

North Carolina Division of Air Quality Monthly Hazardous Air Pollutant Report

Report Date **January 9, 2015**

Data period **11/1/2014** to **11/30/2014**

Prepared by **Ambient Monitoring Section**



Limits and restrictions: Every effort has been made to ensure these data are accurate. This report is for informational purposes.

2014	24-Hour Average Sample Concentration (ppbv) Samples are collected 1 every 6 days								Year to Date		
	Hazardous Air Pollutant	Site Name	County	AQS ID	1-Nov	7-Nov	13-Nov	19-Nov	25-Nov	High	90th Percentile
Saturday					Friday	Thursday	Wednesday	Tuesday			
Acetaldehyde*	AB Tech.	Buncombe	37-021-0035	NO	NO	NO	NO	NO	NO	NO	NO
	Garinger	Mecklenburg	37-119-0041	NO	NO	NO	NO	NO	NO	NO	NO
	Hattie Ave.	Forsyth	37-067-0022	NO	NO	NO	NO	NO	NO	NO	NO
	Candor	Montgomery	37-123-0001	0.29	0.57	0.84	0.93	NS	1.21	0.74	
	Blackstone	Lee	37-105-0002	0.33	0.51	0.80	0.78	0.50	0.96	0.78	
	Millbrook	Wake	37-183-0014	0.42	0.59	0.73	1.13	0.66	1.25	1.01	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	NO
Benzene	AB Tech.	Buncombe	37-021-0035	0.04	0.09	0.11	0.18	0.10	0.80	0.25	
	Garinger	Mecklenburg	37-119-0041	0.08	0.16	0.13	0.20	0.11	0.39	0.30	
	Hattie Ave.	Forsyth	37-067-0022	0.05	0.08	0.10	0.21	0.05	0.39	0.28	
	Candor	Montgomery	37-123-0001	0.05	0.05	0.10	0.08	0.03	0.28	0.21	
	Blackstone	Lee	37-105-0002	0.10	0.07	0.11	0.13	0.03	0.33	0.23	
	Millbrook	Wake	37-183-0014	0.07	ND	0.12	0.18	0.08	0.48	0.26	
	Battleship	New Hanover	37-129-0010	0.06	0.06	0.11	0.10	0.04	0.37	0.24	
Ethylbenzene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.08	0.02	
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.11	0.08	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.11	0.05	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.00	ND	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.01	ND	
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.09	0.05	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.05	0.01	
Formaldehyde*	AB Tech.	Buncombe	37-021-0035	NO	NO	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	37-119-0041	NO	NO	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	37-067-0022	NO	NO	NO	NO	NO	NO	NO	
	Candor	Montgomery	37-123-0001	0.64	0.96	1.50	1.18	NS	3.79	3.00	
	Blackstone	Lee	37-105-0002	0.65	0.87	1.29	1.28	0.94	3.85	3.00	
	Millbrook	Wake	37-183-0014	1.06	1.32	1.67	2.07	1.38	5.12	3.60	
	Battleship	New Hanover	37-129-0010	NO	NO	NO	NO	NO	NO	NO	
n-Hexane	AB Tech.	Buncombe	37-021-0035	ND	0.05	0.06	0.05	0.06	0.29	0.12	
	Garinger	Mecklenburg	37-119-0041	0.06	0.16	0.10	0.11	0.10	0.28	0.18	
	Hattie Ave.	Forsyth	37-067-0022	0.03	0.08	0.05	0.16	0.06	0.31	0.17	
	Candor	Montgomery	37-123-0001	ND	0.04	0.05	0.01	0.03	0.09	0.06	
	Blackstone	Lee	37-105-0002	0.20	0.05	0.07	0.04	0.03	0.11	0.07	
	Millbrook	Wake	37-183-0014	0.03	0.12	0.06	0.15	0.10	0.63	0.21	
	Battleship	New Hanover	37-129-0010	0.04	0.04	0.11	0.05	0.09	0.21	0.10	
Styrene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.03	ND	
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.03	ND	
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.04	ND	
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.10	ND	
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.07	ND	
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.03	ND	
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.03	ND	

ND = not detected in sample
NS = no valid sample / data
NO = site not operating
 * Acetaldehyde and Formaldehyde are not monitored at all sites
 Blackstone site began operating in November 2013

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2014	24-Hour Average Sample Concentration (ppbv) Samples are collected 1 every 6 days								Year to Date	
Hazardous Air Pollutant	Site Name	County	AQS ID	1-Nov	7-Nov	13-Nov	19-Nov	25-Nov	High	90th Percentile
				Saturday	Friday	Thursday	Wednesday	Tuesday		
Toluene	AB Tech.	Buncombe	37-021-0035	ND	0.05	0.10	0.28	0.07	0.75	0.52
	Garinger	Mecklenburg	37-119-0041	0.06	0.40	0.21	0.38	0.22	0.68	0.55
	Hattie Ave.	Forsyth	37-067-0022	0.04	0.03	0.04	0.27	0.08	0.62	0.36
	Candor	Montgomery	37-123-0001	ND	ND	0.07	ND	0.04	0.56	0.13
	Blackstone	Lee	37-105-0002	0.02	ND	0.07	0.07	ND	0.21	0.13
	Millbrook	Wake	37-183-0014	0.05	0.16	0.17	0.23	0.26	0.89	0.33
	Battleship	New Hanover	37-129-0010	0.04	0.00	0.17	0.03	0.06	0.39	0.18
1,2,4-Trimethylbenzene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.13	0.05
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.14	0.08
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.09	0.06
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.19	0.15
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.17	0.07
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.15	0.09
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.08	0.05
m/p-Xylene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	0.01	ND	0.27	0.14
	Garinger	Mecklenburg	37-119-0041	ND	0.12	0.03	0.11	0.05	0.70	0.26
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	0.12	ND	0.45	0.20
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.05	0.04
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.06	0.05
	Millbrook	Wake	37-183-0014	ND	ND	ND	0.06	0.02	0.59	0.18
	Battleship	New Hanover	37-129-0010	ND	ND	0.02	ND	ND	1.04	0.13
o-Xylene	AB Tech.	Buncombe	37-021-0035	ND	ND	ND	ND	ND	0.11	0.04
	Garinger	Mecklenburg	37-119-0041	ND	ND	ND	ND	ND	0.12	0.08
	Hattie Ave.	Forsyth	37-067-0022	ND	ND	ND	ND	ND	0.15	0.05
	Candor	Montgomery	37-123-0001	ND	ND	ND	ND	ND	0.01	ND
	Blackstone	Lee	37-105-0002	ND	ND	ND	ND	ND	0.01	ND
	Millbrook	Wake	37-183-0014	ND	ND	ND	ND	ND	0.12	0.05
	Battleship	New Hanover	37-129-0010	ND	ND	ND	ND	ND	0.07	0.02

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24-hour Average Values (Most Recent 3 Years), ppbv

Hazardous Air Pollutant	Site Name	County	RYTD Valid Sample Days***	24-hr Average Concentrations 90 th Percentile				Normalized 3 yr. Mean 90 th Percentiles**
				RYTD 2014	2013	2012	2011	
Acetaldehyde *	AB Tech.	Buncombe	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	
	Candor	Montgomery	58	0.72	0.54	NO	NO	
	Blackstone	Lee	60	0.77	0.64	NO	NO	
	Millbrook	Wake	59	0.97	0.80	NO	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
Benzene	AB Tech.	Buncombe	59	0.25	0.25	0.29	0.32	
	Garinger	Mecklenburg	55	0.31	0.35	0.43	0.56	
	Hattie Ave.	Forsyth	55	0.30	0.33	0.34	1.33	
	Candor	Montgomery	56	0.21	0.19	0.16	0.75	
	Blackstone	Lee	60	0.22	0.14	NO	NO	
	Millbrook	Wake	56	0.27	0.36	0.43	0.42	
	Battleship	New Hanover	56	0.23	0.19	0.22	0.24	
Ethylbenzene	AB Tech.	Buncombe	59	0.02	0.11	0.12	0.17	
	Garinger	Mecklenburg	55	0.09	0.16	0.12	0.22	
	Hattie Ave.	Forsyth	55	0.05	0.20	0.13	0.17	
	Candor	Montgomery	56	0.00	0.06	0.04	0.09	
	Blackstone	Lee	60	0.00	0.00	NO	NO	
	Millbrook	Wake	56	0.05	0.15	0.19	0.18	
	Battleship	New Hanover	56	0.02	0.09	0.08	0.19	
Formaldehyde*	AB Tech.	Buncombe	NO	NO	NO	NO	NO	
	Garinger	Mecklenburg	NO	NO	NO	NO	NO	
	Hattie Ave.	Forsyth	NO	NO	NO	NO	NO	
	Candor	Montgomery	58	2.88	2.36	NO	NO	
	Blackstone	Lee	60	2.99	1.40	NO	NO	
	Millbrook	Wake	59	3.59	2.99	NO	NO	
	Battleship	New Hanover	NO	NO	NO	NO	NO	
n-Hexane	AB Tech.	Buncombe	59	0.12	0.15	0.14	0.19	
	Garinger	Mecklenburg	55	0.22	0.26	0.28	0.40	
	Hattie Ave.	Forsyth	54	0.18	0.30	0.25	0.33	
	Candor	Montgomery	56	0.06	0.06	0.06	0.11	
	Blackstone	Lee	60	0.08	0.06	NO	NO	
	Millbrook	Wake	55	0.21	0.36	0.42	0.34	
	Battleship	New Hanover	56	0.11	0.15	0.26	0.20	
Styrene	AB Tech.	Buncombe	59	0.00	0.13	0.12	0.14	
	Garinger	Mecklenburg	55	0.00	0.14	0.11	0.15	
	Hattie Ave.	Forsyth	55	0.00	0.12	0.10	0.11	
	Candor	Montgomery	56	0.00	0.11	0.09	0.10	
	Blackstone	Lee	60	0.00	0.00	NO	NO	
	Millbrook	Wake	56	0.00	0.13	0.11	0.13	
	Battleship	New Hanover	56	0.01	0.12	0.09	0.14	

Notes:

ND = not detected in sample

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NO = site not operating

RYTD = rolling-year-to-date

* Acetaldehyde and Formaldehyde are not monitored at all sites

***The maximum possible number of valid sample days = 61.

Blackstone site began operating in November 2013

**The white bar shows the 90th percentile value for each pollutant at each site as averaged from the previous 3 years of data and normalized to show how it compares to a 90th percentile statewide historical value (1.0 on the graph). Similarly, the black bar shows the normalized 90th percentile for the latest 3 years, including a rolling 1 year value (RYTD) for the current year's value.

24-hour Average Values (Most Recent 3 Years), ppbv

Hazardous Air Pollutant	Site Name	County	RYTD Valid Sample Days***	24-hr Average Concentrations 90th Percentile				Normalized 3-yr. Mean 90th Percentiles**
				RYTD 2014	2013	2012	2011	
Toluene	AB Tech.	Buncombe	58	0.51	0.71	0.74	0.80	
	Garinger	Mecklenburg	54	0.56	0.75	0.76	1.00	
	Hattie Ave.	Forsyth	53	0.37	0.87	0.79	0.84	
	Candor	Montgomery	53	0.13	0.19	0.13	0.28	
	Blackstone	Lee	57	0.13	0.11	NO	NO	
	Millbrook	Wake	53	0.38	0.75	1.09	0.79	
	Battleship	New Hanover	53	0.17	0.29	0.54	0.45	
1,2,4-Trimethylbenzene	AB Tech.	Buncombe	59	0.05	0.26	0.15	0.12	
	Garinger	Mecklenburg	55	0.10	0.31	0.21	0.18	
	Hattie Ave.	Forsyth	55	0.06	0.40	0.18	0.18	
	Candor	Montgomery	56	0.15	0.00	0.01	0.07	
	Blackstone	Lee	60	0.06	ND	NO	NO	
	Millbrook	Wake	56	0.09	0.31	0.25	0.14	
	Battleship	New Hanover	56	0.05	0.16	0.16	0.10	
m/p-Xylene	AB Tech.	Buncombe	59	0.14	0.47	0.30	0.25	
	Garinger	Mecklenburg	54	0.32	0.88	0.39	0.37	
	Hattie Ave.	Forsyth	55	0.21	1.01	0.39	0.27	
	Candor	Montgomery	56	0.04	0.18	0.08	0.10	
	Blackstone	Lee	59	0.05	0.03	NO	NO	
	Millbrook	Wake	56	0.19	0.76	0.57	0.31	
	Battleship	New Hanover	56	0.13	0.50	0.60	0.56	
o-Xylene	AB Tech.	Buncombe	59	0.03	0.13	0.11	0.18	
	Garinger	Mecklenburg	55	0.10	0.19	0.15	0.26	
	Hattie Ave.	Forsyth	55	0.06	0.27	0.15	0.21	
	Candor	Montgomery	56	0.00	0.06	0.04	0.09	
	Blackstone	Lee	60	0.00	0.00	NO	NO	
	Millbrook	Wake	56	0.06	0.19	0.24	0.20	
	Battleship	New Hanover	56	0.02	0.10	0.09	0.23	

Notes:

ND = not detected in sample

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RYTD = rolling-year-to-date

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***The maximum possible number of valid sample days = 61.

Blackstone site began operating in November 2013

**The white bar shows the 90th percentile value for each pollutant at each site as averaged from the previous 3 years of data and normalized to show how it compares to a 90th percentile statewide historical value (1.0 on the graph). Similarly, the black bar shows the normalized 90th percentile for the latest 3 years, including a rolling 1 year value (RYTD) for the current year's value.