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ENVIRONMENT

Date:

March 10, 2016

Subject:

February 2016 Monthly Progress Report
Northrop Grumman Systems Corporation
Operable Unit 2, NYSDEC Site ID # 1-30-003A,
Bethpage, New York

Contact:

David E. Stern

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631.391.5284

Email:

david.stern@arcadis.com

Our ref:

NY001496.0114.LARA5

Dear Henry and Steve:

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 month of February 2016. Activities planned for March 2016 are also described.

This progress report provides validated data 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).

Because this is an ongoing remediation project, Northrop Grumman proposes that future progress reports be submitted quarterly.

OU2 ACTIVITIES CONDUCTED DURING FEBRUARY 2016

OU2 On-Site Containment (ONCT) System

- Continued Operation, Maintenance and Monitoring (OM&M) of the OU2 ONCT system

Regional Groundwater Monitoring & Outpost Well Monitoring

- Continued supplemental bi-weekly VOC sampling and monthly water level monitoring of Monitoring Well GM-21D2 and other selected wells, including ONCT Tower 102 system remedial wells

- Data not routinely reported are provided for the current period as follows:

    - Analytical data for GM-21D2 and other selected wells, including ONCT Tower 102 system remedial wells and Tower 96 effluent are provided in Table 1.

Northrop Grumman Cooperation with Navy

- Initiated First Quarter 2016 sampling of additional outpost wells installed by Navy as requested by Navy in May 6, 2015 communication

Other

- Prepared and submitted the January 2016 AOC monthly progress report

- Summarized and submitted radiological sampling results in support of NYSDEC's radiological sampling plan. Supplemental analytical data for VOCs and 1,4-dioxane collected during radiological sampling of select public supply wells are provided in Table 2.

- Coordinated and performed supplemental sampling of Monitoring Well GM-15S as a part of the regional radiological sampling.

OU2 ACTIVITIES SCHEDULED FOR MARCH 2016

OU2 On-Site Containment (ONCT) System

- Continue OM&M of OU2 ONCT system

- Conduct First Quarter 2016 ONCT system sampling

Regional Groundwater Monitoring & Outpost Well Monitoring

- Continue supplemental bi-weekly VOC sampling and monthly water levels of Monitoring Well GM-21D2 and other select wells, including ONCT system remedial wells

- Routine OU2 groundwater monitoring activities are not planned for March 2016; next scheduled routine sampling round (i.e., quarterly groundwater sampling) will be conducted in Second Quarter 2016

Northrop Grumman Cooperation with Navy

- Continue First Quarter 2016 sampling of additional outpost wells installed by Navy as requested by Navy in May 6, 2015 communication

Other

- Submit the February 2016 AOC monthly progress report

Sincerely,

Arcadis of New York, Inc.

David E. Stern

Senior Hydrogeologist/Associate Project Manager

Enclosures

Copies:
Krista Anders, NYSDOH
Rosalie K. Rusinko, Esq., NYSDEC
Edward J. Hannon, Northrop Grumman
Fred Weber, 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 Midlant Environmental
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 in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	96 EFFLUENT / T96 EFFLUENT / 1/5/2016	WELL 1 / WELL 1 / 1/5/2016	WELL 3R / WELL 3R / 1/5/2016
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		<1.0	<2.0	<2.0
1,1,2,2-Tetrachloroethane		<0.50	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane		<5.0	**3.1 J**	**3.9 J**
1,1,2-Trichloroethane		<1.0	<2.0	<2.0
1,1-Dichloroethane		<1.0	**0.85 J**	**1.5 J**
1,1-Dichloroethene		<1.0	**2.5**	**4.8**
1,2-Dichloroethane		<1.0	<2.0	<2.0
1,2-Dichloropropane		<2.0	<4.0	<4.0
2-Butanone (MEK)		<10	**13.8 J**	**14.0 J**
4-Methyl-2-Pentanone		<5.0	<10	<10
Acetone		<10	<20	<20
Benzene		<0.50	<1.0	<1.0
Bromodichloromethane		<1.0	<2.0	<2.0
Bromoform		<1.0	<2.0	<2.0
Bromomethane		<2.0	<4.0	<4.0
Carbon Disulfide		<5.0	<10	<10
Carbon Tetrachloride		<1.0	<2.0	<2.0
Chlorobenzene		<1.0	<2.0	<2.0
Chlorodibromomethane		<1.0	<2.0	<2.0
Chloroethane		<2.0	<4.0	<4.0
Chloroform		<1.0	*<2.0*	*<2.0*
Chloromethane		<2.0	<4.0	<4.0
cis-1,2-Dichloroethene		<1.0	**4.5**	**5.5**
cis-1,3-Dichloropropene		<0.50	<1.0	<1.0
Dichloromethane		<2.0	<4.0	<4.0
Ethylbenzene		<1.0	<2.0	<2.0
m,p-Xylene		<1.0	<2.0	<2.0
Methyl N-Butyl Ketone (2-Hexanone)		<10	<20	<20
o-Xylene		<1.0	<2.0	<2.0
Styrene (Monomer)		<5.0	<10	<10
Tetrachloroethene		<1.0	**29.2**	**33.8**
Toluene		<1.0	<2.0	<2.0
trans-1,2-Dichloroethene		<1.0	<2.0	<2.0
trans-1,3-Dichloropropene		<0.50	<1.0	<1.0
Trichloroethene		**2.7**	**757**	**584**
Vinyl chloride		<1.0	<2.0	**10.7**
Total VOCs [2]		**2.7**	**810**	**658**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	WELL 17 / WELL 17 / 1/19/2016	WELL 18 / WELL 18 / 1/19/2016	WELL 19 / WELL 19 / 1/19/2016
Volatile Organic Compounds [1]				
1,1,1-Trichloroethane		**0.32 J**	**0.57 J**	**0.32 J**
1,1,2,2-Tetrachloroethane		< 1.0	< 1.0	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		**3.8 J**	**1.7 J**	**0.85 J**
1,1,2-Trichloroethane		< 1.0	< 1.0	< 1.0
1,1-Dichloroethane		**0.97 J**	**1.2**	**0.69 J**
1,1-Dichloroethene		**2.0**	**3.8**	**1.4**
1,2-Dichloroethane		< 1.0	< 1.0	**< 1.0**
1,2-Dichloropropane		< 1.0	< 1.0	< 1.0
2-Butanone (MEK)		< 10	< 10	< 10
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
Chlorobenzene		< 1.0	< 1.0	< 1.0
Chlorodibromomethane		< 1.0	< 1.0	< 1.0
Chloroethane		< 1.0	< 1.0	< 1.0
Chloroform		**0.35 J**	**0.19 J**	**0.43 J**
Chloromethane		< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene		**3.0**	**2.0**	**17.4**
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-Xylene		< 1.0	< 1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)		< 5.0	< 5.0	< 5.0
o-Xylene		< 1.0	< 1.0	< 1.0
Styrene (Monomer)		< 1.0	< 1.0	< 1.0
Tetrachloroethene		**24.9**	**13.3**	**6.5**
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		**142**	**50.2**	**144**
Vinyl chloride		< 1.0	< 1.0	< 1.0
Total VOCs [2]		**170**	**73**	**170**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	GM-21D2 / GM-21D2 / 1/15/2016	GM-21D2 / GM-21D2 / 1/27/2016	GM-21D2 / GM-21D2 / 2/11/2016	GM-73D2 / GM-73D2 / 1/13/2016	GM-73D2 / GM-73D2 / 1/28/2016
Volatile Organic Compounds [1]						
1,1,1-Trichloroethane		**2.5**	**2.6**	**3.2**	< 1.0	<1.0
1,1,2,2-Tetrachloroethane		< 1.0	<1.0	<1.0	< 1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane		**5.5**	**4.4 J**	**5.5**	< 5.0	<5.0
1,1,2-Trichloroethane		< 1.0	**0.32 J**	<1.0	< 1.0	<1.0
1,1-Dichloroethane		**9.7**	**9.3**	**10.5**	**0.34 J**	**0.39 J**
1,1-Dichloroethene		**23.5**	**22.1**	**27.1**	**0.54 J**	**0.56 J**
1,2-Dichloroethane		**0.56 J**	<1.0	**0.72 J**	< 1.0	<1.0
1,2-Dichloropropane		< 1.0	<1.0	<1.0	< 1.0	<1.0
2-Butanone (MEK)		< 10	<10	<10	< 10	<10
4-Methyl-2-Pentanone		< 5.0	<5.0	<5.0	< 5.0	<5.0
Acetone		< 10	<10	<10	< 10	<10
Benzene		< 0.50	<0.50	<0.50	< 0.50	<0.50
Bromodichloromethane		< 1.0	<1.0	<1.0	< 1.0	<1.0
Bromoform		< 1.0	<1.0	<1.0	< 1.0	<1.0
Bromomethane		< 2.0	<2.0	<2.0	< 2.0	<2.0
Carbon Disulfide		< 2.0	<2.0	<2.0	< 2.0	<2.0
Carbon Tetrachloride		< 1.0	<1.0	<1.0	< 1.0	<1.0
Chlorobenzene		< 1.0	<1.0	<1.0	< 1.0	<1.0
Chlorodibromomethane		< 1.0	<1.0	<1.0	< 1.0	<1.0
Chloroethane		< 1.0	<1.0	<1.0	< 1.0	<1.0
Chloroform		**0.58 J**	**0.59 J**	**0.62 J**	< 1.0	**0.22 J**
Chloromethane		< 1.0	<1.0	<1.0	< 1.0	<1.0
cis-1,2-Dichloroethene		**24.2**	**26.7**	**28.1**	**0.63 J**	**0.53 J**
cis-1,3-Dichloropropene		< 1.0	<1.0	<1.0	< 1.0	<1.0
Dichloromethane		< 2.0	<2.0	<2.0	< 2.0	<2.0
Ethylbenzene		< 1.0	<1.0	<1.0	< 1.0	<1.0
m,p-Xylene		< 1.0	<1.0	<1.0	< 1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		< 5.0	<5.0	<5.0	< 5.0	<5.0
o-Xylene		< 1.0	<1.0	<1.0	< 1.0	<1.0
Styrene (Monomer)		< 1.0	<1.0	<1.0	< 1.0	<1.0
Tetrachloroethene		**12.4**	**11.6**	**13.9**	**1.5**	**1.4**
Toluene		< 1.0	<1.0	<1.0	< 1.0	<1.0
trans-1,2-Dichloroethene		< 1.0	<1.0	<1.0	< 1.0	<1.0
trans-1,3-Dichloropropene		< 1.0	<1.0	<1.0	< 1.0	<1.0
Trichloroethene		**171**	**162**	**188**	**33.1**	**32.5**
Vinyl chloride		< 1.0	<1.0	<1.0	< 1.0	<1.0
Total VOCs [2]		**250**	**240**	**280**	**36**	**36**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	GM-73D2 / GM-73D2 / 2/12/2016	GM-74D2 / GM-74D2 / 1/13/2016	GM-74D2 / GM-74D2 / 1/28/2016	GM-74D2 / GM-74D2 / 2/12/2016
Volatile Organic Compounds [1]					
1,1,1-Trichloroethane		<1.0	< 1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		<1.0	< 1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane		<5.0	**0.73 J**	**0.61 J**	<5.0
1,1,2-Trichloroethane		<1.0	< 1.0	<1.0	<1.0
1,1-Dichloroethane		**0.33 J**	**0.42 J**	**0.43 J**	**0.39 J**
1,1-Dichloroethene		**0.56 J**	**0.79 J**	**0.84 J**	**0.80 J**
1,2-Dichloroethane		<1.0	< 1.0	<1.0	<1.0
1,2-Dichloropropane		<1.0	< 1.0	<1.0	<1.0
2-Butanone (MEK)		<10	< 10	<10	<10
4-Methyl-2-Pentanone		<5.0	< 5.0	<5.0	<5.0
Acetone		<10	< 10	<10	<10
Benzene		<0.50	< 0.50	<0.50	<0.50
Bromodichloromethane		<1.0	< 1.0	<1.0	<1.0
Bromoform		<1.0	< 1.0	<1.0	<1.0
Bromomethane		<2.0	< 2.0	<2.0	<2.0
Carbon Disulfide		<2.0	< 2.0	<2.0	<2.0
Carbon Tetrachloride		<1.0	< 1.0	<1.0	<1.0
Chlorobenzene		<1.0	< 1.0	<1.0	<1.0
Chlorodibromomethane		<1.0	< 1.0	<1.0	<1.0
Chloroethane		<1.0	< 1.0	<1.0	<1.0
Chloroform		<1.0	**0.22 J**	**0.25 J**	<1.0
Chloromethane		<1.0	< 1.0	<1.0	<1.0
cis-1,2-Dichloroethene		**0.52 J**	< 1.0	<1.0	**0.37 J**
cis-1,3-Dichloropropene		<1.0	< 1.0	<1.0	<1.0
Dichloromethane		<2.0	< 2.0	<2.0	<2.0
Ethylbenzene		<1.0	< 1.0	<1.0	<1.0
m,p-Xylene		<1.0	< 1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		<5.0	< 5.0	<5.0	<5.0
o-Xylene		<1.0	< 1.0	<1.0	<1.0
Styrene (Monomer)		<1.0	< 1.0	<1.0	<1.0
Tetrachloroethene		**1.4**	**3.7**	**3.7**	**3.2**
Toluene		<1.0	< 1.0	<1.0	<1.0
trans-1,2-Dichloroethene		<1.0	< 1.0	<1.0	<1.0
trans-1,3-Dichloropropene		<1.0	< 1.0	<1.0	<1.0
Trichloroethene		**34.7**	**7.2**	**7.9**	**7.1**
Vinyl chloride		<1.0	< 1.0	<1.0	<1.0
Total VOCs [2]		**38**	**13**	**14**	**12**

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	Field Blank FB011516SX1 1/15/2016	Field Blank FB012716PP1 1/27/2016	Trip Blank TB-010516-KD-1 1/5/2016	Trip Blank TB-011316-PR1 1/15/2016
Volatile Organic Compounds [1]					
1,1,1-Trichloroethane		< 1.0	<1.0	<1.0	< 1.0
1,1,2,2-Tetrachloroethane		< 1.0	<1.0	<0.50	< 1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 5.0	<5.0	<5.0	< 5.0
1,1,2-Trichloroethane		< 1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethane		< 1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethene		< 1.0	<1.0	<1.0	< 1.0
1,2-Dichloroethane		< 1.0	<1.0	<1.0	< 1.0
1,2-Dichloropropane		< 1.0	<1.0	<2.0	< 1.0
2-Butanone (MEK)		< 10	<10	<10	< 10
4-Methyl-2-Pentanone		< 5.0	<5.0	<5.0	< 5.0
Acetone		< 10	<10	<10	< 10
Benzene		< 0.50	<0.50	<0.50	< 0.50
Bromodichloromethane		< 1.0	<1.0	<1.0	< 1.0
Bromoform		< 1.0	<1.0	<1.0	< 1.0
Bromomethane		< 2.0	<2.0	<2.0	< 2.0
Carbon Disulfide		< 2.0	<2.0	<5.0	< 2.0
Carbon Tetrachloride		< 1.0	<1.0	<1.0	< 1.0
Chlorobenzene		< 1.0	<1.0	<1.0	< 1.0
Chlorodibromomethane		< 1.0	<1.0	<1.0	< 1.0
Chloroethane		< 1.0	<1.0	<2.0	< 1.0
Chloroform		< 1.0	<1.0	<1.0	< 1.0
Chloromethane		< 1.0	<1.0	<2.0	< 1.0
cis-1,2-Dichloroethene		< 1.0	<1.0	<1.0	< 1.0
cis-1,3-Dichloropropene		< 1.0	<1.0	<0.50	< 1.0
Dichloromethane		< 2.0	<2.0	<2.0	< 2.0
Ethylbenzene		< 1.0	<1.0	<1.0	< 1.0
m,p-Xylene		< 1.0	<1.0	<1.0	< 1.0
Methyl N-Butyl Ketone (2-Hexanone)		< 5.0	<5.0	<10	< 5.0
o-Xylene		< 1.0	<1.0	<1.0	< 1.0
Styrene (Monomer)		< 1.0	<1.0	<5.0	< 1.0
Tetrachloroethene		< 1.0	<1.0	<1.0	< 1.0
Toluene		< 1.0	<1.0	<1.0	< 1.0
trans-1,2-Dichloroethene		< 1.0	<1.0	<1.0	< 1.0
trans-1,3-Dichloropropene		< 1.0	<1.0	<0.50	< 1.0
Trichloroethene		< 1.0	<1.0	<1.0	< 1.0
Vinyl chloride		< 1.0	<1.0	<1.0	< 1.0
Total VOCs [2]		0	0	0	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Constituents (units in µg/L)	Well ID: / Sample ID: / Sample Date:	Trip Blank TB-011916-KD1 1/19/2016	Trip Blank TB012716PP1 1/27/2016	Trip Blank TB012816PP1 1/28/2016	Trip Blank TB021116PP1 2/11/2016	Trip Blank TB021216AM1 2/12/2016
Volatile Organic Compounds [1]						
1,1,1-Trichloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-trichloro-1,2,2-trifluoroethane		< 5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene		< 1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane		< 1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)		< 10	<10	<10	<10	<10
4-Methyl-2-Pentanone		< 5.0	<5.0	<5.0	<5.0	<5.0
Acetone		< 10	<10	<10	<10	<10
Benzene		< 0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane		< 1.0	<1.0	<1.0	<1.0	<1.0
Bromoform		< 1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane		< 2.0	<2.0	<2.0	<2.0	<2.0
Carbon Disulfide		< 2.0	<2.0	<2.0	<2.0	<2.0
Carbon Tetrachloride		< 1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene		< 1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane		< 1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane		< 1.0	<1.0	<1.0	<1.0	<1.0
Chloroform		< 1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane		< 1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene		< 1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene		< 1.0	<1.0	<1.0	<1.0	<1.0
Dichloromethane		< 2.0	<2.0	<2.0	<2.0	<2.0
Ethylbenzene		< 1.0	<1.0	<1.0	<1.0	<1.0
m,p-Xylene		< 1.0	<1.0	<1.0	<1.0	<1.0
Methyl N-Butyl Ketone (2-Hexanone)		< 5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene		< 1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)		< 1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene		< 1.0	<1.0	<1.0	<1.0	<1.0
Toluene		< 1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene		< 1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene		< 1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene		< 1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride		< 1.0	<1.0	<1.0	<1.0	<1.0
Total VOCs [2]		0	0	0	0	0

Notes and Abbreviations on last page.

Table 1.
Concentrations of Volatile Organic Compounds in Samples Validated in February 2016, Operable Unit 2, Northrop Grumman Systems Corporation Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Notes and Abbreviations:

(1) Sample analysis by Method 8260C

(2) Results rounded to two significant figures.

Results validated following protocols specified in OU2 Groundwater Monitoring Plan (ARCADIS 2014).

Bold	Constituent detected
VOCs	Volatile Organic Compounds
µg/L	Micrograms per liter
J	Constituent value is estimated
<5.0	Constituent not detected above its laboratory quantification limit.
OU2	Operable Unit 2
TB	Trip blank
FB	Field Blank

Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Water District:	Bethpage				Hicksville	
Well ID:	N-8767	N-6916	N-6915	Trip Blank	N-10555	N-8778
Sample ID:	N-8767	N-6916	N-6915	TB120715-PR1	N-10555	N-8778
NYSDEC Sample ID:	RAD-3	RAD-35	RAD-34	NA	RAD-2	RAD-1
Constituents Lab ID:	JC10127-1	JC10127-2	JC10127-3	JC10127-4	JC10277-1	JC10277-2
(units in µg/L) Sample Date:	12/7/2015	12/7/2015	12/7/2015	12/7/2015	12/8/2015	12/8/2015
Volatile Organic Compounds (VOCs) [1]						
1,1,1-Trichloroethane	**0.18 J**	**1.1**	**2.0**	<0.50	**0.23 J**	**0.26 J**
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<0.50	**0.26 J**	**0.15 J**	<0.50	<0.50	<0.50
1,1-Dichloroethane	**0.83**	**3.5**	**5.8**	<0.50	**1.2**	**1.3**
1,1-Dichloroethene	**0.20 J**	**2.5**	**4.3**	<0.50	**0.41 J**	**0.40 J**
1,2-Dichloroethane	<0.50	**1.9**	**1.3**	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	**0.44 J**	**0.18 J**	<0.50	<0.50	<0.50
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	**0.47 J**	**0.35 J**	<0.50	<0.50	**0.12 J**
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	**3.1**	**1.0**	<0.50	**0.22 J**	**0.41 J**
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	**28.9**	**31.6**	<0.50	**1.7**	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	**0.20 J**	**0.40 J**	**0.26 J**	<0.50	**36.9**	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	**0.33 J**	**0.50**	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	**0.12 J**	**177 D**	**131 D**	<0.50	**2.4**	**0.17 J**
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TVOCs [2] :	**1.5**	**220**	**180**	0	**43**	**2.7**
1,4-Dioxane [3]	**0.160**	**1.98**	**3.14**	--	**0.284**	**0.242**

Notes and Abbreviations on last page

Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Water District:	Hicksville					
Well ID:	N-10208	N-8779	Trip Blank	N-9488	N-7562	N-9488
Sample ID:	N-10208	N-8779	TB-120815-PR1	N-9488	N-7562	DUP120915-PR1
NYSDEC Sample ID:	RAD-37	RAD-36	NA	NA	NA	NA
Constituents Lab ID:	JC10277-3	JC10277-4	JC10277-5	JC10393-1	JC10393-2	JC10393-3
(units in µg/L) Sample Date:	12/8/2015	12/8/2015	12/8/2015	12/9/2015	12/9/2015	12/9/2015
Volatile Organic Compounds (VOCs) [1]						
1,1,1-Trichloroethane	**0.19 J**	**0.34 J**	<0.50	**0.80**	**12.8**	**0.78**
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane	**1.1**	<1.0	<1.0	<1.0	**2.5**	<1.0
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	**0.40 J**	<0.50
1,1-Dichloroethane	**0.86**	**2.4**	<0.50	**2.3**	**3.5**	**2.4**
1,1-Dichloroethene	**0.30 J**	**0.66**	<0.50	**1.2**	**16.8**	**1.2**
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	**0.35 J**	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	**0.13 J**	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodifluoromethane	**0.53**	**3.1**	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	**0.33 J**	**1.1**	<0.50	**0.75**	**0.36 J**	**0.72**
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	**0.30 J**	<0.50	<0.50	**0.49 J**	**1.9**	**0.43 J**
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	**0.21 J**	**0.30 J**	<0.50	**0.72**	**5.4**	**0.66**
Toluene	<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
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	**23.5**	**0.50**	<0.50	**4.6**	**8.3**	**4.6**
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TVOCs [2] :	**27**	**8.6**	0	**11**	**52**	**11**
1,4-Dioxane [3]	**0.472**	<0.10	--	**0.592 J**	**8.65**	<0.11J

Notes and Abbreviations on last page

Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Water District:	Hicksville					
Well ID:	N-13097	N-3878	Trip Blank	N-9180	N-8526	N-9212
Sample ID:	N-13097	N-3878	TB120915-PR1	N-9180	N-8526	N-9212
NYSDEC Sample ID:	NA	NA	NA	NA	NA	NA
Constituents Lab ID:	JC10393-4	JC10393-5	JC10393-6	JC10536-1	JC10536-2	JC10536-3
(units in µg/L) Sample Date:	12/9/2015	12/9/2015	12/9/2015	12/10/2015	12/10/2015	12/10/2015
Volatile Organic Compounds (VOCs) [1]						
1,1,1-Trichloroethane	**0.12 J**	**0.51**	<0.50	**0.21 J**	**5.8**	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane	<1.0	<1.0	<1.0	**52.3**	**1.3**	<1.0
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	**0.11 J**	<0.50
1,1-Dichloroethane	**0.26 J**	**1.1**	<0.50	**0.72**	**43.0**	<0.50
1,1-Dichloroethene	**0.17 J**	**0.60**	<0.50	**0.37 J**	**20.9**	**0.18 J**
1,2-Dichloroethane	<0.50	<0.50	<0.50	**2.5**	**0.84**	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<0.50	<0.50	<0.50	<0.50	**0.54**	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	**0.12 J**
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	<0.50	<0.50	**2.2**	**6.0**	**0.70**
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodifluoromethane	<0.50J	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	**1.1**	<0.50
Chloroform	<0.50	**0.20 J**	<0.50	**14.7**	**0.71**	**0.12 J**
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	**3.9**	**19.2**	**2.0**
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	<0.50	<0.50	<0.50	**0.16 J**	**0.23 J**	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	**0.26 J**	<0.50	**18.7**	**17.4**	**77.8**
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50	**0.13 J**	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	**0.50**	<0.50	**78.2 D**	**35.5**	**11.8**
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	**0.15 J**	<0.50
TVOCs [2] :	**0.55**	**3.2**	0	**170**	**150**	**93**
1,4-Dioxane [3]	**0.323**	**0.815**	--	**0.255**	**10.8**	<0.11

Notes and Abbreviations on last page

Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Water District:	Hicksville	Town of Hempstead (Levittown)			South Farmingdale	
Well ID:	Trip Blank	N-8321	N-12560	N-12560	N-7516	Trip Blank
Sample ID:	TB-121015-PR1	N-8321	N-12560	DUP121515-PR1	N-7516	TB-121515-PR1
NYSDEC Sample ID:	NA	NA	NA	NA	NA	NA
Constituents Lab ID:	JC10536-4	JC10845-2	JC10845-1	JC10845-3	JC10845-4	JC10845-5
(units in µg/L) Sample Date:	12/10/2015	12/15/2015	12/15/2015	12/15/2015	12/15/2015	12/15/2015
Volatile Organic Compounds (VOCs) [1]						
1,1,1-Trichloroethane	<0.50	**1.6**	**0.43 J**	**0.44 J**	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<0.50	**0.16 J**	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	<0.50	**3.9**	**2.6**	**2.5**	<0.50	<0.50
1,1-Dichloroethene	<0.50	**2.6**	**0.80**	**0.87**	<0.50	<0.50
1,2-Dichloroethane	<0.50	**0.36 J**	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Disulfide	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Tetrachloride	<0.50	**0.11 J**	**0.11 J**	**0.12 J**	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	<0.50	**1.0**	**0.33 J**	**0.33 J**	<0.50	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	<0.50	**9.0**	**0.92**	**0.98**	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	<0.50	**5.9**	**13.1**	**13.2**	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	**0.34 J**	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	<0.50	**49.3**	**1.3**	**1.3**	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TVOCs [2] :	0	**75**	**20**	**20**	0	0
1,4-Dioxane [3]	--	**1.08**	**0.358**	**0.330**	<0.10	--

Notes and Abbreviations on last page

Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Water District:	Plainview				Village of Farmingdale	
Well ID:	N-6077	N-6580	N-8595	N-12535	N-11004	Trip Blank
Sample ID:	N-6077	N-6580	N-8595	N-12535	N-11004	TB121715-PR1
NYSDEC Sample ID:	NA	NA	NA	NA	NA	NA
Constituents Lab ID:	JC11154-2	JC11154-1	JC11154-4	JC11154-3	JC11154-5	JC1154-6
(units in µg/L) Sample Date:	12/17/2015	12/17/2015	12/17/2015	12/17/2015	12/17/2015	12/17/2015
Volatile Organic Compounds (VOCs) [1]						
1,1,1-Trichloroethane	**1.8**	**0.27 J**	**0.69**	**0.32 J**	<0.50	<0.50
1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1,2-trichloro-1,2,2-trifluoroethane	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,1-Dichloroethane	**7.0**	**1.2**	**1.8**	**1.0**	**0.14 J**	<0.50
1,1-Dichloroethene	**1.8**	**0.42 J**	**0.22 J**	**0.41 J**	<0.50	<0.50
1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
2-Butanone (MEK)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-Pentanone	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Acetone	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromodichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromoform	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Bromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Carbon Disulfide	<0.50J	<0.50J	<0.50J	<0.50J	<0.50J	<0.50J
Carbon Tetrachloride	**0.26 J**	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorobenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodibromomethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chlorodifluoromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Chloroform	**0.48 J**	**0.24 J**	**1.0**	**0.16 J**	**0.095 J**	<0.50
Chloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
cis-1,2-Dichloroethene	**0.50**	**15.3**	**0.22 J**	<0.50	<0.50	<0.50
cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Dichloromethane	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ethylbenzene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
m,p-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Methyl N-Butyl Ketone (2-Hexanone)	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
o-Xylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Styrene (Monomer)	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Tetrachloroethene	**8.7**	**42.2**	**0.12 J**	<0.50	<0.50	<0.50
Toluene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
trans-1,2-Dichloroethene	<0.50	**0.27 J**	<0.50	<0.50	<0.50	<0.50
trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethene	**3.8**	**1.7**	**0.94**	**0.33 J**	<0.50	<0.50
Vinyl chloride	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TVOCs [2] :	**24**	**62**	**5.0**	**2.2**	**0.24**	0
1,4-Dioxane [3]	**0.951**	**0.299**	**0.320 J**	**0.272**	<0.11	--

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Table 2
Concentrations of Volatile Organic Compounds and 1,4-Dioxane in Public Water Supply Wells Sampled by Northrop Grumman Systems Corporation, Operable Unit 2, Bethpage, New York

ARCADIS Design & Consultancy for natural and built assets

Notes and Abbreviations:

(1) VOC sample analysis by Method 8260C
(2) Results rounded to two significant figures
(3) 1,4-Dioxane sample analysis using Method 8270D SIM.
Results validated following organic compound protocols specified in OU2 Groundwater Monitoring Plan (Arcadis 2014)

<0.5	Compound not detected above its laboratory quantification limit.
µg/L	micrograms per liter
Bold	Bold value indicates constituent detected.
D	Concentration is based on a diluted sample analysis
J	Constituent value is estimated
DUP	Duplicate Sample
TVOCs	Total Volatile Organic Compounds
VOC	Volatile Organic Compounds
NA	Not Applicable
--	Not Analyzed