



Mr. Steven Scharf, P.E.
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Division of Environmental Remediation
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Subject:
Results of Third Quarter 2007 Groundwater Monitoring,
Operable Unit 2, Northrop Grumman Systems Corporation (Northrop Grumman) and
Naval Weapons Industrial Reserve Plant (NWIRP) Sites, Bethpage, New York.
(NYSDEC Site #s 1-30-003A and B)

ENVIRONMENT

Dear Mr. Scharf:

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman),
ARCADIS is providing the NYSDEC with the results of hydraulic monitoring as well
as validated analytical results for the groundwater performance and effectiveness
monitoring completed in accordance with the approved groundwater monitoring plan
(ARCADIS G&M, Inc. 2006) for the Third Quarter of 2007 for Operable Unit 2 (OU2).

Date:
March 12, 2008

Contact:
David E. Stern

Phone:
(631) 391-5284

Table 1 provides the OU2 remedial systems performance and operational data for
this period. Tables 2 and 3 provide the analytical results of volatile organic
compounds (VOCs) concentrations in monitoring wells and outpost wells,
respectively, for this period. Table 4 provides the analytical results of inorganic
monitoring for this period. Table 5 provides the results of water-level monitoring
performed this period. Figure 1 shows the site plan with well locations.

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Our ref:
NY001464.0407.00004

Please contact us if you have any questions or comments.

Sincerely,

ARCADIS U.S., Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager

Enclosures

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Imagine the result

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Steven Scharf, P.E.
March 12, 2008

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Table 1. Summary of Operational Data and Water Balance for the On-Site Portion of the OU2 Groundwater Remedy, Third Quarter 2007, Operable Unit 2, Northrop Grumman Corporation, Bethpage, New York.

Identification	Design Pumping/Recharge Rate (a) (gpm)	Current Actual Pumping/Recharge Rate (b) (gpm)	Design Total Pumpage/Recharge (MG)	Current Actual Total Pumpage/Recharge (MG)	Current Percent of Design Pumpage/Recharge	Current TCE Concentration (ug/L)	Current TVOC Concentration (c) (ug/L)	Third Quarter 2007		Cumulative Year-to-Date TVOC Mass Removed (e-f) (lbs)
								Estimated VOC Mass (lbs)	Removed (d) (lbs)	
Remedial Wells										
Groundwater Removed from Aquifer										
Well 1	800	819	104.8	107.3	102%	420	530	474	1,421	
Well 3	700	720	91.7	94.4	103%	3,000	3,100.0	2,437	7,211	
Well 17	1,000	1,016	131.0	133.2	102%	310	330	366	1,115	
Well 18	600	621	78.6	81.4	104%	110	119	81	263	
Well 19	700	707	91.7	92.6	101%	170	195.6	151	462	
Rounded Totals:	3,800	3,883	498	509	102%	--	--	3,509	10,472	
Recharge Basins (a)										
Treated Water Recharged to Aquifer										
West Recharge Basins	412	531	54	69.6	129%	--	--	--	--	--
South Recharge Basins	2,231	2,861	292.4	374.9	128%	--	--	--	--	--
Rounded Totals:	2,643	3,392	346	444.5	128%	--	--	--	--	--
Treated Water Sent to Calpine										
Calpine Demand	600-1000	484	77.8 - 131	63.4	--	--	--	--	--	--
Treatment Efficiencies										
Average SPDES Outfall TVOC Concentrations (ug/L) (f)										
Tower 96 System Efficiency (e) :									1	
Tower 102 System Efficiency (e) :									0.4	

see footnotes on last page

Table 1. Summary of Operational Data and Water Balance for the On-Site Portion of the OU2 Groundwater Remedy, Third Quarter 2007, Operable Unit 2, Northrop Grumman Corporation, Bethpage, New York.

- (a) - Remedial well pumping rates based on computer modeling (ARCADIS G&M, Inc. 2003c). Acceptable minimum recharge rates based on computer modeling (ARCADIS G&M, Inc. 2004b). Design pumping and recharge rates were modified in April, 2005 and will be shown herein when procured equipment is installed and the wells returned to service at NYSDEC-approved modified pumping rates. Recharge includes remedial well pumpage (minus pipe loss) and incidental runoff from precipitation. Current average recharge rates have been determined using the entire 91-day span of time as opposed to current average pumping rates, which account for varying amounts of downtime, as indicated below.
- (b) - Actual Average Pumping Rates were calculated based on Actual Total Pumpage and hours of operation from June 25, 2007 to September 24, 2007 (91 days).
- (c) - The TVOC concentration for each well was calculated based on Third Quarter 2007 groundwater monitoring data (Table 2).
- (d) - TVOC mass removed is based on the TVOC data given above and the following formula:

$$[\text{TVOC concentration in } \mu\text{g/L}] \times (\text{gallons pumped}) \times (3.785 \text{ L/gal}) \times (1 \times 10^{-6} \text{ g}/\mu\text{g}) \times (2.2 \times 10^{-3} \text{ lb/g})$$

- (e) Air Stripping Efficiency calculated from values above using the following formula:

$$1 - \left[\frac{\text{Average SPDES TVOC Concentration at Outfall}}{[(\text{TVOC}_{\text{Well 1}} \times Q_{\text{Well 1}}) + (\text{TVOC}_{\text{Well 2}} \times Q_{\text{Well 2}})]} \right]$$

When non-detectable levels of VOCs are found in the effluent, a value of zero is used to estimate the efficiency of the air stripper.

- (f) Towers 96 and 102 outfalls are identified as Outfalls 005 and 006, respectively (commonly known as the Plant 5 Recharge Basins and South Recharge Basins, respectively). Complete SPDES reporting provided to NYSDEC by NGC under separate cover.

--	Not Available or Not Applicable	lb/g	pounds per gram
TVOC	Total Volatile Organic Compounds	lbs	pounds
g/ug	grams per microgram	MG	Million Gallons
gpm	gallons per minute	ug/L	micrograms per liter
L/gal	Liters per gallon	OU2	Operable Unit 2
SPDES	State Pollutant Discharge Elimination System	Q	Pumping Rate
NGC	Northrop Grumman Corporation	NYSDEC	New York State Department of Environmental Conservation

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	N-10627	N-10631	FW-03	GM-13D	GM-15S	GM-15I	GM-15D	GM-15D-2
	SAMPLE ID:	N-10627	N-10631	FW-03	GM-13D	GM-15S	GM-15I	GM-15D	GM-15D-2
	DATE:	9/27/2007	9/27/2007	9/11/2007	9/11/2007	9/12/2007	8/28/2007	9/12/2007	9/12/2007
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	5.9	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< 5	12	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	27	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	16	300	< 5	< 5	< 5	< 5	12
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 5	78	< 5	< 5	< 5	< 5	10
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Xylene-O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes - M,P	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs	0	0	16	422.9	0	0	0	0	22

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-17I	GM-17D	GM-18I	GM-18D	GM-20I	GM-20D	GM-21S	GM-21I
	SAMPLE ID:	GM-17I	GM-17D	GM-18I	GM-18D	GM-20I	GM-20D	GM-21S	GM-21I
	DATE:	9/13/2007	9/13/2007	9/5/2007	9/14/2007	8/28/2007	8/28/2007	9/25/2007	9/25/2007
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 5	6.4	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Xylene-O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes - M,P	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs	0	0	0	6.4	0	0	0	0	0

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-21D	GM-33D2	GM-34D	GM-34D2	GM-35D2	GM-38D	GM-38D2
	SAMPLE ID:	GM-21D	GM-33D2	GM-34D	GM-34D2	GM-35D2	GM-38D	GM-38D2
	DATE:	9/11/2007	9/27/2007	9/26/2007	9/26/2007	8/29/2007	9/14/2007	9/14/2007
1,1,1-Trichloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,1,2,2-Tetrachloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,1,2-Trichloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,1-Dichloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,1-Dichloroethene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,2-Dichloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
1,2-Dichloropropane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
2-Butanone	< 50	< 50	< 250	< 130	< 100	< 500	< 500	
2-Hexanone	< 50	< 50	< 250	< 130	< 100	< 500	< 500	
4-Methyl-2-pentanone	< 50	< 50	< 250	< 130	< 100	< 500	< 500	
Acetone	< 50	< 50	< 250	< 130	< 100	< 500	< 500	
Benzene	< 0.7	< 0.7	< 3.5	< 1.8	< 1.4	< 7	< 7	
Bromodichloromethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Bromoform	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Bromomethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Carbon disulfide	< 50	< 50	< 250	< 130	< 100	< 500	< 500	
Carbon tetrachloride	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Chlorobenzene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Chloroethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Chloroform	< 7	< 7	< 35	< 18	< 14	< 70	< 70	
Chloromethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
cis-1,2-Dichloroethene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
cis-1,3-Dichloropropene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Dibromochloromethane	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Ethylbenzene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Freon 113	< 5	41	< 25	< 13	< 10	< 50	< 50	
Methylene chloride	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Styrene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Tetrachloroethene	< 5	18	< 25	18	< 10	< 50	< 50	
Toluene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
trans-1,2-Dichloroethene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
trans-1,3-Dichloropropene	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Trichloroethene	< 5	81	1000 D	320	230	1200	1100	
Vinyl chloride	< 2	< 2	< 10	< 5	< 4	< 20	< 20	
Xylene-O	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Xylenes - M,P	< 5	< 5	< 25	< 13	< 10	< 50	< 50	
Total VOCs		0	140	1000	338	230	1200	1100

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-39	GM-39D2	GM-73D	GM-73D2	GM-74I	GM-74D	GM-74D2	GM-75D2
	SAMPLE ID:	GM-39	GM-39D2	GM-73D	GM-73D2	GM-74I	GM-74D	GM-74D2	GM-75D2
	DATE:	9/6/2007	9/14/2007	9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/27/2007
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 1.4
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 100
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 14
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	7	< 10
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Trichloroethene	14	27	10	72	< 5	< 5	7	250	
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4
Xylene-O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Xylenes - M,P	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 10
Total VOCs		14	27	10	72	0	0	14	250

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-78S	GM-78I	GM-79I	GM-79D	HN-40S	HN-40I	HN-42S	HN-42I
	SAMPLE ID:	GM-78S	GM-78I	GM-79I	GM-79D	HN-40S	HN-40I	HN-42S	HN-42I
	DATE:	9/25/2007	9/25/2007	9/6/2007	9/6/2007	9/25/2007	9/24/2007	9/24/2007	9/24/2007
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Tetrachloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	< 5	33	< 5	< 5	< 5	< 5	12
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Xylene-O	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes - M,P	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs	0	0	0	33	0	0	0	0	12

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells
Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	WELL 17	WELL 18	WELL 19	TOWER 102 INF	TOWER 102 EFF
	SAMPLE ID:	WELL17	WELL 18	WELL 19	TOWER 102 INF	TOWER 102 EFF
	DATE:	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007
1,1,1-Trichloroethane		< 10	< 5	< 5	< 10	< 5
1,1,2,2-Tetrachloroethane		< 10	< 5	< 5	< 10	< 5
1,1,2-Trichloroethane		< 10	< 5	< 5	< 10	< 5
1,1-Dichloroethane		< 10	< 5	< 5	< 10	< 5
1,1-Dichloroethene		< 10	< 5	< 5	< 10	< 5
1,2-Dichloroethane		< 10	< 5	< 5	< 10	< 5
1,2-Dichloropropane		< 10	< 5	< 5	< 10	< 5
2-Butanone		< 100	< 50	< 50	< 100	< 50
2-Hexanone		< 100	< 50	< 50	< 100	< 50
4-Methyl-2-pentanone		< 100	< 50	< 50	< 100	< 50
Acetone		< 100	< 50	< 50	< 100	< 50
Benzene		< 1.4	< 0.7	< 0.7	< 1.4	< 0.7
Bromodichloromethane		< 10	< 5	< 5	< 10	< 5
Bromoform		< 10	< 5	< 5	< 10	< 5
Bromomethane		< 10	< 5	< 5	< 10	< 5
Carbon disulfide		< 100	< 50	< 50	< 100	< 50
Carbon tetrachloride		< 10	< 5	< 5	< 10	< 5
Chlorobenzene		< 10	< 5	< 5	< 10	< 5
Chloroethane		< 10	< 5	< 5	< 10	< 5
Chloroform		< 14	< 7	< 7	< 14	< 7
Chloromethane		< 10	< 5	< 5	< 10	< 5
cis-1,2-Dichloroethene		< 10	< 5	18	< 10	< 5
cis-1,3-Dichloropropene		< 10	< 5	< 5	< 10	< 5
Dibromochloromethane		< 10	< 5	< 5	< 10	< 5
Ethylbenzene		< 10	< 5	< 5	< 10	< 5
Freon 113		< 10	< 5	< 5	< 10	< 5
Methylene chloride		< 10	< 5	< 5	< 10	< 5
Styrene		< 10	< 5	< 5	< 10	< 5
Tetrachloroethene		20	9.2	7.6	14	< 5
Toluene		< 10	< 5	< 5	< 10	< 5
trans-1,2-Dichloroethene		< 10	< 5	< 5	< 10	< 5
trans-1,3-Dichloropropene		< 10	< 5	< 5	< 10	< 5
Trichloroethene		310	110	170	220	< 5
Vinyl chloride		< 4	< 2	< 2	< 4	< 2
Xylene-O		< 10	< 5	< 5	< 10	< 5
Xylenes - M,P		< 10	< 5	< 5	< 10	< 5
Total VOCs		330	119.2	195.6	234	0

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 2. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	WELL 1	WELL 3	TOWER 96 INF	TOWER 96 EFF
	SAMPLE ID:	WELL GP-1	WELL GP-3	TOWER 96 INF	TOWER 96 EFF
	DATE:	9/5/2007	9/5/2007	9/5/2007	9/5/2007
1,1,1-Trichloroethane	< 13	< 100	< 50	< 5	
1,1,2,2-Tetrachloroethane	< 13	< 100	< 50	< 5	
1,1,2-Trichloroethane	< 13	< 100	< 50	< 5	
1,1-Dichloroethane	< 13	< 100	< 50	< 5	
1,1-Dichloroethene	< 13	< 100	< 50	< 5	
1,2-Dichloroethane	< 13	< 100	< 50	< 5	
1,2-Dichloropropane	< 13	< 100	< 50	< 5	
2-Butanone	< 130	< 1000	< 500	< 50	
2-Hexanone	< 130	< 1000	< 500	< 50	
4-Methyl-2-pentanone	< 130	< 1000	< 500	< 50	
Acetone	< 130	< 1000	< 500	< 50	
Benzene	< 1.8	< 14	< 7	< 0.7	
Bromodichloromethane	< 13	< 100	< 50	< 5	
Bromoform	< 13	< 100	< 50	< 5	
Bromomethane	< 13	< 100	< 50	< 5	
Carbon disulfide	< 130	< 1000	< 500	< 50	
Carbon tetrachloride	< 13	< 100	< 50	< 5	
Chlorobenzene	< 13	< 100	< 50	< 5	
Chloroethane	< 13	< 100	< 50	< 5	
Chloroform	< 18	< 140	< 70	< 7	
Chloromethane	< 13	< 100	< 50	< 5	
cis-1,2-Dichloroethene	< 13	< 100	73	< 5	
cis-1,3-Dichloropropene	< 13	< 100	< 50	< 5	
Dibromochloromethane	< 13	< 100	< 50	< 5	
Ethylbenzene	< 13	< 100	< 50	< 5	
Freon 113	< 13	< 100	< 50	< 5	
Methylene chloride	< 13	< 100	< 50	< 5	
Styrene	< 13	< 100	< 50	< 5	
Tetrachloroethene	110	< 100	110	< 5	
Toluene	< 13	< 100	< 50	< 5	
trans-1,2-Dichloroethene	< 13	< 100	< 50	< 5	
trans-1,3-Dichloropropene	< 13	< 100	< 50	< 5	
Trichloroethene	420	3000	2900 D	< 5	
Vinyl chloride	< 5	100	59	< 2	
Xylene-O	< 13	< 100	< 50	< 5	
Xylenes - M,P	< 13	< 100	< 50	< 5	
Total VOCs	530	3100	3142	0	

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York

CONSTITUENT (Units in ug/L)	WELL: SAMPLE ID: DATE:	BPOW-1-1	BPOW-1-2	BPOW-1-3	BPOW-3-1	BPOW-3-2	BPOW-4-1	BPOW-4-2
		9/21/2007	9/21/2007	9/26/2007	9/18/2007	9/20/2007	9/21/2007	9/21/2007
1,1,1-TRICHLOROETHANE		1.6	< 0.5	5.9	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2,2-TETRACHLOROETHANE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1,2-TRICHLOROETHANE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHANE		0.81	< 0.5	1.8	< 0.5	< 0.5	< 0.5	< 0.5
1,1-DICHLOROETHENE		1.2	< 0.5	4.3	< 0.5	< 0.5	< 0.5	< 0.5
1,2-DICHLOROETHANE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CARBON TETRACHLORIDE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROBENZENE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CHLOROFORM		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
CIS-1,2-DICHLOROETHENE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TETRACHLOROETHENE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRANS-1,2-DICHLOROETHENE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
TRICHLOROETHYLENE		1.3	< 0.5	1.1	< 0.5	< 0.5	< 0.5	< 0.5
VINYL CHLORIDE		< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5

Total Site-Related VOCs ⁽¹⁾:

4.91 ⁽³⁾ 0 12 ⁽³⁾ 0 0 0 0 0

TVOC Trigger Value ^{(2) (4)}:

0.6 0.6 0.6 1.5 1.5 1.5 1.5 1.5

- (1) Site-related VOCs were established in the Public Water Supply Contingency Plan (PWSCP) (ARCADIS G&M, Inc. 2003).
- (2) TVOC Trigger Values were established in the PWSCP (ARCADIS G&M, Inc. 2003)
- (3) The TVOC Trigger Value for Cluster 1 was initially exceeded on April 23, 2004; confirmatory sampling and reporting was conducted as per the PWSCP (ARCADIS G&M, Inc. 2003)
- (4) Outpost wells OW2-1 and OW2-2 were not sampled by Northrop Grumman this round, as the dedicated pumps were removed per NYSDEC request. The NYSDEC is currently investigating the occurrence of benzene and methyl tertiary butyl ether in these wells and the results of the study are currently pending.

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Table 4. Concentrations of Total and Dissolved Cadmium and Chromium Detected in Monitoring Wells, Third Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: N-10631 GM-15S GM-78S GM-78I MW-1GF MW-2GF MW-04 MW-05 MW-06											
	SAMPLE ID: N-10631 GM-15S GM-78S GM-78I MW-01GF MW-02GF PT1MW-04 PT1MW-05 PT1MW-06											
DATE: 9/27/2007	9/12/2007	9/25/2007	9/25/2007	9/25/2007	9/26/2007	9/26/2007	9/26/2007	9/26/2007	9/26/2007	9/12/2007	9/12/2007	9/12/2007
Cadmium	6.4	--	< 5	< 5	< 5	< 5	< 5	< 5	< 5	--	--	--
Cadmium (Dissolved)	--	--	< 5	< 5	--	--	--	--	--	--	--	--
Chromium	35.9	570	< 10	< 10	< 10	24.3	< 10	< 10	< 10	395	272	--
Chromium (Dissolved)	--	--	< 10	< 10	--	--	--	--	--	--	--	--

ug/L Micrograms per liter
Bold Constituent detected above IDL.
 -- Not analyzed

Table 5. Water-Level Measurement Data, September 28, 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)
Shallow Wells			
FW-03	124.30	52.76	71.54
N-9921	94.23	29.71	64.52
N-10597	109.85	38.18	71.67
N-10600	102.41	36.25	66.16
N-10631	103.47	34.56	68.91
N-10633	103.80	37.22	66.58
N-10634	101.20	37.61	63.59
N-10821	91.58	32.96	58.62
GM-15S	109.44	42.18	67.26
GM-16SR	115.86	44.75	71.11
GM-17SR	115.79	43.67	72.12
GM-18S	107.60	37.73	69.87
GM-19S	109.86	39.69	70.17
GM-21S	105.81	35.35	70.46
GM-78S	104.94	37.98	66.96
GM-79S (N-10628)	100.88	37.73	63.15
HN-24S	120.32	48.91	71.41
HN-40S	116.35	45.89	70.46
HN-42S	120.32	47.92	72.40
MW-3R	101.45	30.40	71.05
Intermediate Wells			
N-10624	93.61	29.32	64.29
GM-15I	109.25	42.03	67.22
GM-16I	115.81	44.87	70.94
GM-17I	115.83	43.94	71.89
GM-18I	109.03	39.11	69.92
GM-19I	109.86	40.83	69.03
GM-20I	103.88	32.94	70.94
GM-21I	105.72	36.40	69.32
GM-74I	107.42	38.22	69.20
GM-78I	105.06	38.29	66.77
GM-79I	100.88	38.19	62.69
HN-24I ⁽⁵⁾	125.80	--	--
HN-40I	115.91	45.70	70.21
HN-42I	119.61	47.30	72.31

See notes on last page

Table 5. Water-Level Measurement Data, September 28, 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)
Deep Wells			
N-10627	93.70	29.85	63.85
GM-13D	113.97	43.17	70.80
GM-15D	109.84	44.59	65.25
GM-17D	115.68	46.89	68.79
GM-18D	108.88	42.41	66.47
GM-20D	103.92	35.55	68.37
GM-21D	105.66	40.60	65.06
GM-34D	71.19	12.50	58.69
GM-36D	91.63	33.51	58.12
GM-37D	97.26	37.51	59.75
GM-38D	91.75	37.47	54.28
GM-39D _A ⁽⁴⁾	102.23	35.90	66.33
GM-39D _B ⁽⁴⁾	102.08	38.98	63.10
GM-73D	104.87	41.31	63.56
GM-74D	107.43	42.68	64.75
GM-79D	101.25	39.72	61.53
HN-29D	115.11	Not taken	--
Deep2 Wells			
GM-15D2	109.78	47.23	62.55
GM-33D2	106.85	46.56	60.29
GM-34D2 ⁽⁵⁾	71.19	14.58	56.61
GM-35D2	96.28	37.94	58.34
GM-36D2	91.60	36.59	55.01
GM-37D2	97.17	38.49	58.68
GM-38D2	91.56	40.72	50.84
GM-70D2	99.58	39.23	60.35
GM-71D2	98.45	40.17	58.28
GM-73D2	104.62	43.27	61.35
GM-74D2	107.36	48.88	58.48
GM-75D2	93.63	33.00	60.63
Well 1 ⁽¹⁾	116.78	75.00	41.78
Well 3 ⁽²⁾	117.78	88.00	29.78
Well 17 ⁽³⁾	104.10	58.00	46.10
Well 18 ⁽³⁾	110.00	58.00	52.00
Well 19	108.70	62.60	46.10

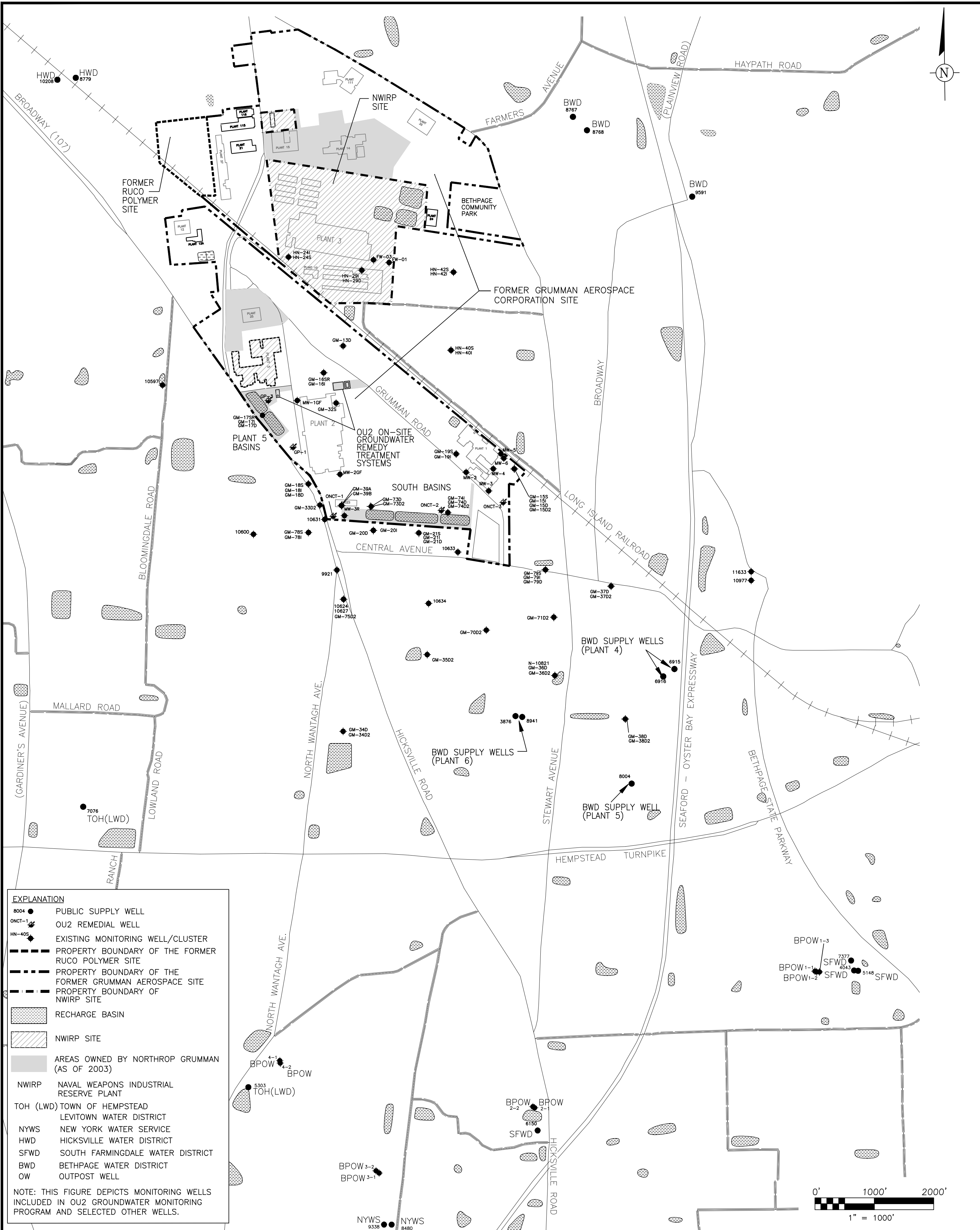
See notes on last page

Table 5. Water-Level Measurement Data, September 28, 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

Well Identification	Measuring Point Elevation (ft msl)	Depth to Water (ft bmp)	Water-Level Elevation (ft msl)
Outpost Wells			
BPOW1-1	73.65	28.80	44.85
BPOW1-2	73.54	30.00	43.54
BPOW1-3	73.37	30.05	43.32
BPOW2-1 ⁽⁵⁾	60.06	--	--
BPOW2-2 ⁽⁵⁾	59.96	--	--
BPOW3-1	63.19	27.10	36.09
BPOW3-2	63.72	28.52	35.20
BPOW4-1	67.34	27.93	39.41
BPOW4-2	67.18	27.31	39.87

- ⁽¹⁾ Water level was measured by inflating airline set at 120 ft bmp (gauge at wellhead) and subtracting the reading on the gauge from 120 to obtain the depth to water in ft bmp.
- ⁽²⁾ Water level was measured by inflating an airline set at 150 ft bmp (gauge at well head) and subtracting the reading on the gauge from 150 to obtain the depth to water in ft bmp.
- ⁽³⁾ Water level was measured by inflating airline set at 110 ft bmp (gauge at wellhead) and subtracting the reading on the gauge from 110 to obtain the depth to water in ft bmp.
- ⁽⁴⁾ Wells GM-39_A and GM-39_B are screened at the approximate midpoint and basal portion of the deep zone, respectively.
- ⁽⁵⁾ Well not accessible.

ft msl feet relative to mean sea level
 ft bmp feet below measuring point



EXPLANATION	
8004 ●	PUBLIC SUPPLY WELL
ONCT-1	OU2 REMEDIAL WELL
HN-405	EXISTING MONITORING WELL/CLUSTER
---	PROPERTY BOUNDARY OF THE FORMER RUCO POLYMER SITE
---	PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
---	PROPERTY BOUNDARY OF NWIRP SITE
[Hatched Box]	RECHARGE BASIN
[Diagonal Lines Box]	NWIRP SITE
[Grey Box]	AREAS OWNED BY NORTHROP GRUMMAN (AS OF 2003)
NWIRP	NAVAL WEAPONS INDUSTRIAL RESERVE PLANT
TOH (LWD)	TOWN OF HEMPSTEAD LEVITOWN WATER DISTRICT
NYWS	NEW YORK WATER SERVICE
HWD	HICKSVILLE WATER DISTRICT
SFWD	SOUTH FARMINGDALE WATER DISTRICT
BWD	BETHPAGE WATER DISTRICT
OW	OUTPOST WELL

NOTE: THIS FIGURE DEPICTS MONITORING WELLS INCLUDED IN OU2 GROUNDWATER MONITORING PROGRAM AND SELECTED OTHER WELLS.

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PROJECT TITLE
**OPERABLE UNIT 2
NORTHROP GRUMMAN
CORPORATION
BETHPAGE, NEW YORK**

PROJECT MANAGER
C. SAN GIOVANNI

DEPARTMENT MANAGER
M. WOLFERT

SHEET TITLE
**LOCATION OF OU-2
ON-SITE GROUNDWATER
REMEDY AND WELLS**

LEAD DESIGNER

TASK/PHASE NUMBER
00004

PROJECT NUMBER
NY001464.0407

CHECKED BY
M. SAURBORN

DRAWN BY
A. SANCHEZ

DRAWING NUMBER
1