Mr. Jason Pelton
Project Manager
New York State Department of Environmental Conservation
Remedial Bureau D
625 Broadway
Albany, New York 12233-7015

Arcadis of New York, Inc.
Two Huntington Quadrangle
Suite 1S10
Melville
New York 11747
Tel 631 249 7600
Fax 631 249 7610
www.arcadis.com

Subject:
Third Quarter 2017 Progress Report
Northrop Grumman Systems Corporation
Operable Unit 2, NYSDEC Site ID # 1-30-003A,
Bethpage, New York

ENVIRONMENT

Date:
October 10, 2017

Contact:
David E. Stern
Phone:
631.391.5284
Email:
david.stern@arcadis.com

Our ref:
NY001496.0216.LARA5

Dear Jason:

In accordance with Appendix "A", Section XIII of Administrative Order on Consent (AOC) Index # W1-118-14-12, this letter reports Operable Unit 2 (OU2) activities performed by Northrop Grumman Systems Corporation (Northrop Grumman) during the Second Quarter of 2017 (April through June 2017). Activities planned for Third Quarter of 2017 (July through August 2017) are also described.

This progress report provides data that have been received as final and/or validated from the current period that are not included in other routine reporting for OU2 (e.g., quarterly reports as specified in the Groundwater Monitoring Plan).

As this is an ongoing remediation project, Northrop Grumman has transitioned the frequency of these progress reports from monthly to quarterly. Therefore, the next report will be submitted following the close of December 2017.

OU2 ACTIVITIES CONDUCTED DURING THIRD QUARTER 2017

OU2 On-Site Containment (ONCT) System

- Continued Operation, Maintenance and Monitoring (OM&M) of the OU2 ONCT system, including preparation for South Basin (western-most) maintenance and scarification.

- Completed Third Quarter 2017 ONCT system sampling
- Data not routinely reported are provided for the current period as follows:
    - Analytical data associated with Tower 96 Effluent and monthly sampling of ONCT Tower 96 system Remedial Wells 1 and 3R are provided in Table 1
    - Analytical data associated with QA/QC of SPDES Outfall 006 (duplicate sample) are also provided in Table 1

Regional Groundwater Monitoring & Outpost Well Monitoring

- Continued supplemental monthly VOC sampling of Monitoring Well GM-21D2 as Well 18 flow rate was adjusted from 800 gpm to approximately 600 gpm (design flow rate).
- Completed Second Quarter 2017 routine (early July) and Third Quarter 2017 routine OU2 groundwater monitoring activities
- Data not routinely reported are provided for the current period as follows:
    - Analytical data associated with Monitoring Well GM-21D2 sampling are provided in Table 1
    - Analytical data associated with discharge sample for compliance with local POTW are also provided in Table 1
- Prepared and submitted Second Quarter 2017 sampling event data (Form 1 packages) to NYSDEC

Northrop Grumman Cooperation with Navy

- Coordinated with Navy and completed Second Quarter 2017 (early July) sampling of additional outpost wells and plume monitoring wells and Third Quarter 2017 sampling of additional outpost wells
- Prepared and submitted Second Quarter 2017 sampling event data for Navy owned wells, including Form 1 packages, to Navy for distribution
- Initiated groundwater modeling support for design of Navy's IRM recovery well associated with the RE-108 off-site area

Other

- Prepared and submitted Second Quarter 2017 OU2 Operation Maintenance and Monitoring Report
- Prepared and submitted the July 2017 AOC quarterly progress report

OU2 ACTIVITIES SCHEDULED FOR FOURTH QUARTER 2017

OU2 On-Site Containment (ONCT) System

- Continue OM&M of OU2 ONCT system, including performance of South Basin (western-most) maintenance and scarification.
- Conduct Fourth Quarter 2017 ONCT system sampling

Regional Groundwater Monitoring & Outpost Well Monitoring

- Conduct Fourth Quarter 2017 routine groundwater monitoring activities including collection of water levels from routine monitoring wells and remedial wells
- Continue supplemental VOC sampling at Monitoring Well GM-21D2
- Initiate supplemental (quarterly) VOC sampling at Monitoring Wells GM-33D2, GM-75D2 and GM-20D located just south of the ONCT remedial wells to monitor ONCT system hydraulic effectiveness during ONCT South Basins maintenance activities

Northrop Grumman Cooperation with Navy

- Initiate and complete Fourth Quarter 2017 from additional outpost wells and Navy owned monitoring wells
- Complete groundwater modeling support for design of Navy's IRM recovery well associated with the RE-108 off-site area

Other

- Submit the Third Quarter 2017 AOC quarterly progress report
- Submit the Third Quarter 2017 OU2 Operation Maintenance and Monitoring Report

Sincerely,

Arcadis of New York, Inc.

David E. Stern
Senior Hydrogeologist/Associate Project Manager

Enclosures

Copies:
Krista Anders, NYSDOH
Patrick Foster, Esq., NYSDEC
Henry Wilkie, NYSDEC
Steven Scharf – NYSDEC
Donald Hesler, NYSDEC
Edward J. Hannon, Northrop Grumman
Jill Palmer, Esq., Northrop Grumman
Daniel Riesel, Esq., Sive, Paget & Riesel, P.C.
Mark A. Chertok, Esq., Sive, Paget & Riesel, P.C.
Lora Fly, NAVFAC Mid-Atlantic Environmental
Janet Steiniger, Bethpage Public Library (Public Repository)
Chris Engler, PE, Arcadis
Carlo San Giovanni, Arcadis
Mike Wolfert, Arcadis
File, Arcadis

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: GM-21D2 Sample ID: GM-21D2_20170622 Sample Date: 6/22/2017	QAQC TB062217AR1 6/22/2017	QAQC FB062217JB1 6/22/2017
Volatile Organic Compounds [1]			
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	< 10	< 10	< 10
2-Hexanone	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone	< 5.0	< 5.0	< 5.0
Acetone	< 10	< 10	< 10
Benzene	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0
Bromomethane	< 2.0	< 2.0	< 2.0
Carbon Disulfide	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	< 1.0	< 1.0	< 1.0
CFC-11	--	--	--
CFC-12	--	--	--
Chlorobenzene	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	< 1.0	< 1.0	< 1.0
Chloroethane	< 1.0	< 1.0	< 1.0
Chloroform	< 1.0	< 1.0	< 1.0
Chloromethane	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	**0.51 J**	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0
Dichloromethane	< 2.0	< 2.0	< 2.0
Ethylbenzene	< 1.0	< 1.0	< 1.0
m&p-Xylenes	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	--	--	--
o-Xylene	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	< 1.0	< 1.0	< 1.0
Tetrachloroethene	**3.5**	< 1.0	< 1.0
Toluene	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0
Trichloroethene	**17.7**	< 1.0	< 1.0
Vinyl chloride	< 1.0	< 1.0	< 1.0
Total VOCs[3]	**22**	0	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: Sample ID: Sample Date:	DISCHARGE [2] DISCHARGE_062917 6/29/2017	QAQC FB062917AD1 6/29/2017	96 EFFLUENT T96 EFFLUENT_20170718 7/18/2017
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane		< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 2.0	< 5.0	< 5.0
1,1,2-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		< 1.0	< 1.0	< 1.0
2-Butanone (MEK)		< 5.0	< 10	< 10
2-Hexanone		< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone		< 5.0	< 5.0	< 5.0
Acetone		< 5.0	< 10	< 10
Benzene		< 1.0	< 0.50	< 0.50
Bromodichloromethane		< 1.0	< 1.0	< 1.0
Bromoform		< 1.0	< 1.0	< 1.0
Bromomethane		< 1.0	< 2.0	< 2.0
Carbon Disulfide		< 1.0	< 2.0	< 2.0
Carbon Tetrachloride		< 1.0	< 1.0	< 1.0
CFC-11		< 2.0	--	--
CFC-12		< 2.0	--	--
Chlorobenzene		< 1.0	< 1.0	< 1.0
Chlorodibromomethane		< 1.0	< 1.0	< 1.0
Chloroethane		< 1.0	< 1.0	< 1.0
Chloroform		< 1.0	< 1.0	< 1.0
Chloromethane		< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Dichloromethane		< 1.0	< 2.0	< 2.0
Ethylbenzene		< 1.0	< 1.0	< 1.0
m&p-Xylenes		< 1.0	< 1.0	< 1.0
Methyl-tert-butylether		< 1.0	--	--
o-Xylene		< 1.0	< 1.0	< 1.0
Styrene (Monomer)		< 2.0	< 1.0	< 1.0
Tetrachloroethene		< 1.0	< 1.0	< 1.0
Toluene		< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Trichloroethene		**1.7**	< 1.0	< 1.0
Vinyl chloride		< 1.0	< 1.0	< 1.0
Total VOCs[3]		**2**	0	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	QAQC TB-071817-PR-1 7/18/2017	WELL 1 WELL 1_20170718 7/18/2017	WELL 3R WELL 3R_20170718 7/18/2017
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		< 1.0	**0.29 J**	**0.76 J**
1,1,2,2-Tetrachloroethane		< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 5.0	**4.4 J**	**4.2 J**
1,1,2-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		< 1.0	**0.79 J**	**1.5**
1,1-Dichloroethene		< 1.0	**2.7**	**4.6**
1,2-Dichloroethane		< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		< 1.0	**4.5**	< 1.0
2-Butanone (MEK)		< 10	< 10	< 10
2-Hexanone		< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone		< 5.0	< 5.0	< 5.0
Acetone		< 10	< 10	< 10
Benzene		< 0.50	< 0.50	< 0.50
Bromodichloromethane		< 1.0	< 1.0	< 1.0
Bromoform		< 1.0	< 1.0	< 1.0
Bromomethane		< 2.0	< 2.0	< 2.0
Carbon Disulfide		< 2.0	< 2.0	< 2.0
Carbon Tetrachloride		< 1.0	< 1.0	< 1.0
CFC-11		--	--	--
CFC-12		--	--	--
Chlorobenzene		< 1.0	< 1.0	< 1.0
Chlorodibromomethane		< 1.0	< 1.0	< 1.0
Chloroethane		< 1.0	< 1.0	< 1.0
Chloroform		< 1.0	< 1.0	< 1.0
Chloromethane		< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene		< 1.0	**4.6**	**4.0**
cis-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Dichloromethane		< 2.0	< 2.0	< 2.0
Ethylbenzene		< 1.0	< 1.0	< 1.0
m&p-Xylenes		< 1.0	< 1.0	< 1.0
Methyl-tert-butylether		--	--	--
o-Xylene		< 1.0	< 1.0	< 1.0
Styrene (Monomer)		< 1.0	< 1.0	< 1.0
Tetrachloroethene		< 1.0	**24.4**	**32.2**
Toluene		< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Trichloroethene		< 1.0	**665**	**400**
Vinyl chloride		< 1.0	< 1.0	**2.9**
Total VOCs[3]		0	**707**	**450**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	GM-21D2 / GM-21D2_20170720 / 7/20/2017	GM-21D2 / REP072017JB1 / 7/20/2017	QAQC / TB072017JB1 / 7/20/2017
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane		< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethene		< 1.0	< 1.0	< 1.0
1,2-Dichloroethane		< 1.0	< 1.0	< 1.0
1,2-Dichloropropane		< 1.0	< 1.0	< 1.0
2-Butanone (MEK)		< 10	< 10	< 10
2-Hexanone		< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone		< 5.0	< 5.0	< 5.0
Acetone		< 10	< 10	< 10
Benzene		< 0.50	< 0.50	< 0.50
Bromodichloromethane		< 1.0	< 1.0	< 1.0
Bromoform		< 1.0	< 1.0	< 1.0
Bromomethane		< 2.0	< 2.0	< 2.0
Carbon Disulfide		< 2.0	< 2.0	< 2.0
Carbon Tetrachloride		< 1.0	< 1.0	< 1.0
CFC-11		--	--	--
CFC-12		--	--	--
Chlorobenzene		< 1.0	< 1.0	< 1.0
Chlorodibromomethane		< 1.0	< 1.0	< 1.0
Chloroethane		< 1.0	< 1.0	< 1.0
Chloroform		< 1.0	< 1.0	< 1.0
Chloromethane		< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Dichloromethane		< 2.0	< 2.0	< 2.0
Ethylbenzene		< 1.0	< 1.0	< 1.0
m&p-Xylenes		< 1.0	< 1.0	< 1.0
Methyl-tert-butylether		--	--	--
o-Xylene		< 1.0	< 1.0	< 1.0
Styrene (Monomer)		< 1.0	< 1.0	< 1.0
Tetrachloroethene		**3.0**	**3.1**	< 1.0
Toluene		< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene		< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene		< 1.0	< 1.0	< 1.0
Trichloroethene		**18.5**	**18.1**	< 1.0
Vinyl chloride		< 1.0	< 1.0	< 1.0
Total VOCs[3]		**22**	**21**	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: GM-21D2 Sample ID: GM-21D2_20170821 Sample Date: 8/21/2017	QAQC TB082117AD1 8/21/2017	96 EFFLUENT T96 EFFLUENT_20170825 8/25/2017
Volatile Organic Compounds [1]			
1,1,1-Trichloroethane	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane	< 5.0	< 5.0	< 5.0
1,1,2-Trichloroethane	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	< 1.0	< 1.0	< 1.0
2-Butanone (MEK)	< 10	< 10	< 10
2-Hexanone	< 5.0	< 5.0	< 5.0
4-Methyl-2-Pentanone	< 5.0	< 5.0	< 5.0
Acetone	< 10	< 10	< 10
Benzene	< 0.50	< 0.50	< 0.50
Bromodichloromethane	< 1.0	< 1.0	< 1.0
Bromoform	< 1.0	< 1.0	< 1.0
Bromomethane	< 2.0	< 2.0	< 2.0
Carbon Disulfide	< 2.0	< 2.0	< 2.0
Carbon Tetrachloride	< 1.0	< 1.0	< 1.0
CFC-11	--	--	--
CFC-12	--	--	--
Chlorobenzene	< 1.0	< 1.0	< 1.0
Chlorodibromomethane	< 1.0	< 1.0	< 1.0
Chloroethane	< 1.0	< 1.0	< 1.0
Chloroform	< 1.0	< 1.0	< 1.0
Chloromethane	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0
Dichloromethane	< 2.0	< 2.0	< 2.0
Ethylbenzene	< 1.0	< 1.0	< 1.0
m&p-Xylenes	< 1.0	< 1.0	< 1.0
Methyl-tert-butylether	--	--	--
o-Xylene	< 1.0	< 1.0	< 1.0
Styrene (Monomer)	< 1.0	< 1.0	< 1.0
Tetrachloroethene	**3.9**	< 1.0	< 1.0
Toluene	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene	< 1.0	< 1.0	< 1.0
Trichloroethene	**16.4**	< 1.0	< 1.0
Vinyl chloride	< 1.0	< 1.0	< 1.0
Total VOCs[3]	**20**	0	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: Sample ID: Sample Date:	OUTFALL 006 [2] DUP-082517-PR-1 8/25/2017	QAQC TB-082517-PR-1 8/25/2017	WELL 1 WELL 1_20170825 8/25/2017
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		< 0.50	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane		--	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 0.50	< 5.0	**3.6 J**
1,1,2-Trichloroethane		--	< 1.0	< 1.0
1,1-Dichloroethane		--	< 1.0	**0.69 J**
1,1-Dichloroethene		< 0.50	< 1.0	**2.7**
1,2-Dichloroethane		--	< 1.0	< 1.0
1,2-Dichloropropane		--	< 1.0	**4.1**
2-Butanone (MEK)		--	< 10	< 10
2-Hexanone		--	< 5.0	< 5.0
4-Methyl-2-Pentanone		--	< 5.0	< 5.0
Acetone		--	< 10	< 10
Benzene		--	< 0.50	< 0.50
Bromodichloromethane		--	< 1.0	< 1.0
Bromoform		--	< 1.0	< 1.0
Bromomethane		--	< 2.0	< 2.0
Carbon Disulfide		--	< 2.0	< 2.0
Carbon Tetrachloride		--	< 1.0	< 1.0
CFC-11		--	--	--
CFC-12		--	--	--
Chlorobenzene		--	< 1.0	< 1.0
Chlorodibromomethane		--	< 1.0	< 1.0
Chloroethane		--	< 1.0	< 1.0
Chloroform		--	< 1.0	< 1.0
Chloromethane		--	< 1.0	< 1.0
cis-1,2-Dichloroethene		< 0.50	< 1.0	**5.0**
cis-1,3-Dichloropropene		--	< 1.0	< 1.0
Dichloromethane		< 0.50	< 2.0	< 2.0
Ethylbenzene		--	< 1.0	< 1.0
m&p-Xylenes		--	< 1.0	< 1.0
Methyl-tert-butylether		--	--	--
o-Xylene		--	< 1.0	< 1.0
Styrene (Monomer)		--	< 1.0	< 1.0
Tetrachloroethene		< 0.50	< 1.0	**25.2**
Toluene		--	< 1.0	< 1.0
trans-1,2-Dichloroethene		< 0.50	< 1.0	< 1.0
trans-1,3-Dichloropropene		--	< 1.0	< 1.0
Trichloroethene		< 0.50	< 1.0	**637**
Vinyl chloride		< 0.50	< 1.0	< 1.0
Total VOCs[3]		0	0	**680**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	WELL 3R / WELL 3R_20170825 / 8/25/2017
Volatile Organic Compounds [1]		
1,1,1-Trichloroethane		**0.76 J**
1,1,2,2-Tetrachloroethane		< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		**3.8 J**
1,1,2-Trichloroethane		< 1.0
1,1-Dichloroethane		**1.5**
1,1-Dichloroethene		**4.9**
1,2-Dichloroethane		< 1.0
1,2-Dichloropropane		< 1.0
2-Butanone (MEK)		< 10
2-Hexanone		< 5.0
4-Methyl-2-Pentanone		< 5.0
Acetone		< 10
Benzene		< 0.50
Bromodichloromethane		< 1.0
Bromoform		< 1.0
Bromomethane		< 2.0
Carbon Disulfide		< 2.0
Carbon Tetrachloride		< 1.0
CFC-11		--
CFC-12		--
Chlorobenzene		< 1.0
Chlorodibromomethane		< 1.0
Chloroethane		< 1.0
Chloroform		< 1.0
Chloromethane		< 1.0
cis-1,2-Dichloroethene		**4.3**
cis-1,3-Dichloropropene		< 1.0
Dichloromethane		< 2.0
Ethylbenzene		< 1.0
m&p-Xylenes		< 1.0
Methyl-tert-butylether		--
o-Xylene		< 1.0
Styrene (Monomer)		< 1.0
Tetrachloroethene		**34.1**
Toluene		< 1.0
trans-1,2-Dichloroethene		< 1.0
trans-1,3-Dichloropropene		< 1.0
Trichloroethene		**379**
Vinyl chloride		**2.8**
Total VOCs[3]		**430**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds
Operable Unit 2, Northrop Grumman Systems Corporation
Bethpage, New York

Notes and Abbreviations:

(1) Sample analysis by VOC Method 8260C

(2) Sample analysis by VOC Method 624

(3) Results rounded to two significant figures.

Results validated following protocols specified in OU2 Groundwater Monitoring Plan (ARCADIS 2016), or as received as final from the laboratory as of the end of the AOC reporting period.

Bold value indicates a detection

µg/L	Micrograms per liter
<1.0	Constituent not detected above its laboratory quantification limit.
OU2	Operable Unit 2
FB	Field Blank
J	Value is estimated concentration
QAQC	Quality Assurance/Quality Control sample
TB	Trip blank
VOC	Volatile Organic Compound
--	Not Analyzed
REP	Blind duplicate sample