

Summary of Perimeter Air Monitoring Results
Cabot Carbon Superfund Site Gainesville, FL
Most Recent Sampling Date: 11-21-2019

Sampling Station	Action Level (µg/m ³) See Gradient (2019)	Odor Threshold (µg/m ³) See AIHA (2013)	Background Level (µg/m ³) See Gradient (2019)	AQM 1								AQM 2							
				7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19	7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	
Date of Collection																			
Sampling Device				SUMMA Canister								SUMMA Canister							
Analytes				µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	
Acetone	30,881	1.0	16.4	57	17	24	12	14	16	11	7.0	22	27	210	12	11	8.3	7.1	
Methyl Ethyl Ketone	59,000	0.21	8.3	2.6	2.1J	1.8J	0.72J	2.4J	2.4J	1.1J	0.70J	3.4	4.1	5.8	1.0J	0.91J	0.87J	0.54J	
Benzene	19	1.5	5.9	0.49	0.43	0.21J	0.54	0.22J	0.26J	0.25J	0.39	0.45	0.15J	0.18J	0.21J	0.18J	0.18J	0.23J	
Ethylbenzene	8,684	< 0.0087	2.6	0.29	0.23	0.14J	0.45	0.14J	.094J	0.18	0.54	0.36	0.063J	0.067J	0.081J	0.11J	0.093J	0.13J	
Toluene	3,769	0.079	0.9	1.6	1.4	2.0	0.95	1.5	0.88	2.5	9.2	1.9	0.38	0.72	0.61	1.3	0.86	1.7	
m,p Xylene	2,605	0.052	86.8	0.92	0.92	0.49	1.4	0.58	0.37J	0.70	2.4	1.2	0.22J	0.34J	.25J	0.47	0.36	0.64	
o Xylene	2,605	0.052	34.7	0.35	0.33	0.17	0.91	0.22	0.15J	0.36	0.67	0.5	0.095J	0.096J	0.10J	0.17	0.16	0.16	
Total Xylenes	2,605	0.052	121.6	1.27	1.25	0.66	2.31	0.80	0.52J	1.06	3.07	1.7	0.315J	1.3J	0.35J	0.64	0.52	0.80	
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.8	<5.7	<3.8	<5.0	<5.0	<6.1	<4.8	<5.2	<4.7	<5.2	<7.3	<4.7	<4.7	<4.8	<4.8	
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	ND	<5.7	<3.8	<5.0	<5.0	<6.1	<4.8	<5.2	ND	<5.2	<7.3	<4.7	<4.7	<4.8	<4.8	
Camphor	200	0.016	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
D-Limonene (Limonene)	16,717	0.01	Not Reported	NA	<5.7	<3.8	<5.0	<5.0	<6.1	<4.8	<5.2	NA	<5.2	<7.3	<4.7	<4.7	<4.8	<4.8	
Average PID Reading During Canister Sampling (Parts Per Million)				0.1				0.0	0.0	0.0	0.0	0.1				0.0	0.0	0.0	

Notes:

Samples were collected using an 8 -hour sample duration.
 Canister samples were collected in a 6-L SUMMA canister and analyzed using EPA Method TO 15.
 Charcoal tube samples were collected in glass tubes using personal air sampling pumps and analyzed by NIOSH Method 1552
 µg/m³: Indicates micrograms per cubic meter.
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 ND: Compound not detected in the sample.

No action needed (concentrations below 50% action level)

Modify work practices to reduce volatile emissions (concentrations between 50% action level and action level)

Stop work until emissions are lowered to protective levels (concentrations above action level)

American Conference of Governmental Industrial Hygienists (ACGIH) 2003. "Documentation for turpentine and selected monoterpenes." In Documentation of the Threshold Limit Values and Biological Exposure Indices (Seventh Edition). American Conference of Governmental Industrial Hygienists (ACGIH). 14p.

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Date of Collection				11/21/19
Sampling Device				
Analytes				µg/m ³
Acetone	30,881	1.0	16.4	9.7
Methyl Ethyl Ketone	59,000	0.21	8.3	0.90J
Benzene	19	1.5	5.9	0.32
Ethylbenzene	8,684	< 0.0087	2.6	0.18
Toluene	3,769	0.079	0.9	1.0
m,p Xylene	2,605	0.052	86.8	0.71
o Xylene	2,605	0.052	34.7	0.24
Total Xylenes	2,605	0.052	121.6	0.95
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.8
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	<4.8
Camphor	200	0.016	Not Reported	ND
D-Limonene (Limonene)	16,717	0.01	Not Reported	<4.8
Average PID Reading During Canister Sampling (Parts Per Million)				0.0

Notes:

Samples were collected using an 8 -hour sample duration.
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Modify work practices to reduce volatile emissions (concentrations between 50% action level and action level)

Stop work until emissions are lowered to protective levels (concentrations above action level)

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				7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19	7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19
Date of Collection																			
Sampling Device				SUMMA Canister								SUMMA Canister							
Analytes				µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Acetone	30,881	1.0	16.4	24	36	43	13	11	13	20	8.0	18	31	17	14	12	12	6.9	9.6
Methyl Ethyl Ketone	59,000	0.21	8.3	3.1	6.2	1.8J	1.3J	1.6J	1.1J	2.1J	0.94J	2.3J	1.7J	1.9	1.1J	1.2J	1.3J	0.58	1.2J
Benzene	19	1.5	5.9	0.5	3.3	0.19J	0.21J	0.24J	0.21J	0.19J	0.40	0.39	0.14J	0.18J	0.17J	0.17J	0.31	0.18J	0.30
Ethylbenzene	8,684	< 0.0087	2.6	0.2	0.15J	0.12J	0.14J	0.14	0.21	0.10J	0.25	0.14	0.054J	0.14J	0.17	0.19	1.1	0.10J	1.0
Toluene	3,769	0.079	0.9	1.6	1.4	1.1	0.55	1.4	1.1	1.4	1.2	1	0.41	1.1	0.60	1.1	3.2	1.0	1.7
m,p Xylene	2,605	0.052	86.8	0.66	0.64	0.48	0.38	0.54	0.63	0.35	0.74	0.39	0.22J	0.46	0.41	0.59	2.2	0.36	2.9
o Xylene	2,605	0.052	34.7	0.28	0.25	0.16	0.15	0.19	0.27	0.19	0.27	0.15	0.087J	0.16	0.14J	0.19	0.86	0.13J	0.92
Total Xylenes	2,605	0.052	121.6	0.94	0.89	0.64	0.53	0.73	0.90	0.54	1.01	0.54	0.307J	0.62	0.55J	0.78	3.06	0.49	3.82
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.5	<5.9	<4.6	<4.8	<4.5	<4.8	<4.7	<4.8	<4.5	<5.6	<4.9	<5.0	<4.8	<5.1	<4.6	<5.1
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	ND	<5.9	<4.6	<4.8	<4.5	<4.8	<4.7	<4.8	ND	<5.6	<4.9	<5.0	<4.8	<5.1	<4.6	<5.1
Camphor	200	0.016	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
D-Limonene (Limonene)	16,717	0.01	Not Reported	NA	<5.9	<4.6	<4.8	<4.5	<4.8	<4.7	<4.8	NA	<5.6	<4.9	<5.0	<4.8	10	<4.6	<5.1
Average PID Reading During Canister Sampling (Parts Per Million)				0.1				0.0	0.0	0.0	0.0	0.1				0.0	0.0	0.0	0.0

Notes:

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				7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19	7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	
Date of Collection																			
Sampling Device				SUMMA Canister								SUMMA Canister							
Analytes				µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	
Acetone	30,881	1.0	16.4	15	21	22	7.8	47	12	7.2	8.3	14	20	23	8.5	14	9.6	8.6	
Methyl Ethyl Ketone	59,000	0.21	8.3	1.7J	1.7J	1.4J	0.62J	1.8J	1.6J	0.55J	0.61J	1.6J	2.1J	2.0J	0.68J	1.1J	0.92J	0.65J	
Benzene	19	1.5	5.9	0.44	0.5	0.32	0.19J	0.20J	0.43	0.23J	0.35	0.5	0.25J	0.34	0.36	0.28J	0.54	0.30	
Ethylbenzene	8,684	< 0.0087	2.6	0.16	0.073J	2.2	0.16	0.44	0.51	0.17	0.48	0.19	0.11J	1.2	1.7	0.36	0.36	0.64	
Toluene	3,769	0.079	0.9	1.2	0.88	4.4	0.52	1.5	1.8	1.0	1.4	1.5	0.6	3.3	4.7	1.8	2.2	1.4	
m,p Xylene	2,605	0.052	86.8	0.47	0.29J	3.9	0.40	1.1	1.2	0.53	1.2	0.54	0.41	2.4	3.2	1.1	1.3	2.6	
o Xylene	2,605	0.052	34.7	0.17	0.12J	1.5	0.15J	0.34	0.48	0.20	0.52	0.21	0.17J	0.88	0.92	0.44	0.52	0.75	
Total Xylenes	2,605	0.052	121.6	0.64	0.41J	5.4	0.55J	1.44	1.68	0.73	1.72	0.75	0.58J	3.28	4.12	1.54	1.82	3.35	
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.6	<6.0	6.1	<5.0	<4.3	<4.4	<4.5	<4.9	<4.9	<5.9	<4.9	<4.8	<4.9	<4.7	<4.5	
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	ND	<6.0	<4.6	<5.0	<4.3	<4.4	<4.5	<4.9	ND	<5.9	<4.9	<4.8	<4.9	<4.7	<4.5	
Camphor	200	0.016	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
D-Limonene (Limonene)	16,717	0.01	Not Reported	NA	<6.0	24	<5.0	5.2	<4.4	<4.5	<4.9	NA	<5.9	8.9	21	<4.9	<4.7	<4.5	
Average PID Reading During Canister Sampling (Parts Per Million)				0.1				0.0	0.0	0.0	0.0	0.1				0.0	0.0	0.0	

Notes:

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Sampling Device				
Analytes				µg/m ³
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Methyl Ethyl Ketone	59,000	0.21	8.3	0.89J
Benzene	19	1.5	5.9	2.0
Ethylbenzene	8,684	< 0.0087	2.6	2.4
Toluene	3,769	0.079	0.9	11
m,p Xylene	2,605	0.052	86.8	7.4
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Total Xylenes	2,605	0.052	121.6	10.1
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Average PID Reading During Canister Sampling (Parts Per Million)				0.0

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				7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19	7/18/19	8/26/19	9/12/19	9/24/19	10/11/19	10/25/19	11/8/19	11/21/19	
Date of Collection																				
Sampling Device				SUMMA Canister								SUMMA Canister								
Analytes				µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	
Acetone	30,881	1.0	16.4	23	14	52	11	26	27	12	17	20	36	36	15	16	15	9.2	20	
Methyl Ethyl Ketone	59,000	0.21	8.3	2.2J	1.5J	9.3	0.68J	2.1J	1.2J	1.8J	1.7J	1.9J	1.9J	2.0J	1.3J	0.87J	2.0J	0.65J	1.2J	
Benzene	19	1.5	5.9	0.71	0.41	0.37	0.53	0.38	0.21J	0.81	0.63	0.86	0.4	0.36	0.19J	0.49	0.43	1.1	0.54	
Ethylbenzene	8,684	< 0.0087	2.6	0.29	0.27	0.30	2.60	0.42	0.22	0.38	0.33	0.31	0.23	0.19	0.71	0.29	0.39	0.54	0.17	
Toluene	3,769	0.079	0.9	2	1.2	1.9	5.2	2.5	1.3	2.5	2.1	2	1.3	1.8	1.4	2.3	2.9	4.4	1.8	
m,p Xylene	2,605	0.052	86.8	0.87	0.96	0.89	4.3	1.8	0.93	1.3	0.92	0.77	0.88	0.75	1.4	1.3	1.6	2.0	0.58	
o Xylene	2,605	0.052	34.7	0.36	0.41	0.35	1.4	0.76	0.44	0.51	0.43	0.29	0.35	0.29	0.41	0.51	0.95	0.74	0.21	
Total Xylenes	2,605	0.052	121.6	1.23	1.37	1.24	5.7	2.56	1.37	1.81	1.35	1.06	1.23	1.04	1.81	1.81	2.55	2.74	0.79	
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.5	<5.0	<4.6	<4.7	<4.6	<4.5	<4.4	<5.1	<4.6	<5.2	<4.8	<4.9	<5.0	<4.6	<5.4	<4.6	
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	ND	<5.0	<4.6	<4.7	<4.6	<4.5	<4.4	<5.1	ND	<5.2	<4.8	<4.9	<5.0	<4.6	<5.4	<4.6	
Camphor	200	0.016	Not Reported	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
D-Limonene (Limonene)	16,717	0.01	Not Reported	NA	<5.0	<4.6	44	<4.6	<4.5	<4.4	<5.1	NA	<5.2	<4.8	11	<5.0	<4.6	<5.4	<4.6	
Average PID Reading During Canister Sampling (Parts Per Million)				0.1					0.0	0.0	0.0	0.0	0.1				0.0	0.0	0.0	0.0

Notes:

Samples were collected using an 8 -hour sample duration.
 Canister samples were collected in a 6-L SUMMA canister and analyzed using EPA Method TO 15.
 Charcoal tube samples were collected in glass tubes using personal air sampling pumps and analyzed by NIOSH Method 1552
 µg/m³: Indicates micrograms per cubic meter.
 NA: Indicates not analyzed
 J: Indicates an estimated concentration that is below the laboratory reporting limit for the indicated compound
 ND: Compound not detected in the sample.

No action needed (concentrations below 50% action level)

Modify work practices to reduce volatile emissions (concentrations between 50% action level and action level)

Stop work until emissions are lowered to protective levels (concentrations above action level)

American Conference of Governmental Industrial Hygienists (ACGIH) 2003. "Documentation for turpentine and selected monoterpenes." In Documentation of the Threshold Limit Values and Biological Exposure Indices (Seventh Edition). American Conference of Governmental Industrial Hygienists (ACGIH). 14p.

American Industrial Hygiene Association (AIHA). Murnane, SS; Lehocky, AH; Owens, PD; eds. 2013. "Odor Thresholds for Chemicals with Established Occupational Health Standards (Second Edition)." Falls Church, VA. 182p.

*Office of Odor, Noise and Vibration, Environmental Management Bureau, Ministry of the Environment, Government of Japan. c. 2003. "Odor Measurement Review." Accessed September 23, 2019 at http://www.orea.or.jp/en/PDF/Odor_Measurement_Review.pdf

**Filipsson, FA. 1996. "Short term inhalation exposure to turpentine: toxicokinetics and acute effects in men." Occupational and Environmental Medicine, 53:100-105. Accessed September 12, 2019 at <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1128421/pdf/oenvmed00074-0028.pdf>

Charcoal tube sampling has been discontinued. Refer to previous versions of the air sampling dashboard to view these data.

Summary of Perimeter Air Monitoring Results

Cabot Carbon Superfund Site Gainesville, FL

Most Recent Sampling Date: 11-21-2019

Sampling Station	Action Level (µg/m ³) See Gradient (2019)	Odor Threshold (µg/m ³) See AIHA (2013)	Background Level (µg/m ³) See Gradient (2019)	AQM 88 (Duplicate)	AQM 88 (Duplicate)	AQM 88 (Duplicate)	AQM 88 (Duplicate)
Date of Collection				7/18/19	9/24/19	10/25/19	11/21/19
Sampling Device				SUMMA Canister	SUMMA Canister	SUMMA Canister	SUMMA Canister
Analytes				µg/m ³	µg/m ³	µg/m ³	µg/m ³
Acetone	30,881	1.0	16.4	19	8	11	12
Methyl Ethyl Ketone	59,000	0.21	8.3	1.7J	0.61J	1.0J	0.68J
Benzene	19	1.5	5.9	0.58	0.18J	0.37	0.54
Ethylbenzene	8,684	< 0.0087	2.6	0.23	0.7	0.38	0.17
Toluene	3,769	0.079	0.9	1.8	1.4	2.7	1.8
m,p Xylene	2,605	0.052	86.8	0.68	1.3	1.6	0.59
o Xylene	2,605	0.052	34.7	0.26	0.40	0.86	0.23
Total Xylenes	2,605	0.052	121.6	0.94	1.7	2.46	0.82
Alpha Pinene (2-pinene)	11,000	1,003*	Not Reported	<4.8	<5.5	<4.6	<4.8
3-Carene (Isodiprene)	11,000	< 10,000**	Not Reported	ND	ND	ND	ND
Beta Pinene (Nopinene)	11,000	1,839*	Not Reported	ND	<5.5	<4.6	<4.8
Camphor	200	0.016	Not Reported	ND	ND	ND	ND
D-Limonene (Limonene)	16,717	0.01	Not Reported	NA	12	<4.6	<4.8
Average PID Reading During Canister Sampling (Parts Per Million)						0.0	0.0

Notes:

Samples were collected using an 8 -hour sample duration.

Canister samples were collected in a 6-L SUMMA canister and analyzed using EPA Method TO 15.

Charcoal tube samples were collected in glass tubes using personal air sampling pumps and analyzed by NIOSH Method 1552

µg/m³: Indicates micrograms per cubic meter.

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