NORTHROP GRUMMAN

ISTR Operations Monthly Progress Report

Reporting Period: **February 2021**

Operable Unit 3 VOC Source Area Remedy
Former Grumman Settling Ponds, Bethpage, NY
NYSDEC Site No. 130003A
April 2, 2021

In-Situ Thermal Remediation (ISTR) Operations Monthly Progress Report

NORTHROP GRUMMAN

Prepared per Section 8.2 of the OU3 Remedial Action Work Plan (RAWP) and DER-10, Section 5.7(b):

1. Remedy Progress / Performance Monitoring
2. Ambient Air
3. Significant Activities
4. Schedule / Proposed Modifications
5. Pending RAWP Modifications
6. Data Tables

Remedy Progress / Performance Monitoring February 2021

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ISTR Operations Summary

- Air emissions comply with effluent concentration limits specified in the RAWP
- No exceedances of NYSDEC Community Air Monitoring Plan (CAMP) PID action levels
- No validated ambient air monitoring results above target screening levels
- Liquid discharges comply with criteria specified in the RAWP

Reporting Period: February 2021

System Startup	8/26/2020
Days of Operation Since Startup	186
Estimated cumulative TVOC Mass Removed, lbs	804

Remedy Progress / Performance Monitoring
February 2021

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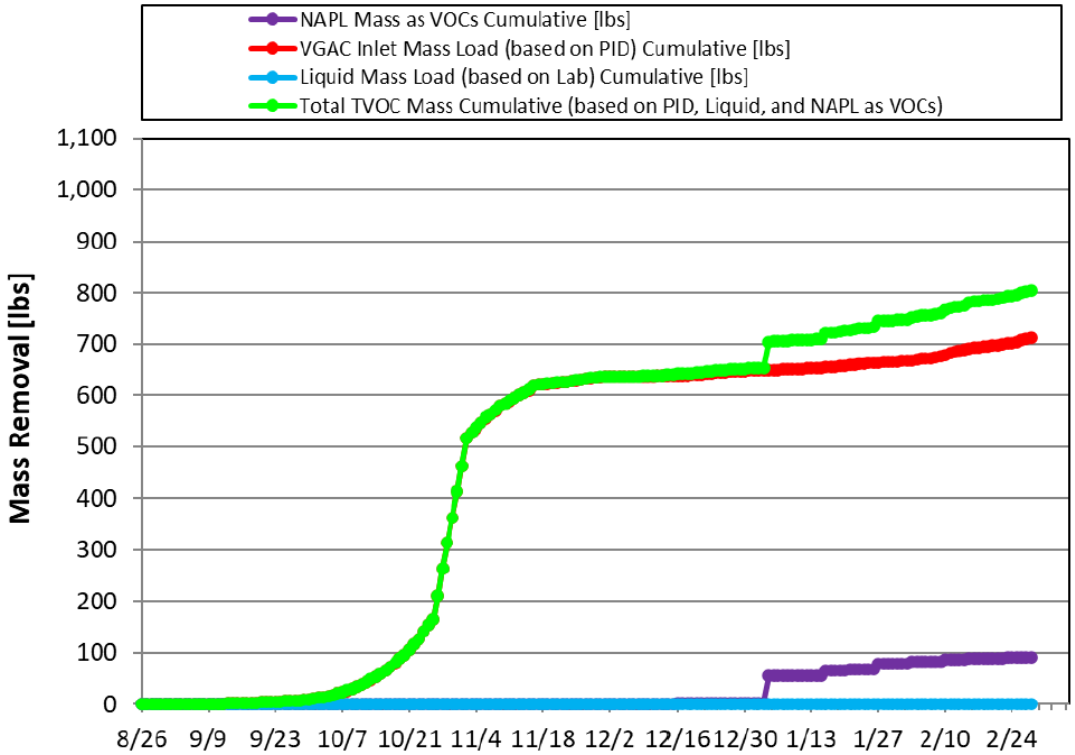
Cumulative TVOC Mass Removed



Estimated 804 lbs of total volatile organic compounds (TVOCs) removed through 2/28

Cumulative TVOC mass is the sum of the following:

- Photoionization detector (PID) TVOC vapor mass
- Liquid TVOC mass
- Condensed non-aqueous phase liquid (NAPL) TVOC mass (estimated NAPL accumulated through 2/28 is included)

Remedy Progress / Performance Monitoring February 2021

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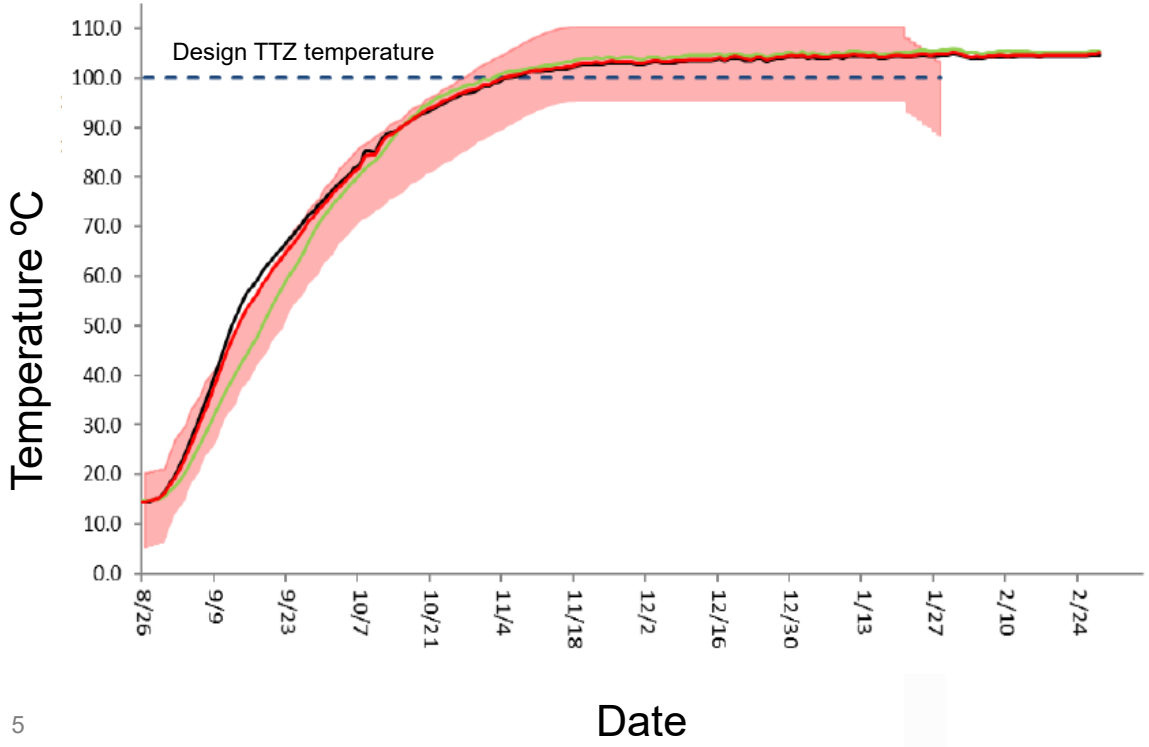
Cumulative Temperature Progression

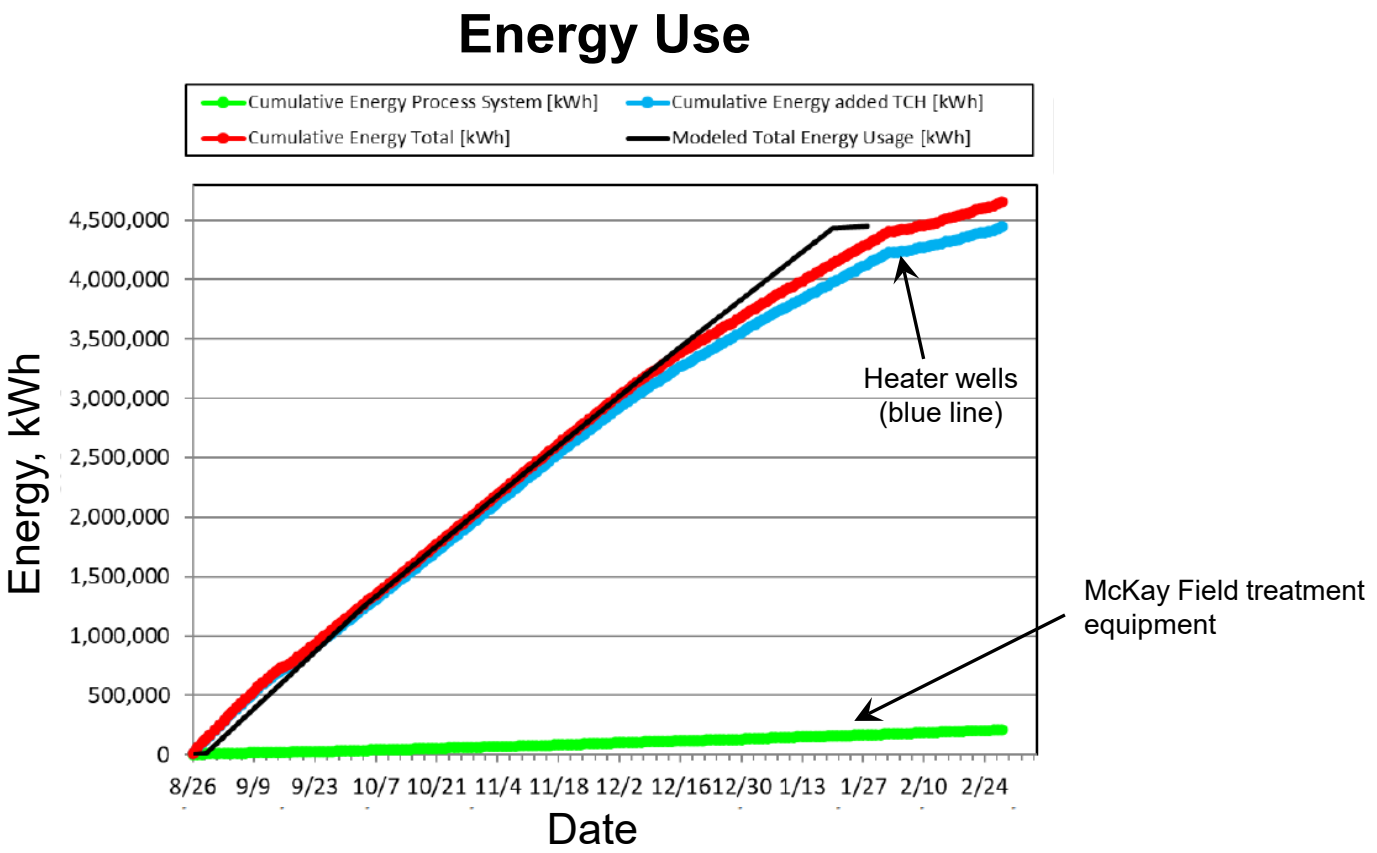


Target treatment zone (TTZ) design temperature is 100ºC

Days of treatment at 100°C through February 28:

- Area 1 = 116 days
- Area 2 = 118 days

Remedy Progress / Performance Monitoring
February 2021



Remedy Progress / Performance Monitoring
February 2021

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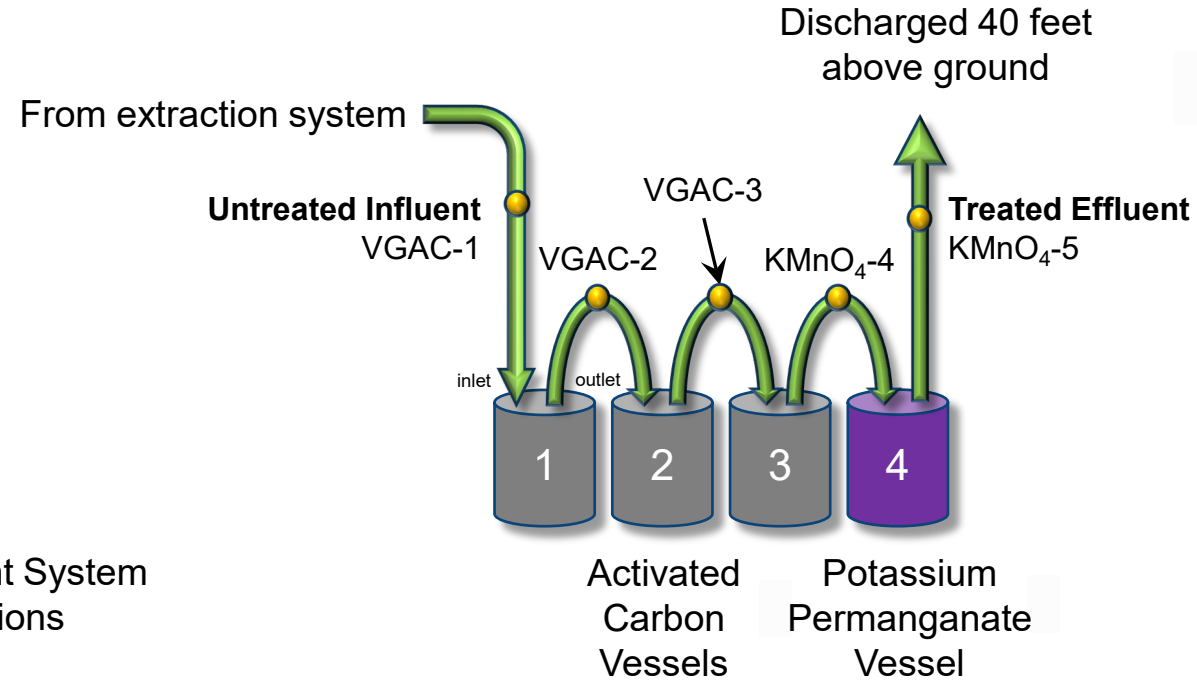
Vapor Treatment System



- Vapor Treatment System Sampling Locations

Remedy Progress / Performance Monitoring February 2021

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Vapor Treatment System

Air emissions meet treatment criteria in the RAWP:

- Stack concentrations less than 7.6 mg/m^3 for TCE and 1.9 mg/m^3 design limits for vinyl chloride throughout February.
- TCE and vinyl chloride concentrations in ambient air samples collected in February were all below target screening levels.

Vapor treatment system analytical results for February provided in Table 1

Remedy Progress / Performance Monitoring February 2021

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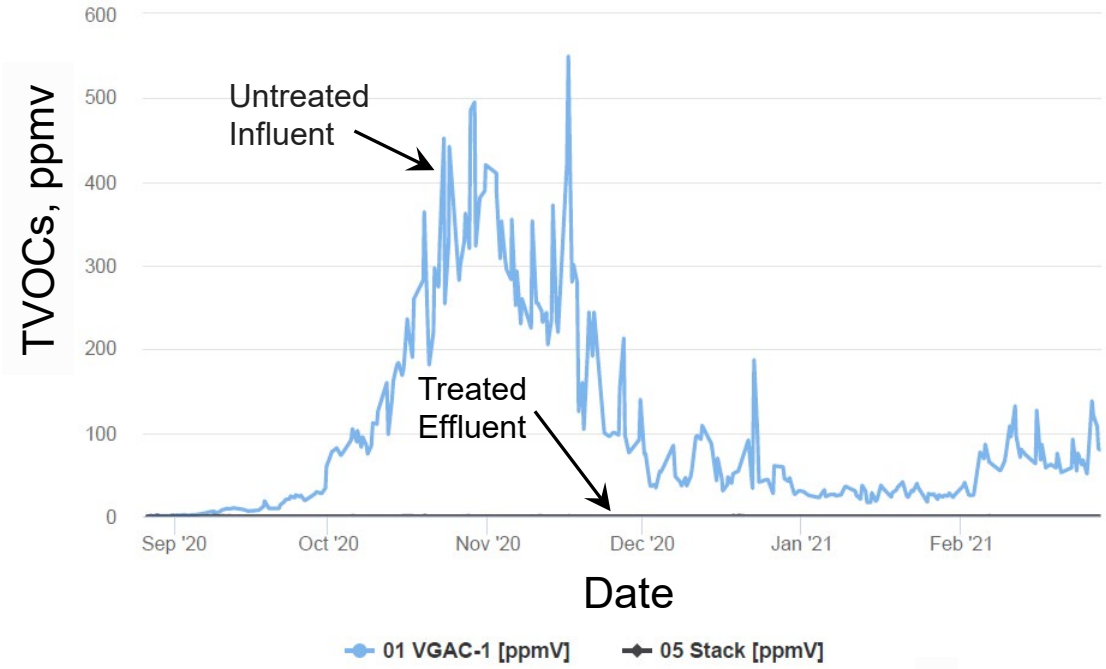
Vapor Treatment System (PID)



TVOC concentrations (PID) on February 27:

- Influent = 107. ppmv
- Effluent = 0.0 ppmv

Maximum TVOC concentrations (PID) during reporting period:

- Influent = 138 ppmv
- Effluent = max 0.4 ppmv

Remedy Progress / Performance Monitoring February 2021

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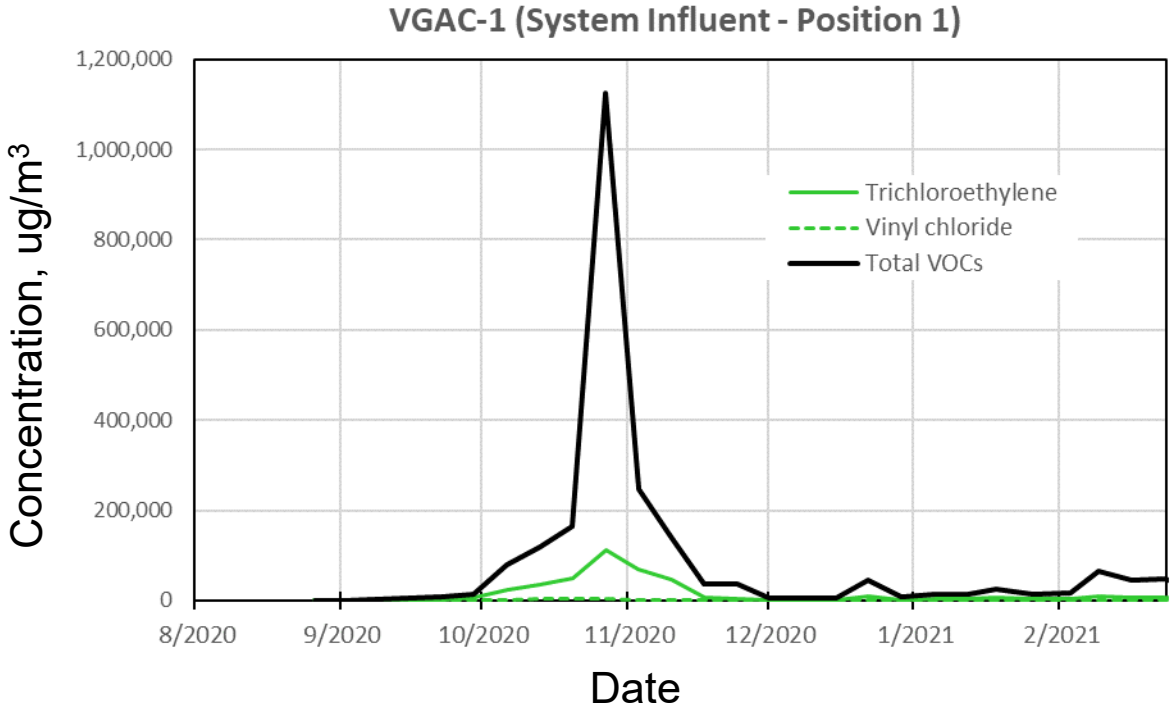
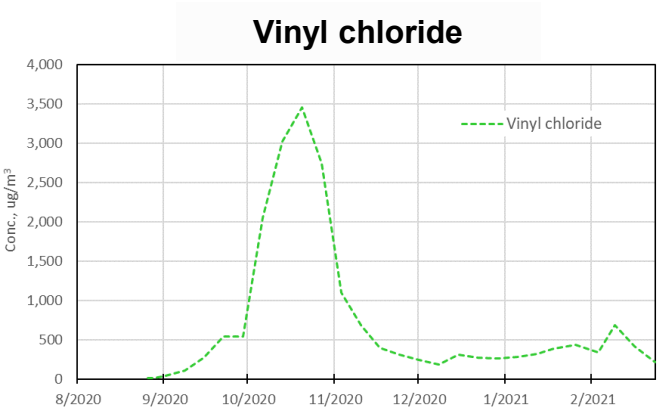
Vapor Treatment System Influent



Influent concentrations (Summa) on 2/23:

- TVOCs = 48,702 ug/m^3
- TCE = 7,090 ug/m^3
- Vinyl chloride = 228 ug/m^3



Remedy Progress / Performance Monitoring
February 2021

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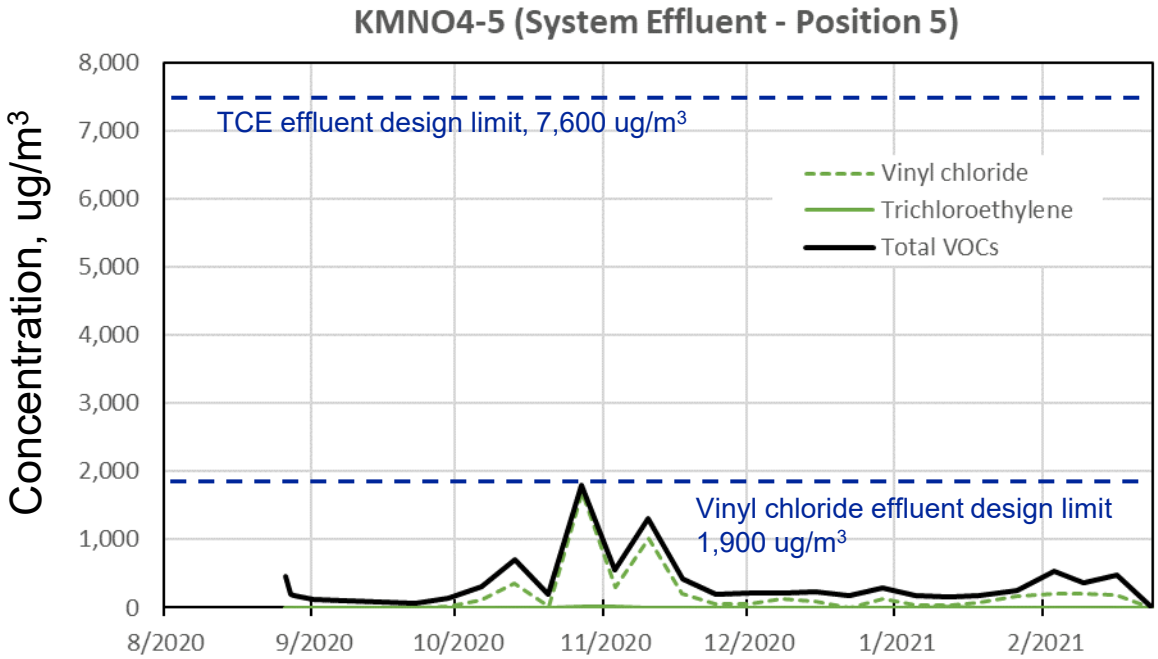
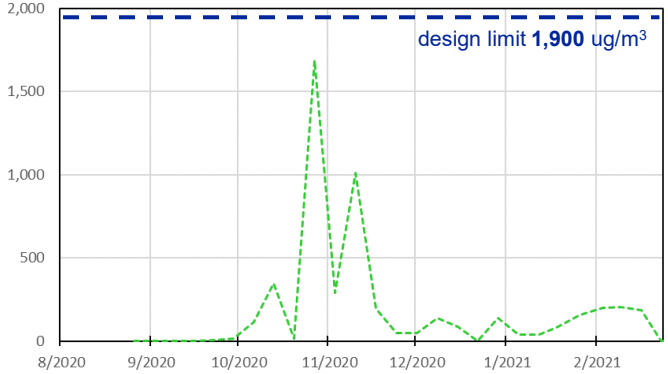
Vapor Treatment System Effluent



Effluent concentrations (Summa) on 2/23:

- TVOCs = 31 ug/m^3
- TCE = 0 ug/m^3
- Vinyl chloride = 0.97ug/m^3

Vinyl chloride



Remedy Progress / Performance Monitoring
February 2021

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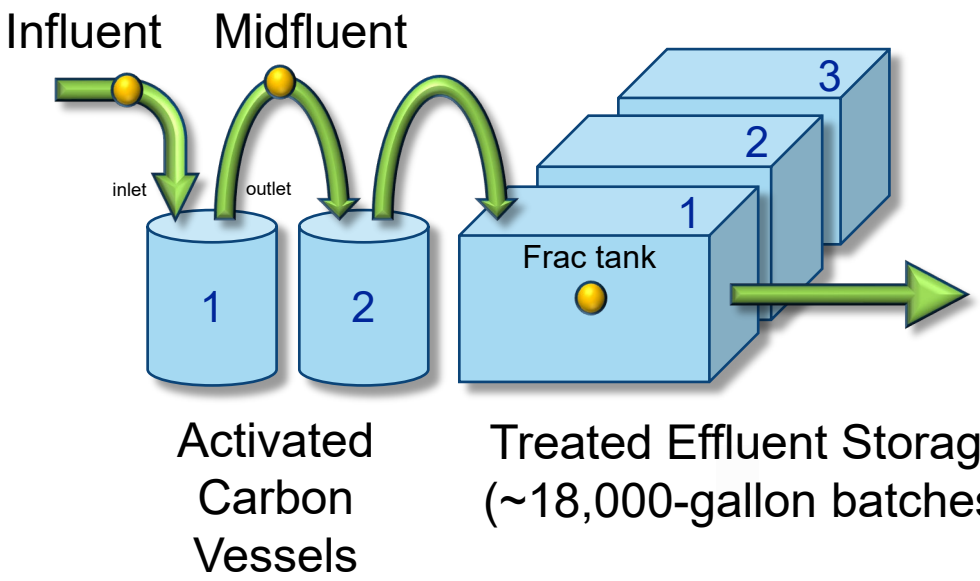
Liquid Treatment System



- Liquid Treatment System Sampling Locations

Treated liquid pumped to OU3 Groundwater Treatment System

Remedy Progress / Performance Monitoring
February 2021

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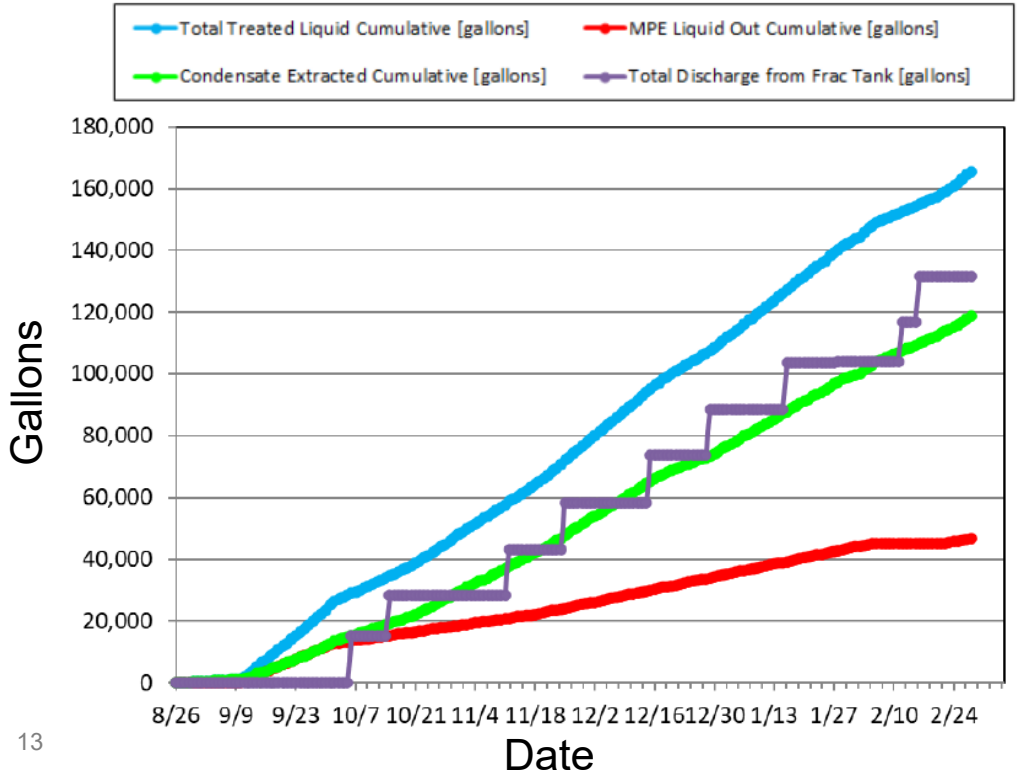
Cumulative Liquid Produced



131,430 gallons treated water discharged to OU3 groundwater treatment system

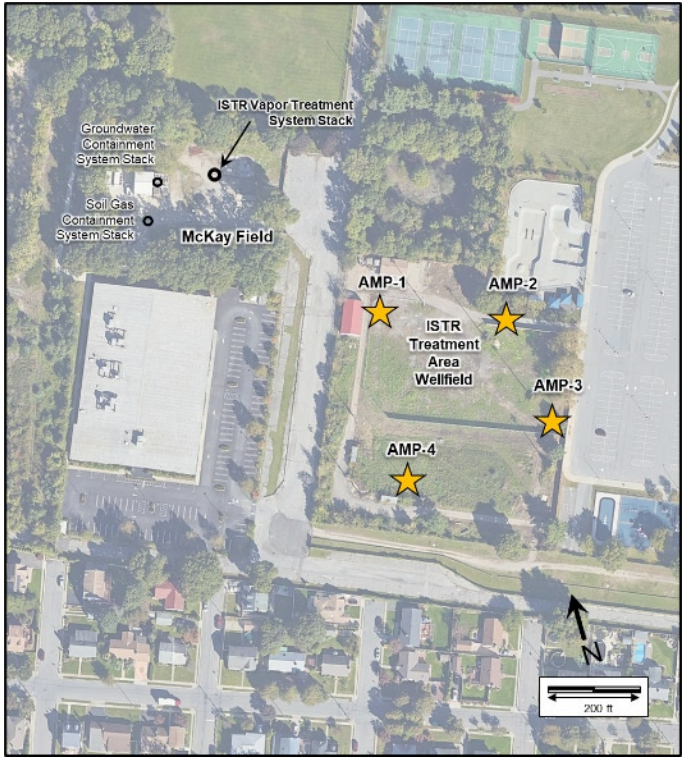
- Frac tank 3 - sampled 2/3, discharge 2/12
- Frac tank 1 - sampled 2/9, discharge 2/16

Liquid treatment system analytical results for February provided in Table 2

Ambient Air PID Monitoring

PID levels comply with Community Air Monitoring Plan (CAMP) criteria in the RAWP:

- PID readings recorded continuously at locations AMP-1 through 4
- Results emailed daily to the State and Town of Oyster Bay (Monday through Saturday)
- PID monitoring results did not exceed NYSDEC's CAMP action level (5 ppm TVOCs for a 15-minute average)

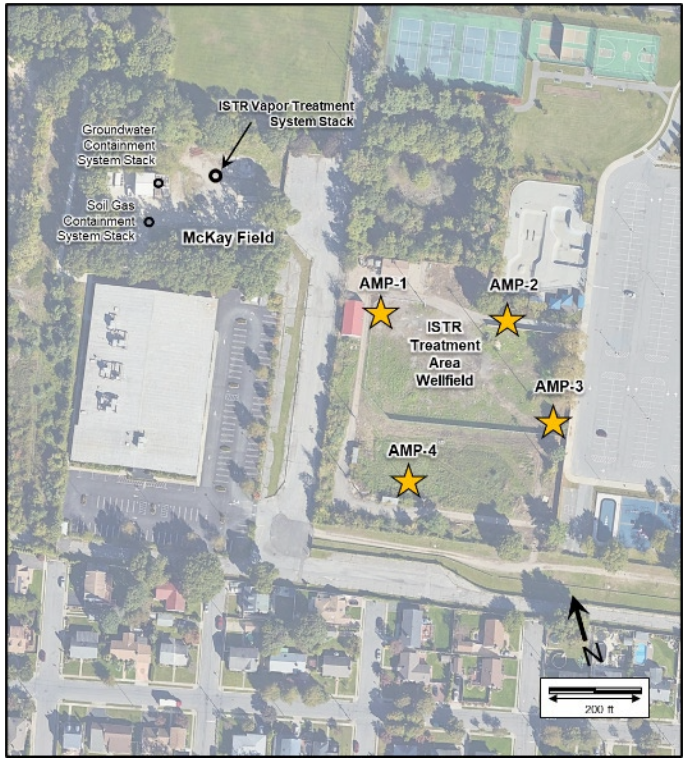


Ambient Air Summa Canister Monitoring

Summa canister levels comply with ambient air criteria in the RAWP:

- Summa canister samples collected 2/3, 2/9, 2/16, and 2/23
- Unvalidated results emailed to the State and Town of Oyster Bay
- Summa canister validated results for compounds of interest (COIs) lower than target screening levels in the CAMP
- Summa canister validated results for non-COIs also lower than target screening levels calculated using CAMP-specified protocol

Ambient air analytical results for February provided in Table 3 (results for samples collected on 1/27 also provided)



Significant Activities

Major equipment repairs and significant downtime:

- Onsite chiller unit failure on 2/6. Repaired and back online 2/8.
- Above ground portion of Heater H-145 damaged by drill rig and taken offline (2/25). Remained offline for rest of reporting period.
- Heater wells and vapor extraction wells shut down during working hours while drilling confirmation sample borings 2/3 – 2/25.

Other significant Activities: None

Planned Significant Activities During Next Two Months

Continue routine system operations, monitoring, and maintenance

Continue confirmation sampling (as needed)

Complete installation of new VEW well screens in select boring locations

Schedule

Activity	RAWP Schedule	Current Status
Remedial System Operation	Q3/20 – Q1/21	On schedule
Post-Treatment Confirmation Sampling	Q1/21	On schedule
Remedy Cool-down	Q1/21-Q2-21	On schedule
Equipment Removal & Site Restoration	Q2/21	On schedule

No significant delays or corrective actions required

No schedule modifications anticipated

Pending RAWP Modifications

None

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - February 2021

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD19891-1 2/3/2021	VGAC-3 JD19891-2 2/3/2020	KMNO4-5 JD19891-3 2/3/2020	Percent Removed
1,1,1-Trichloroethane		< 7.1	< 0.71	< 0.71	
1,1-Dichloroethane		**19** J	< 0.19	< 0.19	
1,1-Dichloroethylene		**94.4**	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		< 6.4	< 0.64	< 0.64	
1,2-Dibromoethane		< 5.5	< 0.55	< 0.55	
1,3,5-Trimethylbenzene		< 6.4	< 0.64	< 0.64	
1,4-Dioxane*		< 7.6	< 0.76	< 0.76	
2,2,4-Trimethylpentane		**125**	< 0.41	< 0.41	
2-Hexanone		< 6.1	< 0.61	< 0.61	
4-Ethyltoluene		< 5.9	< 0.59	< 0.59	
Acetone*		**1,340**	**10**	**19**	
Benzene		**82.4**	< 0.15	**41.2**	
Bromoform		< 16	< 1.6	< 1.6	
Carbon disulfide		**37.1**	< 0.29	< 0.29	
Carbon tetrachloride		< 5.9	< 0.59	< 0.59	
Chloroethane		< 5.0	**2.3**	**1.2** J	
Chloroform		< 3.9	< 0.39	< 0.39	
Chloromethane*		**27.9**	**28.1**	**27.3**	
cis-1,2-Dichloroethylene		**5,350**	**12**	**2.1** J	
Cyclohexane		**78.5**	< 0.30	< 0.30	
Dichlorodifluoromethane		< 3.3	**2.0** J	**2.0** J	
Ethanol		**106**	**161**	**38.1**	
Ethyl acetate		< 5.4	**2.6** J	**10**	
Ethylbenzene		**23** J	< 0.26	**13**	
Heptane		**250**	< 0.29	< 0.29	
Hexane		**35**	< 0.15	**2.1** J	
Isopropyl alcohol*		**28.8**	**2.1**	**9.6**	
m,p-Xylene		**57.8**	**4.3**	**25**	
m-Dichlorobenzene		< 4.6	< 0.46	< 0.46	
Methyl ethyl ketone		**206**	< 0.50	**1.1** J	
Methyl isobutyl ketone		< 5.7	< 0.57	< 0.57	
Methylene chloride*		< 2.0	< 0.20	< 0.20	
o-Dichlorobenzene		**26** J	< 0.52	< 0.52	
o-Xylene		**22** J	< 0.30	**6.5**	
Propylene*		**320**	**309**	**101**	
Styrene		< 3.2	< 0.32	< 0.32	
Tertiary butyl alcohol		**14** J	< 0.17	**1.3** J	
Tetrachloroethylene		< 8.1	< 0.81	< 0.81	
Tetrahydrofuran		< 5.9	< 0.59	< 0.59	
Toluene		**1,930**	**12**	**18**	
trans-1,2-Dichloroethylene		**287**	< 0.11	< 0.11	
Trichloroethylene		**4,590**	**13**	**5.1**	99.9%
Trichlorofluoromethane		< 6.2	< 0.62	< 0.62	
Vinyl acetate		< 4.9	< 0.49	< 0.49	
Vinyl chloride*		**337**	**550**	**202**	
Xylenes (total)		**79.5**	**4.3**	**31**	
TVOCs		**15,387**	**1108**	**525**	

Footnotes:

ug/mg^3 micrograms per cubic meter
* Compound is poorly adsorbed by activated carbon.
< Compound was not detected at or above the indicated value.
J Detected concentration is less than the quantitation limit.
TVOCs total volatile organic compounds
Detections are highlighted.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - February 2021

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD20199-1 2/9/2021	VGAC-3 JD20199-2 2/9/2021	KMNO4-5 JD20199-3 2/9/2021	Percent Removed
1,1,1-Trichloroethane		< 48	< 1.5	< 0.71	
1,1-Dichloroethane		< 13	< 0.38	< 0.19	
1,1-Dichloroethylene		**132 J**	< 0.52	< 0.27	
1,2,4-Trimethylbenzene		< 43	< 1.3	< 0.64	
1,2-Dibromoethane		< 36	< 1.1	< 0.55	
1,3,5-Trimethylbenzene		< 44	< 1.3	< 0.64	
1,4-Dioxane*		< 50	< 1.5	< 0.76	
2,2,4-Trimethylpentane		**343**	< 0.79	< 0.41	
2-Hexanone		< 40	< 1.2	< 0.61	
4-Ethyltoluene		< 39	< 1.2	< 0.59	
Acetone*		**1,460**	**8.1**	**18**	
Benzene		**103 J**	< 0.30	< 0.15	
Bromoform		< 100	< 3.1	< 1.6	
Carbon disulfide		< 20	< 0.59	< 0.29	
Carbon tetrachloride		< 40	< 1.2	< 0.59	
Chloroethane		< 34	< 1.0	**1.0 J**	
Chloroform		< 26	< 0.78	< 0.39	
Chloromethane*		< 8.5	**14**	**14**	
cis-1,2-Dichloroethylene		**11,200**	< 0.37	< 0.19	
Cyclohexane		**107 J**	< 0.62	< 0.30	
Dichlorodifluoromethane		< 22	< 0.64	< 0.33	
Ethanol		**610**	**28.6**	**42.4**	
Ethyl acetate		< 36	< 1.1	< 0.54	
Ethylbenzene		**295**	< 0.52	**3.3 J**	
Heptane		**1,090**	< 0.57	< 0.29	
Hexane		**3,740**	< 0.30	< 0.15	
Isopropyl alcohol*		**10,500**	< 1.3	**5.4**	
m,p-Xylene		**625**	**6.9**	**16**	
m-Dichlorobenzene		< 30	< 0.90	< 0.46	
Methyl ethyl ketone		**170**	**2.9 J**	**3.2**	
Methyl isobutyl ketone		< 39	< 1.2	< 0.57	
Methylene chloride*		**431**	< 0.42	< 0.20	
o-Dichlorobenzene		< 35	< 1.0	< 0.52	
o-Xylene		**169 J**	< 0.61	**2.8 J**	
Propylene*		**344**	**211**	**40.9**	
Styrene		< 21	< 0.64	< 0.32	
Tertiary butyl alcohol		**225**	< 0.33	< 0.17	
Tetrachloroethylene		< 56	< 1.7	< 0.81	
Tetrahydrofuran		< 38	< 1.2	**3.2**	
Toluene		**21,900**	**3.8 J**	**2.7 J**	
trans-1,2-Dichloroethylene		**300**	< 0.23	< 0.11	
Trichloroethylene		**10,400**	< 0.81	**0.81 J**	100%
Trichlorofluoromethane		< 42	< 1.2	< 0.62	
Vinyl acetate		< 32	< 0.95	< 0.49	
Vinyl chloride*		**683**	**506**	**206**	
Xylenes (total)		**795**	**6.9**	**19**	
TVOCs		**64,800**	**781**	**360**	

Footnotes:

ug/mg^3 micrograms per cubic meter
* Compound is poorly adsorbed by activated carbon.
< Compound was not detected at or above the indicated value.
J Detected concentration is less than the quantitation limit.
TVOCs total volatile organic compounds
Detections are highlighted.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - February 2021

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD20415-1 2/16/2021	VGAC-3 JD20415-2 2/16/2021	KMNO4-5 JD20415-3 2/16/2021	Percent Removed
1,1,1-Trichloroethane		< 26	< 0.71	< 0.71	
1,1-Dichloroethane		< 6.9	< 0.19	< 0.19	
1,1-Dichloroethylene		**58.3 J**	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		< 23	**4.9**	< 0.64	
1,2-Dibromoethane		< 20	< 0.55	< 0.55	
1,3,5-Trimethylbenzene		< 24	< 0.64	< 0.64	
1,4-Dioxane*		< 27	< 0.76	< 0.76	
2,2,4-Trimethylpentane		**279**	< 0.41	< 0.41	
2-Hexanone		< 21	< 0.61	< 0.61	
4-Ethyltoluene		< 21	< 0.59	< 0.59	
Acetone*		**2,540**	**32.8**	**32.3**	
Benzene		**65.5 J**	< 0.15	< 0.15	
Bromoform		< 56	< 1.6	< 1.6	
Carbon disulfide		**44.2 J**	< 0.29	< 0.29	
Carbon tetrachloride		< 21	< 0.59	< 0.59	
Chloroethane		< 18	< 0.50	< 0.50	
Chloroform		< 14	< 0.39	< 0.39	
Chloromethane*		< 4.5	**14**	**15**	
cis-1,2-Dichloroethylene		**7,370**	**2.6 J**	< 0.19	
Cyclohexane		< 11	< 0.30	< 0.30	
Dichlorodifluoromethane		< 12	**2.2 J**	**2.2 J**	
Ethanol		**827**	**200**	**194**	
Ethyl acetate		< 19	**1.4 J**	**4.0**	
Ethylbenzene		**180**	< 0.26	< 0.26	
Heptane		**643**	< 0.29	< 0.29	
Hexane		**1,220**	< 0.15	< 0.15	
Isopropyl alcohol*		**5,800**	**4.4**	**13**	
m,p-Xylene		**409**	**7.8**	< 0.61	
m-Dichlorobenzene		< 16	< 0.46	< 0.46	
Methyl ethyl ketone		**228**	**31.6**	< 0.50	
Methyl isobutyl ketone		< 21	< 0.57	< 0.57	
Methylene chloride*		< 7.3	< 0.20	< 0.20	
o-Dichlorobenzene		< 19	< 0.52	< 0.52	
o-Xylene		**112 J**	**3.0 J**	< 0.30	
Propylene*		**143**	**172**	**35.7**	
Styrene		< 11	< 0.32	< 0.32	
Tertiary butyl alcohol		**47.6 J**	< 0.17	< 0.17	
Tetrachloroethylene		**58**	< 0.81	< 0.81	
Tetrahydrofuran		< 21	**95.9**	< 0.59	
Toluene		**16,700**	**9.0**	**4.5**	
trans-1,2-Dichloroethylene		**183**	< 0.11	< 0.11	
Trichloroethylene		**7,850**	**2.1**	**0.86**	100%
Trichlorofluoromethane		< 22	< 0.62	< 0.62	
Vinyl acetate		< 17	< 0.49	< 0.49	
Vinyl chloride*		**417**	**539**	**186**	
Xylenes (total)		**521**	**11**	< 0.30	
TVOCs		**45,175**	**1,123**	**488**	

Footnotes:

ug/mg^3 micrograms per cubic meter
* Compound is poorly adsorbed by activated carbon.
< Compound was not detected at or above the indicated value.
J Detected concentration is less than the quantitation limit.
TVOCs total volatile organic compounds
Detections are highlighted.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - February 2021

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD20645-1 2/23/2021	VGAC-3 JD20645-2 2/23/2021	KMNO4-5 JD20645-3 2/23/2021	Percent Removed
1,1,1-Trichloroethane		< 29	< 1.5	< 0.71	
1,1-Dichloroethane		< 7.7	< 0.38	< 0.19	
1,1-Dichloroethylene		**66.6 J**	< 0.52	< 0.27	
1,2,4-Trimethylbenzene		< 27	< 1.3	< 0.64	
1,2-Dibromoethane		< 22	< 1.1	< 0.55	
1,3,5-Trimethylbenzene		< 27	< 1.3	< 0.64	
1,4-Dioxane*		< 30	< 1.5	< 0.76	
2,2,4-Trimethylpentane		**170**	< 0.79	< 0.41	
2-Hexanone		< 24	< 1.2	< 0.61	
4-Ethyltoluene		< 24	< 1.2	< 0.59	
Acetone*		**2,800**	**22**	**17**	
Benzene		**69.3 J**	< 0.30	< 0.15	
Bromoform		< 63	< 3.1	< 1.6	
Carbon disulfide		**55.4 J**	< 0.59	< 0.29	
Carbon tetrachloride		< 24	< 1.2	< 0.59	
Chloroethane		< 21	< 1.0	< 0.50	
Chloroform		< 16	< 0.78	< 0.39	
Chloromethane*		< 5.2	**19**	< 0.13	
cis-1,2-Dichloroethylene		**5,830**	< 0.37	< 0.19	
Cyclohexane		**87.1 J**	< 0.62	< 0.30	
Dichlorodifluoromethane		< 13	< 0.64	< 0.33	
Ethanol		**560**	**14**	**6.0**	
Ethyl acetate		< 22	< 1.1	< 0.54	
Ethylbenzene		**331**	< 0.52	< 0.26	
Heptane		**652**	< 0.57	< 0.29	
Hexane		**1,570**	< 0.30	< 0.15	
Isopropyl alcohol*		**6,020**	**28.5**	< 0.64	
m,p-Xylene		**791**	< 1.2	< 0.61	
m-Dichlorobenzene		< 19	< 0.90	< 0.46	
Methyl ethyl ketone		**428**	< 1.0	**1.7 J**	
Methyl isobutyl ketone		< 24	< 1.2	< 0.57	
Methylene chloride*		**358**	**92.8**	**4.2**	
o-Dichlorobenzene		< 21	< 1.0	< 0.52	
o-Xylene		**246**	< 0.61	< 0.30	
Propylene*		**213**	**295**	**1.7 J**	
Styrene		< 13	< 0.64	< 0.32	
Tertiary butyl alcohol		**87.6 J**	< 0.33	< 0.17	
Tetrachloroethylene		**81.4**	< 1.7	< 0.81	
Tetrahydrofuran		< 24	< 1.2	< 0.59	
Toluene		**20,800**	**3.8 J**	< 0.22	
trans-1,2-Dichloroethylene		**168**	< 0.23	< 0.11	
Trichloroethylene		**7,090**	< 0.81	< 0.41	100%
Trichlorofluoromethane		< 26	< 1.2	< 0.62	
Vinyl acetate		< 20	< 0.95	< 0.49	
Vinyl chloride*		**228**	**621**	**0.97 J**	
Xylenes (total)		**1,040**	< 0.61	< 0.30	
TVOCs		**48,700**	**1,096**	**31.6**	

Footnotes:

ug/mg^3 micrograms per cubic meter
* Compound is poorly adsorbed by activated carbon.
< Compound was not detected at or above the indicated value.
J Detected concentration is less than the quantitation limit.
TVOCs total volatile organic compounds
Detections are highlighted.

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Table 2. Liquid Treatment System Sampling Results - February 2021

HSW

Analyte / Sample ID:	FRAC3-A191-20210203	LGAC-INF-20210203	FRAC1-A2949-20210209	OU3 Air STRIPPER FINAL EFF-20210216	FRAC2-A4272-20210223	LGAC-INF-20210223	LGAC-MID-20210223
Lab Sample ID:	JD19890-1	JD19890-2	JD20159-1	JD20413-1	JD20644-1/1A	JD20644-2/2A	JD20644-3/3A
Date Sampled:	2/3/2021	2/3/2021	2/9/2021	2/16/2021	2/23/2021	2/23/2021	2/23/2021
Volatile Organic Compounds (ug/L):							
2-Butanone (MEK)	< 6.9	**83.6**	< 6.9	-	< 6.9	**215**	< 6.9
2-Hexanone	< 2.0	**3.2 J**	< 2.0	-	< 2.0	**9.6**	< 2.0
4-Methyl-2-pentanone (MIBK)	< 1.9	**7.3**	< 1.9	-	< 1.9	**5.2**	< 1.9
Acetone*	**8.0 J**	**479**	< 6.0	-	< 6.0	**1560**	< 6.0
cis-1,2-Dichloroethene	< 0.51	**61.6**	< 0.51	-	< 0.51	**17.9**	< 0.51
Ethylbenzene	< 0.60	< 0.60	< 0.60	-	< 0.60	**1.4**	< 0.60
m,p-Xylene	< 0.78	**2.0**	< 0.78	-	< 0.78	**4.8**	< 0.78
Methyl Acetate	< 0.80	< 0.80	< 0.80	-	< 0.80	**2.7 J**	< 0.80
o-Xylene	< 0.59	**1.2**	< 0.59	-	< 0.59	**2.9**	< 0.59
Styrene	< 0.49	< 0.49	< 0.49	-	< 0.49	**0.75 J**	< 0.49
Toluene	< 0.53	**15.6**	< 0.53	-	< 0.53	**47.3**	< 0.53
trans-1,2-Dichloroethene	< 0.54	**0.71 J**	< 0.54	-	< 0.54	< 0.54	< 0.54
Trichloroethene	< 0.53	**11.8**	< 0.53	-	< 0.53	**5.5**	< 0.53
Xylene (total)	< 0.59	**3.2**	< 0.59	-	< 0.59	**7.7**	< 0.59
TVOCs	**8**	**666**	**0**		**0**	**1,873**	**0**
Semivolatile Organic Compounds (ug/L):							
1,1'-Biphenyl	< 0.21	**2.5**	< 0.21	-	< 0.22	**3.6**	< 0.23
1,4-Dioxane	< 0.66	**27.1**	< 0.66	-	< 0.67	**20.6**	< 0.71
2,3,4,6-Tetrachlorophenol	< 1.5	**1.7 J**	< 1.5	-	< 1.5	< 1.6	< 1.6
2,4-Dimethylphenol	< 2.4	**805**	< 2.4	-	< 2.5	**797**	< 2.7
2-Methylnaphthalene	< 0.21	**4.2**	< 0.21	-	< 0.21	**4.6**	< 0.23
2-Methylphenol	< 0.89	**302**	< 0.89	-	< 0.90	**359**	< 0.97
3&4-Methylphenol	< 0.88	**1310**	< 0.88	-	< 0.89	**1600**	< 0.96
Acenaphthene	< 0.19	**0.60 J**	< 0.19	-	< 0.19	**1.6**	< 0.21
Acetophenone	< 0.21	**20.6**	< 0.21	-	< 0.21	**59.4**	< 0.23
Anthracene	< 0.21	**0.48 J**	< 0.21	-	< 0.21	**0.60 J**	< 0.23
Benzaldehyde	< 0.29	< 0.32	< 0.29	-	< 0.29	**17.2**	< 0.31
Butyl benzyl phthalate	**1.4 JB**	< 0.51	< 0.46	-	< 0.46	< 0.51	**1.3 J**
Carbazole	< 0.23	**0.47 J**	< 0.23	-	< 0.23	**0.82 J**	< 0.25
Dibenzofuran	< 0.22	**0.93 J**	< 0.22	-	< 0.22	**1.2 J**	< 0.24
Dimethyl phthalate	< 0.22	**6.7**	< 0.22	-	< 0.22	**12.2**	< 0.24
Fluoranthene	< 0.17	**0.61 J**	< 0.17	-	< 0.17	**0.43 J**	< 0.18
Fluorene	< 0.17	**1.5**	< 0.17	-	< 0.17	**2.0**	< 0.19
Naphthalene	< 0.23	**3.5**	< 0.23	-	< 0.24	**4.6**	**0.34 J**
Phenanthrene	< 0.18	**3.7**	< 0.18	-	< 0.18	**4.0**	< 0.19
Phenol	< 0.39	**264**	< 0.39	-	< 0.40	**490**	< 0.43
Pyrene	< 0.22	**0.40 J**	< 0.22	-	< 0.22	**0.27 J**	< 0.24
Semivolatile Organic Compounds (SIM) (ug/L):							
1,4-Dioxane	< 0.050	**25.7**	< 0.050	-	< 0.051	**14.1**	< 0.054
Polychlorinated Biphenyls (ug/L):							
Aroclor 1016	< 0.13	< 0.13	< 0.13	-	< 0.13	< 0.13	< 0.13
Aroclor 1221	< 0.28	< 0.28	< 0.28	-	< 0.28	< 0.28	< 0.28
Aroclor 1232	< 0.17	< 0.17	< 0.17	-	< 0.17	< 0.17	< 0.17
Aroclor 1242	< 0.15	< 0.15	< 0.15	-	< 0.15	< 0.15	< 0.15
Aroclor 1248	< 0.084	< 0.084	< 0.084	-	< 0.084	< 0.084	< 0.084
Aroclor 1254	< 0.28	< 0.28	< 0.28	-	< 0.28	**1.3**	< 0.28
Aroclor 1260	< 0.10	< 0.10	< 0.10	-	< 0.10	< 0.10	< 0.10
Aroclor 1262	< 0.13	< 0.13	< 0.13	-	< 0.13	< 0.13	< 0.13
Aroclor 1268	< 0.12	< 0.12	< 0.12	-	< 0.12	< 0.12	< 0.12
Metals (mg/L):							
Cadmium	< 3.0	< 3.0	--	-	< 3.0	< 3.0	< 3.0
Chromium	< 10	< 10	--	-	< 10	< 10	< 10
Iron**	**186**	**4970**	**644**	**216**	320	1,580	2,650
Manganese**	**439**	**180**	**231**	**96.3**	398	110	107
Mercury	< 0.20	< 0.20	< 0.20	-	< 0.20	< 0.20	< 0.20
General Chemistry (mg/L):							
Nitrogen, Nitrate	< 0.11	**0.29**	**0.40**	-	< 0.12	< 0.11	< 0.11
Nitrogen, Nitrate + Nitrite	**0.19**	**0.30**	**0.61**	-	**0.25**	< 0.10	< 0.10
Nitrogen, Nitrite	**0.12**	< 0.010	**0.21**	-	**0.23**	**0.026**	< 0.010
Nitrogen, Total Kjeldahl	**4.0**	**5.5**	**4.5**	-	**7.7**	**8.3**	**7.5**

Footnotes:

ug/L	micrograms per liter
mg/L	milligrams per liter
*	Poorly adsorbed on activated carbon.
**	Generated by Method 6010D; all other metals results generated by Method 200.7.
<	Analyte was not detected at or above the indicated value.
J	Detected concentration is less than the laboratory quantitation limit.
B	Analyte was detected in the laboratory method blank.
TVOCs	Total volatile organic compounds

Geosyntec consultants

Table 1: Ambient Air Laboratory Results (2021-01-21 through 2021-01-27)

Analyte	Target Screening Level (µg/m³)[1,3]	95% of Concentration Distribution NYSDOH Background Air (µg/m³)[2]	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03*	AMP-04	AMP-04-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.22	< 0.20	< 0.14	< 0.20	< 0.20
1,1-Dichloroethane	45	< 0.25	< 0.16	< 0.15	< 0.10	< 0.15	< 0.14
1,1-Dichloroethene	8	<0.25	< 0.078	< 0.074	< 0.050	< 0.072	< 0.071
1,2-Dichloroethane	3	< 0.25	< 0.16	< 0.15	< 0.10	< 0.15	< 0.14
Benzene	8	5.8	**0.71**	**0.57**	**0.37**	**0.46**	**0.46**
Ethyl-benzene	29	1.9	< 0.17	< 0.16	< 0.11	< 0.16	< 0.16
m,p-Xylene	10	3.1	< 0.34	< 0.32	**0.22**	**0.36**	**0.35**
o-Xylene	10	2.3	< 0.17	< 0.16	< 0.11	< 0.16	< 0.16
Tetrachloroethene	30	1.6	< 0.27	< 0.25	< 0.17	< 0.24	< 0.24
Toluene	521	21	**1.3**	**1.0**	**0.49**	**0.74**	**0.73**
trans-1,2-Dichloroethene	82	NA2	< 0.78	< 0.74	< 0.50	< 0.72	< 0.71
Trichloroethene	2	0.5	< 0.21	< 0.20	< 0.14	< 0.19	< 0.19
Vinyl Chloride	8	< 0.25	< 0.051	< 0.048	< 0.032	< 0.046	< 0.046
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.27	< 0.26	< 0.17	< 0.25	< 0.25
1,1,2-Trichloroethane	0.21	< 0.25	< 0.22	< 0.20	< 0.14	< 0.20	< 0.20
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.30	< 0.29	< 0.20	< 0.28	< 0.28
1,4-Dichlorobenzene	7	0.8	< 0.24	< 0.22	< 0.15	< 0.22	< 0.22
Carbon Tetrachloride	12	1	**0.49**	**0.50**	**0.47**	**0.45**	**0.44**
Chloroethane	417	0.4	< 0.26	< 0.25	< 0.17	< 0.24	< 0.24
Chloroform	3	0.5	< 0.19	< 0.18	< 0.12	< 0.18	< 0.18
Chloromethane	310	4.6	< 2.0	< 1.9	< 1.3	< 1.9	< 1.8
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.16	< 0.15	< 0.10	< 0.14	< 0.14
Freon 114	NA1	1.3	< 0.28	< 0.26	< 0.18	< 0.25	< 0.25
Freon 12	100	11	**3.3**	**2.8**	**2.3**	**2.2**	**2.2**
Methyl tert-butyl ether	260	NA2	< 0.71	< 0.67	< 0.46	< 0.65	< 0.65

Notes: µg/m³ - micrograms per cubic meter

< - indicates not detected at or above the indicated value

J - indicates sample result is estimated

Bold - indicates detections

R - rejected after data validation

NA1 - no criteria given in the EPA RSL Calculator

NA2 - NYSDOH did not include this compound in the guidance document[2]

* - Sample collected after 5 days due to low vacuum

[1] Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

[2] NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

[3] Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Report Generated: 2021-02-24

Table 3: Ambient Air Laboratory Results (2021-01-28 through 2021-02-03)

Analyte	Target Screening Level (µg/m³)[1,3]	95% of Concentration Distribution NYSDOH Background Air (µg/m³)[2]	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02*	AMP-03*	AMP-04	AMP-01-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.17	< 0.14	< 0.14	< 0.17	< 0.17
1,1-Dichloroethane	45	< 0.25	< 0.13	< 0.10	< 0.10	< 0.12	< 0.13
1,1-Dichloroethene	8	<0.25	< 0.063	< 0.050	< 0.050	< 0.061	< 0.062
1,2-Dichloroethane	3	< 0.25	< 0.13	< 0.10	< 0.10	< 0.12	< 0.13
Benzene	8	5.8	**0.40**	**0.40**	**0.38**	**0.40**	**0.41**
Ethyl-benzene	29	1.9	< 0.14	< 0.11	< 0.11	< 0.13	< 0.14
m,p-Xylene	10	3.1	< 0.27	< 0.22	< 0.22	< 0.27	< 0.27
o-Xylene	10	2.3	< 0.14	< 0.11	< 0.11	< 0.13	< 0.14
Tetrachloroethene	30	1.6	< 0.21	< 0.17	< 0.17	< 0.21	< 0.21
Toluene	521	21	**0.33**	**0.29**	**0.28**	**0.31**	**0.33**
trans-1,2-Dichloroethene	82	NA2	< 0.63	< 0.50	< 0.50	< 0.61	< 0.62
Trichloroethene	2	0.5	< 0.17	**0.24**	< 0.14	< 0.17	< 0.17
Vinyl Chloride	8	< 0.25	< 0.040	< 0.032	< 0.032	< 0.040	< 0.040
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.22	< 0.17	< 0.17	< 0.21	< 0.22
1,1,2-Trichloroethane	0.21	< 0.25	< 0.17	< 0.14	< 0.14	< 0.17	< 0.17
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.24	< 0.19	< 0.20	< 0.24	< 0.24
1,4-Dichlorobenzene	7	0.8	< 0.19	< 0.15	< 0.15	< 0.19	< 0.19
Carbon Tetrachloride	12	1	**0.50**	**0.49**	**0.50**	**0.49**	**0.49**
Chloroethane	417	0.4	< 0.21	< 0.17	< 0.17	< 0.20	< 0.21
Chloroform	3	0.5	< 0.15	< 0.12	< 0.12	< 0.15	< 0.15
Chloromethane	310	4.6	< 1.6	< 1.3	< 1.3	< 1.6	< 1.6
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.12	**0.12**	< 0.10	< 0.12	< 0.12
Freon 114	NA1	1.3	< 0.22	< 0.18	< 0.18	< 0.22	< 0.22
Freon 12	100	11	**2.1**	**2.1**	**2.1**	**2.1**	**2.1**
Methyl tert-butyl ether	260	NA2	< 0.57	< 0.45	< 0.46	< 0.56	< 0.57

Notes: µg/m³ - micrograms per cubic meter

< - indicates not detected at or above the indicated value

J - indicates sample result is estimated

Bold - indicates detections

R - rejected after data validation

NA1 - no criteria given in the EPA RSL Calculator

NA2 - NYSDOH did not include this compound in the guidance document[2]

* - Canister closed after 5 days due to low vacuum

[1] Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

[2] NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

[3] Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2021-02-03 through 2021-02-09)

Analyte	Target Screening Level (µg/m³)[1,3]	95% of Concentration Distribution NYSDOH Background Air (µg/m³)[2]	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-03-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.44	< 0.32	< 0.29	< 0.45	< 0.45
1,1-Dichloroethane	45	< 0.25	< 0.32	< 0.24	< 0.22	< 0.34	< 0.33
1,1-Dichloroethene	8	<0.25	< 0.16	< 0.12	< 0.11	< 0.16	< 0.16
1,2-Dichloroethane	3	< 0.25	< 0.32	< 0.24	< 0.22	< 0.34	< 0.33
Benzene	8	5.8	**0.71**	**0.56**	**0.69**	**0.72**	**0.71**
Ethyl-benzene	29	1.9	< 0.35	< 0.25	< 0.23	< 0.36	< 0.36
m,p-Xylene	10	3.1	< 0.69	< 0.50	< 0.46	< 0.72	< 0.71
o-Xylene	10	2.3	< 0.35	< 0.25	< 0.23	< 0.36	< 0.36
Tetrachloroethene	30	1.6	< 0.54	< 0.39	< 0.36	< 0.56	< 0.56
Toluene	521	21	**1.1**	**0.75**	**0.93**	**0.95**	**1.0**
trans-1,2-Dichloroethene	82	NA2	< 1.6	< 1.2	< 1.1	< 1.6	< 1.6
Trichloroethene	2	0.5	< 0.43	< 0.31	< 0.29	< 0.44	< 0.44
Vinyl Chloride	8	< 0.25	< 0.10	< 0.074	< 0.068	< 0.10	< 0.10
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.55	< 0.40	< 0.37	< 0.57	< 0.56
1,1,2-Trichloroethane	0.21	< 0.25	< 0.44	< 0.32	< 0.29	< 0.45	< 0.45
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.61	< 0.45	< 0.41	< 0.64	< 0.63
1,4-Dichlorobenzene	7	0.8	< 0.48	< 0.35	< 0.32	< 0.50	< 0.49
Carbon Tetrachloride	12	1	< 0.50	< 0.37	**0.34**	< 0.52	< 0.52
Chloroethane	417	0.4	< 0.53	< 0.38	< 0.35	< 0.55	< 0.54
Chloroform	3	0.5	< 0.39	< 0.28	< 0.26	< 0.40	< 0.40
Chloromethane	310	4.6	< 4.1	< 3.0	< 2.8	< 4.3	< 4.2
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.32	< 0.23	< 0.21	< 0.33	< 0.32
Freon 114	NA1	1.3	< 0.56	< 0.41	< 0.37	< 0.58	< 0.57
Freon 12	100	11	**2.2**	**2.2**	**2.2**	**2.3**	**2.3**
Methyl tert-butyl ether	260	NA2	< 1.4	< 1.0	< 0.97	< 1.5	< 1.5

Notes:

µg/m³ - micrograms per cubic meter

Bold - indicates detections

R - rejected after data validation

< - indicates not detected at or above the indicated value

NA1 - no criteria given in the EPA RSL Calculator

J - indicates sample result is estimated

NA2 - NYSDOH did not include this compound in the guidance document[2]

[1] Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

[2] NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

[3] Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2021-02-10 through 2021-02-16)

Analyte	Target Screening Level (µg/m³)[1,3]	95% of Concentration Distribution NYSDOH Background Air (µg/m³)[2]	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-04-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.38	< 0.24	< 0.35	< 0.16	< 0.37
1,1-Dichloroethane	45	< 0.25	< 0.28	< 0.18	< 0.26	< 0.12	< 0.27
1,1-Dichloroethene	8	<0.25	< 0.14	< 0.086	< 0.13	< 0.059	< 0.13
1,2-Dichloroethane	3	< 0.25	< 0.28	< 0.18	< 0.26	< 0.12	< 0.27
Benzene	8	5.8	< 0.55	**0.51**	< 0.51	**0.56**	< 0.54
Ethyl-benzene	29	1.9	< 0.30	< 0.19	< 0.28	< 0.13	< 0.29
m,p-Xylene	10	3.1	**0.65**	< 0.38	< 0.56	**0.28**	< 0.59
o-Xylene	10	2.3	**0.37**	< 0.19	< 0.28	**0.13**	< 0.29
Tetrachloroethene	30	1.6	< 0.47	< 0.29	< 0.44	< 0.20	< 0.46
Toluene	521	21	**0.75**	**0.66**	**0.79**	**0.59**	< 0.64
trans-1,2-Dichloroethene	82	NA2	< 1.4	< 0.86	< 1.3	< 0.59	< 1.3
Trichloroethene	2	0.5	< 0.37	**0.31**	< 0.34	< 0.16	< 0.36
Vinyl Chloride	8	< 0.25	< 0.088	< 0.055	< 0.082	< 0.038	< 0.086
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.48	< 0.30	< 0.44	< 0.20	< 0.46
1,1,2-Trichloroethane	0.21	< 0.25	< 0.38	< 0.24	< 0.35	< 0.16	< 0.37
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.53	< 0.33	< 0.49	< 0.23	< 0.52
1,4-Dichlorobenzene	7	0.8	< 0.42	< 0.26	< 0.39	< 0.18	< 0.41
Carbon Tetrachloride	12	1	**0.44**	**0.39**	**0.44**	**0.40**	**0.42**
Chloroethane	417	0.4	< 0.46	< 0.29	< 0.42	< 0.20	< 0.44
Chloroform	3	0.5	< 0.34	< 0.21	< 0.31	< 0.14	< 0.33
Chloromethane	310	4.6	< 3.6	< 2.2	< 3.3	< 1.5	< 3.5
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.27	< 0.17	< 0.25	< 0.12	< 0.27
Freon 114	NA1	1.3	< 0.48	< 0.30	< 0.45	< 0.21	< 0.47
Freon 12	100	11	**2.3**	**2.3**	**2.3**	**2.5**	**2.3**
Methyl tert-butyl ether	260	NA2	< 1.2	< 0.78	< 1.2	< 0.54	< 1.2

Notes:

µg/m³ - micrograms per cubic meter

Bold - indicates detections

R - rejected after data validation

< - indicates not detected at or above the indicated value

NA1 - no criteria given in the EPA RSL Calculator

J - indicates sample result is estimated

NA2 - NYSDOH did not include this compound in the guidance document[2]

[1] Target Screening Levels for site-specific compounds of interest provided in Bethpage Ambient Air Monitoring Plan and are based on a one-year exposure duration (B&B Engineers & Geologists of New York, P.C., May 2020)

[2] NYSDOH Outdoor Air Background Values from Appendix C (Table C1) of Guidance for Evaluating Soil Vapor Intrusion in the State of New York (2006)

[3] Target Screening Levels for other compounds calculated using the EPA RSL calculator with the same inputs as described in the Bethpage Ambient Air Monitoring Plan

Table 3: Ambient Air Laboratory Results (2021-02-17 through 2021-02-23)

Analyte	Target Screening Level (µg/m³)[1,3]	95% of Concentration Distribution NYSDOH Background Air (µg/m³)[2]	Ambient Air Concentration (µg/m³)				
			Sample Location				
			AMP-01	AMP-02	AMP-03	AMP-04	AMP-03-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.40	< 0.39	< 0.40	< 0.40	< 0.40
1,1-Dichloroethane	45	< 0.25	< 0.29	< 0.29	< 0.30	< 0.29	< 0.29
1,1-Dichloroethene	8	<0.25	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dichloroethane	3	< 0.25	< 0.29	< 0.29	< 0.30	< 0.29	< 0.29
Benzene	8	5.8	**0.59**	**0.65**	< 0.58	**0.58**	**0.66**
Ethyl-benzene	29	1.9	< 0.32	< 0.31	< 0.32	< 0.32	< 0.32
m,p-Xylene	10	3.1	**0.78**	< 0.62	< 0.63	< 0.63	< 0.63
o-Xylene	10	2.3	**0.50**	< 0.31	< 0.32	< 0.32	< 0.32
Tetrachloroethene	30	1.6	< 0.49	< 0.48	< 0.50	< 0.49	< 0.49
Toluene	521	21	**0.89**	**1.1**	**0.75**	< 0.68	**0.76**
trans-1,2-Dichloroethene	82	NA2	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4
Trichloroethene	2	0.5	< 0.39	< 0.38	< 0.39	< 0.39	< 0.39
Vinyl Chloride	8	< 0.25	< 0.093	< 0.091	< 0.093	< 0.093	< 0.093
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.50	< 0.49	< 0.50	< 0.50	< 0.50
1,1,2-Trichloroethane	0.21	< 0.25	< 0.40	< 0.39	< 0.40	< 0.40	< 0.40
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.56	< 0.55	< 0.56	< 0.56	< 0.56
1,4-Dichlorobenzene	7	0.8	< 0.44	< 0.43	< 0.44	< 0.44	< 0.44
Carbon Tetrachloride	12	1	**0.47**	**0.48**	**0.47**	**0.47**	**0.47**
Chloroethane	417	0.4	< 0.48	< 0.47	< 0.48	< 0.48	< 0.48
Chloroform	3	0.5	< 0.35	< 0.35	< 0.36	< 0.35	< 0.35
Chloromethane	310	4.6	< 3.7	< 3.7	< 3.8	< 3.7	< 3.7
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.29	**0.40**	< 0.29	< 0.29	< 0.29
Freon 114	NA1	1.3	< 0.51	< 0.50	< 0.51	< 0.51	< 0.51
Freon 12	100	11	**2.4**	**2.5**	**2.4**	**2.4**	**2.4**
Methyl tert-butyl ether	260	NA2	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3

Notes:

µg/m³ - micrograms per cubic meter

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