

Pelton, Jason M (DEC)

From: Wu, Ernie <Ernie.Wu@tetrattech.com>
Sent: Monday, August 26, 2019 8:54 AM
To: Pelton, Jason M (DEC); Karpinski, Steven (HEALTH); Lovejoy, John (NASSAU); Stein, Carol; Garbarini.Doug@epa.gov; rlenz@oysterbay-ny.gov
Cc: Murray, Brian S CIV NAVFAC MIDLANT, IPTNORTH; Fly, Lora B CIV NAVFAC MIDLANT, IPTNE (lora.fly@navy.mil); Brayack, David; Francisco, Ben
Subject: Bethpage OU2 - Q2 2019 Form 1 Results
Attachments: Form 1s 5-1,5-2,5-6_Jun2019.pdf; Form1_RE114_RE106_wells_Jun2019.pdf

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All:

As per discussions between the Navy and NYSDEC, NYSDEC requested that the Navy submit the validated data as soon as the information is available.

Attached are the Form 1 validated data for Second Quarter 2019 from the following wells:

- Outpost well cluster BPOW 5 (BPOW 5-1, BPOW 5-2 and BPOW 5-6)
- RE Monitoring Wells (RE106D1, RE106D2, RE106D3, RE114D1, RE114D2 and RE114D3)

Form 1 data includes both VOCs and 1,4-dioxane results.

Samples were collected between 06/12/2019 to 06/19/2019.

REP061919DC1 was collected on BPOW 5-6.

Form 1 data associated with the OU2 2Q 2019 routine sampling event (from rest of the BPOW 5-7, RE wells and TT102 wells) will continue to be provided over the next several weeks as the data are validated.

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-1
Client ID: TB061219RM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9493.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	J	0.76	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.52	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-1
Client ID: TB061219RM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9493.D

Sample Date: 12-JUN-19
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Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		131.	%				
Dibromofluoromethane		115.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-2
Client ID: FB061219MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9494.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.52	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	J	3.4	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	J	0.35	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-2
Client ID: FB061219MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9494.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		101.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		114.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-3
Client ID: RE114D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9502.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		4.9	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		21	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane		1.2	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		3.5	ug/L	1	1	1.0	0.21
Chloroform		2.5	ug/L	1	1	1.0	0.32
Carbon Tetrachloride		1.9	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	J	0.46	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	E	440	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane		1.3	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-3
Client ID: RE114D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9502.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		94.9	%				
Toluene-d8		97.9	%				
1,2-Dichloroethane-d4		131.	%				
Dibromofluoromethane		117.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-3DL
Client ID: RE114D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9496.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	10	ug/L	10	1	10.	3.6
Vinyl Chloride	U	10	ug/L	10	1	10.	2.5
Bromomethane	U	20	ug/L	10	2	20.	4.9
Chloroethane	U	10	ug/L	10	1	10.	5.5
1,1-Dichloroethene	J	5.8	ug/L	10	1	10.	3.5
Carbon Disulfide	U	10	ug/L	10	1	10.	2.5
Freon-113		21	ug/L	10	1	10.	3.1
Methylene Chloride	U	50	ug/L	10	5	50.	11.
Acetone	U	50	ug/L	10	5	50.	22.
trans-1,2-Dichloroethene	U	10	ug/L	10	1	10.	2.5
1,1-Dichloroethane	U	10	ug/L	10	1	10.	2.1
cis-1,2-Dichloroethene	J	3.6	ug/L	10	1	10.	2.1
Chloroform	U	10	ug/L	10	1	10.	3.2
Carbon Tetrachloride	U	10	ug/L	10	1	10.	2.2
1,1,1-Trichloroethane	U	10	ug/L	10	1	10.	2.0
2-Butanone	U	50	ug/L	10	5	50.	13.
Benzene	U	10	ug/L	10	1	10.	2.6
1,2-Dichloroethane	U	10	ug/L	10	1	10.	2.0
Trichloroethene		320	ug/L	10	1	10.	2.8
1,2-Dichloropropane	U	10	ug/L	10	1	10.	2.5
Bromodichloromethane	U	10	ug/L	10	1	10.	3.3
cis-1,3-Dichloropropene	U	10	ug/L	10	1	10.	1.9
Toluene	U	10	ug/L	10	1	10.	2.7
4-Methyl-2-Pentanone	U	50	ug/L	10	5	50.	13.
Tetrachloroethene	U	10	ug/L	10	1	10.	4.0
trans-1,3-Dichloropropene	U	10	ug/L	10	1	10.	2.0
1,1,2-Trichloroethane	U	10	ug/L	10	1	10.	3.3
Dibromochloromethane	U	10	ug/L	10	1	10.	3.0
2-Hexanone	U	50	ug/L	10	5	50.	17.
Chlorobenzene	U	10	ug/L	10	1	10.	2.2
Ethylbenzene	U	10	ug/L	10	1	10.	2.1
m+p-Xylenes	U	20	ug/L	10	2	20.	5.9
o-Xylene	U	10	ug/L	10	1	10.	2.5
Styrene	U	10	ug/L	10	1	10.	2.3
Bromoform	U	10	ug/L	10	1	10.	2.3

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-3DL
Client ID: RE114D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9496.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
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Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	10	ug/L	10	1	10.	3.8
P-Bromofluorobenzene		95.6	%				
Toluene-d8		98.8	%				
1,2-Dichloroethane-d4		132.	%				
Dibromofluoromethane		116.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-4
Client ID: RE114D2
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9497.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		1.5	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		14	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	J	0.66	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		1.1	ug/L	1	1	1.0	0.21
Chloroform	J	0.66	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	J	0.32	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	J	0.30	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		86	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-4
Client ID: RE114D2
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9497.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		97.0	%				
Toluene-d8		99.7	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		113.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-5
Client ID: RE114D3
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9498.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		1.6	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		20	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	J	0.97	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	J	0.39	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	J	0.23	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		56	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-5
Client ID: RE114D3
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: W9498.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		96.1	%				
Toluene-d8		100.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		118.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-2
Client ID: FB061219MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: G6514.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.085
1,4-Dioxane-D8		62.3	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-3
Client ID: RE114D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: G6515.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		6.0	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		58.7	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-4
Client ID: RE114D2
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: G6516.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		4.9	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		61.4	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5891-5
Client ID: RE114D3
Project: OU2-Navy, Bethpage, NY
SDG: SM5891
Lab File ID: G6517.D

Sample Date: 12-JUN-19
Received Date: 13-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		4.2	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		63.0	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-1
Client ID: TB061319MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1248.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	UJ	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-1
Client ID: TB061319MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1248.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		101.	%				
Toluene-d8		100.	%				
1,2-Dichloroethane-d4		119.	%				
Dibromofluoromethane		120.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-2
Client ID: FB061319MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1249.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	J	0.44	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U J	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-2
Client ID: FB061319MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1249.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		103.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		120.	%				
Dibromofluoromethane		123.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-3
Client ID: RE106D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1254.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		1.9	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		9.7	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene		1.4	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U J	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-3
Client ID: RE106D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1254.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		99.0	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		120.	%				
Dibromofluoromethane		120.	%				

Report of Analytical Results

Client: ARCADIS
 Lab ID: SM5958-4
 Client ID: RE106D2
 Project: OU2-Navy, Bethpage, NY
 SDG: SM5958
 Lab File ID: T1255.D

Sample Date: 13-JUN-19
 Received Date: 14-JUN-19
 Extract Date: 18-JUN-19
 Extracted By: HG
 Extraction Method: SW846 5030
 Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
 Analyst: HG
 Analysis Method: SW846 8260C
 Matrix: AQ
 % Solids: NA
 Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		8.2	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	J	0.59	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		32	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene		5.8	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U J	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-4
Client ID: RE106D2
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1255.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		97.7	%				
Toluene-d8		98.7	%				
1,2-Dichloroethane-d4		121.	%				
Dibromofluoromethane		120.	%				

Report of Analytical Results

Client: ARCADIS
 Lab ID: SM5958-5
 Client ID: RE106D3
 Project: OU2-Navy, Bethpage, NY
 SDG: SM5958
 Lab File ID: T1256.D

Sample Date: 13-JUN-19
 Received Date: 14-JUN-19
 Extract Date: 18-JUN-19
 Extracted By: HG
 Extraction Method: SW846 5030
 Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
 Analyst: HG
 Analysis Method: SW846 8260C
 Matrix: AQ
 % Solids: NA
 Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		1.3	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		72	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		3.1	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		82	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	J	0.62	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene		53	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	UJ	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-5
Client ID: RE106D3
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: T1256.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 18-JUN-19
Extracted By: HG
Extraction Method: SW846 5030
Lab Prep Batch: WG255130

Analysis Date: 18-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 24-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		99.8	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		122.	%				
Dibromofluoromethane		117.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-2
Client ID: FB061319MM1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: G6518.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.085
1,4-Dioxane-D8		59.8	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-3
Client ID: RE106D1
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: G6519.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		10	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		58.8	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-4
Client ID: RE106D2
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: G6520.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		12	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		59.8	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5958-5
Client ID: RE106D3
Project: OU2-Navy, Bethpage, NY
SDG: SM5958
Lab File ID: G6521.D

Sample Date: 13-JUN-19
Received Date: 14-JUN-19
Extract Date: 17-JUN-19
Extracted By: LR/MP
Extraction Method: SW846 3520C
Lab Prep Batch: WG255093

Analysis Date: 18-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 19-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		14	ug/L	1	.25	0.24	0.082
1,4-Dioxane-D8		62.6	%				

Report of Analysis

Client Sample ID: BPOW5-1		Date Sampled: 06/14/19
Lab Sample ID: JC89987-1		Date Received: 06/14/19
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Navy Wells OU2, Bethpage, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B120029.D	1	06/26/19 20:35	BK	n/a	n/a	V1B5795
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: BPOW5-1 Lab Sample ID: JC89987-1 Matrix: AQ - Ground Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/14/19 Date Received: 06/14/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	96%		70-130%
460-00-4	4-Bromofluorobenzene	95%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1066-40-6	Silanol, trimethyl-	9.51	2.8	ug/l	JN R
	Total TIC, Volatile		2.8	ug/l	J R

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: BPOW5-2 Lab Sample ID: JC89987-2 Matrix: AQ - Ground Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/14/19 Date Received: 06/14/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
2199-69-1	1,2-Dichlorobenzene-d4	97%		70-130%		
460-00-4	4-Bromofluorobenzene	96%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
	system artifact	3.67	5.1	ug/l	J	
	Total TIC, Volatile		0	ug/l		

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: TB061419DI1 Lab Sample ID: JC89987-3 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/14/19 Date Received: 06/14/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
2199-69-1	1,2-Dichlorobenzene-d4	96%		70-130%		
460-00-4	4-Bromofluorobenzene	94%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
	system artifact	3.68	1.2	ug/l	J	
	Total TIC, Volatile		0	ug/l		

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JC89987X
 Lab Sample ID: 482597001
 Client Sample: 1X
 Client ID: BPOW5-1
 Batch ID: 1894093
 Run Date: 07/09/2019 19:53
 Prep Date: 07/09/2019 11:30
 Data File: s070919.B\s6g0910.D

Date Collected: 06/14/2019 12:30
 Date Received: 06/21/2019 08:55
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER
 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	UB	0.437	ug/L	0.100	0.100	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JC89987X
 Lab Sample ID: 482597002
 Client Sample: 2X
 Client ID: BPOW5-2
 Batch ID: 1894093
 Run Date: 07/09/2019 20:18
 Prep Date: 07/09/2019 11:30
 Data File: s070919.B\s6g0911.D

Date Collected: 06/14/2019 13:20
 Date Received: 06/21/2019 08:55
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER
 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	UB	0.209	ug/L	0.100	0.100	0.200

2

Report of Analysis

Client Sample ID: BPOW5-6 Lab Sample ID: JC90300-1 Matrix: AQ - Ground Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/19/19 Date Received: 06/20/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%		70-130%
460-00-4	4-Bromofluorobenzene	92%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
	system artifact	3.67	5.9	ug/l	J	
1066-40-6	Silanol, trimethyl-	9.51	.73	ug/l	JN	R
	Total TIC, Volatile		.73	ug/l	J	R

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: REP061919DC1	Date Sampled: 06/19/19
Lab Sample ID: JC90300-2	Date Received: 06/20/19
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Navy Wells OU2, Bethpage, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B120036.D	1	06/27/19 00:20	BK	n/a	n/a	V1B5795
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: REP061919DC1 Lab Sample ID: JC90300-2 Matrix: AQ - Ground Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/19/19 Date Received: 06/20/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	95%		70-130%
460-00-4	4-Bromofluorobenzene	93%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
	system artifact	3.66	6.2	ug/l	J	
1066-40-6	Silanol, trimethyl-	9.51	.61	ug/l	JN	R
	Total TIC, Volatile		.61	ug/l	J	R

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: TB061919DC1	Date Sampled: 06/19/19
Lab Sample ID: JC90300-3	Date Received: 06/20/19
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Navy Wells OU2, Bethpage, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B120037.D	1	06/27/19 00:52	BK	n/a	n/a	V1B5795
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB061919DC1 Lab Sample ID: JC90300-3 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 06/19/19 Date Received: 06/20/19 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
2199-69-1	1,2-Dichlorobenzene-d4	95%		70-130%		
460-00-4	4-Bromofluorobenzene	92%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
	system artifact	3.68	1.1	ug/l	J	
1066-40-6	Silanol, trimethyl-	9.51	8.4	ug/l	JN	
	Total TIC, Volatile		8.4	ug/l	JN	

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.3
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JC90300X
 Lab Sample ID: 483116001
 Client Sample: 1X
 Client ID: BPOW5-6
 Batch ID: 1893618
 Run Date: 07/15/2019 21:34
 Prep Date: 07/15/2019 09:00
 Data File: s071519.B\s6g1520.D

Date Collected: 06/19/2019 12:10
 Date Received: 06/27/2019 08:50
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER
 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		0.349	ug/L	0.100	0.100	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JC90300X
 Lab Sample ID: 483116002
 Client Sample: 2X
 Client ID: REP061919DC1
 Batch ID: 1893618
 Run Date: 07/15/2019 22:23
 Prep Date: 07/15/2019 09:00
 Data File: s071519.B\s6g1522.D

Date Collected: 06/19/2019 00:00
 Date Received: 06/27/2019 08:50
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER
 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		0.355	ug/L	0.100	0.100	0.200

2