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Mr. Steven Scharf, P.E.
New York State Department of Environmental Conservation (NYSDEC)
Division of Environmental Remediation
625 Broadway
Albany, New York 12233-7015

ENVIRONMENT

Subject:
First Quarter 2006 Groundwater Monitoring Data,
Operable Unit 2 Monitoring Network,
Northrop Grumman Systems Corporation, Bethpage, New York.
(NYSDEC Site # 1-30-003A)

Date:
12 July 2006

Dear Mr. Scharf:

Contact:
David E. Stern

On behalf of Northrop Grumman Systems Corporation (NGC), ARCADIS is providing the NYSDEC with the validated results of groundwater monitoring performed in accordance with the approved groundwater monitoring plan (ARCADIS Geraghty & Miller, 2001; ARCADIS G&M, Inc. 2004; 2006) for the First Quarter 2006 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.

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Please contact us if you have any questions or comments.

Our ref:
NY001348.0406.00004

Sincerely,

ARCADIS G&M, Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager

Enclosures

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Imagine the result

ARCADIS

Steven Scharf, P.E.
12 July 2006

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Table1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: MW-03R		FW-03		10631		10624		10627		10634		GM-13D		GM-15S		GM-15I	
	SAMPLE ID:	MW-3R	FW-03	N-10631	N-10624	N-10627	N-10634	GM-13D	GM-15S	GM-15I	DATE:	03/15/06	03/14/06	03/16/06	03/16/06	04/10/06	03/09/06	03/13/06
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5								
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Vinyl Chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 8	< 2	< 2	< 2								
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5	8 JB	< 5	< 5	< 5								
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	25 J	< 10	< 10	< 10								
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
1 1-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	32	< 5	< 5	< 5								
1 1-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	14 J	< 5	< 5	< 5								
cis-1 2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	60	1 J	< 5	< 5								
trans-1 2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
1 2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 40	< 10	< 10	< 10								
1 1 1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
1 2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
cis-1 3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Trichloroethene	0.8 J	4 J	0.5 J	< 5	1 J	< 5	130	12	3 J	< 5								
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
1 1 2-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Benzene	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 3	< 0.7	< 0.7	< 0.7								
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
4-Methyl-2-pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 40	< 10	< 10	< 10								
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 40	< 10	< 10	< 10								
Tetrachloroethene	< 5	10	< 5	< 5	< 5	< 5	510 D	< 5	< 5	< 5								
1 1 2 2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Xylenes (total)	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Vinyl Acetate	< 5	< 5	< 5	< 5	< 5	< 5	< 20	< 5	< 5	< 5								
Freon 113	< 5	< 5	< 5	< 5	< 5	< 5	5 J	< 5	< 5	< 5								
Total VOCs	0.8	14	0.5	0	1	0	784	13	3									

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2
Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-15D	GM-15D2	GM-16SR	GM-16I	GM-17S	GM-17I	GM-17D	GM-18S	GM-18I
	SAMPLE ID:	GM-15D	GM-15D-2	GM-16SR	GM-16I	GW-17S	GM-17I	GM-17D	GM-18S	GM-18I
	DATE:	03/13/06	03/13/06	04/10/06	04/10/06	03/15/06	03/08/06	03/08/06	03/16/06	04/11/06
Chloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 5	< 5	< 5 UB	< 5 UB	< 5	< 5	< 5 UB
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10 UB
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 1-Dichloroethene	< 5	0.8 J	< 5	3 J	< 5	< 5	< 5	< 5	< 5	< 5
1 1-Dichloroethane	< 5	< 5	< 5	1 J	< 5	< 5	< 5	< 5	< 5	2 J
cis-1 2-Dichloroethene	< 5	< 5 UM	< 5	6	< 5	< 5	< 5	< 5	< 5	< 5
trans-1 2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1 1 1-Trichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 2-Dichloropropane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1 3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	1 J	13	4 J	47	< 5	< 5	< 5 UH	< 5	< 5	0.4 J
Dibromochloromethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 1 2-Trichloroethane	< 5	< 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	< 0.7
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	1 J	18	< 5	14	< 5	< 5	< 5	< 5	< 5	< 5
1 1 2 2-Tetrachloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes (total)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	< 5	1 JH	< 5	< 5	< 5	< 5	< 5 UM	< 5	< 5	< 5
Total VOCs	2	32.8	4	71	0	0	0	0	0	2.4

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT	WELL: GM-18D	GM-20I	GM-20D	GM-21S	GM-21I	GM-21D	HM-29D	GM-32S	GM-33D2
(Units in ug/L)	SAMPLE ID: GM-18D	GM-20I	GM-20D	GW-21S	GM-21I	GM-21D	HW-29D	GM-32S	GM-33D-2
	DATE: 03/08/06	03/09/06	03/09/06	03/15/06	03/31/06	03/07/06	03/14/06	03/17/06	03/16/06
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 UB	<5 UB	<5 UB	<5	<5	<5 UB	<5	<5	<5
Acetone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon disulfide	<5	<5	<5	<5	<5	<5	<5	<5	<5
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	<5	<5	<5	<5	<5	<5	<5	<5	<5
1 2-Dichloroethane	<5	<5	<5	<5	<5	<5	<5	<5	<5
2-Butanone (MEK)	<10	<10	<10	<10	<10	<10	<10	<10	<10
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	11	<5	<5	<5	<5	2 J	<5	<5	55
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 (MIBK)	<10	<10	<10	<10	<10	<10	<10	<10	<10
2-Hexanone	<10	<10	<10	<10	<10	<10	<10	<10	<10
Tetrachloroethene	0.7 J	<5	<5	<5	<5	<5	<5	<5	10
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
Xylenes (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	42
Total VOCs	11.7	0	0	0	0	2	0	0	107

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GM-34D	GM-34D2	GM-35D2	GM-36D	GM-36D2	GM-37D	GM-37D2	GM-38D	GM-38D2
	SAMPLE ID:	GM-34D	GM-34D-2	GM-35D-2	GM-36D	GM-36D-2	GM-37D	GM-37D-2	GM-38D	GM-38D-2
	DATE:	04/07/06	04/07/06	04/06/06	04/03/06	04/03/06	04/06/06	04/05/06	04/05/06	04/05/06
Chloromethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Bromomethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Vinyl Chloride	< 10	< 4	< 4	< 2	< 2	< 2	< 2	< 20	< 20	
Chloroethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Methylene chloride	< 25 UB	< 10 UB	< 10 UB	< 5	< 5	< 5 UB	< 5 UB	< 50 UB	< 50 UB	
Acetone	< 50 UB	< 20 UB	< 20 UB	< 10	< 10	< 10	< 10 UB	< 100 UB	< 100 UB	
Carbon disulfide	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
1 1-Dichloroethene	8 J	3 J	1 J	< 5	< 5	0.4 J	3 J	6 J	< 50 UM	
1 1-Dichloroethane	< 25	< 10	< 10	< 5	< 5	< 5	8	< 50	< 50	
cis-1 2-Dichloroethene	11 J	8 J	3 J	< 5	< 5	< 5	< 5 UM	< 50 UM	6 J	
trans-1 2-Dichloroethene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Chloroform	< 25	< 10	< 10	< 5	< 5	0.3 J	< 5	< 50	< 50	
1 2-Dichloroethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
2-Butanone (MEK)	< 50	< 20	< 20	< 10	< 10	< 10	< 10	< 100	< 100	
1 1 1-Trichloroethane	< 25	< 10	< 10	< 5	< 5	< 5	3 J	< 50	< 50	
Carbon tetrachloride	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Bromodichloromethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
1 2-Dichloropropane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
cis-1 3-Dichloropropene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Trichloroethene	780 D	220 D	320 D	6	< 5	1 U	3 J	1200 D	1300 D	
Dibromochloromethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
1 1 2-Trichloroethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Benzene	< 4	< 1	< 1	< 0.7	< 0.7	< 0.7	< 0.7	< 7	< 7	
trans-1,3-Dichloropropene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Bromoform	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
4-Methyl-2-pentanone (MIBK)	< 50	< 20	< 20	< 10	< 10	< 10	< 10	< 100	< 100	
2-Hexanone	< 50	< 20	< 20	< 10	< 10	< 10	< 10	< 100	< 100	
Tetrachloroethene	12 J	11	9 J	< 5	< 5	0.6 J	0.3 J	< 50	< 50	
1 1 2 2-Tetrachloroethane	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Toluene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Chlorobenzene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Ethylbenzene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Styrene	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Xylenes (total)	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Vinyl Acetate	< 25	< 10	< 10	< 5	< 5	< 5	< 5	< 50	< 50	
Freon 113	33	6 J	7 J	< 5	< 5	< 5	< 5	< 50	< 50 UM	
Total VOCs	844	248	340	6	0	1.3	17.3	1206	1306	

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: GM-39D _A ⁽¹⁾	GM-39D _B ⁽¹⁾	GM-70D2	GM-71D2	GM-73D	GM-73D2	GM-74I	GM-74D	GM-74D2
	SAMPLE ID: GM-39D	GM-39D2	GM-70D-2	GM-71D-2	GM-73D	GM-73D-2	GM-74I	GM-74D	GM-74D-2
	DATE: 03/24/06	03/24/06	04/06/06	04/06/06	03/20/06	03/24/06	03/20/06	03/20/06	03/20/06
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 UB	< 5 UB	< 5	< 5	< 5	< 5	< 5
Acetone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 1-Dichloroethene	< 5	< 5	< 5	2 J	< 5	< 5	< 5	< 5	0.6 J
1 1-Dichloroethane	< 5	< 5	< 5	6	< 5	< 5	< 5	< 5	< 5
cis-1 2-Dichloroethene	< 5	< 5	0.5 J	1 J	< 5	< 5	< 5	< 5	< 5
trans-1 2-Dichloroethene	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 5	< 5	< 5	2 J	< 5	< 5	< 5	< 5	< 5
1 2-Dichloroethane	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone (MEK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1 1 1-Trichloroethane	< 5	< 5	< 5	1 J	< 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	10	42	62	5 J	26	140	< 5	3 J	12
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 (MIBK)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	< 5	< 5	7	< 5	< 5	0.9 J	< 5	< 5	12
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
Xylenes (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	2 J	< 5	< 5	< 5	< 5	< 5	0.8 J
Total VOCs	10	42	71.5	17	26	140.9	0	3	25.4

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: GM-75D2 SAMPLE ID: GM-75D-2 DATE: 03/16/06	GM-78S GW-78S 03/15/06	GM-78I GW-78I 03/15/06	GM-79I GM-79I 03/07/06	GM-79D GM-79D 03/07/06	HN-24I HW-24I 03/14/06	HN-29I HW-29I 03/14/06	HN-40S HN-40S 03/17/06
Chloromethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromomethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Chloride	< 4	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Chloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methylene chloride	< 10	< 5	< 5	< 5 UB	< 5 UB	< 5	< 5	< 5
Acetone	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 1-Dichloroethene	3 J	< 5	< 5	< 5	< 5	< 5 UM	< 5	< 5
1 1-Dichloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1 2-Dichloroethene	< 10 UM	< 5	< 5	< 5	< 5 UM	< 5	< 5	< 5
trans-1 2-Dichloroethene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chloroform	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 2-Dichloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
2-Butanone (MEK)	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
1 1 1-Trichloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Carbon tetrachloride	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromodichloromethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 2-Dichloropropane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
cis-1 3-Dichloropropene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Trichloroethene	200 D	0.3 J	0.9 J	< 5	57	37	0.9 JH	4 J
Dibromochloromethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
1 1 2-Trichloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Benzene	< 1	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Bromoform	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
4-Methyl-2-pentanone (MIBK)	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
2-Hexanone	< 20	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Tetrachloroethene	5 J	< 5	< 5	< 5	1 J	0.8 JH	0.9 JH	4 J
1 1 2 2-Tetrachloroethane	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Toluene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Chlorobenzene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Ethylbenzene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Styrene	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Xylenes (total)	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Vinyl Acetate	< 10	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Freon 113	2 J	< 5	< 5	< 5	1 J	1 JH	< 5	< 5
Total VOCs	210	0.3	0.9	0	59	38.8	1.8	8

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: HN-40I IMPLE ID: HN-40I DATE: 03/17/06	HN-42S HN-42S 03/17/06	HN-42I HN-42I 03/17/06	ONCT 1 WELL 17 04/12/06	ONCT 2 WELL 18 04/12/06	ONCT 3 WELL 19 04/12/06	TOWER EFF 102 TOWER EFF 04/12/06
Chloromethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Bromomethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Vinyl Chloride	< 2	< 2	< 2	< 10	< 2	< 2	< 2
Chloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Methylene chloride	< 5	< 5	< 5	< 25	< 5 UB	< 5 UB	< 5 UB
Acetone	< 10	< 10	< 10	< 50	< 10 UB	< 10 UB	< 10 UB
Carbon disulfide	< 5	< 5	< 5	< 25	< 5	< 5	< 5
1 1-Dichloroethene	< 5	< 5	< 5	< 25	4 J	< 5	< 5
1 1-Dichloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
cis-1 2-Dichloroethene	< 5	< 5	< 5	2 J	1 J	16	< 5
trans-1 2-Dichloroethene	< 5	< 5	< 5	< 25	< 5	2 J	< 5
Chloroform	< 5	< 5	< 5	< 25	< 5	0.8 J	< 5
1 2-Dichloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
2-Butanone (MEK)	< 10	< 10	< 10	< 50	< 10	< 10	< 10
1 1 1-Trichloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Carbon tetrachloride	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Bromodichloromethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
1 2-Dichloropropane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
cis-1 3-Dichloropropene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Trichloroethene	8	< 5	< 5	500 D	130	120	1 J
Dibromochloromethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
1 1 2-Trichloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Benzene	< 0.7	< 0.7	< 0.7	< 4	< 0.7	< 0.7	< 0.7
trans-1,3-Dichloropropene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Bromoform	< 5	< 5	< 5	< 25	< 5	< 5	< 5
4-Methyl-2-pentanone (MIBK)	< 10	< 10	< 10	< 50	< 10	< 10	< 10
2-Hexanone	< 10	< 10	< 10	< 50	< 10	< 10	< 10
Tetrachloroethene	< 5	< 5	< 5	18 J	9	8	< 5
1 1 2 2-Tetrachloroethane	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Toluene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Chlorobenzene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Ethylbenzene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Styrene	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Xylenes (total)	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Vinyl Acetate	< 5	< 5	< 5	< 25	< 5	< 5	< 5
Freon 113	< 5	< 5	< 5	9 J	1 J	0.6 J	< 5
Total VOCs	8	0	0	529	145	147.4	1

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

Table1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL:	GP-1	GP-3	TOWER_EFF
	SAMPLE ID: DATE:	WELL 1 04/12/06	WELL 3 04/12/06	96 TOWER EFF 04/12/06
Chloromethane		< 50	< 250	< 5
Bromomethane		< 50	< 250	< 5
Vinyl Chloride		< 20	160	< 2
Chloroethane		< 50	< 250	< 5
Methylene chloride		24 JB	97 JB	< 5 UB
Acetone		< 100 UB	< 500 UB	< 10 UB
Carbon disulfide		< 50	< 250	< 5
1 1-Dichloroethene		< 50	22 JM	< 5
1 1-Dichloroethane		< 50	< 250	< 5
cis-1 2-Dichloroethene		10 J	< 250 UM	< 5
trans-1 2-Dichloroethene		< 50	< 250	< 5
Chloroform		< 50	< 250	< 5
1 2-Dichloroethane		< 50	< 250	< 5
2-Butanone (MEK)		< 100	< 500	< 10
1 1 1-Trichloroethane		< 50	< 250	< 5
Carbon tetrachloride		< 50	< 250	< 5
Bromodichloromethane		< 50	< 250	< 5
1 2-Dichloropropane		< 50	< 250	< 5
cis-1 3-Dichloropropene		< 50	< 250	< 5
Trichloroethene		820 D	4600 D	1 J
Dibromochloromethane		< 50	< 250	< 5
1 1 2-Trichloroethane		< 50	< 250	< 5
Benzene		< 7	< 35	< 0.7
trans-1,3-Dichloropropene		< 50	< 250	< 5
Bromoform		< 50	< 250	< 5
4-Methyl-2-pentanone (MIBK)		< 100	< 500	< 10
2-Hexanone		< 100	< 500	< 10
Tetrachloroethene		120	40 J	< 5
1 1 2 2-Tetrachloroethane		< 50	< 250	< 5
Toluene		< 50	< 250	< 5
Chlorobenzene		< 50	< 250	< 5
Ethylbenzene		< 50	< 250	< 5
Styrene		< 50	< 250	< 5
Xylenes (total)		< 50	< 250	< 5
Vinyl Acetate		< 50	< 250	< 5
Freon 113		< 50	< 250	< 5
Total VOCs		974	4919	1

ug/L Micrograms per liter
 B Compound was found in the blank
 D Constituent identified at a secondary dilution
 H Alternate peak selection upon analytical review *
 J Estimated value
 M Manually integrated compound
 U Analyte was not detected at or above the reporting limit
Bold Constituent detected

ARCADIS

Table 2. Concentrations of Total and Dissolved Cadmium and Chromium Detected in Groundwater, First Quarter 2006, Northrop Grumman Corporation, Bethpage, New York.

CONSTITUENT (Units in ug/L)	WELL: SAMPLE ID: DATE:	GM-15SR 03/13/06	GM-16SR 04/10/06	GM-18S 03/16/06	GM-32S 03/17/06	GM-17SR 03/15/06	GM-78S 03/15/06	GM-78I 03/15/06	MW-1GF 03/15/06	MW-2GF 03/15/06	MW-3R 03/15/06	N-10631 03/16/06	MW-04 PT1MW-04 03/13/06	MW-05 PT1MW-05 03/13/06	MW-06 PT1MW-06 03/13/06
Cadmium		--	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	32	3.7 B	--	--	--
Cadmium (Dissolved)		--	< 10	< 10	< 10	< 10	--	--	< 10	< 10	32.9	2.8 B	--	--	--
Chromium		568	1.9 U	2.7 B	37.5	< 10	< 10	3 B	3.2 B	30.1	34.9	22.7	< 10	959	215
Chromium (Dissolved)		--	< 10 U	1.9 B	38	< 10	--	--	< 10	27.7	33.4	6.9 B	--	--	--

ug/L
 B Detected between the IDL and CRDL
 IDL Instrument detection limit
 CRDL Contract-required detection limit
 Bold Constituent detected above IDL.
 -- Not analyzed