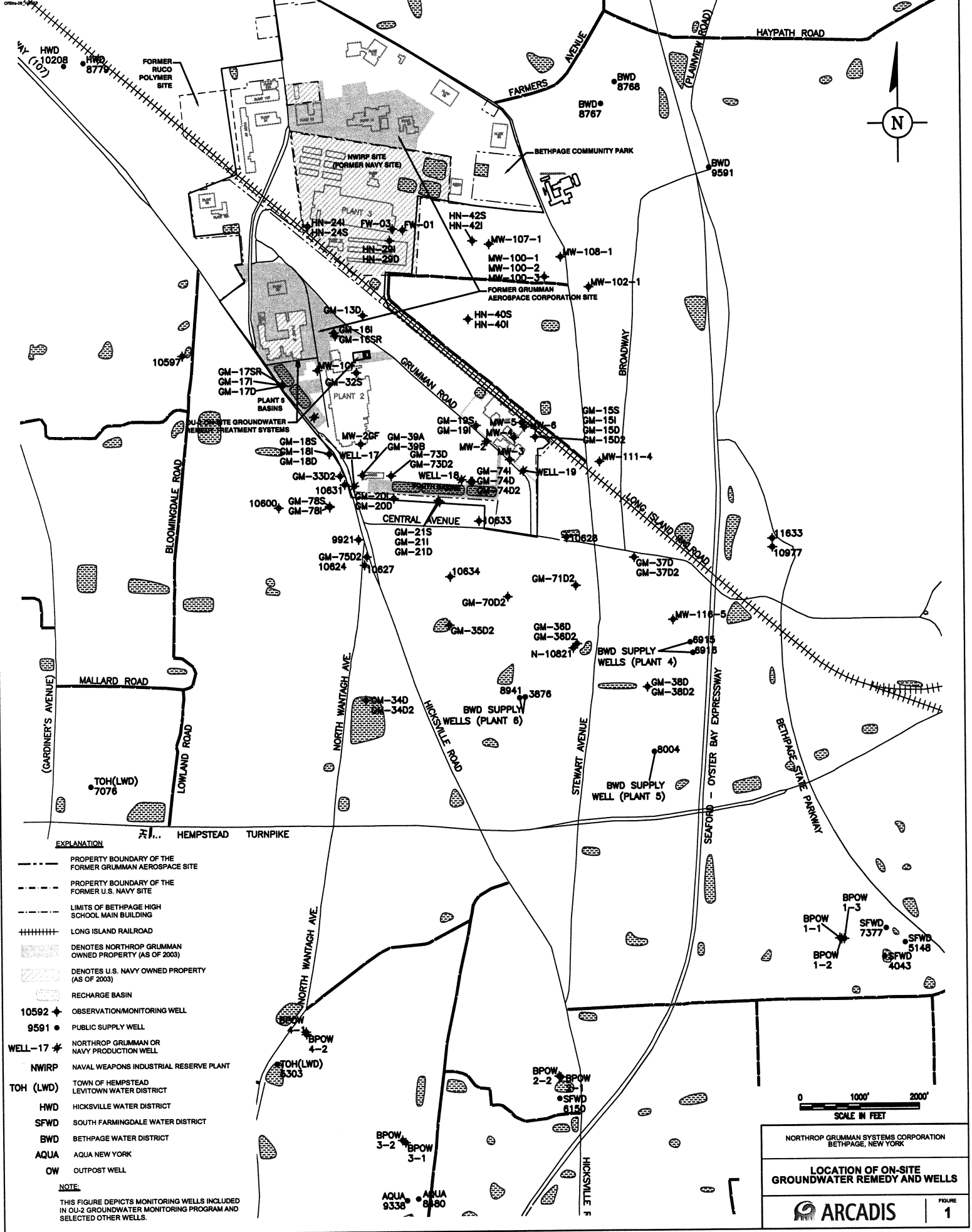
Table 1. Concentrations of VOCs in Groundwater Samples Collected from Monitoring Well MW116-5, Bethpage, New York.

Constituent Name (units in ug/L)	Location ID:	MW-116-5	MW-116-5
	Sample Date:	4/11/2008	8/4/2008
1,1,1-TRICHLOROETHANE		< 50 U	< 50 U
1,1,2,2-TETRACHLOROETHANE		< 50 U	< 50 U
1,1,2-TRICHLOROETHANE		< 50 U	< 50 U
1,1-DICHLOROETHANE		< 50 U	< 50 U
1,1-DICHLOROETHENE		< 50 U	< 50 U
1,2-DICHLOROETHANE		< 50 U	< 50 U
1,2-DICHLOROPROPANE		< 50 U	< 50 U
2-BUTANONE		< 500 U	< 500 U
2-HEXANONE		< 500 U	< 500 U
4-METHYL-2-PENTANONE		< 500 U	< 500 U
ACETONE		< 500 U	< 500 U
BENZENE		< 7 U	< 7 U
BROMODICHLOROMETHANE		< 50 U	< 50 U
BROMOFORM		< 50 U	< 50 U
BROMOMETHANE		< 50 U	< 50 U
CARBON DISULFIDE		< 500 U	< 500 U
CARBON TETRACHLORIDE		< 50 U	< 50 U
CHLOROBENZENE		< 50 U	< 50 U
CHLORODIBROMOMETHANE		< 50 U	< 50 U
CHLORODIFLUOROMETHANE (FREON 22)		< 50 U	< 50 U
CHLOROETHANE		< 50 U	< 50 U
CHLOROFORM		< 70 U	< 70 U
CHLOROMETHANE		< 50 U	< 50 U
CIS-1,2-DICHLOROETHENE		<b>130</b>	<b>130</b>
CIS-1,3-DICHLOROPROPENE		< 50 U	< 50 U
DICHLORODIFLUOROMETHANE (FREON 12)		< 50 U	< 50 U
ETHYLBENZENE		< 50 U	< 50 U
METHYLENE CHLORIDE		< 50 U	< 50 U
STYRENE		< 50 U	< 50 U
TETRACHLOROETHENE		< 50 U	< 50 U
TOLUENE		< 50 U	< 50 U
TRANS-1,2-DICHLOROETHENE		< 50 U	< 50 U
TRANS-1,3-DICHLOROPROPENE		< 50 U	< 50 U
TRICHLOROETHENE		<b>1100</b>	<b>1100</b>
TRICHLOROTRIFLUOROETHANE (FREON 113)		< 50 U	< 50 U
VINYL CHLORIDE		< 20 U	< 20 U
XYLENE-O		< 50 U	< 50 U
XYLENES - M,P		< 50 U	< 50 U
Total VOCs		<b>1230</b>	<b>1230</b>

**Bold indicates a detection**

VOC Volatile Organic Compound

ug/L micrograms per liter



**EXPLANATION**

- PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
- PROPERTY BOUNDARY OF THE FORMER U.S. NAVY SITE
- LIMITS OF BETHPAGE HIGH SCHOOL MAIN BUILDING
- +++++ LONG ISLAND RAILROAD
- DENOTES NORTHROP GRUMMAN OWNED PROPERTY (AS OF 2003)
- DENOTES U.S. NAVY OWNED PROPERTY (AS OF 2003)
- RECHARGE BASIN
- 10592 ◆ OBSERVATION/MONITORING WELL
- 9591 ● PUBLIC SUPPLY WELL
- WELL-17 ★ NORTHROP GRUMMAN OR NAVY PRODUCTION WELL
- NWIRP NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
- TOH (LWD) TOWN OF HEMPSTEAD LEVITOWN WATER DISTRICT
- HWD HICKSVILLE WATER DISTRICT
- SFWD SOUTH FARMINGDALE WATER DISTRICT
- BWD BETHPAGE WATER DISTRICT
- AQUA AQUA NEW YORK
- OW OUTPOST WELL

**NOTE:**  
THIS FIGURE DEPICTS MONITORING WELLS INCLUDED IN OU-2 GROUNDWATER MONITORING PROGRAM AND SELECTED OTHER WELLS.

0 1000' 2000'  
SCALE IN FEET

NORTHROP GRUMMAN SYSTEMS CORPORATION  
BETHPAGE, NEW YORK

**LOCATION OF ON-SITE  
GROUNDWATER REMEDY AND WELLS**

**ARCADIS**

FIGURE  
**1**