Technical Memorandum for Volatile Organic Compound and 1,4 Dioxane
Results of the April/May 2018 Groundwater Sampling Event
NWIRP Bethpage
December 14, 2018

1.0 Introduction

The Navy is conducting an investigation to evaluate the potential release of volatile organic compounds (VOCs) and the semi-volatile organic compound (SVOC) 1,4 dioxane at the former Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, New York using the existing groundwater monitoring well network. The existing groundwater monitoring well network is currently used to evaluate the release and cleanup of select VOCs, polychlorinated biphenyls, and/or metals in groundwater resulting from operations at the former NWIRP Bethpage. This Technical Memorandum was prepared by Tetra Tech, Inc. (Tetra Tech) under the Naval Facilities Engineering Command (NAVFAC) Atlantic Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62470-16-D-9008 Task Order WE13.

This technical memorandum is an interim report with limited interpretation of results. The results will be further evaluated and compiled into a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Preliminary Assessment/Site Inspection Report and issued in draft form for regulatory review.

2.0 April/May 2018 Groundwater and Surface Water Sampling Event

Tetra Tech conducted a groundwater and surface water sampling event from April 23, 2018 to May 2, 2018. Samples were collected from selected on-property monitoring wells within the existing network. During this investigation, 53 of the 58 reported on-property monitoring wells were sampled. Sample locations are presented on Figure 1.

A down-hole, variable speed, submersible, centrifugal pump with high-density polyethylene (HDPE) tubing was used for groundwater purging and sample collection. The pump was used in combination with a continuous flow through cell for water quality measurements (dissolved oxygen, oxidation-reduction potential, specific conductance, pH, and temperature). Turbidity measurements were made using a separate field turbidity meter.

Sample MH-SW-4001 was collected at a manhole at the discharge of the Bethpage Community Park treatment system. Surface water sample location SW-4002 was collected at the outfall in the Northeast Recharge Basin and consists of water from the Bethpage Community Park treatment system and storm water (during precipitation events). Two samples were collected at both MH-SW-4001 and SW-4002 during a precipitation event (0.21 inch) on April 27, 2018 and on May 1, 2018 during a period of no precipitation.

The samples were submitted to Chemtech in Mountainside, New Jersey for VOCs via EPA Method 8260 and 1,4-dioxane via EPA Method 8270D SIM. Validated laboratory analytical results and field measured water quality parameters for the shallow, intermediate-depth, deep-intermediate groundwater, and surface water are presented in Tables 1, 2, 3, and 4 respectively. Sample locations along with the VOC and 1,4-dioxane analytical results for shallow, intermediate-depth, and deep-intermediate wells are presented in Figures 2, 3, and 4,

respectively. All of the analytical results are presented in Table 5. The analytical results were compared to the New York State Department of Health Maximum Contaminant Levels (MCL). 1,4-Dioxane was also compared to the United States Environmental Protection Agency Tapwater Regional Screening Level (RSL).

Preliminary observations of the data collected during this event are as follows:

- In the shallow monitoring wells (screened interval ranging from 40 to 67 feet below ground surface [bgs]), VOCs were in the groundwater samples from 16 of the 25 wells. The maximum concentration of trichloroethene (TCE) (6.5 µg/L) exceeded the MCL at well MW309S. 1,4-Dioxane was in the groundwater samples from 3 of the 25 wells. The 1,4-dioxane concentrations were below the MCL and RSL.

- In the intermediate monitoring wells (screened interval ranging from 95 to 198 feet bgs), VOCs were in the groundwater samples from 11 of the 18 wells. VOC concentrations exceeded the MCLs in 4 groundwater samples. TCE concentrations exceeded the MCL in 2 groundwater samples with the maximum concentration of 1,400 µg/L occurring at MW305I. Tetrachloroethene (PCE) concentrations exceeded the MCL in 2 groundwater samples with the maximum concentration of 9.7 µg/L occurring at MW303I. Cis-1,2 dichloroethene (DCE) concentrations exceeded the MCL in 2 groundwater samples with the maximum concentration of 7.1 µg/L occurring at MW311I. 1,4-Dioxane was in the groundwater samples from 11 of the 18 wells. The 1,4-dioxane concentrations exceeded the RSL in 6 groundwater samples with the maximum concentration of 4.8 µg/L occurring at MW305I, however, these concentrations were below the MCL.

- In the deep intermediate monitoring wells (screened interval ranging from 180 to 296 feet bgs), VOCs were in the groundwater samples from 6 of 10 wells. The maximum concentration of TCE (710 µg/L) exceeded the MCL at well MW305D. 1,4-Dioxane was in the groundwater samples from 6 of the 10 wells. The 1,4-dioxane concentrations exceeded the RSL in 3 groundwater samples with the maximum concentration of 0.89 µg/L occurring at MW302D, however, these concentrations were below the MCL.

- In the discharge samples from the Bethpage Community Park treatment system (MH-SW-4001), the concentrations of 1,4-dioxane were similar during the precipitation event (0.30 µg/L) and the period of no precipitation (0.34 µg/L). TCE was also detected at a concentration of 0.40 µg/L in the discharge sample collected during the precipitation event.

- In the outfall samples from the Northeast Recharge Basin (SW-4002), 1,4-dioxane was not detected in the sample collected during the precipitation event. 1,4-dioxane was detected at concentration of 0.30 µg/L during the period of no precipitation.

- Acetone was detected in 27 of the 57 analyzed samples. The concentrations of acetone were below the screening criteria in groundwater. In addition, acetone is a common laboratory contaminant. The presence of acetone in the analytical results is not considered to be indicative of a site-related release.

The 2018 March/April sampling event was the first of five planned by the US Navy to evaluate VOC and 1,4-dioxane concentrations in Bethpage area groundwater. Additional sample events are planned for September 2018, December 2018, March 2019, and June 2019. Validated data will be released as it becomes available.

TABLES

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TABLE 1
SHALLOW WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPHNMW24S	BPS1FWM01	BPS1FWM02	BPS1FWM03	BPS1-TT-MW301S
SAMPLE DATE		20180424	20180425	20180425	20180425	20180425
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW
SVOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.02 J	0.05 U	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,1-TRICHLOROETHANE	5	0.75 U	0.85 J	1.2 J	0.75 U	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	1.3 J	0.78 J	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ACETONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.57 J
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.43 J	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.28 J	2.2 J	1.4 J	0.39 J	0.5 U
TRICHLOROETHENE	5	0.5 U	3.3 J	3.8 J	0.36 J	0.5 U

Notes:

SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level

Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 1
SHALLOW WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW302S	BPS1-TT-MW303S	BPS1-TT-MW304S	BPS1-TT-MW305S	BPS1-TT-MW306S
SAMPLE DATE		20180428	20180428	20180425	20180427	20180426
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW
SVOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.17 J	0.15 J	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ACETONE	50	5 J	4.8 J	2.5 U	2.5 U	2.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 J
TRICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.76 J

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TABLE 1
SHALLOW WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW307S	BPS1-TT-MW308S	BPS1-TT-MW309S	BPS1-TT-MW309S	BPS1-TT-MW310S
SAMPLE DATE		20180426	20180501	20180425	20180425	20180430
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		NORMAL	NORMAL	DUP	ORIG	NORMAL
MATRIX		GW	GW	GW	GW	GW
SVOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.69 J	0.66 J	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	2 J
ACETONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.61 J	0.53 J	0.5 U
TRICHLOROETHENE	5	0.5 U	0.5 U	**6.5**	**6.1**	0.51 J

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SHALLOW WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW311S	BPS1-TT-MW312S	BPS1-TT-MW312S	BPS1-TT-MW313S	BPS1-TT-MW314S
SAMPLE DATE		20180429	20180429	20180429	20180425	20180430
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		NORMAL	DUP	ORIG	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW
SVOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ACETONE	50	4.3 J	2.5 J	2.5 UJ	2.5 U	2.5 UJ
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.8 J	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	0.44 J	0.5 U	0.5 U	0.5 U

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FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPTTAOC22MW03	BPTTAOC22MW03	BPTTAOC22MW04	BPTTAOC22MW06	BPTTAOC22MW07
SAMPLE DATE		20180424	20180424	20180424	20180424	20180424
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		DUP	ORIG	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW
SVOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	4.5 J	5.6 J	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
ACETONE	50	2.5 U	29.8	2.5 U	2.5 U	2.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.74 J	0.97 J	0.41 J	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	1.3 J	1.4 J	1.2 J	0.5 U	0.42 J

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SHALLOW WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPTTAOC22MW08	BPTTAOC22MW09	BPTTAOC22MW10
SAMPLE DATE		20180424	20180424	20180424
DEPTH		SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW
SVOC 8270D_SIM (ug/L)				
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)				
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U
ACETONE	50	2.5 U	2.5 U	2.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.57 J
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.34 J	1.2 J	0.64 J

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TABLE 2
INTERMEDIATE WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPHNMW24IR 20180427 INTERMEDIATE NORMAL GW	BPHNMW27I 20180425 INTERMEDIATE NORMAL GW	BPHNMW29IR 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW301I 20180430 INTERMEDIATE NORMAL GW
VOC 8270D_SIM (ug/L)					
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	**1.3 J+**	0.05 U	0.06 J	0.05 U
VOC 8260C (ug/L)					
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.46 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	1.5 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	1.3 J	0.5 U	0.5 U	0.5 U
ACETONE	50	7.2 J	2.5 U	2.5 J	2.5 UJ
CHLOROFORM	7	0.54 J	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.76 J	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	3 J	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	**6.9**	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	**10.9**	0.5 U	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	4.5 J	0.5 U	0.5 U	0.5 U

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J+: Value estimated, bias high
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Groundwater Guidance or Standard Value

TABLE 2
INTERMEDIATE WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW302I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW302I2 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303I2 20180428 INTERMEDIATE NORMAL GW
VOC 8270D_SIM (ug/L)					
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	**3.8 J**	0.42 J	**2 J**	**0.51 J**
VOC 8260C (ug/L)					
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	1.6 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U
ACETONE	50	4.9 J	5.6 J	3.7 J	5.1 J
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.68 J	0.34 J	**9.7**	0.28 J
TRICHLOROETHENE	5	4 J	2.5 J	3.3 J	1.3 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U

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FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW304I1 20180425 INTERMEDIATE NORMAL GW	BPS1-TT-MW304I2 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW305I 20180427 INTERMEDIATE NORMAL GW	BPS1-TT-MW306I 20180426 INTERMEDIATE NORMAL GW
VOC 8270D_SIM (ug/L)					
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	**4.8 J+**	**0.69 J+**
VOC 8260C (ug/L)					
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	2.7 J	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	3.3 J	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	1.2 J	0.5 U
ACETONE	50	2.5 U	4.8 J	2.5 U	2.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	**5.5**	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.48 J	3.2 J	0.35 J
TRICHLOROETHENE	5	0.5 U	0.5 U	**1400 J+**	2.9 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U

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FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW307I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW308I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW309I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW311I 20180429 INTERMEDIATE NORMAL GW
VOC 8270D_SIM (ug/L)					
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.32	0.05 U	0.05 U	0.05 U
VOC 8260C (ug/L)					
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U
ACETONE	50	2.5 U	2.5 U	6.2 J	4.3 J
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	1.5 J
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	**7.1 J**
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	2.4 J
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.42 J	0.9 J	0.5 U	2.2 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 2
INTERMEDIATE WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW312I 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW314I 20180430 INTERMEDIATE NORMAL GW
VOC 8270D_SIM (ug/L)			
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.18 J+	0.22 J+
VOC 8260C (ug/L)			
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U
ACETONE	50	3.4 J	2.5 UJ
CHLOROFORM	7	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC
Groundwater Guidance or Standard Value

TABLE 3
DEEP WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPHNMW29D	BPS1-TT-MW301D	BPS1-TT-MW302D	BPS1-TT-MW302D	BPS1-TT-MW303D
SAMPLE DATE		20180428	20180429	20180428	20180428	20180428
DEPTH		DEEP	DEEP	DEEP	DEEP	DEEP
SAMPLE CODE		NORMAL	NORMAL	DUP	ORIG	NORMAL
MATRIX		GW	GW	GW	GW	GW
VOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.25 J	0.2 J	**0.81 J**	**0.8 J**	0.4 J
VOC 8260C (ug/L)						
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ACETONE	50	3.9 J	4.9 J	6.3 J	5.2 J	5.7 J
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.88 J	0.5 U	1.2 J	1.3 J	1.9 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 3
DEEP WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW304D	BPS1-TT-MW305D	BPS1-TT-MW306D	BPS1-TT-MW307D	BPS1-TT-MW307D
SAMPLE DATE		**20180429**	**20180427**	**20180426**	**20180426**	**20180426**
DEPTH		**DEEP**	**DEEP**	**DEEP**	**DEEP**	**DEEP**
SAMPLE CODE		**NORMAL**	**NORMAL**	**NORMAL**	**ORIG**	**DUP**
MATRIX		**GW**	**GW**	**GW**	**GW**	**GW**
VOC 8270D_SIM (ug/L)						
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	**0.89 J+**	**1.5**	0.05 U	0.05 U
VOC 8260C (ug/L)						
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.68 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	1.2 J	0.5 U	0.5 U	0.5 U
ACETONE	50	5.4 J	6.2 J	2.5 U	2.5 U	5.2 J
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.8 J	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.9 J	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	1 J	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	**710**	2.8 J	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.78 J	0.38 J	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 3
DEEP WELL VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW308D	BPS1-TT-MW309D
SAMPLE DATE		20180430	20180429
DEPTH		DEEP	DEEP
SAMPLE CODE		NORMAL	NORMAL
MATRIX		GW	GW
VOC 8270D_SIM (ug/L)			
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U
VOC 8260C (ug/L)			
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U
ACETONE	50	2.5 UJ	6.2 J
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.78 J
TRICHLOROETHENE	5	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 4
SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	BP-MH-SW4001	BP-MH-SW4001	BP-MH-SW4001	BP-TT-SW4002	BP-TT-SW4002
SAMPLE DATE	20180427	20180501	20180501	20180427	20180501
DEPTH	SURFACE	SURFACE	SURFACE	SURFACE	SURFACE
SAMPLE CODE	NORMAL	ORIG	DUP	NORMAL	NORMAL
MATRIX	SW	SW	SW	SW	SW
SVOC 8270D_SIM (µg/L)					
1,4-DIOXANE (Method 8270D_SIM)	0.3 J+	0.33	0.34	0.05 U	0.3
VOC 8260C (µg/L)					
2-BUTANONE	2.5 U	2.5 U	2.5 U	2.5 J	2.5 U
ACETONE	7.1 J+	3.4 J	6.4 J	15.4 J	7.1 J
TRICHLOROETHENE	0.4 J+	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit

Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPHNMW24IR 20180427 INTERMEDIATE NORMAL GW	BPHNMW24S 20180424 SHALLOW NORMAL GW	BPHNMW27I 20180425 INTERMEDIATE NORMAL GW	BPHNMW29D 20180428 DEEP NORMAL GW	BPHNMW29IR 20180428 INTERMEDIATE NORMAL GW	BP-MH-SW4001 20180427 SURFACE NORMAL SW	BP-MH-SW4001 20180501 SURFACE ORIG SW	BP-MH-SW4001 20180501 SURFACE DUP SW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	**1.3 J+**	0.02 J	0.05 U	0.25 J	0.06 J	0.3 J+	0.33	0.34
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.46 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	1.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	1.3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	7.2 J	2.5 U	2.5 U	3.9 J	2.5 J	7.1 J+	3.4 J	6.4 J
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
BROMOMETHANE	5	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.54 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.76 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	3 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPHNMW24IR 20180427 INTERMEDIATE NORMAL GW	BPHNMW24S 20180424 SHALLOW NORMAL GW	BPHNMW27I 20180425 INTERMEDIATE NORMAL GW	BPHNMW29D 20180428 DEEP NORMAL GW	BPHNMW29IR 20180428 INTERMEDIATE NORMAL GW	BP-MH-SW4001 20180427 SURFACE NORMAL SW	BP-MH-SW4001 20180501 SURFACE ORIG SW	BP-MH-SW4001 20180501 SURFACE DUP SW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	**6.9**	0.28 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	**10.9**	0.5 U	0.5 U	0.88 J	0.5 U	0.4 J+	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	4.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1FWM01	BPS1FWM02	BPS1FWM03	BPS1-TT-MW301D	BPS1-TT-MW301I	BPS1-TT-MW301S	BPS1-TT-MW302D	BPS1-TT-MW302D
SAMPLE DATE		20180425	20180425	20180425	20180429	20180430	20180425	20180428	20180428
DEPTH		SHALLOW	SHALLOW	SHALLOW	DEEP	INTERMEDIATE	SHALLOW	DEEP	DEEP
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	ORIG
MATRIX		GW	GW	GW	GW	GW	GW	GW	GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.2 J	0.05 U	0.05 U	**0.81 J**	**0.8 J**
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.85 J	1.2 J	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	1.3 J	0.78 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	2.5 U	2.5 U	2.5 U	4.9 J	2.5 UJ	2.5 U	6.3 J	5.2 J
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
BROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.57 J	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.43 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1FWM01	BPS1FWM02	BPS1FWM03	BPS1-TT-MW301D	BPS1-TT-MW301I	BPS1-TT-MW301S	BPS1-TT-MW302D	BPS1-TT-MW302D
SAMPLE DATE		20180425	20180425	20180425	20180429	20180430	20180425	20180428	20180428
DEPTH		SHALLOW	SHALLOW	SHALLOW	DEEP	INTERMEDIATE	SHALLOW	DEEP	DEEP
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	DUP	ORIG
MATRIX		GW	GW	GW	GW	GW	GW	GW	GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	2.2 J	1.4 J	0.39 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	3.3 J	3.8 J	0.36 J	0.5 U	0.5 U	0.5 U	1.2 J	1.3 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW302I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW302I2 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW302S 20180428 SHALLOW NORMAL GW	BPS1-TT-MW303D 20180428 DEEP NORMAL GW	BPS1-TT-MW303I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303I2 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303S 20180428 SHALLOW NORMAL GW	BPS1-TT-MW304D 20180429 DEEP NORMAL GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	**3.8 J**	0.42 J	0.17 J	0.4 J	**2 J**	**0.51 J**	0.15 J	0.05 U
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	1.6 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	4.9 J	5.6 J	5 J	5.7 J	3.7 J	5.1 J	4.8 J	5.4 J
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
BROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW302I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW302I2 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW302S 20180428 SHALLOW NORMAL GW	BPS1-TT-MW303D 20180428 DEEP NORMAL GW	BPS1-TT-MW303I1 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303I2 20180428 INTERMEDIATE NORMAL GW	BPS1-TT-MW303S 20180428 SHALLOW NORMAL GW	BPS1-TT-MW304D 20180429 DEEP NORMAL GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.68 J	0.34 J	0.5 U	0.5 U	**9.7**	0.28 J	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	4 J	2.5 J	0.5 U	1.9 J	3.3 J	1.3 J	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW304I1 20180425 INTERMEDIATE NORMAL GW	BPS1-TT-MW304I2 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW304S 20180425 SHALLOW NORMAL GW	BPS1-TT-MW305D 20180427 DEEP NORMAL GW	BPS1-TT-MW305I 20180427 INTERMEDIATE NORMAL GW	BPS1-TT-MW305S 20180427 SHALLOW NORMAL GW	BPS1-TT-MW306D 20180426 DEEP NORMAL GW	BPS1-TT-MW306I 20180426 INTERMEDIATE NORMAL GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	**0.89 J+**	**4.8 J+**	0.05 U	1.5	**0.69 J+**
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.68 J	2.7 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	3.3 J	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	1.2 J	1.2 J	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	2.5 U	4.8 J	2.5 U	6.2 J	2.5 U	2.5 U	2.5 U	2.5 U
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.8 J	**5.5**	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.9 J	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW304I1 20180425 INTERMEDIATE NORMAL GW	BPS1-TT-MW304I2 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW304S 20180425 SHALLOW NORMAL GW	BPS1-TT-MW305D 20180427 DEEP NORMAL GW	BPS1-TT-MW305I 20180427 INTERMEDIATE NORMAL GW	BPS1-TT-MW305S 20180427 SHALLOW NORMAL GW	BPS1-TT-MW306D 20180426 DEEP NORMAL GW	BPS1-TT-MW306I 20180426 INTERMEDIATE NORMAL GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.48 J	0.5 U	1 J	3.2 J	0.5 U	0.5 U	0.35 J
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	**710**	**1400 J+**	0.5 U	2.8 J	2.9 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.78 J	0.5 U	0.5 U	0.38 J	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW306S	BPS1-TT-MW307D	BPS1-TT-MW307D	BPS1-TT-MW307I	BPS1-TT-MW307S	BPS1-TT-MW308D	BPS1-TT-MW308I	BPS1-TT-MW308S
SAMPLE DATE		20180426	20180426	20180426	20180426	20180426	20180430	20180426	20180501
DEPTH		SHALLOW	DEEP	DEEP	INTERMEDIATE	SHALLOW	DEEP	INTERMEDIATE	SHALLOW
SAMPLE CODE		NORMAL	ORIG	DUP	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW	GW	GW	GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.32	0.05 U	0.05 U	0.05 U	0.05 U
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	2.5 U	2.5 U	5.2 J	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
BROMOMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW306S 20180426 SHALLOW NORMAL GW	BPS1-TT-MW307D 20180426 DEEP ORIG GW	BPS1-TT-MW307D 20180426 DEEP DUP GW	BPS1-TT-MW307I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW307S 20180426 SHALLOW NORMAL GW	BPS1-TT-MW308D 20180430 DEEP NORMAL GW	BPS1-TT-MW308I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW308S 20180501 SHALLOW NORMAL GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.76 J	0.5 U	0.5 U	0.42 J	0.5 U	0.5 U	0.9 J	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW309D 20180429 DEEP NORMAL GW	BPS1-TT-MW309I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW309S 20180425 SHALLOW DUP GW	BPS1-TT-MW309S 20180425 SHALLOW ORIG GW	BPS1-TT-MW310S 20180430 SHALLOW NORMAL GW	BPS1-TT-MW311I 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW311S 20180429 SHALLOW NORMAL GW	BPS1-TT-MW312I 20180429 INTERMEDIATE NORMAL GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.18 J+
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.69 J	0.66 J	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	2 J	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	6.2 J	6.2 J	2.5 U	2.5 U	2.5 UJ	4.3 J	4.3 J	3.4 J
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U
BROMOMETHANE	5	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1.5 J	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**7.1 J**	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.4 J	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION SAMPLE DATE DEPTH SAMPLE CODE MATRIX	NYSDOH Maximum Contaminant Level	BPS1-TT-MW309D 20180429 DEEP NORMAL GW	BPS1-TT-MW309I 20180426 INTERMEDIATE NORMAL GW	BPS1-TT-MW309S 20180425 SHALLOW DUP GW	BPS1-TT-MW309S 20180425 SHALLOW ORIG GW	BPS1-TT-MW310S 20180430 SHALLOW NORMAL GW	BPS1-TT-MW311I 20180429 INTERMEDIATE NORMAL GW	BPS1-TT-MW311S 20180429 SHALLOW NORMAL GW	BPS1-TT-MW312I 20180429 INTERMEDIATE NORMAL GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.78 J	0.5 U	0.61 J	0.53 J	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	0.5 U	**6.5**	**6.1**	0.51 J	2.2 J	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW312S	BPS1-TT-MW312S	BPS1-TT-MW313S	BPS1-TT-MW314I	BPS1-TT-MW314S	BPTTAOC22MW03	BPTTAOC22MW03	BPTTAOC22MW04
SAMPLE DATE		20180429	20180429	20180425	20180430	20180430	20180424	20180424	20180424
DEPTH		SHALLOW	SHALLOW	SHALLOW	INTERMEDIATE	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		DUP	ORIG	NORMAL	NORMAL	NORMAL	DUP	ORIG	NORMAL
MATRIX		GW	GW	GW	GW	GW	GW	GW	GW
SVOC 8270D_SIM (µg/L)									
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 UJ	0.05 U	0.22 J+	0.05 U	0.05 U	0.05 U	0.05 U
VOC 8260C (µg/L)									
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	4.5 J	5.6 J	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	2.5 J	2.5 UJ	2.5 U	2.5 UJ	2.5 UJ	2.5 U	29.8	2.5 U
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
BROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.74 J	0.97 J	0.41 J
CIS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 UJ
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.8 J	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPS1-TT-MW312S	BPS1-TT-MW312S	BPS1-TT-MW313S	BPS1-TT-MW314I	BPS1-TT-MW314S	BPTTAOC22MW03	BPTTAOC22MW03	BPTTAOC22MW04
SAMPLE DATE		20180429	20180429	20180425	20180430	20180430	20180424	20180424	20180424
DEPTH		SHALLOW	SHALLOW	SHALLOW	INTERMEDIATE	SHALLOW	SHALLOW	SHALLOW	SHALLOW
SAMPLE CODE		DUP	ORIG	NORMAL	NORMAL	NORMAL	DUP	ORIG	NORMAL
MATRIX		GW	GW	GW	GW	GW	GW	GW	GW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.44 J	0.5 U	0.5 U	0.5 U	0.5 U	1.3 J	1.4 J	1.2 J
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPTTAOC22MW06	BPTTAOC22MW07	BPTTAOC22MW08	BPTTAOC22MW09	BPTTAOC22MW10	BP-TT-SW4002	BP-TT-SW4002
SAMPLE DATE		20180424	20180424	20180424	20180424	20180424	20180427	20180501
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SURFACE	SURFACE
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW	SW	SW
SVOC 8270D_SIM (µg/L)								
1,4-DIOXANE (Method 8270D_SIM)	50, (0.46*)	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.3
VOC 8260C (µg/L)								
1,1,1-TRICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,1,2,2-TETRACHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROETHANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-TRICHLOROTRIFLUOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-DICHLOROETHANE	5	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
1,2-DICHLOROPROPANE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-DICHLOROBENZENE	3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-BUTANONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 J	2.5 U
2-HEXANONE	50	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U	3.8 U
4-METHYL-2-PENTANONE	NL	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
ACETONE	50	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	15.4 J	7.1 J
BENZENE	1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMODICHLOROMETHANE	50	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
BROMOFORM	50	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
BROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
CARBON DISULFIDE	60	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CARBON TETRACHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLORODIBROMOMETHANE	5	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
CHLOROETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROFORM	7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CHLOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
CIS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.57 J	0.5 U	0.5 U
CIS-1,3-DICHLOROPROPENE	0.4	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 U	0.5 U
DICHLORODIFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ETHYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
ISOPROPYLBENZENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
M+P-XYLENES	NL	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYL CYCLOHEXANE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYL TERT-BUTYL ETHER	10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
METHYLENE CHLORIDE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
O-XYLENE	NL	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

TABLE 5
GROUNDWATER AND SURFACE WATER VOLATILE ORGANIC COMPOUND AND 1,4 DIOXANE DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018

LOCATION	NYSDOH Maximum Contaminant Level	BPTTAOC22MW06	BPTTAOC22MW07	BPTTAOC22MW08	BPTTAOC22MW09	BPTTAOC22MW10	BP-TT-SW4002	BP-TT-SW4002
SAMPLE DATE		20180424	20180424	20180424	20180424	20180424	20180427	20180501
DEPTH		SHALLOW	SHALLOW	SHALLOW	SHALLOW	SHALLOW	SURFACE	SURFACE
SAMPLE CODE		NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
MATRIX		GW	GW	GW	GW	GW	SW	SW
STYRENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TETRACHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TOLUENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,2-DICHLOROETHENE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRANS-1,3-DICHLOROPROPENE	0.4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
TRICHLOROETHENE	5	0.5 U	0.42 J	0.34 J	1.2 J	0.64 J	0.5 U	0.5 U
TRICHLOROFLUOROMETHANE	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
VINYL CHLORIDE	2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
SVOC: Semi-Volatile Organic Compound
VOC: Volatile Organic Compound
µg/L: micrograms per liter
U: Not detected
J: Value estimated
J+: Value estimated, bias high
NL: No Limit
* - EPA 1E-06 Tapwater Regional Screening Level
Bolded results are excedances of the NYSDEC Groundwater Guidance or Standard Value

FIGURES

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NAVFAC Naval Facilities Engineering Command

SAMPLING LOCATIONS

NWIRP BETHPAGE, NEW YORK

FILE 112G08005-WE13	SCALE AS NOTED
FIGURE NO. 1	REV DATE 11/20/2018

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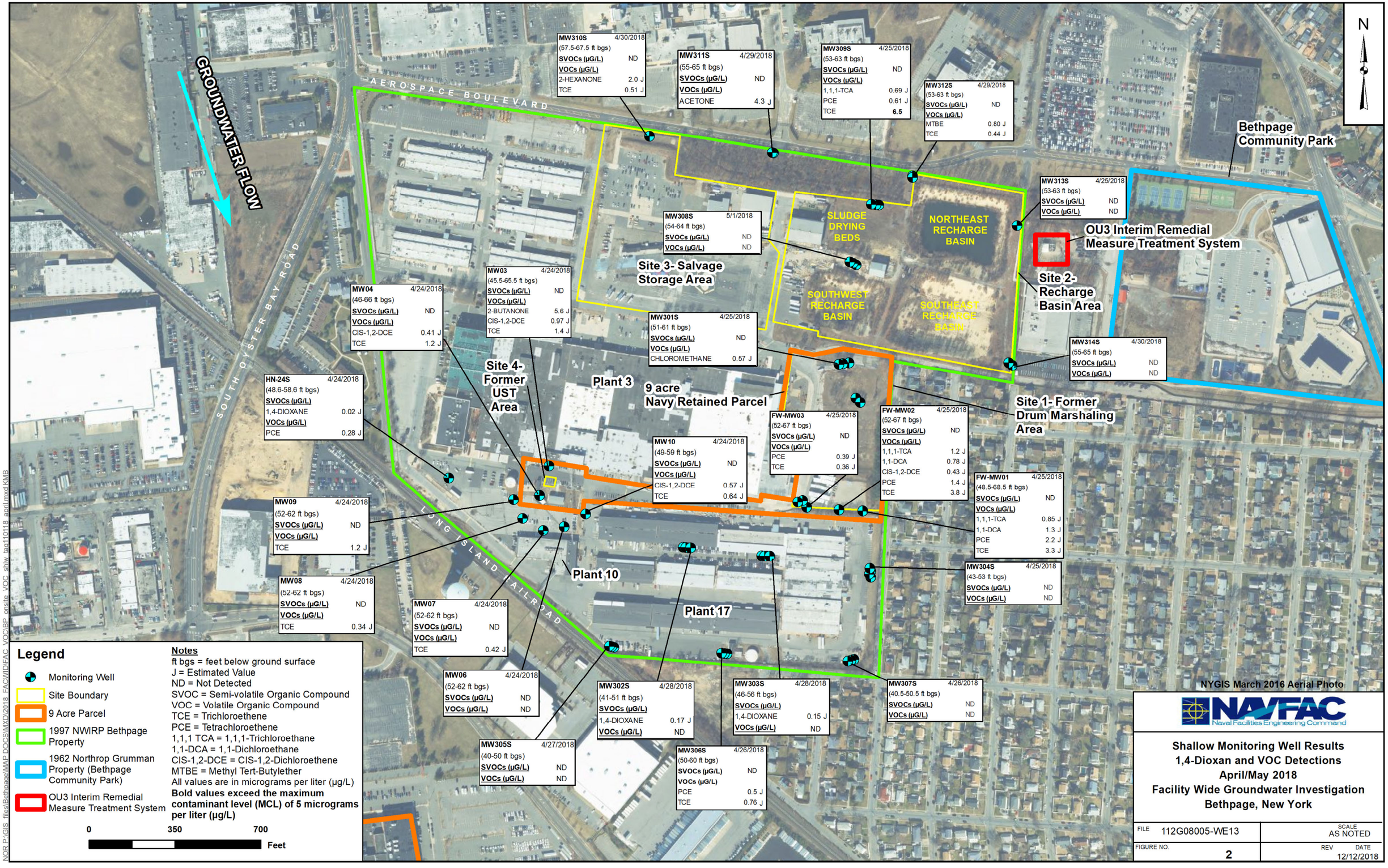

Legend

- Monitoring Well
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

0 350 700 Feet

Notes

ft bgs = feet below ground surface
J = Estimated Value
ND = Not Detected
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound
TCE = Trichloroethene
PCE = Tetrachloroethene
1,1,1 TCA = 1,1,1-Trichloroethane
1,1-DCA = 1,1-Dichloroethane
CIS-1,2-DCE = CIS-1,2-Dichloroethene
MTBE = Methyl Tert-Butylether
All values are in micrograms per liter (µg/L)
Bold values exceed the maximum contaminant level (MCL) of 5 micrograms per liter (µg/L)

NAVFAC Naval Facilities Engineering Command

Shallow Monitoring Well Results 1,4-Dioxan and VOC Detections April/May 2018 Facility Wide Groundwater Investigation Bethpage, New York

FILE	SCALE
112G08005-WE13	AS NOTED
FIGURE NO. 2	REV DATE 12/12/2018

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N

GROUNDWATER FLOW

AEROSPACE BOULEVARD

SOUTH OYSTER BAY ROAD

LONG ISLAND EXPRESSWAY

MW311I 4/29/2018
(160-170 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L)
CHLOROFORM 1.5 J
CIS-1,2-DCE **7.1** J
MTBE 2.4 J
TCE 2.2 J

MW309I 4/26/2018
(160-170 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW312I 4/29/2018
(160-170 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.18 J+
VOCs (µG/L) ND

Bethpage Community Park

SLUDGE DRYING BEDS

NORTHEAST RECHARGE BASIN

OU3 Interim Remedial Measure Treatment System

Site 2- Recharge Basin Area

MW308I 4/26/2018
(156-166 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L)
TCE 0.90 J

Site 3- Salvage Storage Area

SOUTHWEST RECHARGE BASIN

SOUTHEAST RECHARGE BASIN

MW301I 4/30/2018
(130-140 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW314I 4/30/2018
(144-154 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.22 J+
VOCs (µG/L) ND

HN-24IR 4/27/2018
(148-158 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **1.3** J
VOCs (µG/L)
FREON-113 0.46 J
1,1-DCA 1.5 J
1,1-DCE 1.3 J
CHLOROFORM 0.54
CIS-1,2-DCE 0.76 J
MTBE 3.0 J
PCE **6.9**
TCE **10.9**
FREON-11 4.5 J

Site 4- Former UST Area

Plant 3

9 acre Navy Retained Parcel

MW302I2 4/28/2018
(140-150 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.42 J
VOCs (µG/L)
PCE 0.34 J
TCE 2.5 J

HN-29IR 4/24/2018
(120-130 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.06 J
VOCs (µG/L) ND

Site 1- Former Drum Marshaling Area

HN-27I 4/25/2018
(100-110 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW304I1 4/25/2018
(102-112 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW304I2 4/29/2018
(140-150 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L)
PCE 0.48 J

Plant 10

Plant 17

MW302I1 4/28/2018
(110-120 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **3.8** J
VOCs (µG/L)
1,1-DCA 1.6 J
PCE 0.68 J
TCE 4 J

MW307I 4/26/2018
(188-198 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.32
VOCs (µG/L)
TCE 0.42 J

MW305I 4/27/2018
(190-200 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **4.8** J+
VOCs (µG/L)
FREON-113 2.7 J
1,1-DCA 3.3 J
1,1-DCE 1.2 J
CIS-1,2-DCE **5.5**
PCE 3.2 J
TCE **1400** J+

MW303I1 4/28/2018
(95-105 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **2.0** J
VOCs (µG/L)
PCE **9.7**
TCE 3.3 J

MW303I2 4/28/2018
(146-156 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **0.51** J
VOCs (µG/L)
TCE 1.3 J
PCE 0.28 J

MW306I 4/26/2018
(189-199 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **0.69** J+
VOCs (µG/L)
PCE 0.35 J
TCE 2.9 J

NYGIS March 2016 Aerial Photo

Legend

- Monitoring Well
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

Notes
ft bgs = feet below ground surface
J = Estimated Value
J+ = Positive Value Estimated, High Bias
ND = Not Detected
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound
TCE = Trichloroethene
PCE = Tetrachloroethene
Freon-113 = 1,1,2-Trichlorotrifluoroethane
1,1-DCA = 1,1-Dichloroethane
1,1-DCE = 1,1-Dichloroethene
CIS-1,2-DCE = CIS-1,2-Dichloroethene
MTBE = Methyl Tert-Butylether
Freon-11 = Tricholorofluoromethane
All values are in micrograms per liter (µg/L)
Bold values exceed the maximum contaminant level (MCL) of 5 micrograms per liter (µg/L)

0 350 700 Feet

NAVFAC Naval Facilities Engineering Command

Intermediate Monitoring Well Results 1,4-Dioxan and VOC Detections April/May 2018 Facility Wide Groundwater Investigation Bethpage, New York

FILE	112G08005-WE13	SCALE	AS NOTED
FIGURE NO.	3	REV DATE	12/12/2018

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GROUNDWATER FLOW

AEROSPACE BOULEVARD

SOUTH OYSTER BAY ROAD

LONG ISLAND RAILROAD

N

MW309D 4/29/2018
(252-262 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L)
PCE 0.78 J

MW308D 4/30/2018
(250-260 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW301D 4/29/2018
(210-220 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.2 J
VOCs (µG/L) ND

MW302D 4/28/2018
(203-213 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **0.81** J
SVOCs (µG/L)
TCE 1.3 J

HN-29D 4/24/2018
(210-220 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.25 J
VOCs (µG/L)
TCE 0.88 J

MW304D 4/29/2018
(180-190 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW307D 4/28/2018
(276-286 ft bgs)
SVOCs (µG/L) ND
VOCs (µG/L) ND

MW303D 4/28/2018
(208-218 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 0.4 J
VOCs (µG/L)
TCE 1.9 J

MW306D 4/26/2018
(284-294 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE 1.5
VOCs (µG/L)
TCE 2.8 J
FREON-11 0.38 J

MW305D 4/27/2018
(286-296 ft bgs)
SVOCs (µG/L)
1,4-DIOXANE **0.89** J+
VOCs (µG/L)
FREON-113 0.68 J
1,1-DCE 1.2 J
CIS-1,2-DCE 0.8 J
MTBE 0.9 J
PCE 1 J
TCE **710**
FREON-11 0.78 J

Site 3- Salvage Storage Area

SLUDGE DRYING BEDS

NORTHEAST RECHARGE BASIN

SOUTHWEST RECHARGE BASIN

SOUTHEAST RECHARGE BASIN

Site 2- Recharge Basin Area

OU3 Interim Remedial Measure Treatment System

Bethpage Community Park

Site 4- Former UST Area

Plant 3

9 acre Navy Retained Parcel

Site 1- Former Drum Marshaling Area

Plant 10

Plant 17

Legend

- Monitoring Well
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

0 350 700 Feet

Notes
ft bgs = feet below ground surface
J = Estimated Value
J+ = Positive Value Estimated, High Bias
ND = Not Detected
SVOC = Semi-volatile Organic Compound
VOC = Volatile Organic Compound
TCE = Trichloroethene
PCE = Tetrachloroethene
Freon-113 = 1,1,2-Trichlorotrifluoroethane
1,1-DCE = 1,1-Dichloroethene
CIS-1,2-DCE = CIS-1,2-Dichloroethene
MTBE = Methyl Tert-Butylether
Freon-11 = Tricholorofluoromethane
All values are in micrograms per liter (µg/L)
Bold values exceed the maximum contaminant level (MCL) of 5 micrograms per liter (µg/L)

NYGIS March 2016 Aerial Photo

NAVFAC Naval Facilities Engineering Command

Deep Monitoring Well Results
1,4-Dioxan and VOC Detections
April/May 2018
Facility Wide Groundwater Investigation
Bethpage, New York

FILE	112G08005-WE13	SCALE	AS NOTED
FIGURE NO.	4	REV DATE	12/12/2018

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