NORTHROP GRUMMAN

ISTR Operations Monthly Progress Report

Reporting Period: 10/1/20 through 10/31/20

Operable Unit 3 VOC Source Area Remedy
Former Grumman Settling Ponds, Bethpage, NY
NYSDEC Site No. 130003A
November 18, 2020

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 and Noise Monitoring
3. Significant Activities
4. Schedule / Proposed Modifications
5. Pending RAWP Modifications
6. Data Tables

Remedy Progress / Performance Monitoring
October 2020

NORTHROP GRUMMAN

ISTR Operations Summary

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

Reporting Period: October 2020

System Startup	8/26/2020
Days of Operation Since Startup	67
Cumulative Mass Removed, lbs	413

Remedy Progress / Performance Monitoring
October 2020

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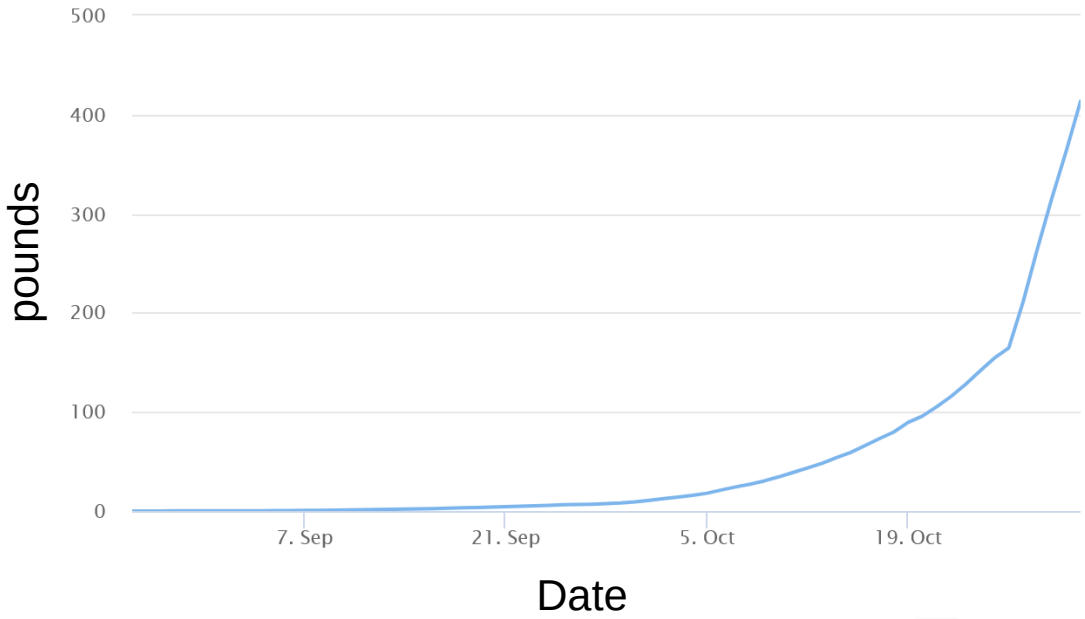
Cumulative TVOC Mass Removed



Estimated 413 lbs of total volatile organic compounds (TVOCs) removed through end of October

Cumulative TVOC mass is the sum of the following:

- Photoionization detector (PID) TVOC vapor mass
- Liquid TVOC mass
- Condensed non-aqueous phase liquid (NAPL) mass

Remedy Progress / Performance Monitoring
October 2020

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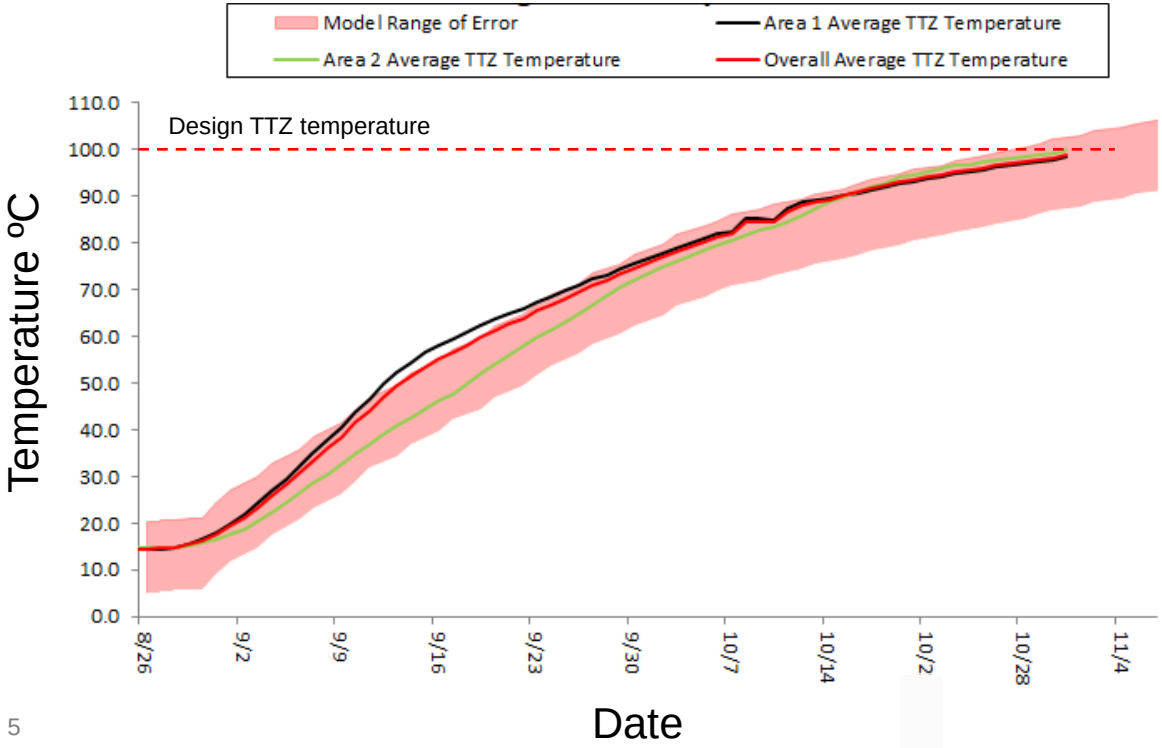
Cumulative Temperature Progression

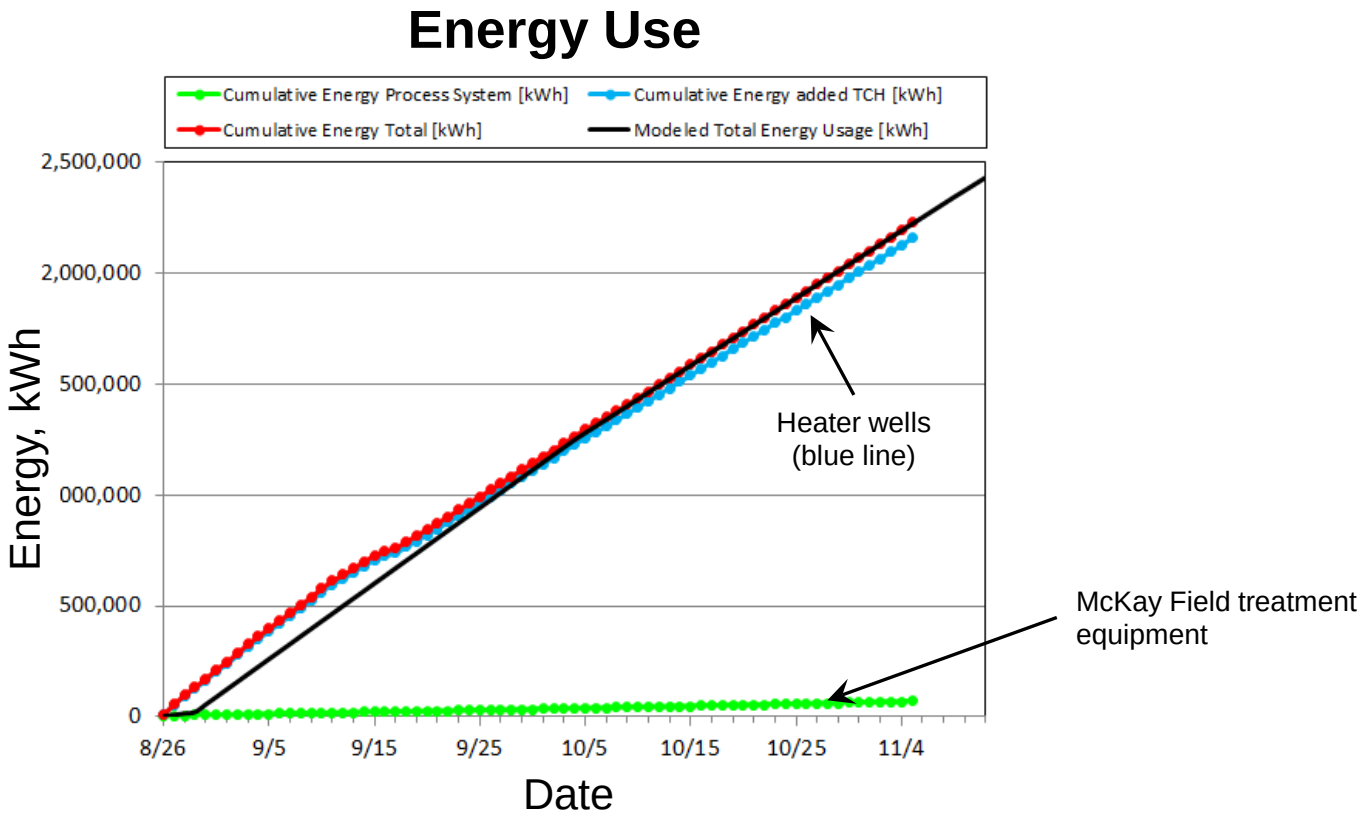


Target treatment zone (TTZ) design temperature is 100ºC

Average temperature through October 31:

- Area 1 = 98ºC
- Area 2 = 100ºC

Remedy Progress / Performance Monitoring
October 2020



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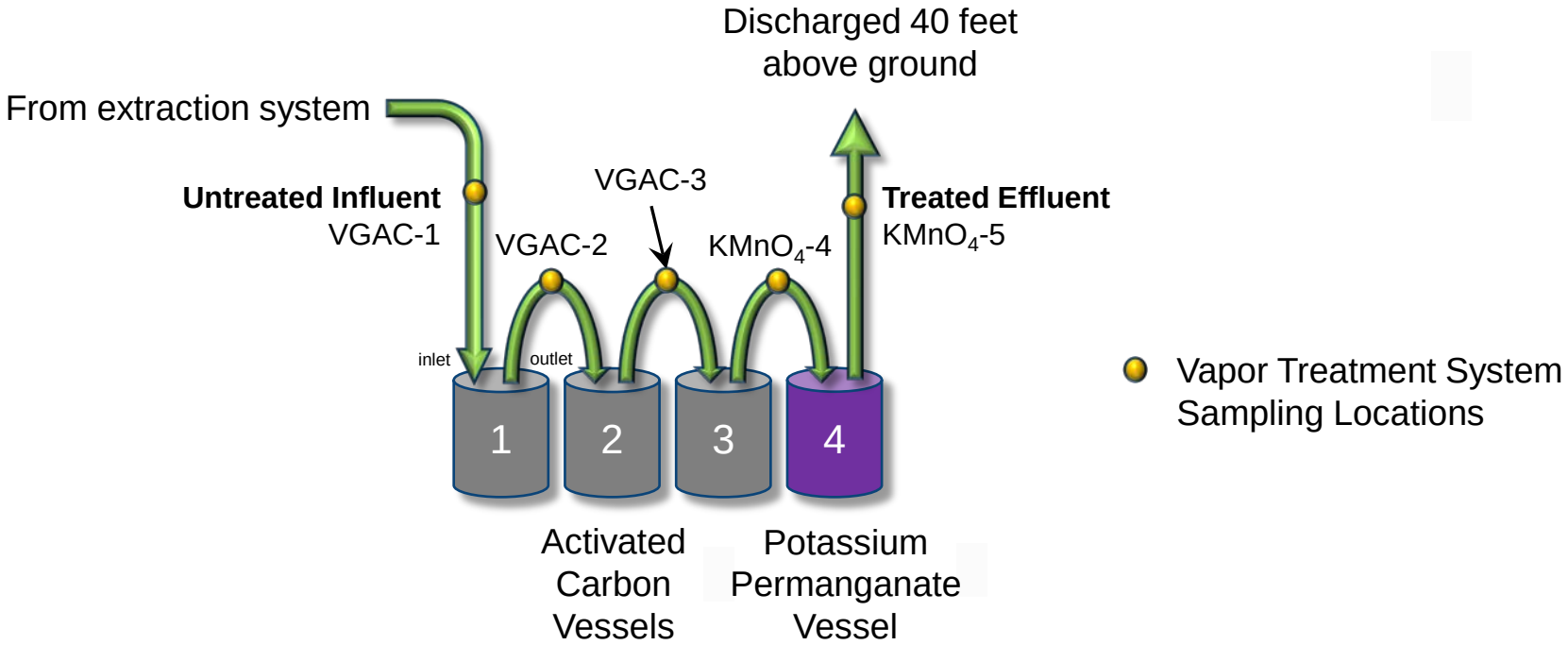
Vapor Treatment System



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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 October.
- Greater than 90% removal of trichloroethylene (TCE) and vinyl chloride (with one exception for vinyl chloride on 10/27).
  - Carbon changeout conducted 10/28, and subsequent detector tube readings confirmed >90% vinyl chloride removal.
  - Also, ambient air samples collected on 10/28 covering the previous 7 days were all below reporting limits for vinyl chloride (0.037 – 0.040 ug/m^3).

Routine operations analytical results provided in Table 1

Remedy Progress / Performance Monitoring
October 2020

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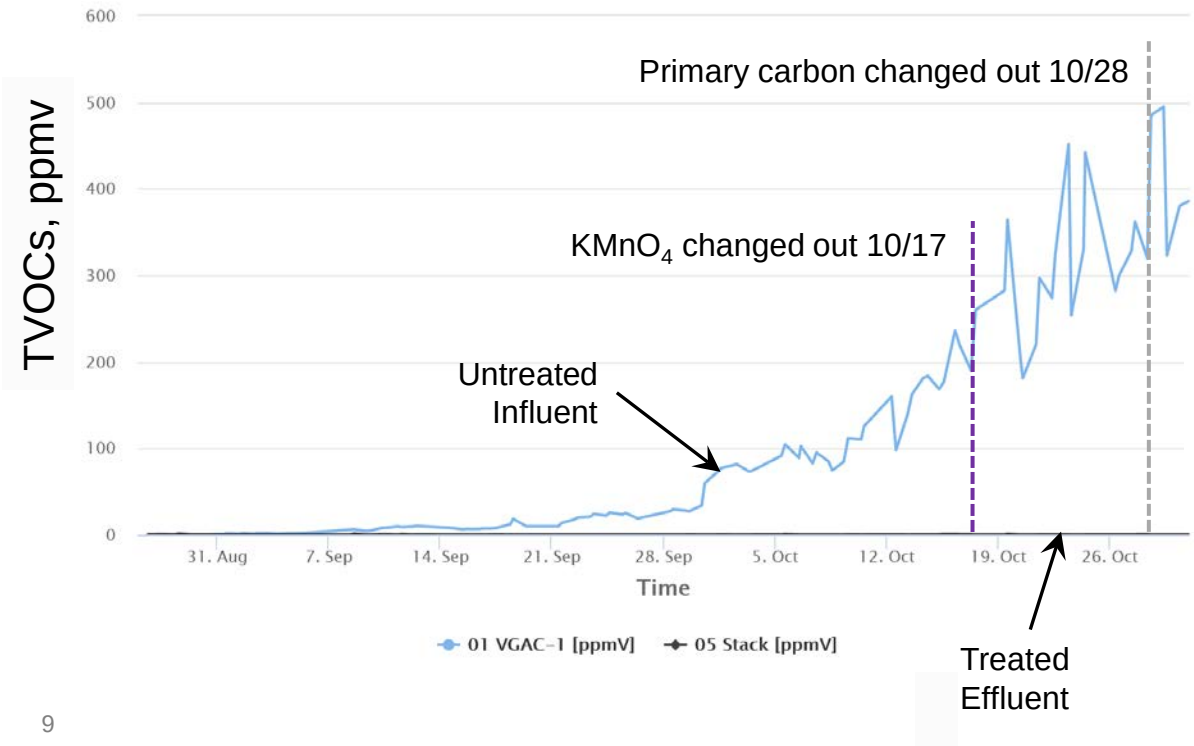
Vapor Treatment System



TVOC concentration (PID) at end of reporting period:

- Influent = 382 ppmv (max 495 ppmv)
- Effluent = 0 ppmv (max 0.9 ppmv)

Remedy Progress / Performance Monitoring October 2020

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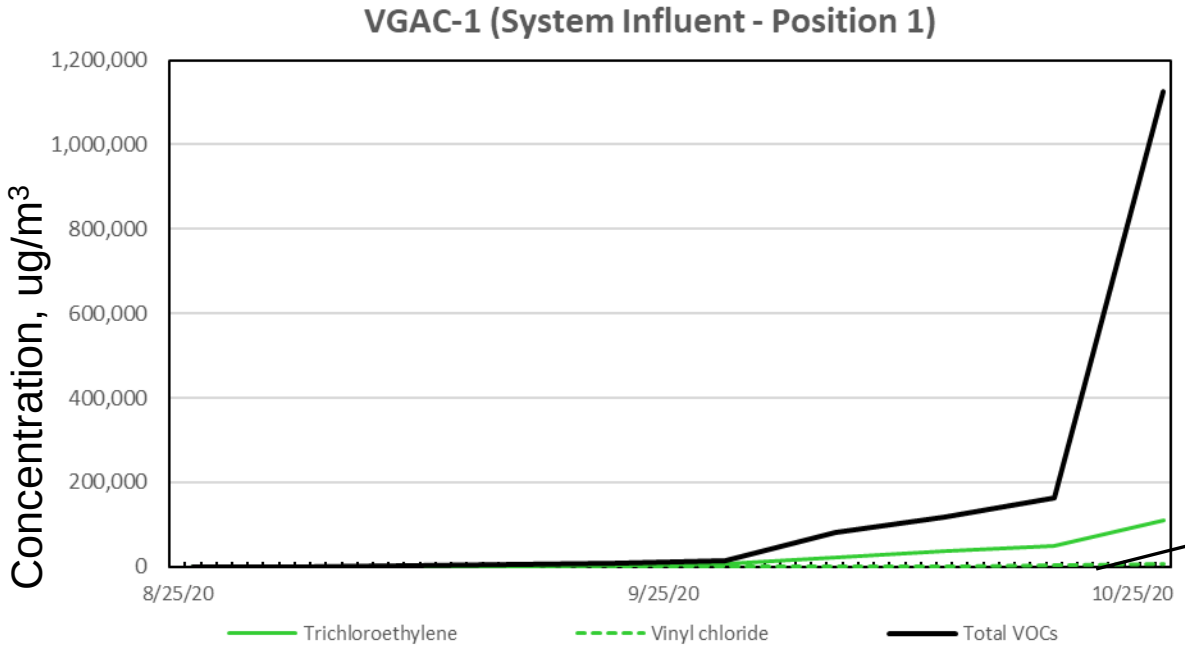
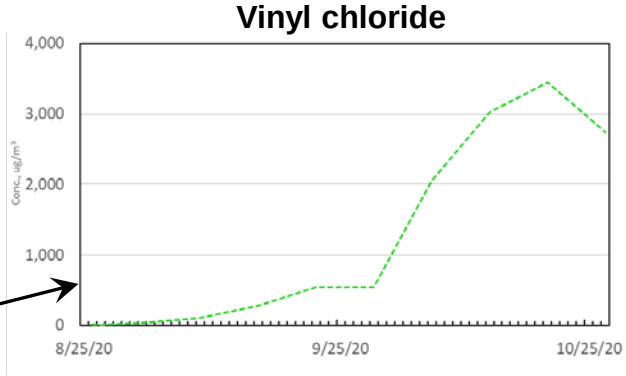
Vapor Treatment System Influent



Influent concentrations (Summa) on 10/27:

- TVOCs = 1,130,000 ug/m^3
- TCE = 111,000 ug/m^3
- Vinyl chloride = 2,740 ug/m^3



Remedy Progress / Performance Monitoring
October 2020

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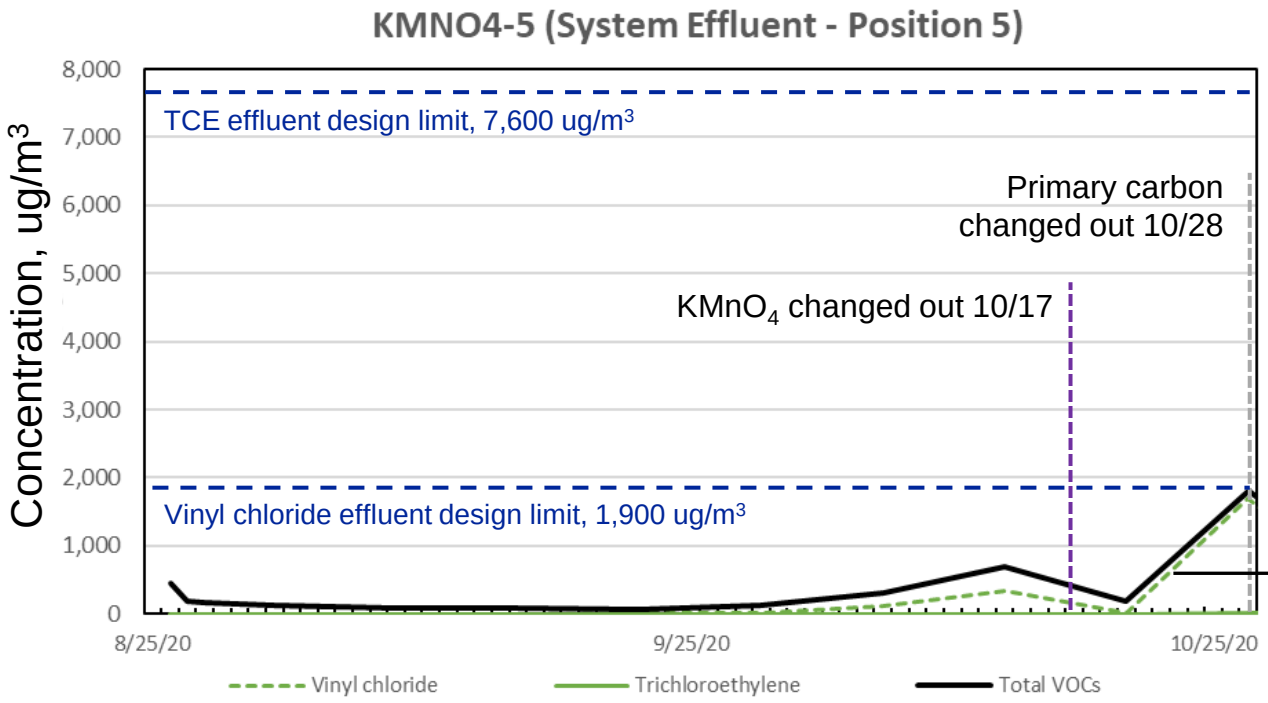
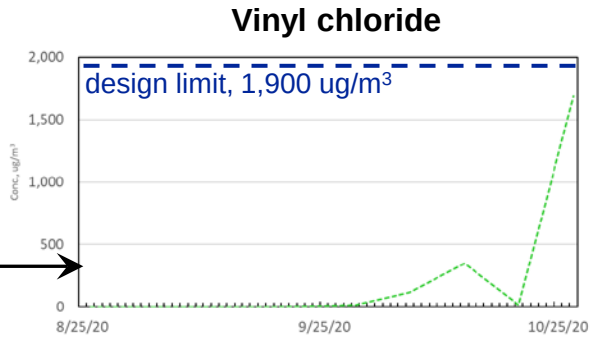
Vapor Treatment System Effluent



Effluent concentrations (Summa) on 10/27:

- TVOCs = 1,800 ug/m^3
- TCE = 12 ug/m^3
- Vinyl chloride = 1,690 ug/m^3



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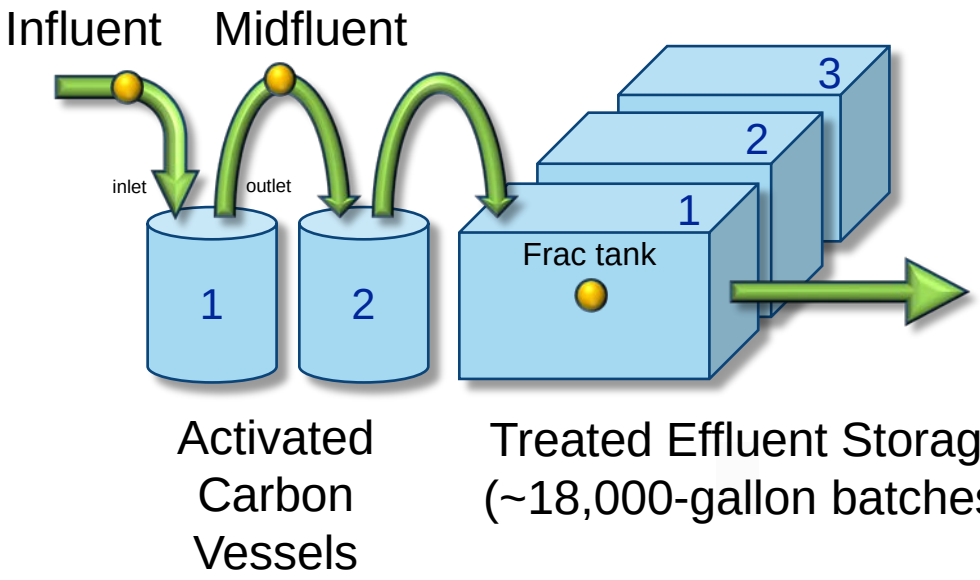
Liquid Treatment System



- Liquid Treatment System Sampling Locations

Treated liquid pumped to OU3 Groundwater Treatment System

Remedy Progress / Performance Monitoring
October 2020

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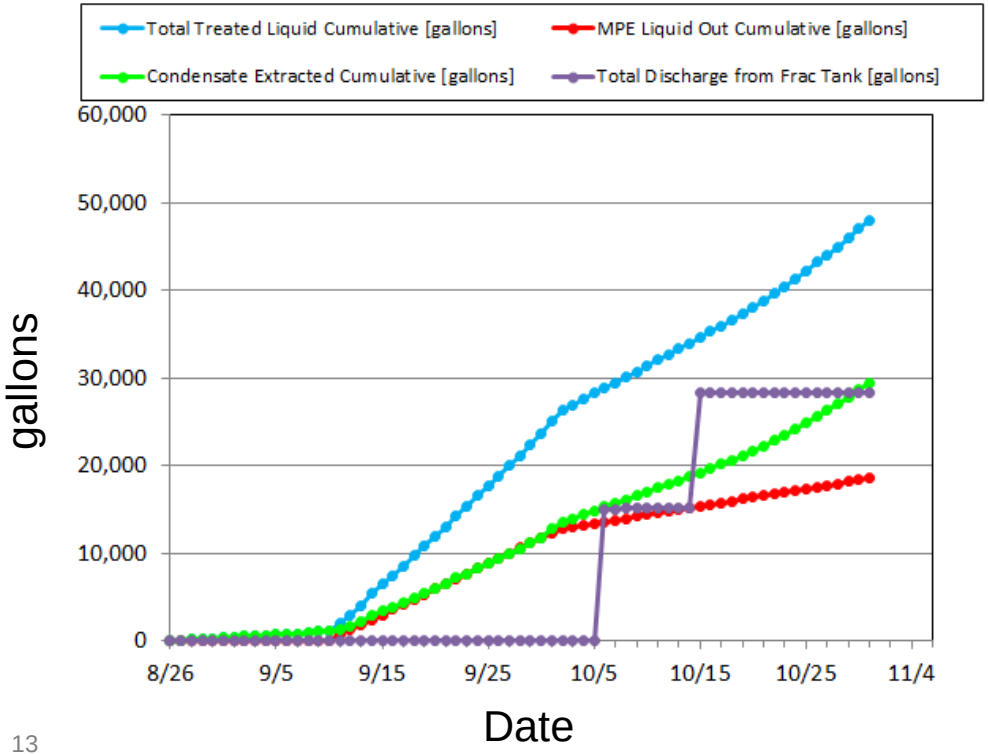
Cumulative Liquid Produced



28,271 gallons treated water discharged to OU3 groundwater treatment system in October:

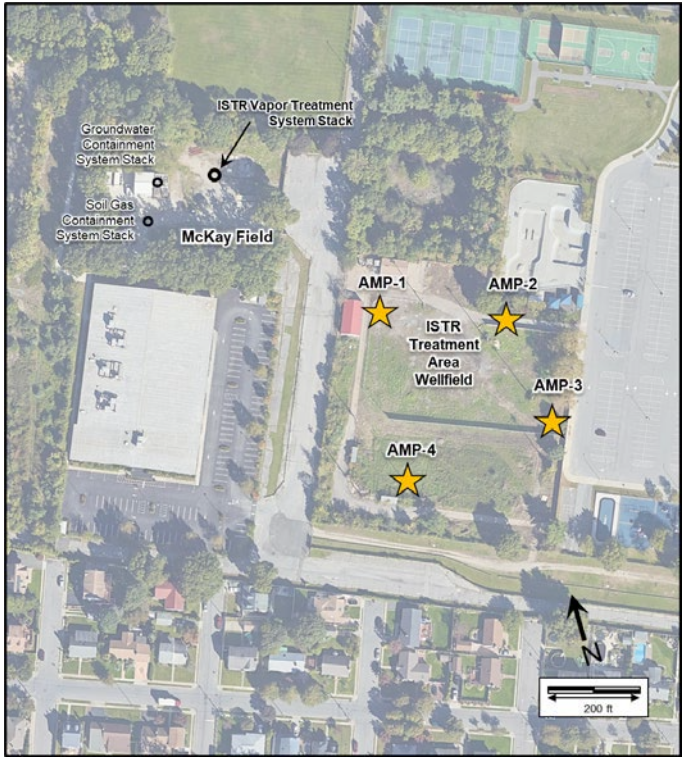
- Frac tank 1 sampled 9/22, discharged 10/6
- Frac tank 2 sampled 10/6, discharged 10/15

Analytical results 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)

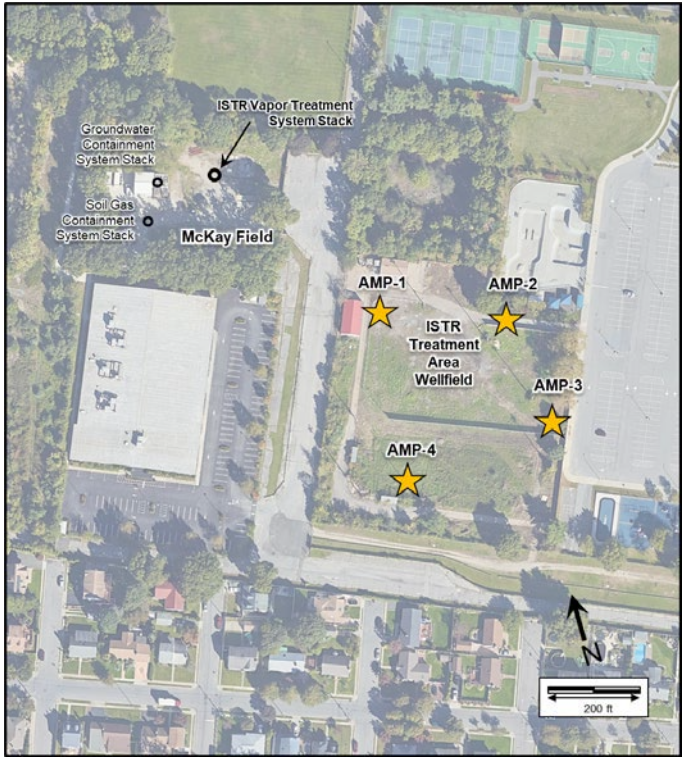


Ambient Air Summa Canister Monitoring

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

- Summa canister samples collected 10/1, 10/7, 10/10, 10/16, 10/21, and 10/28
- Results emailed to the State and Town of Oyster Bay
- Summa canister results for compounds of interest (COIs) lower than target screening levels in the CAMP
- Summa canister results for non-COIs also lower than target screening levels calculated using CAMP-specified protocol

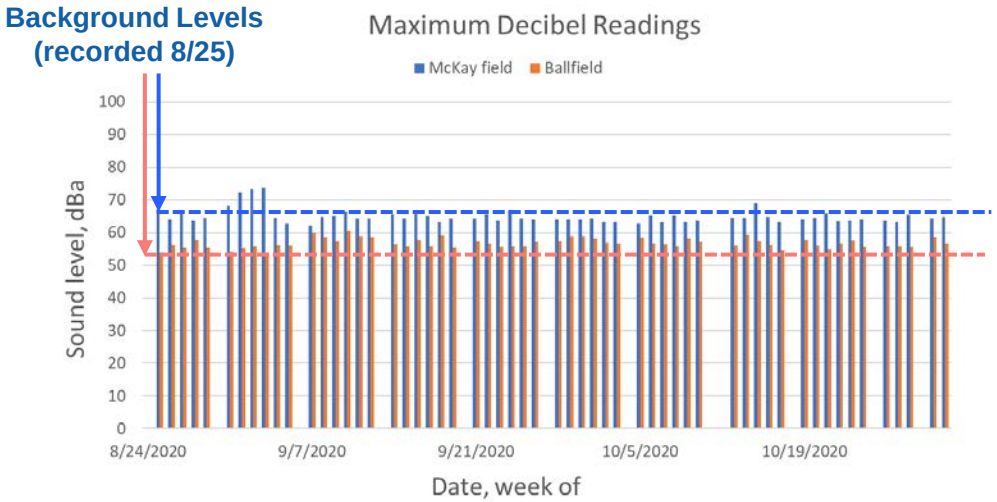
Analytical results provided in Table 3

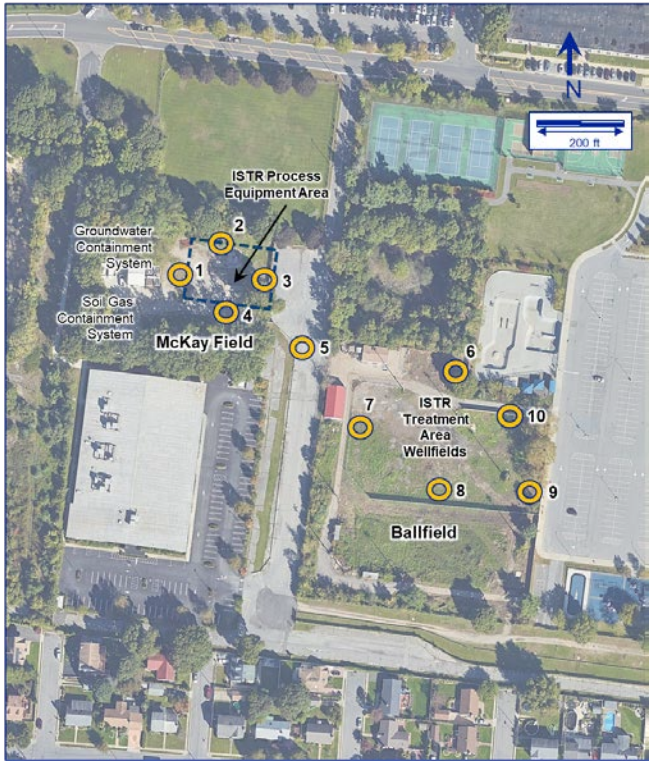


Noise Monitoring

Sound levels comply with noise criteria in the RAWP:

- All readings <80 dBa action level during October
- Readings discontinued 11/6 as approved during 11/4 monthly update





Significant Activities

Major equipment repairs and significant downtime

- No major equipment repairs or significant downtime
- Potassium permanganate vessel changed out 10/17
- Vapor-phase carbon changed out 10/28
- Liquid-phase carbon changed out 10/30

Planned Significant Activities During Next Two Months

Continue routine system operations, monitoring, and maintenance

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

Frac tank discharge criteria

Liquid effluent analytical method for 1,4-dioxane

Percent removal criterion for vinyl chloride

Data Tables

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - October 2020

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD14212-1 10/6/2020	VG JD14212-2 10/6/2020	KMNO4-5 JD14212-3 10/6/2020	Percent Removed
1,1,1-Trichloroethane		< 93	< 0.71	< 0.71	
1,1-Dichloroethane		< 23	< 0.19	< 0.19	
1,1-Dichloroethylene		**416**	< 0.27	< 0.27	
1,2,4-Trimethylbenzene		< 330	< 2.6	< 2.6	
1,3,5-Trimethylbenzene		< 84	< 0.64	< 0.64	
1,4-Dioxane*		< 94	< 0.76	< 0.76	
2,2,4-Trimethylpentane		< 51	< 0.41	< 0.41	
2-Hexanone		< 74	< 0.61	< 0.61	
4-Ethyltoluene		< 74	< 0.59	< 0.59	
Acetone*		**4,370**	**47.5**	**69.6**	
Benzene		**303** J	< 0.15	< 0.15	
Bromoform		< 200	< 1.6	< 1.6	
Carbon disulfide		< 37	< 0.29	< 0.29	
Carbon tetrachloride		< 75	< 0.59	< 0.59	
Chloroethane		< 63	**1.6** J	< 0.50	
Chloroform		< 49	< 0.39	< 0.39	
Chloromethane*		< 16	**17**	**16**	
cis-1,2-Dichloroethylene		**13,900**	< 0.19	< 0.19	
Cyclohexane		**250** J	< 0.3	< 0.3	
Dichlorodifluoromethane		< 41	**2.3** J	**2.3** J	
Ethanol		< 210	**15**	**20.7**	
Ethyl acetate		< 68	**50.7**	**58.7**	
Ethylbenzene		**1,130**	**1.8** J	< 0.26	
Heptane		**2,440**	< 0.29	< 0.29	
Hexane		**1,620**	< 0.15	< 0.15	
Isopropyl alcohol*		< 79	< 0.64	**11**	
m,p-Xylene		**2,430**	**6.5**	**2.7** J	
m-Dichlorobenzene		< 57	< 0.46	< 0.46	
Methyl ethyl ketone		**891**	**5.6**	**7.4**	
Methyl isobutyl ketone		< 74	< 0.57	< 0.57	
Methylene chloride*		< 25	< 0.2	< 0.2	
o-Xylene		**704**	**3.3** J	< 0.3	
Propylene*		**495**	**534**	< 0.11	
Styrene		< 40	< 0.32	< 0.32	
Tertiary butyl alcohol		< 21	**2.5**	**4.5**	
Tetrachloroethylene		< 100	**1.1**	< 0.81	
Tetrahydrofuran		< 74	< 0.59	< 0.59	
Toluene		**26,000**	**3.1**	**2.1** J	
trans-1,2-Dichloroethylene		< 15	< 0.11	< 0.11	
Trichloroethylene		**23,600**	**0.81** J	< 0.41	100%
Trichlorofluoromethane		< 79	< 0.62	< 0.62	
Vinyl acetate		< 60	< 0.49	< 0.49	
Vinyl chloride*		**2,050**	**798**	**114**	
Xylenes (total)		**3,130**	**9.6**	**2.7** J	
TVOCs		**80,600**	**1,490**	**309**	

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 **bolded**.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - October 2020

Compound (ug/m^3)	Sample ID:	VGAC-1		VGAC-3		KMNO4-5		Percent Removed
	Lab Sample ID:	JD14620-1		JD14620-2		JD14620-3		
	Date Sampled:	10/13/2020		10/13/2020		10/13/2020		
1,1,1-Trichloroethane		**274**		< 3.6		< 0.71		
1,1-Dichloroethane		**170**	J	< 0.93		< 0.19		
1,1-Dichloroethylene		**805**		< 1.3		< 0.27		
1,2,4-Trimethylbenzene		< 38		< 3.2		< 0.64		
1,3,5-Trimethylbenzene		< 39		< 3.3		< 0.64		
1,4-Dioxane*		< 43		< 3.6		< 0.76		
2,2,4-Trimethylpentane		**1,450**		< 2.1		< 0.41		
2-Hexanone		< 35		< 3.0		< 0.61		
4-Ethyltoluene		< 34		< 2.9		< 0.59		
Acetone*		**7,060**		**11**		**24.9**		
Benzene		**277**		< 0.77		**5.8**		
Bromoform		< 91		< 7.8		< 1.6		
Carbon disulfide		**153**		< 1.5		< 0.29		
Carbon tetrachloride		< 35		< 3.0		< 0.59		
Chloroethane		< 29		< 2.6		< 0.50		
Chloroform		< 23		< 2.0		< 0.39		
Chloromethane*		**69.0**	J	**20**		**25.2**		
cis-1,2-Dichloroethylene		**15,700**		< 0.91		< 0.19		
Cyclohexane		**537**		< 1.5		< 0.30		
Dichlorodifluoromethane		< 19		< 1.6		**3.1**	J	
Ethanol		**1,270**		< 8.3		**8.1**		
Ethyl acetate		< 32		**73.4**		**139**		
Ethylbenzene		**167**	J	< 1.3		< 0.26		
Heptane		**3,250**		< 1.4		< 0.29		
Hexane		**5,570**		< 0.74		< 0.15		
Isopropyl alcohol*		**26,300**		< 3.2		**5.4**		
m,p-Xylene		**352**		< 3.0		**2.4**	J	
m-Dichlorobenzene		< 27		< 2.3		< 0.46		
Methyl ethyl ketone		**1,090**		< 2.5		**2.6**		
Methyl isobutyl ketone		< 35		< 3.0		< 0.57		
Methylene chloride*		**733**		< 1.0		< 0.20		
o-Xylene		**109**	J	< 1.5		< 0.30		
Propylene*		**598**		**400**		**120**		
Styrene		**115**	J	< 1.6		< 0.32		
Tertiary butyl alcohol		**207**		< 0.85		< 0.17		
Tetrachloroethylene		**280**		< 4.2		< 0.81		
Tetrahydrofuran		< 35		< 2.9		< 0.59		
Toluene		**11,800**		< 1.1		**8.3**		
trans-1,2-Dichloroethylene		**165**	J	< 0.59		< 0.11		
Trichloroethylene		**36,600**		< 2.0		**3.6**		100%
Trichlorofluoromethane		< 37		< 3.1		< 0.62		
Vinyl acetate		< 28		< 2.4		< 0.49		
Vinyl chloride*		**3,020**		**1,650**		**348**		
Xylenes (total)		**460**		< 1.5		**2.4**	J	
TVOCs		**118,100**		**2,150**		**696**		

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 **bolded**.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - October 2020

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD14988-1 10/20/2020	VGAC-3 JD14988-2 10/20/2020	KMNO4-5 JD14988-3 10/20/2020	Percent Removed
1,1,1-Trichloroethane		**139** J	< 3.3	< 0.71	
1,1-Dichloroethane		**210**	< 0.85	< 0.19	
1,1-Dichloroethylene		**1,180**	< 1.2	< 0.27	
1,2,4-Trimethylbenzene		< 41	< 2.9	< 0.64	
1,3,5-Trimethylbenzene		< 42	< 2.9	< 0.64	
1,4-Dioxane*		< 47	< 3.4	< 0.76	
2,2,4-Trimethylpentane		**2,720**	< 1.8	< 0.41	
2-Hexanone		< 38	< 2.7	< 0.61	
4-Ethyltoluene		< 37	< 2.6	< 0.59	
Acetone*		**6,340**	**79.3**	**56.8**	
Benzene		**393**	< 0.67	**1.3** J	
Bromoform		< 99	< 6.9	< 1.6	
Carbon disulfide		**140** J	< 1.3	< 0.29	
Carbon tetrachloride		< 38	< 2.6	< 0.59	
Chloroethane		< 32	< 2.3	**1.7** J	
Chloroform		< 25	< 1.8	< 0.39	
Chloromethane*		**50.8** J	**36.3**	**27.5**	
cis-1,2-Dichloroethylene		**23,600**	< 0.83	< 0.19	
Cyclohexane		**898**	< 1.4	< 0.30	
Dichlorodifluoromethane		< 21	< 1.5	**2.6** J	
Ethanol		**923**	**64.3**	**53.9**	
Ethyl acetate		**382**	< 2.4	**6.1**	
Ethylbenzene		**1,120**	< 1.2	< 0.26	
Heptane		**8,280**	< 1.3	< 0.29	
Hexane		**4,550**	< 0.67	< 0.15	
Isopropyl alcohol*		**14,600**	< 2.9	**12**	
m,p-Xylene		**1,960**	< 2.6	< 0.61	
m-Dichlorobenzene		< 29	< 2.0	< 0.46	
Methyl ethyl ketone		**979**	**9.4** J	**5.0**	
Methyl isobutyl ketone		< 38	< 2.7	< 0.57	
Methylene chloride*		**479**	< 0.90	**3.2**	
o-Xylene		**434**	< 1.3	< 0.30	
Propylene*		**543**	**519**	< 0.11	
Styrene		< 20	< 1.4	< 0.32	
Tertiary butyl alcohol		**165**	**22**	**4.5**	
Tetrachloroethylene		**208**	< 3.7	< 0.81	
Tetrahydrofuran		< 38	< 2.7	< 0.59	
Toluene		**39,900**	< 0.98	**1.5** J	
trans-1,2-Dichloroethylene		**312**	< 0.52	< 0.11	
Trichloroethylene		**50,800**	< 1.8	< 0.41	100%
Trichlorofluoromethane		< 40	< 2.9	< 0.62	
Vinyl acetate		< 31	< 2.2	< 0.49	
Vinyl chloride*		**3,450**	**4,580**	**14**	
Xylenes (total)		**2,400**	< 1.3	< 0.30	
TVOCs		**164,800**	**5,310**	**190**	

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.
J1 One or more analytical issues noted.
TVOCs Total volatile organic compounds
Detections are **bolded**.

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Table 1. Vapor Treatment System Air Sampling Results
Routine Monitoring - October 2020

Compound (ug/m^3)	Sample ID: / Lab Sample ID: / Date Sampled:	VGAC-1 JD15302-1 10/27/2020	VGAC-3 JD15302-2 10/27/2020	KMNO4-5 JD15302-3 10/27/2020	Percent Removed
1,1,1-Trichloroethane		< 250	< 25	< 3.6	
1,1-Dichloroethane		< 65	< 6.5	< 0.93	
1,1-Dichloroethylene		**1,140**	< 9.1	< 1.3	
1,2,4-Trimethylbenzene		< 220	< 22	< 3.2	
1,3,5-Trimethylbenzene		< 220	< 22	< 3.3	
1,4-Dioxane*		< 250	< 25	< 3.6	
2,2,4-Trimethylpentane		**2,570**	< 14	< 2.1	
2-Hexanone		< 200	< 20	< 3.0	
4-Ethyltoluene		< 200	< 20	< 2.9	
Acetone*		**34,700**	**382**	**27.3**	
Benzene		**968**	< 5.1	< 0.77	
Bromoform		< 520	< 52	< 7.8	
Carbon disulfide		**445** J	< 10	< 1.5	
Carbon tetrachloride		< 200	< 20	< 3.0	
Chloroethane		< 170	< 17	< 2.6	
Chloroform		< 130	< 13	< 2.0	
Chloromethane*		**555** J	**44.4** J	**43.6**	
cis-1,2-Dichloroethylene		**30,400**	< 6.3	< 0.91	
Cyclohexane		**2,090**	< 10	< 1.5	
Dichlorodifluoromethane		< 110	< 11	< 1.6	
Ethanol		**25,200**	**254**	< 8.3	
Ethyl acetate		< 180	< 18	< 2.7	
Ethylbenzene		**6,170**	< 8.7	< 1.3	
Heptane		**11,000**	< 9.8	< 1.4	
Hexane		**92,700**	**1,800**	< 0.74	
Isopropyl alcohol*		**632,000** E	**6,070**	**11**	
m,p-Xylene		**16100**	< 20	**11** J	
m-Dichlorobenzene		< 160	< 16	< 2.3	
Methyl ethyl ketone		**1,880**	< 17	< 2.5	
Methyl isobutyl ketone		**1,000** J	< 20	< 3.0	
Methylene chloride*		**3,510**	< 6.9	< 1.0	
o-Xylene		**4,820**	< 10	< 1.5	
Propylene*		< 36	**557**	< 0.55	
Styrene		**800** J	< 11	< 1.6	
Tertiary butyl alcohol		**1,500**	< 5.8	< 0.85	
Tetrachloroethylene		**3,230**	< 28	< 4.2	
Tetrahydrofuran		< 200	< 20	< 2.9	
Toluene		**139,000**	< 7.2	**11** J	
trans-1,2-Dichloroethylene		< 39	< 3.9	< 0.59	
Trichloroethylene		**111,000**	**48**	**12**	100%
Trichlorofluoromethane		< 210	< 21	< 3.1	
Vinyl acetate		< 160	< 16	< 2.4	
Vinyl chloride*		**2,740**	**8,380**	**1,690**	
Xylenes (total)		**20,900**	< 10	**11** J	
TVOCs		**1,125,000**	**17,500**	**1,810**	

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.
J1 One or more analytical issues noted.
E Detected concentration exceeds the highest calibration standard.
TVOCs Total volatile organic compounds
Detections are **bolded**.

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Table 2. Liquid Treatment System Sampling Results - October 2020

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Analyte / Sample ID: / Lab Sample ID: / Date Sampled:	LGAC-INF-20201006 JD14200-1 / 1A 10/6/2020	LGAC-MID-20201006 JD14200-2 / 2A 10/6/2020	FRAC2-A4272-20201006 JD14200-3 / 3A 10/6/2020	LGAC-INF-20201026 JD15252-1 / 1A 10/26/2020	LGAC-MID-20201026 JD15252-2 / 2A 10/26/2020
Volatile Organic Compounds (ug/L, detections only):					
1,1-Dichloroethane	**1.8**	< 0.57	< 0.57	< 0.57	< 0.57
2-Butanone (MEK)	**240**	< 6.9	< 6.9	**261**	< 6.9
2-Hexanone	**17.6**	< 2.0	< 2.0	**18.4**	< 2.0
4-Methyl-2-pentanone (MIBK)	**7.2**	< 1.9	< 1.9	**9.8**	< 1.9
Acetone*	**1,170**	< 6.0	< 6.0	**1,350**	**42.2**
Benzene	**0.95**	< 0.43	< 0.43	**0.89**	< 0.43
cis-1,2-Dichloroethene	**276**	< 0.51	< 0.51	**124**	< 0.51
Ethylbenzene	**6.2**	< 0.6	< 0.6	**12.3**	< 0.60
m,p-Xylene	**15.9**	< 0.78	< 0.78	**41.1**	< 0.78
o-Xylene	**9.7**	< 0.59	< 0.59	24.5	< 0.59
Toluene	**239**	< 0.53	< 0.53	**154**	< 0.53
trans-1,2-Dichloroethene	< 0.54	< 0.54	< 0.54	**1.7**	< 0.54
Trichloroethene	**50.6**	< 0.53	< 0.53	107	< 0.53
Vinyl chloride*	**7.2**	< 0.79	< 0.79	**1.0**	< 0.79
Xylene (total)	**25.6**	< 0.59	< 0.59	**65.6**	< 0.59
TVOCs	**2,040**	0	0	**2,110**	**42.2**
Semivolatile Organic Compounds (ug/L, detections only):					
1,1'-Biphenyl	1.0	< 0.20	< 0.21	**2.4**	< 0.22
1,4-Dioxane	**13.3**	< 0.63	< 0.66	**35.3**	< 0.67
2,4-Dimethylphenol	**52.5**	< 2.3	< 2.4	**286**	< 2.5
2-Methylnaphthalene	**0.60** J	< 0.20	< 0.21	**2.0**	< 0.22
2-Methylphenol	**34.2**	< 0.85	< 0.89	**231**	< 0.91
3&4-Methylphenol	**70.9**	< 0.84	< 0.88	**758**	< 0.90
Acetophenone	**39.6**	< 0.20	< 0.21	**62.3**	< 0.21
Anthracene	**0.25** J	< 0.20	< 0.21	**0.73** J	< 0.22
Benzaldehyde	**8.1**	< 0.28	< 0.29	**24.8**	< 0.30
Benzo(a)anthracene	< 0.20	< 0.19	< 0.20	**0.26** J	< 0.21
Carbazole	< 0.23	< 0.22	< 0.23	**0.58** J	< 0.23
Chrysene	< 0.18	< 0.17	< 0.18	**0.20** J	< 0.18
Dibenzofuran	< 0.22	< 0.21	< 0.22	**0.53** J	< 0.23
Dimethyl phthalate	**2.7**	< 0.21	< 0.22	**8.1**	< 0.22
Fluoranthene	**0.73** J	< 0.16	< 0.17	**3.3**	< 0.17
Fluorene	**0.82** J	< 0.16	< 0.17	**0.64** J	< 0.18
Naphthalene	**1.9**	< 0.22	< 0.23	**3.6**	< 0.24
Phenanthrene	**3.2**	< 0.17	< 0.18	**7.8**	< 0.18
Phenol	**45.6**	< 0.37	< 0.39	**422**	< 0.40
Pyrene	**0.54** J	< 0.21	< 0.22	**2.3**	< 0.22
Semivolatile Organic Compounds (SIM) (ug/L):					
1,4-Dioxane	-	< 0.048	< 0.050	**31**	< 0.051
Polychlorinated Biphenyls (ug/L):					
Aroclor 1016	< 0.097	< 0.098	< 0.097	< 0.10	< 0.10
Aroclor 1221	< 0.21	< 0.21	< 0.21	< 0.22	< 0.22
Aroclor 1232	< 0.13	< 0.13	< 0.13	< 0.14	< 0.14
Aroclor 1242	< 0.11	< 0.11	< 0.11	< 0.12	< 0.12
Aroclor 1248	**2.7**	< 0.063	< 0.062	**3.4**	< 0.066
Aroclor 1254	**4.1**	< 0.21	< 0.20	**1.4**	< 0.22
Aroclor 1260	< 0.075	< 0.076	< 0.075	< 0.081	< 0.080
Aroclor 1262	< 0.096	< 0.097	< 0.096	< 0.10	< 0.10
Aroclor 1268	< 0.086	< 0.087	< 0.086	< 0.092	< 0.091
Metals (mg/L):					
Iron (Method 200.7)	**32,100**	< 100	**392**	**17,300**	**2,690**
Manganese (Method 200.7)	**583**	**831**	**310**	**462**	**349**
Mercury (Method 6010)	< 0.20	< 0.20	< 0.20	< 0.20	**0.24**
General Chemistry (mg/L):					
Nitrogen, Nitrate	< 0.11	< 0.11	**0.16**	< 0.11	< 0.11
Nitrogen, Nitrate + Nitrite	< 0.10	< 0.10	**0.16**	< 0.10	< 0.10
Nitrogen, Nitrite	**0.011**	< 0.010	< 0.010	**0.015**	< 0.010
Nitrogen, Total Kjeldahl	**2.2**	**0.90**	**0.86**	**6.4**	**2.4**

Footnotes:

ug/L	micrograms per liter
mg/L	milligrams per liter
*	Poorly adsorbed on activated carbon.
<	Analyte was not detected at or above the indicated value.
J	Detected concentration is less than the laboratory quantitation limit.
TVOCs	Total volatile organic compounds

Detections are **bolded**.

Table 3: Ambient Air Laboratory Results (2020-09-25 through 2020-10-01)

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-02-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.16	< 0.16	< 0.15	< 0.20	< 0.16
1,1-Dichloroethane	45	< 0.25	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12
1,1-Dichloroethene	8	<0.25	< 0.060	< 0.058	< 0.055	< 0.071	< 0.058
1,2-Dichloroethane	3	< 0.25	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12
Benzene	8	5.8	**0.30**	**0.31**	**0.41**	**0.29**	**0.29**
Ethyl-benzene	29	1.9	< 0.13	< 0.13	< 0.12	< 0.16	< 0.13
m,p-Xylene	10	3.1	< 0.26	< 0.25	**0.28**	< 0.31	< 0.25
o-Xylene	10	2.3	< 0.13	< 0.13	**0.12 J**	< 0.16	< 0.13
Tetrachloroethene	30	1.6	< 0.21	< 0.20	< 0.19	< 0.24	< 0.20
Toluene	521	21	**0.49**	**0.59**	**0.70**	**0.53**	**0.56**
trans-1,2-Dichloroethene	82	NA2	< 0.60	< 0.58	< 0.55	< 0.71	< 0.58
Trichloroethene	2	0.5	< 0.16	< 0.16	< 0.15	< 0.19	< 0.16
Vinyl Chloride	8	< 0.25	< 0.039	< 0.037	< 0.035	< 0.046	< 0.037
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.21	< 0.20	< 0.19	< 0.24	< 0.20
1,1,2-Trichloroethane	0.21	< 0.25	< 0.16	< 0.16	< 0.15	< 0.20	< 0.16
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.23	< 0.22	< 0.21	< 0.28	< 0.22
1,4-Dichlorobenzene	7	0.8	< 0.18	< 0.18	< 0.16	< 0.22	< 0.18
Carbon Tetrachloride	12	1	**0.49**	**0.52**	**0.50**	**3.4**	**0.49**
Chloroethane	NA1	0.4	< 0.20	< 0.19	< 0.18	< 0.24	< 0.19
Chloroform	3	0.5	< 0.15	< 0.14	**0.16**	< 0.17	< 0.14
Chloromethane	310	4.6	< 1.6	< 1.5	< 1.4	< 1.8	< 1.5
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.12	< 0.12	< 0.11	< 0.14	< 0.12
Freon 114	NA1	1.3	< 0.21	< 0.20	< 0.19	< 0.25	< 0.20
Freon 12	100	11	**2.9**	**3.1**	**2.9**	**2.8**	**2.8**
Methyl tert-butyl ether	260	NA2	< 0.55	< 0.53	< 0.50	< 0.64	< 0.53

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 over a 3-day period because of 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 (2020-10-01 through 2020-10-07)

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	< 0.19	< 0.15	< 0.16	< 0.14J	< 0.16
1,1-Dichloroethane	45	< 0.25	< 0.14	< 0.11	< 0.12	< 0.10J	< 0.12
1,1-Dichloroethene	8	<0.25	< 0.068	< 0.055	< 0.057	< 0.050J	< 0.058
1,2-Dichloroethane	3	< 0.25	< 0.14	< 0.11	< 0.12	< 0.10J	< 0.12
Benzene	8	5.8	**0.58**	**0.49**	**0.44**	**0.82J**	**0.45**
Ethyl-benzene	29	1.9	**0.16**	**0.15**	**0.13**	**0.20J**	**0.13**
m,p-Xylene	10	3.1	**0.48**	**0.43**	**0.38**	**0.57J**	**0.37**
o-Xylene	10	2.3	**0.19**	**0.20**	**0.15**	**0.22J**	**0.14**
Tetrachloroethene	30	1.6	**0.24**	< 0.19	< 0.20	< 0.17J	< 0.20
Toluene	521	21	**1.3**	**1.0**	**0.87**	**1.3J**	**0.85**
trans-1,2-Dichloroethene	82	NA2	< 0.68	< 0.55	< 0.57	< 0.50J	< 0.58
Trichloroethene	2	0.5	< 0.18	< 0.15	< 0.15	< 0.14J	< 0.16
Vinyl Chloride	8	< 0.25	< 0.044	< 0.035	< 0.037	< 0.032J	< 0.038
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.24	< 0.19	< 0.20	< 0.17J	< 0.20
1,1,2-Trichloroethane	0.21	< 0.25	< 0.19	< 0.15	< 0.16	< 0.14J	< 0.16
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.26	< 0.21	< 0.22	< 0.20J	< 0.22
1,4-Dichlorobenzene	7	0.8	< 0.21	< 0.16	< 0.17	< 0.15J	< 0.18
Carbon Tetrachloride	12	1	**0.46**	**0.51**	**0.48**	**0.49J**	**0.48**
Chloroethane	NA1	0.4	< 0.23	< 0.18	< 0.19	< 0.17J	< 0.19
Chloroform	3	0.5	< 0.17	**0.16**	**0.15**	**0.22J**	**0.14**
Chloromethane	310	4.6	< 1.8	< 1.4	< 1.5	< 1.3J	< 1.5
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.14	< 0.11	< 0.11	< 0.10J	< 0.12
Freon 114	NA1	1.3	< 0.24	< 0.19	< 0.20	< 0.18J	< 0.20
Freon 12	100	11	**2.8**	**2.9**	**2.7**	**2.8J**	**2.7**
Methyl tert-butyl ether	260	NA2	< 0.62	< 0.50	< 0.52	< 0.46J	< 0.53

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 over a 5-day period because of low vacuum

**- cannister vacuum disapated to zero over a 3-day period

[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 (2020-10-07 through 2020-10-10)

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	< 0.16	< 0.17	< 0.17	< 0.17
1,1-Dichloroethane	45	< 0.25	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12
1,1-Dichloroethene	8	<0.25	< 0.063	< 0.060	< 0.061	< 0.063	< 0.061
1,2-Dichloroethane	3	< 0.25	< 0.13	< 0.12	< 0.12	< 0.13	< 0.12
Benzene	8	5.8	**0.36**	**0.37**	**0.36**	**0.34**	**0.38**
Ethyl-benzene	29	1.9	< 0.14	< 0.13	< 0.13	< 0.14	< 0.13
m,p-Xylene	10	3.1	**0.34**	**0.32**	**0.28**	< 0.27	**0.33**
o-Xylene	10	2.3	< 0.14	< 0.13	< 0.13	< 0.14	< 0.13
Tetrachloroethene	30	1.6	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
Toluene	521	21	**0.75**	**0.77**	**0.67**	**0.59**	**0.73**
trans-1,2-Dichloroethene	82	NA2	< 0.63	< 0.60	< 0.61	< 0.63	< 0.61
Trichloroethene	2	0.5	< 0.17	< 0.16	< 0.17	< 0.17	< 0.17
Vinyl Chloride	8	< 0.25	< 0.040	< 0.039	< 0.040	< 0.040	< 0.040
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.22	< 0.21	< 0.21	< 0.22	< 0.21
1,1,2-Trichloroethane	0.21	< 0.25	< 0.17	< 0.16	< 0.17	< 0.17	< 0.17
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.24	< 0.23	< 0.24	< 0.24	< 0.24
1,4-Dichlorobenzene	7	0.8	< 0.19	< 0.18	< 0.19	< 0.19	< 0.19
Carbon Tetrachloride	12	1	**0.48**	**0.50**	**0.49**	**0.49**	**0.49**
Chloroethane	NA1	0.4	< 0.21	< 0.20	< 0.20	< 0.21	< 0.20
Chloroform	3	0.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Chloromethane	310	4.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Freon 114	NA1	1.3	< 0.22	< 0.21	< 0.22	< 0.22	< 0.22
Freon 12	100	11	**2.7**	**2.8**	**2.7**	**2.8**	**2.7**
Methyl tert-butyl ether	260	NA2	< 0.57	< 0.55	< 0.56	< 0.57	< 0.56

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 (2020-10-10 through 2020-10-16)

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	< 0.32	< 0.16	< 0.18	< 0.21	< 0.21 R
1,1-Dichloroethane	45	< 0.25	< 0.24	< 0.12	< 0.13	< 0.15	< 0.15 R
1,1-Dichloroethene	8	<0.25	< 0.12	< 0.057	< 0.064	< 0.076	**0.66 R**
1,2-Dichloroethane	3	< 0.25	< 0.24	< 0.12	< 0.13	< 0.15	< 0.15 R
Benzene	8	5.8	< 0.48	**0.32**	**0.3**	**0.31**	**0.41 R**
Ethyl-benzene	29	1.9	< 0.26	**0.14**	< 0.14	< 0.16	< 0.16 R
m,p-Xylene	10	3.1	**0.57**	**0.39**	**0.38**	**0.39**	**0.4 R**
o-Xylene	10	2.3	< 0.26	**0.15**	**0.14**	**0.18**	**0.19 R**
Tetrachloroethene	30	1.6	< 0.4	**0.2**	< 0.22	**0.42**	**3.1 R**
Toluene	521	21	**2**	**0.68**	**0.58**	**0.65**	**0.66 R**
trans-1,2-Dichloroethene	82	NA2	< 1.2	< 0.57	< 0.64	< 0.76	< 0.76 R
Trichloroethene	2	0.5	< 0.32	**0.42**	**0.32**	**0.49**	**5.6 R**
Vinyl Chloride	8	< 0.25	< 0.076	< 0.037	< 0.041	**0.25**	**12 R**
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.41	< 0.2	< 0.22	< 0.26	< 0.26 R
1,1,2-Trichloroethane	0.21	< 0.25	< 0.32	< 0.16	< 0.18	< 0.21	< 0.21 R
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.46	< 0.22	< 0.25	< 0.29	< 0.29 R
1,4-Dichlorobenzene	7	0.8	< 0.36 J	< 0.17 J	< 0.19 J	< 0.23 J	< 0.23 R
Carbon Tetrachloride	12	1	**0.47**	**0.55**	**0.53**	**0.52**	**0.54 R**
Chloroethane	NA1	0.4	< 0.39	< 0.19	< 0.21	< 0.25	< 0.25 R
Chloroform	3	0.5	< 0.29	**0.15**	**0.15 J**	< 0.19	< 0.19 R
Chloromethane	310	4.6	< 3.1	< 1.5	< 1.7	< 2	< 2 R
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.24	< 0.11	< 0.13	**0.15 J**	**2.1 R**
Freon 114	NA1	1.3	< 0.42	< 0.2	< 0.22	< 0.27	< 0.27 R
Freon 12	100	11	**2.1**	**2.2**	**2.1**	**2.1**	**2.1 R**
Methyl tert-butyl ether	260	NA2	< 1.1	< 0.52	< 0.58	< 0.69	< 0.69 R

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 (2020-10-16 through 2020-10-21)

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	< 0.18	< 0.19	< 0.18	< 0.18	< 0.18
1,1-Dichloroethane	45	< 0.25	< 0.14	< 0.14	< 0.13	< 0.14	< 0.14
1,1-Dichloroethene	8	<0.25	< 0.067	< 0.068	< 0.065	< 0.067	< 0.067
1,2-Dichloroethane	3	< 0.25	< 0.14	< 0.14	< 0.13	< 0.14	< 0.14
Benzene	8	5.8	**0.42**	**0.40**	**0.40**	**0.41**	**0.38**
Ethyl-benzene	29	1.9	**0.15**	**0.15**	**0.15**	**0.15**	**0.14**
m,p-Xylene	10	3.1	**0.46**	**0.46**	**0.44**	**0.45**	**0.44**
o-Xylene	10	2.3	**0.18**	**0.18**	**0.17**	**0.21**	**0.17**
Tetrachloroethene	30	1.6	< 0.23	< 0.23	< 0.22	< 0.23	< 0.23
Toluene	521	21	**0.88**	**0.85**	**0.81**	**0.78**	**0.75**
trans-1,2-Dichloroethene	82	NA2	< 0.67	< 0.68	< 0.65	< 0.67	< 0.67
Trichloroethene	2	0.5	**0.58**	**0.89**	**0.54**	**0.50**	**0.49**
Vinyl Chloride	8	< 0.25	< 0.043	< 0.044	< 0.042	< 0.043	< 0.043
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.23	< 0.23	< 0.22	< 0.23	< 0.23
1,1,2-Trichloroethane	0.21	< 0.25	< 0.18	< 0.19	< 0.18	< 0.18	< 0.18
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.26	< 0.26	< 0.25	< 0.26	< 0.26
1,4-Dichlorobenzene	7	0.8	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Carbon Tetrachloride	12	1	**0.50**	**0.50**	**0.52**	**0.48**	**0.52**
Chloroethane	NA1	0.4	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Chloroform	3	0.5	< 0.16	< 0.17	< 0.16	< 0.16	< 0.16
Chloromethane	310	4.6	< 1.7	< 1.8	< 1.7	< 1.7	< 1.7
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.13	< 0.14	< 0.13	< 0.13	< 0.13
Freon 114	NA1	1.3	< 0.23	< 0.24	< 0.23	< 0.23	< 0.23
Freon 12	100	11	**2.0**	**2.0**	**2.1**	**2.1**	**2.1**
Methyl tert-butyl ether	260	NA2	< 0.60	< 0.62	< 0.59	< 0.60	< 0.60

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 (2020-10-22 through 2020-10-28)

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-02-DUP
Site-specific Compounds of Interest[1]							
1,1,1-Trichloroethane	520	0.7	< 0.17	< 0.17	< 0.17	< 0.16	< 0.17
1,1-Dichloroethane	45	< 0.25	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13
1,1-Dichloroethene	8	<0.25	< 0.061	< 0.062	< 0.063	< 0.057	< 0.062
1,2-Dichloroethane	3	< 0.25	< 0.12	< 0.13	< 0.13	< 0.12	< 0.13
Benzene	8	5.8	**0.28**	**0.28**	**0.43**	**0.27**	**0.26**
Ethyl-benzene	29	1.9	< 0.13	< 0.14	**0.59**	< 0.12	< 0.14
m,p-Xylene	10	3.1	**0.30**	**0.29**	**1.8**	< 0.25	**0.27**
o-Xylene	10	2.3	< 0.13	< 0.14	**0.83**	< 0.12	< 0.14
Tetrachloroethene	30	1.6	< 0.21	< 0.21	**0.22**	< 0.20	< 0.21
Toluene	521	21	**0.64**	**0.66**	**1.5**	**0.54**	**0.67**
trans-1,2-Dichloroethene	82	NA2	< 0.61	< 0.62	< 0.63	< 0.57	< 0.62
Trichloroethene	2	0.5	**0.35**	**0.68**	**0.27**	**0.23**	**0.70**
Vinyl Chloride	8	< 0.25	< 0.039	< 0.040	< 0.040	< 0.037	< 0.040
Other Compounds[3]							
1,1,2,2-Tetrachloroethane	1.3	< 0.25	< 0.21	< 0.21	< 0.22	< 0.20	< 0.21
1,1,2-Trichloroethane	0.21	< 0.25	< 0.17	< 0.17	< 0.17	< 0.16	< 0.17
1,2-Dibromoethane (EDB)	0.12	< 0.25	< 0.24	< 0.24	< 0.24	< 0.22	< 0.24
1,4-Dichlorobenzene	7	0.8	< 0.18	< 0.19	< 0.19	< 0.17	< 0.19
Carbon Tetrachloride	12	1	**0.55**	**0.58**	**0.54**	**0.59**	**0.60**
Chloroethane	NA1	0.4	< 0.20	< 0.20	< 0.21	< 0.19	< 0.20
Chloroform	3	0.5	< 0.15	< 0.15	< 0.15	< 0.14	< 0.15
Chloromethane	310	4.6	< 1.6	< 1.6	**1.8**	< 1.5	< 1.6
cis-1,2-Dichloroethene	NA1	< 0.25	< 0.12	< 0.12	< 0.12	< 0.11	< 0.12
Freon 114	NA1	1.3	< 0.22	< 0.22	< 0.22	< 0.20	< 0.22
Freon 12	100	11	**2.2**	**2.1**	**1.8**	**2.2**	**2.2**
Methyl tert-butyl ether	260	NA2	< 0.56	< 0.56	< 0.57	< 0.52	< 0.56

Notes: µg/m³ - micrograms per cubic meter

< - indicates not detected at or above the indicated value

Bold - indicates detections

J - indicates sample result is estimated

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 over a 5-day period because of 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