



Infrastructure, environment, facilities

Mr. Steven Scharf, P.E.
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Division of Environmental Remediation
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Subject:

Results of First 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:

Date:

May 15, 2007

On behalf of Northrop Grumman Systems Corporation (Northrop Grumman),
ARCADIS is providing the NYSDEC with the validated results of groundwater
monitoring performed in accordance with the approved groundwater monitoring plan
(ARCADIS Geraghty & Miller, Inc. 2001; ARCADIS G&M, Inc. 2004; 2006) for the
First Quarter of 2007 for Operable Unit 2. Tables 1 and 2 provide the complete
results of monitoring for volatile organic compounds (VOCs) and cadmium and
chromium (Cd/Cr), respectively, for this period. Figure 1 shows the site plan with well
locations.

Contact:

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Our ref

NY001464.0407.00004

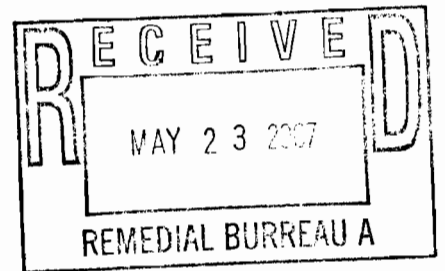
Please contact us if you have any questions or comments.

Sincerely,

ARCADIS of New York, Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager



Enclosures

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Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First 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-15I	GM-15D	GM-15D2	GM-17I
	SAMPLE ID:	N-10627	N-10631	FW-03	GM-13D	GM-15I	GM-15D	GM-15D-2	GM-17I
	DATE:	3/1/2007	3/2/2007	3/6/2007	3/1/2007	2/20/2007	2/20/2007	2/20/2007	2/9/2007
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethene	< 5	< 5	< 5	19	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	8.3	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	37	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 5	< 5	< 5	7.4	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	5.6	100	< 5	< 5	11	< 5	< 5
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethene	< 5	< 5	19	360 D	< 5	< 5	15	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylene (total)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs		0	0	24.6	531.7	0	0	26	0

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-17D	GM-18I	GM-18D	GM-20I	GM-20D	GM-21S	GM-21I	GM-21D
	SAMPLE ID:	GM-17D	GM-18I	GM-18D	GM-20I	GM-20D	GM-21S	GM-21I	GM-21D
	DATE:	2/9/2007	3/1/2007	2/13/2007	2/19/2007	2/19/2007	3/2/2007	3/1/2007	2/13/2007
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	0.38 J	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	0.36 J	< 5	7	< 5	< 5	< 5	< 5	< 5	2.2 J
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethene	< 5	< 5	0.84 J	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylene (total)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs	0.7	0	7.8	0	0	0	0	0	2.2

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: GM-33D2	GM-34D	GM-34D2	GM-35D2	GM-36D	GM-36D2	GM-37D	GM-37D2
	SAMPLE ID: GM-33D-2	GM-34D	GM-34D-2	GM-35D2	GM-36D	GM-36D2	GM-37D	GM-37D2
	DATE: 3/1/2007	3/6/2007	3/6/2007	3/13/2007	3/13/2007	3/13/2007	3/14/2007	3/14/2007
Chloromethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 10	< 4	< 4	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Acetone	< 50	< 250	< 100	< 100	< 50	< 50	< 50	< 50
Carbon disulfide	< 50	< 250	< 100	< 100	< 50	< 50	< 50	< 50
1,1-Dichloroethene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	5.6
cis-1,2-Dichloroethene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Chloroform	< 7	< 35	< 14	< 14	< 7	< 7	< 7	< 7
1,2-Dichloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 250	< 100	< 100	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Trichloroethene	92	840	260	260	< 5	< 5	< 5	< 5 J
Dibromochloromethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Benzene	< 0.7	< 3.5	< 1.4	< 1.4	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Bromoform	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 50	< 250	< 100	< 100	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 250	< 100	< 100	< 50	< 50	< 50	< 50
Tetrachloroethene	24	< 25	12	< 10	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Toluene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Styrene	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Xylene (total)	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Vinyl Acetate	< 5	< 25	< 10	< 10	< 5	< 5	< 5	< 5
Freon 113	77	25	< 10	< 10	< 5	< 5	< 5	< 5
Total VOCs	193	840	272	260	0	0	0	5.6

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

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Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-38D	GM-38D2	GM-39D _A	GM-39D _B	GM-70D2	GM-71D2	GM-73D	GM-73D2
	SAMPLE ID:	GM-38D	GM-38D2	GM-39D	GM-39D-2	GM-70D2	GM-71D2	GM-73D	GM-73D-2
	DATE:	3/10/2007	3/10/2007	2/13/2007	2/28/2007	3/14/2007	3/15/2007	2/28/2007	2/28/2007
Chloromethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 10	< 10	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 250	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide	< 250	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1-Dichloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 35	< 35	< 7	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Dichloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 250	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	1,100 D	1,200 D	17	43	40 J	6.0 J	13	67	
Dibromochloromethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	< 3.5	< 3.5	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 250	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 250	< 250	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethene	< 25	< 25	< 5	< 5	6.4	< 5	< 5	< 5	< 5
1,1,2,2-Tetrachloroethane	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylene (total)	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 25	< 25	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total VOCs		1,100	1,200	17	43	46.4	6	13	67

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-74I	GM-74D	GM-74D2	GM-75D2	GM-78S	GM-78I	GM-79I	GM-79D
	SAMPLE ID:	GM-74I	GM-74D	GM-74D-2	GM-75D-2	GM-78S	GM-78I	GM-79I	GM-79D
	DATE:	2/27/2007	2/27/2007	2/27/2007	3/1/2007	2/8/2007	2/8/2007	2/12/2007	2/12/2007
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	0.38 J
1,1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
trans-1,2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	< 5	< 5	7.4	280 D	1.1 J	0.69 J	< 5	< 5	38
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethene	< 5	< 5	7.3	< 10	< 5	< 5	< 5	< 5	1.3 J
1,1,2,2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylene (total)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	0.69 J
Total VOCs		0	0	14.7	280	1.1	0.7	0	40.4

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	HN-24I	HN-40S	HN-40I	HN-42S	HN-42I	GP 1	GP 3
	SAMPLE ID:	HN-24I	HW-40S	HW-40I	HW-42S	HW-42I	WELL 1	WELL 3
	DATE:	2/12/2007	2/7/2007	2/7/2007	2/7/2007	2/7/2007	3/5/2007	3/5/2007
Chloromethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl chloride		< 2	< 2	< 2	< 2	< 2	< 2	110
Chloroethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Acetone		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Carbon disulfide		< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1-Dichloroethene		2.1 J	< 5	< 5	< 5	< 5	< 5	17
1,1-Dichloroethane		2.7 J	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,2-Dichloroethene		1.4 J	< 5	< 5	< 5	3.9 J	7.4	14
trans-1,2-Dichloroethene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform		< 7	< 7	< 7	< 7	< 7	< 7	< 7
1,2-Dichloroethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone		< 50	< 50	< 50	< 50	< 50	< 50	< 50
1,1,1-Trichloroethane		1.7 J	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,2-Dichloropropane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1,3-Dichloropropene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene		11	< 5	< 5	< 5	10	470 D	3,300 D
Dibromochloromethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
1,1,2-Trichloroethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene		< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform		< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone		< 50	< 50	< 50	< 50	< 50	< 50	< 50
2-Hexanone		< 50	< 50	< 50	< 50	< 50	< 50	< 50
Tetrachloroethene		1.4 J	< 5	0.40 J	< 5	< 5	130	58
1,1,2,2-Tetrachloroethane		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylene (total)		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate		< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113		1.7 J	< 5	< 5	< 5	< 5	7	18
Total VOCs		22	0	0.4	0	13.9	614.4	3,517

ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and Groundwater Remedial Wells, First Quarter 2007, Operable Unit 2, Northrop Grumman Systems Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	T- 96 EFF	WELL 17	WELL 18	WELL 19	T-102 EFF
	SAMPLE ID:	TOWER 96 EFF	WELL 17	WELL 18	WELL 19	TOWER 102 EFF
	DATE:	3/5/2007	3/5/2007	3/5/2007	3/5/2007	3/5/2007
Chloromethane		< 5	< 13	< 5	< 5	< 5
Bromomethane		< 5	< 13	< 5	< 5	< 5
Vinyl chloride		< 2	< 5	< 2	< 2	< 2
Chloroethane		< 5	< 13	< 5	< 5	< 5
Methylene chloride		< 5	< 13	< 5	< 5	< 5
Acetone		< 50	< 130	< 50	< 50	< 50
Carbon disulfide		< 50	< 130	< 50	< 50	< 50
1,1-Dichloroethene		< 5	< 13	< 5	< 5	< 5
1,1-Dichloroethane		< 5	< 13	< 5	< 5	< 5
cis-1,2-Dichloroethene		< 5	< 13	< 5	19	< 5
trans-1,2-Dichloroethene		< 5	< 13	< 5	< 5	< 5
Chloroform		< 7	< 18	< 7	< 7	< 7
1,2-Dichloroethane		< 5	< 13	< 5	< 5	< 5
2-Butanone		< 50	< 130	< 50	< 50	< 50
1,1,1-Trichloroethane		< 5	< 13	< 5	< 5	< 5
Carbon tetrachloride		< 5	< 13	< 5	< 5	< 5
Bromodichloromethane		< 5	< 13	< 5	< 5	< 5
1,2-Dichloropropane		< 5	< 13	< 5	< 5	< 5
cis-1,3-Dichloropropene		< 5	< 13	< 5	< 5	< 5
Trichloroethene		< 5	370	120	160	< 5
Dibromochloromethane		< 5	< 13	< 5	< 5	< 5
1,1,2-Trichloroethane		< 5	< 13	< 5	< 5	< 5
Benzene		< 0.7	< 1.8	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene		< 5	< 13	< 5	< 5	< 5
Bromoform		< 5	< 13	< 5	< 5	< 5
4-Methyl-2-pentanone		< 50	< 130	< 50	< 50	< 50
2-Hexanone		< 50	< 130	< 50	< 50	< 50
Tetrachloroethene		< 5	21	9.8	8.6	< 5
1,1,2,2-Tetrachloroethane		< 5	< 13	< 5	< 5	< 5
Toluene		< 5	< 13	< 5	< 5	< 5
Chlorobenzene		< 5	< 13	< 5	< 5	< 5
Ethylbenzene		< 5	< 13	< 5	< 5	< 5
Styrene		< 5	< 13	< 5	< 5	< 5
Xylene (total)		< 5	< 13	< 5	< 5	< 5
Vinyl Acetate		< 5	< 13	< 5	< 5	< 5
Freon 113		< 5	< 13	< 5	< 5	< 5
Total VOCs		0	391	129.8	187.6	0

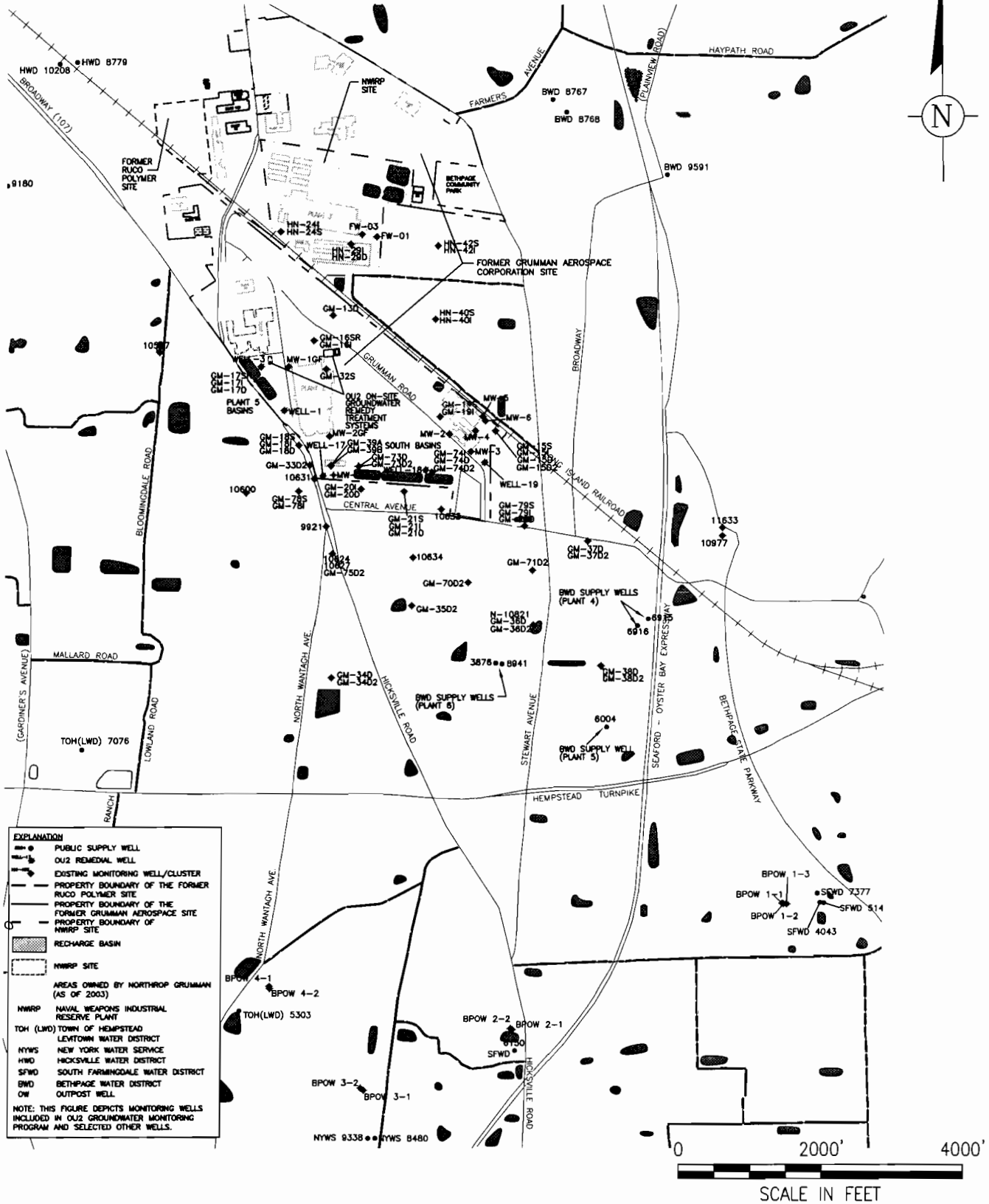
ug/L Micrograms per liter
D Constituent identified at a secondary dilution
J Estimated value
-- Not analyzed
Bold Constituent detected
VOCs Volatile Organic Compounds

ARCADIS

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

CONSTITUENT (Units in ug/L)	WELL: N-10631	GM-78S	GM-78I	MW-1GF	MW-2GF	MW-04	MW-05	MW-06
SAMPLE ID: N-10631	GM-78S	GM-78I	MW-01GF	MW-02GF	PT1MW-04	PT1MW-05	PT1MW-06	
DATE: 3/2/2007	2/8/2007	2/8/2007	3/2/2007	3/2/2007	2/8/2007	2/8/2007	2/8/2007	
Cadmium	5.2	<5	<5	<5	<5	--	--	--
Cadmium (Dissolved)	<5	<5	<5	<5	<5	--	--	--
Chromium	34	<10	<10	<10	23.2	<10	723	248
Chromium (Dissolved)	24	<10	<10	<10	20.8	--	--	--

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



EXPLANATION	
	PUBLIC SUPPLY WELL
	OU2 REMEDIAL WELL
	EXISTING MONITORING WELL/CLUSTER
	PROPERTY BOUNDARY OF THE FORMER RUCO POLYMER SITE
	PROPERTY BOUNDARY OF THE FORMER GRUMMAN AEROSPACE SITE
	PROPERTY BOUNDARY OF NWRP SITE
	RECHARGE BASIN
	NWRP SITE
	AREAS OWNED BY NORTHROP GRUMMAN (AS OF 2003)
	NWRP 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 MANAGER C. SAN GIOVANNI	DEPARTMENT MANAGER M. WOLFERT	LEAD DESIGN PROF.	CHECKED BY P. WEST
SHEET TITLE LOCATION OF OU2 ON-SITE GROUNDWATER REMEDY AND WELLS		TASK/PHASE NUMBER 00004	DRAWN BY A. SANCHEZ
		PROJECT NUMBER NY001464.0407	DRAWING NUMBER 1