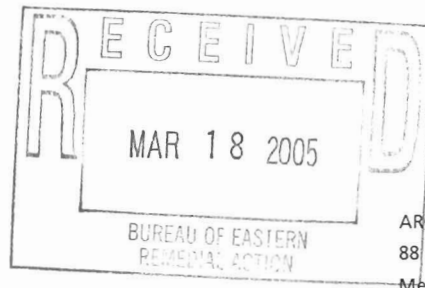




Infrastructure, environment, buildings



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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:
Third Quarter 2004 Groundwater Monitoring Data, Operable Unit 2,
Northrop Grumman Corporation, Bethpage, New York.

Dear Mr. Scharf:

On behalf of Northrop Grumman Corporation (NGC), ARCADIS is providing the NYSDEC with the complete results of groundwater monitoring performed in the Third Quarter 2004 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. Tables 3 and 4 provide the site-related VOC results for the outpost wells for the Second and Third Quarters of 2004, respectively.

Please contact us if you have any questions or comments.

Sincerely,

ARCADIS G&M, Inc.

David E. Stern
Senior Scientist

Carlo San Giovanni
Project Manager

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Date:
15 March 2005

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Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | FW-03 | MW-03R | 10624 | 10627 | 10631 | 10634 | GM-13D |
|--------------------------------|------------|------------|------------|------------|--------------|------------|------------|--------------|
| | SAMPLE ID: | FW-03 | MW-3R | N-10624 | N-10627 | N-10631 | N10634 | GM-13D |
| | DATE: | 10/06/2004 | 09/30/2004 | 11/15/2004 | 11/15/2004 | 11/16/2004 | 11/01/2004 | 10/05/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <20 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <100 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 1,1-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 81 |
| 1,1-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 37 J |
| cis-1,2-Dichloroethene | 4 J | <5 | <5 | <5 | <5 | <5 | <5 | 140 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Chloroform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <100 |
| 1,1,1-Trichloroethane | 2 J | <5 | <5 | <5 | <5 | <5 | <5 | 59 |
| Carbon tetrachloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Trichloroethene | 4 J | 4 J | <5 | 1 J | 0.9 J | <5 | <5 | 190 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 1,1,2-Trichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Benzene | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <7 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <100 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <100 |
| Tetrachloroethene | 35 | <5 | <5 | <5 | <5 | <5 | <5 | 620 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <50 |
| Freon 113 | <5 | <5 | <5 | <5 | <5 | <5 | <5 | 16 J |
| Total VOCs | 45 | 4 | 0 | 1 | 0.9 | 0 | 0 | 1,143 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GM-15S | GM-15I | GM-15D | GM-15D2 | GM-16SR | GM-16I | GM-17SR |
|--------------------------------|------------|--------------|------------|--------------|------------|------------|------------|------------|
| | SAMPLE ID: | GM-15S | GM-15I | GM-15D | GM-15D-2 | GM-16SR | GM-16I | GM-17SR |
| | DATE: | 10/04/2004 | 10/05/2004 | 10/04/2004 | 10/04/2004 | 10/01/2004 | 10/01/2004 | 09/30/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | <5 | <5 | 3 J | 0.9 J | <5 | 2 J | <5 | <5 |
| 1,1-Dichloroethane | <5 | <5 | 5 J | <5 | <5 | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | <5 | 0.5 J | <5 | <5 | <5 | 5 | <5 | <5 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | <5 | <5 | 2 J | <5 | <5 | <5 | <5 | <5 |
| Carbon tetrachloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | 2 J | 4 J | 5 | 11 | <5 | 31 | <5 | <5 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | <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 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | <5 | <5 | 5 | 17 | <5 | 9 | <5 | <5 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | <5 | <5 | <5 | 2 J | <5 | <5 | <5 | <5 |
| Total VOCs | 2 | 4.5 | 20 | 30.9 | 0 | 47 | 0 | 0 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GM-17I | GM-17D | GM-18S | GM-18I | GM-18D | GM-20I | GM-20D |
|--------------------------------|------------|--------------|------------|--------------|--------------|------------|------------|------------|
| | SAMPLE ID: | GM 17I | GM 17D | GM-18S | GM18I | GM 18D | GM-20I | GM-20D |
| | DATE: | 10/29/2004 | 10/29/2004 | 11/16/2004 | 11/08/2004 | 10/29/2004 | 10/07/2004 | 10/08/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | <5 | <5 | 3 J | <5 | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | <5 | <5 | 3 J | 0.6 J | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Carbon tetrachloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | <5 | <5 | 6 | 3 J | <5 | <5 | <5 | <5 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | <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 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | <5 | <5 | <5 | 1 J | 0.6 J | <5 | <5 | <5 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | <5 | 0.7 J | <5 | <5 | <5 | <5 | <5 | <5 |
| Total VOCs | 0 | 0.7 | 12 | 4.6 | 0.6 | 0 | 0 | 0 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GM-21S | GM-21I | GM-21D | GM-32S | GM-33D2 | GM-34D | GM-34D2 |
|--------------------------------|------------|------------|------------|------------|--------------|--------------|-------------|------------|
| | SAMPLE ID: | GM-21S | GM-21I | GM-21D | GM-32S | GM-33D2 | GM-34D | GM-34D2 |
| | DATE: | 10/05/2004 | 10/05/2004 | 10/05/2004 | 10/11/2004 | 11/16/2004 | 10/08/2004 | 10/08/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | <5 | <5 | <5 | <5 | <5 | 5 | 7 | <5 |
| 1,1-Dichloroethane | <5 | <5 | <5 | <5 | <5 | 2 J | <5 | <5 |
| cis-1,2-Dichloroethene | <5 | <5 | <5 | 1 J | 0.6 J | 8 | 9 | <5 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | <5 | <5 | <5 | <5 | <5 | 0.6 J | <5 | <5 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Carbon tetrachloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | <5 | <5 | 1 J | 21 | 55 | 370D | 190D | <5 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | <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 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | 1 J | <5 | <5 | <5 | 7 | 10 | 10 | <5 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | <5 | <5 | <5 | <5 | 4 J | 33 | 13 | <5 |
| Total VOCs | 1 | 0 | 1 | 22 | 66.6 | 428.6 | 229 | <5 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GM-35D2 | GM-36D | GM-36D2 | GM-37D | GM-37D2 | GM-38D | GM-38D2 |
|--------------------------------|--------------|--------------|------------|--------------|------------|--------------|----------------|------------|
| | SAMPLE ID: | GM-35D2 | GM-36D | GM-36D2 | GM-37D | GM-37D2 | GM-38D | GM-38D2 |
| | DATE: | 11/16/2004 | 11/22/2004 | 11/22/2004 | 11/17/2004 | 11/17/2004 | 11/19/2004 | 11/19/2004 |
| Chloromethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <0.5 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | -- | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | -- | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | 1.5 | <5 | <5 | 0.9 J | 3 J | 7 | 2 J | |
| 1,1-Dichloroethane | <0.5 | <5 | <5 | 1 J | 7 | 3 J | <5 | |
| cis-1,2-Dichloroethane | 3.1 | <5 | <5 | <5 | <5 | 2 J | 7 | |
| trans-1,2-Dichloroethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Chloroform | 0.5 | <5 | <5 | 0.6 J | <5 | 0.7 J | 0.9 J | |
| 1,2-Dichloroethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| 2-Butanone | -- | <10 | <10 | <10 | <10 | <10 | <10 | |
| 1,1,1-Trichloroethane | <0.5 | <5 | <5 | <5 | 3 J | 4 J | <5 | |
| Carbon tetrachloride | <0.5 | <5 | <5 | <5 | <5 | 0.7 J | <5 | |
| Bromodichloromethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| 1,2-Dichloropropane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| cis-1,3-Dichloropropene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Trichloroethene | 371 | 13 | <5 | <5 | 2 J | 730D | 1200D | |
| Dibromochloromethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| 1,1,2-Trichloroethane | <0.5 | <5 | <5 | <5 | <5 | <5 | 1 J | |
| Benzene | <0.5 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 | |
| trans-1,3-Dichloropropene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Bromoform | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| 4-Methyl-2-pentanone | -- | <10 | <10 | <10 | <10 | <10 | <10 | |
| 2-Hexanone | -- | <10 | <10 | <10 | <10 | <10 | <10 | |
| Tetrachloroethene | 6.4 | 0.8 J | <5 | 0.7 J | <5 | 1 J | <5 | |
| 1,1,2,2-Tetrachloroethane | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Toluene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Chlorobenzene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Ethylbenzene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Styrene | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Xylene (total) | <0.5 | <5 | <5 | <5 | <5 | <5 | <5 | |
| Vinyl Acetate | -- | <5 | <5 | <5 | <5 | <5 | <5 | |
| Freon 113 | -- | <5 | <5 | <5 | <5 | 2 J | 2 J | |
| Total VOCs | 382.5 | 13.8 | 0 | 3.2 | 15 | 750.4 | 1,212.9 | |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GM-39D _A | GM-39D _B | GM-70D2 | GM-71D2 | GM-73D | GM-73D2 | GM-74I |
|--------------------------------|------------|---------------------|---------------------|--------------|--------------|--------------|------------|------------|
| | SAMPLE ID: | GM-39D | GM-39D-2 | GM-70D2 | GM-71D-2 | GM73D | GM73D2 | GM 74I |
| | DATE: | 10/07/2004 | 10/07/2004 | 11/22/2004 | 11/24/2004 | 11/08/2004 | 11/08/2004 | 11/01/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | <5 | <5 | <5 | 2 J | <5 | 0.7 J | <5 | <5 |
| 1,1-Dichloroethane | <5 | <5 | <5 | 6 | <5 | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | <5 | <5 | 1 J | <5 | <5 | 0.7 J | <5 | <5 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | <5 | <5 | <5 | 1 J | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | <5 | <5 | <5 | 1 J | <5 | <5 | <5 | <5 |
| Carbon tetrachloride | <5 | <5 | <5 | 0.8 J | <5 | <5 | <5 | <5 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | 13 | 35 | 110 | 4 J | 86 | 360D | <5 | <5 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | <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 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | <5 | <5 | 9 | <5 | 0.7 J | 2 J | <5 | <5 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | <5 | <5 | 3 J | <5 | <5 | <5 | <5 | <5 |
| Total VOCs | 13 | 35 | 123 | 14.8 | 86.7 | 363.4 | 0 | 0 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: SAMPLE ID: DATE: | GM-74D GM 74D 11/01/2004 | GM-74D2 GM 74D2 11/01/2004 | GM-75D2 GM-75D2 11/15/2004 | GM-78S 78 S 09/30/2004 | GM-78I 78 I 09/30/2004 | GM-79I GM-79I 10/08/2004 | GM-79D GM-79D 10/08/2004 |
|--------------------------------|------------------------------|--------------------------------|----------------------------------|----------------------------------|------------------------------|------------------------------|--------------------------------|--------------------------------|
| Chloromethane | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | | <5 | 0.5 J | 10 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethane | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | | <5 | <5 | 1 J | <5 | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | | <5 | <5 | 3 J | <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 | | 3 J | 9 | 550D | 0.7 J | 0.6 J | <5 | 31 |
| 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 | | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | | 0.6 J | 8 | 7 | <5 | <5 | <5 | 0.6 J |
| 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 | | <5 | 0.5 J | 3 J | <5 | <5 | <5 | <5 |
| Total VOCs | | 3.6 | 18 | 574 | 0.7 | 0.6 | 0 | 31.6 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | HN-24I | HN-29I | HN-29D | HN-40S | HN-40I | HN-42S | HN-42I |
|--------------------------------|------------|--------------|--------------|------------|--------------|------------|------------|------------|
| | SAMPLE ID: | HN-24I | HN-29I | HN-29D | HN-40S | HN-40I | HW-42S | HW-42I |
| | DATE: | 10/06/2004 | 10/06/2004 | 10/06/2004 | 09/28/2004 | 09/28/2004 | 09/28/2004 | 09/28/2004 |
| Chloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | <2 | <2 | <2 | <2 | <2 | <2 | <2 | <2 |
| Chloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Methylene chloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Acetone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | 2 J | <5 | <5 | <5 | 0.6 J | <5 | <5 | <5 |
| 1,1-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | <5 | <5 | <5 | <5 | 0.6 J | <5 | <5 | <5 |
| trans-1,2-Dichloroethene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chloroform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | <5 | <5 | <5 | <5 | 2 J | <5 | <5 | <5 |
| Carbon tetrachloride | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromodichloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | 36 | 0.6 J | 0.8 J | <5 | 20 | <5 | <5 | <5 |
| Dibromochloromethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | <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 |
| trans-1,3-Dichloropropene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Bromoform | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | 2 J | 0.9 J | <5 | <5 | 7 | <5 | <5 | <5 |
| 1,1,2,2-Tetrachloroethane | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Toluene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Styrene | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | <5 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | 19 | <5 | <5 | <5 | <5 | <5 | <5 | <5 |
| Total VOCs | 59 | 1.5 | 0.8 | 0 | 30.2 | 0 | 0 | 0 |

(1) Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

Table 1. Concentrations of Volatile Organic Compounds Detected in Monitoring Wells and OU2 Groundwater Remedial Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | GP-1 | GP-3 | ONCT-1 | ONCT-2 | ONCT-3 |
|--------------------------------|---------------------|-----------------------------|-------------------------------|------------------------------|------------------------------|------------------------------|
| | SAMPLE ID: DATE: | GP 1/3 WELL 1 10/28/2004 | GP 1/3 WELL 3 10/28/2004 | ONCT 1 WELL 17 10/28/2004 | ONCT 2 WELL 18 10/28/2004 | ONCT 3 WELL 19 10/28/2004 |
| Chloromethane | | <5 | <5 | <5 | <5 | <5 |
| Bromomethane | | <5 | <5 | <5 | <5 | <5 |
| Vinyl chloride | | <2 | 58 | <2 | <2 | <2 |
| Chloroethane | | <5 | 2 J | <5 | <5 | <5 |
| Methylene chloride | | <5 | <5 | <5 | <5 | <5 |
| Acetone | | <10 | <10 | <10 | <10 | <10 |
| Carbon disulfide | | <5 | <5 | <5 | <5 | <5 |
| 1,1-Dichloroethene | | 6 | 10 | 3 J | 3 J | 1 J |
| 1,1-Dichloroethane | | <5 | 3 J | <5 | <5 | <5 |
| cis-1,2-Dichloroethene | | 9 | 9 | 3 J | 1 J | 15 |
| trans-1,2-Dichloroethene | | <5 | <5 | <5 | <5 | <5 |
| Chloroform | | <5 | <5 | <5 | <5 | 1 J |
| 1,2-Dichloroethane | | <5 | <5 | <5 | <5 | <5 |
| 2-Butanone | | <10 | <10 | <10 | <10 | <10 |
| 1,1,1-Trichloroethane | | <5 | 3 J | <5 | <5 | <5 |
| Carbon tetrachloride | | <5 | <5 | <5 | <5 | <5 |
| Bromodichloromethane | | <5 | <5 | <5 | <5 | <5 |
| 1,2-Dichloropropane | | <5 | <5 | <5 | <5 | <5 |
| cis-1,3-Dichloropropene | | <5 | <5 | <5 | <5 | <5 |
| Trichloroethene | | 400D | 2100 JE ⁽¹⁾ | 570D | 140 | 64 |
| Dibromochloromethane | | <5 | <5 | <5 | <5 | <5 |
| 1,1,2-Trichloroethane | | <5 | 0.8 J | <5 | <5 | <5 |
| Benzene | | <0.7 | <0.7 | <0.7 | <0.7 | <0.7 |
| trans-1,3-Dichloropropene | | <5 | <5 | <5 | <5 | <5 |
| Bromoform | | <5 | <5 | <5 | <5 | <5 |
| 4-Methyl-2-pentanone | | <10 | <10 | <10 | <10 | <10 |
| 2-Hexanone | | <10 | <10 | <10 | <10 | <10 |
| Tetrachloroethene | | 120 | 29 | 13 | 8 | 8 |
| 1,1,2,2-Tetrachloroethane | | <5 | <5 | <5 | <5 | <5 |
| Toluene | | <5 | <5 | <5 | <5 | <5 |
| Chlorobenzene | | <5 | <5 | <5 | <5 | <5 |
| Ethylbenzene | | <5 | <5 | <5 | <5 | <5 |
| Styrene | | <5 | <5 | <5 | <5 | <5 |
| Xylene (total) | | <5 | <5 | <5 | <5 | <5 |
| Vinyl Acetate | | <5 | <5 | <5 | <5 | <5 |
| Freon 113 | | 9 | 12 | 9 | <5 | <5 |
| Total VOCs | | 544 | 2226.8 | 598 | 152 | 89 |

⁽¹⁾ Trichloroethene concentration in Well GP-3 exceeded the instrument calibration range and is therefore considered an estimated value.

ug/L Micrograms per liter
 J Estimated Value
 D Constituent Identified at a Secondary Dilution
 E Exceeded calibration range.
Bold Constituent detected

ARCADIS

Table 2. Concentrations of Total and Dissolved Cadmium and Chromium Detected in Groundwater, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: | | MW-03R | | MW-04 | MW-05 | MW-06 | GM-15S | GM-16SR | GM-17SR |
|--------------------------------|------------|-------------|-------------|-------------|------------|-------------|------------|------------|------------|-------------|
| | SAMPLE ID: | DATE: | MW-02GF | MW-3R | PT1MW-04 | PT1MW-05 | PT1MW-06 | GM-15S | GM-16SR | GM-17SR |
| | GM-1GF | 10/11/2004 | 10/11/2004 | 09/30/2004 | 10/01/2004 | 10/01/2004 | 10/01/2004 | 10/04/2004 | 10/01/2004 | 09/30/2004 |
| Cadmium | <10 | <10 | <10 | 42.2 | -- | -- | -- | -- | <10 | <10 |
| Cadmium (Dissolved) | <10 | <10 | <10 | 41.7 | -- | -- | -- | -- | <10 | <10 |
| Chromium | <10 | 29.9 | 74.6 | 76.9 | <10 | 1060 | 307 | 344 | <10 | 1.4B |
| Chromium (Dissolved) | <10 | 27.1 | 76.9 | 76.9 | -- | -- | -- | -- | <10 | <10 |

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

ARCADIS

Table 2. Concentrations of Total and Dissolved Cadmium and Chromium Detected in Groundwater, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York.

| CONSTITUENT (Units in ug/L) | SITE: SAMPLE ID: DATE: | GM-18S GM-18S 11/16/2004 | GM-32S GM-32S 10/11/2004 | GM-78S 78 S 09/30/2004 | GM-78I 78 I 09/30/2004 |
|--------------------------------|------------------------------|--------------------------------|--------------------------------|------------------------------|------------------------------|
| Cadmium | | 2.4B | <10 | <10 | <10 |
| Cadmium (Dissolved) | | 1.9B | <10 | -- | -- |
| Chromium | | <10 | 54.7 | <10 | 2.7B |
| Chromium (Dissolved) | | 2.8B | 53.9 | -- | -- |

ug/L
 B
 IDL
 CRDL
Bold
 --

Micrograms per liter
 Detected between the IDL and the CRDL
 Instrument Detection Limit
 Contract-required detection limit
 Constituent detected above IDL
 Not analyzed

Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2004, Northrop Grumman Corporation, Bethpage, New York. ⁽¹⁾

| CONSTITUENT (Units in ug/L) | SITE: | | OW 1-1 | | OW 1-2 | | OW 1-3 | | OW 2-1 ⁽²⁾ | | OW 2-1 ⁽²⁾ | | OW 2-2 | | OW 2-2 | | OW 3-1 | | |
|---|------------|-----------|-------------|----------|----------|----------|----------|------------|-----------------------|------------|-----------------------|------------|----------|----------|----------|----------|----------|----------|----------|
| | SAMPLE ID: | DATE: | OW-1-1 | OW-1-1 | OW-1-2 | OW-1-2 | OW-1-3 | OW-1-3 | OW-2-1 | OW-2-1 | OW-2-1 | OW-2-1 | OW-2-2 | OW-2-2 | OW-2-2 | OW-2-2 | OW-2-2 | OW-3-1 | OW-3-1 |
| Chlorobenzene | | 6/29/2004 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethene | | | 7.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethane | | | 3.4 | <0.5 | <0.5 | <0.5 | <0.5 | 1 | 1.5 | 1.1 | 1.1 | 1.1 | <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 | <0.5 | <0.5 | <0.5 | <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 | 0.6 | 0.6 | 0.6 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloroform | | | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dichloroethane | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 | 1.7 | 1.1 | 1.1 | 1.1 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1-Trichloroethane | | | 12 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | <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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichloroethene | | | 3.4 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 | 1.8 | 1.1 | 1.4 | 1.4 | <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 | <0.5 | <0.5 | <0.5 | <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 | 0.5 | 0.5 | 0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Freon-113 | | | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <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 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total Site-Related VOCs⁽¹⁾: | | | 26.5 | 0 | 0 | 0 | 0 | 3.8 | 6.8 | 3.6 | 6.8 | 3.6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

⁽¹⁾ Site-related VOCs were established in the Public Water Supply Contingency Plan.

⁽²⁾ Benzene, a non-site-related VOC, was detected in outpost well OW 2-1 6/29/04, 8/4/04, and 8/12/04, with concentrations of 26 ug/L, 42 ug/L, and 36 ug/L, respectively.

ug/L Micrograms per liter

Bold Constituent detected

Table 3. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Second Quarter 2004, Northrop Grumman Corporation, Bethpage, New York. ⁽¹⁾

| CONSTITUENT (Units in ug/L) | SITE: | | OW 3-2 | OW 4-1 | OW 4-2 |
|---------------------------------|------------|-----------|--------|--------|-----------|
| | SAMPLE ID: | DATE: | | | |
| | OW-3-2 | 6/28/2004 | OW-4-1 | OW-4-2 | 6/30/2004 |
| Chlorobenzene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| trans-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| cis-1,2-Dichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chloroform | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,2-Dichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,1-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Carbon tetrachloride | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Trichloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2-Trichloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Tetrachloroethene | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Freon-113 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1,1,2,2-Tetrachloroethane | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Total Site-Related VOCs: | 0 | 0 | 0 | 0 | 0 |

⁽¹⁾ Site-related VOCs were established in the Public Water Supply Contingency Plan.

⁽²⁾ Benzene, a non-site-related VOC, was detected in outpost well OW 2-1 6/29/04, 8/4/04, and 8/12/04, with concentrations of 26 ug/L, 42 ug/L, and 36 ug/L, respectively.

ug/L Micrograms per liter

Bold Constituent detected

ARCADIS

Table 4. Concentrations of Site-Related Volatile Organic Compounds Detected in Outpost Wells, Third Quarter 2004, Northrop Grumman Corporation, Bethpage, New York. ⁽¹⁾

| CONSTITUENT (Units in ug/L) | SITE: | | OW 1-1 | | OW 1-2 | | OW 1-3 | | OW 2-1 | | OW 2-2 ⁽²⁾ | | OW 3-1 | | OW 3-2 | | OW 4-1 | | OW 4-2 | |
|---|------------|-------|------------|------------|-------------|------------|-------------|------------|------------|-----------|-----------------------|-----------|----------|------------|----------|------------|----------|------------|----------|------------|
| | SAMPLE ID: | DATE: | BPOW 1-1 | 11/11/2004 | BPOW 1-2 | 11/11/2004 | BPOW 1-3 | 11/11/2004 | BPOW 2-1 | 11/9/2004 | BPOW 2-2 | 11/9/2004 | BPOW 3-1 | 11/12/2004 | BPOW 3-2 | 11/12/2004 | BPOW 4-1 | 11/11/2004 | BPOW 4-2 | 11/10/2004 |
| Chlorobenzene | | | <0.24 | <0.24 | <0.24 | <0.24 | <0.24 | <0.50 | <0.50 | <0.50 | <0.50 | <0.24 | <0.24 | <0.50 | <0.50 | <0.24 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethene | | | 4.8 | <0.50 | 1.6 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1-Dichloroethane | | | 2.4 | <0.50 | 0.89 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| trans-1,2-Dichloroethene | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| cis-1,2-Dichloroethene | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Chloroform | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,2-Dichloroethane | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 1.1 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1,1-Trichloroethane | | | 8.5 | <0.50 | 3.9 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Carbon tetrachloride | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Trichloroethene | | | 3.3 | <0.50 | 0.64 | <0.50 | <0.50 | <0.50 | 1.4 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Tetrachloroethene | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.5 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Freon-113 | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1,2,2-Tetrachloroethane | | | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 |
| Total Site-Related VOCs⁽¹⁾: | | | 19 | 0 | 7.03 | 0 | 3.95 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

⁽¹⁾

⁽²⁾ Benzene, a non-site-related VOC, was detected in outpost well OW 2-1 6/29/04, 8/4/04, 8/12/04, and 11/9/04, with concentrations of 26 ug/L, 42 ug/L, 36 ug/L, and 38 ug/L, respectively.

ug/L
Bold Constituent detected