

Hydrogen Sulfide (H2S) Monitoring Data (Liberty Monitor)

(Average and Maximum Daily Concentrations in parts per million (ppm))

**(State ambient air quality standard (daily) = 0.005 ppm
State ambient air quality standard (1-hour) = 0.1 ppm)**

	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28	Dec 29
Avg.	0.002 ppm	0 ppm	0.003 ppm	<u>0.014 ppm exceedance</u>	0.001 ppm	<u>0.008 ppm exceedance</u>	0.001 ppm
Max.	0.006 ppm	0.005 ppm	0.013 ppm	0.064 ppm	0.007 ppm	0.058 ppm	0.005 ppm

	Dec 30	Dec 31	Jan 1	Jan 2	Jan 3	Jan 4	Jan 5
Avg.	0.004 ppm	0.004 ppm	0.001 ppm	0.003 ppm	0.002 ppm	0.004 ppm	0.002 ppm
Max.	0.023 ppm	0.025 ppm	0.003 ppm	0.015 ppm	0.011 ppm	0.01 ppm	0.004 ppm

	Jan 6	Jan 7	Jan 8	Jan 9	Jan 10	Jan 11	Jan 12
Avg.	0.001 ppm	0 ppm	<u>0.009 ppm exceedance</u>	0.001 ppm	0.001 ppm	0.001 ppm	0 ppm
Max.	0.003 ppm	0.004 ppm	0.025 ppm	0.003 ppm	0.003 ppm	0.002 ppm	0.001 ppm

	Jan 13	Jan 14	Jan 15	Jan 16	Jan 17	Jan 18	Jan 19
Avg.	0 ppm	0.001 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0 ppm
Max.	0.001 ppm	0.004 ppm	0.003 ppm	0.002 ppm	0.001 ppm	0.007 ppm	0.001 ppm

	Jan 20	Jan 21	Jan 22	Jan 23	Jan 24	Jan 25	Jan 26
Avg.	0 ppm	0.001 ppm	0.001 ppm	0.005 ppm	0.002 ppm	0 ppm	0.001 ppm
Max.	0.002 ppm	0.004 ppm	0.009 ppm	0.02 ppm	0.013 ppm	0.001 ppm	0.004 ppm

	Jan 27	Jan 28	Jan 29	Jan 30	Jan 31	Feb 1	Feb 2
Avg.	0.001 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0.002 ppm	<u>0.013 ppm exceedance</u>
Max.	0.008 ppm	0 ppm	0.004 ppm	0.006 ppm	0.002 ppm	0.018 ppm	0.05 ppm

	Feb 3	Feb 4	Feb 5	Feb 6	Feb 7	Feb 8	Feb 9
Avg.	<u>0.022 ppm exceedance</u>	<u>0.021 ppm exceedance</u>	0.001 ppm	0 ppm	0.001 ppm	0 ppm	0 ppm
Max.	0.045 ppm	0.074 ppm	0.019 ppm	0.009 ppm	0.007 ppm	0.011 ppm	0 ppm

	Feb 10	Feb 11	Feb 12	Feb 13	Feb 14	Feb 15	Feb 16
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0.002 ppm	0.001 ppm	0 ppm
Max.	0.003 ppm	0.002 ppm	0 ppm	0 ppm	0.021 ppm	0.015 ppm	0 ppm

	Feb 17	Feb 18	Feb 19	Feb 20	Feb 21	Feb 22	Feb 23
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0.003 ppm	0 ppm	0 ppm
Max.	0.004 ppm	0.001 ppm	0.004 ppm	0.009 ppm	0.037 ppm	0.001 ppm	0 ppm

	Feb 24	Feb 25	Feb 26	Feb 27	Feb 28	Mar 1	Mar 2
Avg.	0.001 ppm	-----	0 ppm	0.001 ppm	0 ppm	0 ppm	0 ppm
Max.	0.013 ppm	P	0.002 ppm	0.007 ppm	0.001 ppm	0.001 ppm	0.002 ppm

	Mar 3	Mar 4	Mar 5	Mar 6	Mar 7	Mar 8	Mar 9
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Max.	0.003 ppm	0.001 ppm	0.001 ppm	0.002 ppm	0.005 ppm	0.003 ppm	0.004 ppm

	Mar 10	Mar 11	Mar 12	Mar 13	Mar 14	Mar 15	Mar 16
Avg.	0.001 ppm	0 ppm	0.001 ppm	0.001 ppm	0.005 ppm	0.001 ppm	0 ppm
Max.	0.016 ppm	0.001 ppm	0.017 ppm	0.006 ppm	0.060 ppm	0.012 ppm	0.003 ppm

	Mar 17	Mar 18	Mar 19	Mar 20	Mar 21	Mar 22	Mar 23
Avg.	0 ppm	0 ppm	<u>0.006 ppm exceedance</u>	0.002 ppm	0 ppm	0 ppm	0.003 ppm
Max.	0 ppm	0 ppm	0.035 ppm	0.010 ppm	0.005 ppm	0.002 ppm	0.035 ppm

	Mar 24	Mar 25	Mar 26	Mar 27	Mar 28	Mar 29	Mar 30
Avg.	<u>0.009 ppm exceedance</u>	0 ppm	0 ppm	0 ppm	<u>0.010 ppm exceedance</u>	<u>0.006 ppm exceedance</u>	0.005 ppm
Max.	0.029 ppm	0.001 ppm	0.001 ppm	0.003 ppm	0.036 ppm	0.051 ppm	0.020 ppm

	Mar 31	Apr 1	Apr 2	Apr 3	Apr 4	Apr 5	Apr 6
Avg.	0 ppm	0 ppm	0.001 ppm	<u>0.008 ppm exceedance</u>	<u>0.008 ppm exceedance</u>	0 ppm	0 ppm
Max.	0 ppm	0 ppm	0.031 ppm	0.048 ppm	0.064 ppm	0 ppm	0.001 ppm

	Apr 7	Apr 8	Apr 9	Apr 10	Apr 11	Apr 12	Apr 13
Avg.	0.002 ppm	0.004 ppm	0.005 ppm	0.001 ppm	0 ppm	0.001 ppm	0.001 ppm
Max.	0.021 ppm	0.037 ppm	0.038 ppm	0.032 ppm	0 ppm	0.006 ppm	0.014 ppm

	Apr 14	Apr 15	Apr 16	Apr 17	Apr 18	Apr 19	Apr 20
Avg.	0 ppm	0 ppm	0.002 ppm	0.004 ppm	0.002 ppm	0 ppm	0.001 ppm
Max.	0 ppm	0.004 ppm	0.022 ppm	0.030 ppm	0.018 ppm	0.003 ppm	0.005 ppm

	Apr 21	Apr 22	Apr 23	Apr 24	Apr 25	Apr 26	Apr 27
Avg.	0 ppm	0.003 ppm	0.005 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Max.	0.002 ppm	0.012 ppm	0.024 ppm	0 ppm	0.001 ppm	0.007 ppm	0 ppm

	Apr 28	Apr 29	Apr 30	May 1	May 2	May 3	May 4
Avg.	0 ppm	0 ppm	0 ppm	0.001 ppm	0.001 ppm	0.003 ppm	0 ppm
Max.	0.01 ppm	0.006 ppm	0 ppm	0.01 ppm	0.009 ppm	0.009 ppm	0.004 ppm

	May 5	May 6	May 7	May 8	May 9	May 10	May 11
Avg.	0 ppm	<u>0.008 ppm exceedance</u>	0.004 ppm	0 ppm	0.002 ppm	0 ppm	0 ppm
Max.	0.004 ppm	0.04 ppm	0.022 ppm	0.002 ppm	0.008 ppm	0.008 ppm	0 ppm

	May 12	May 13	May 14	May 15	May 16	May 17	May 18
Avg.	0 ppm	0 ppm	0.001 ppm	0.004 ppm	0.001 ppm	0.001 ppm	0 ppm
Max.	0 ppm	0.003 ppm	0.016 ppm	0.014 ppm	0.009 ppm	0.007 ppm	0.003 ppm

	May 19	May 20	May 21	May 22	May 23	May 24	May 25
Avg.	0.005 ppm	0.001 ppm	0 ppm	0 ppm	0.001 ppm	0 ppm	0.002 ppm
Max.	0.021 ppm	0.013 ppm	0 ppm	0.005 ppm	0.014 ppm	0.007 ppm	0.008 ppm

	May 26	May 27	May 28	May 29	May 30	May 31	June 1
Avg.	0.003 ppm	0 ppm	0.001 ppm	0 ppm	0 ppm	0.002 ppm	0.004 ppm
Max.	0.018 ppm	0 ppm	0.008 ppm	0.007 ppm	0.004 ppm	0.033 ppm	0.020 ppm

	June 2	June 3	June 4	June 5	June 6	June 7	June 8
Avg.	0.001 ppm	0.001 ppm	0.001 ppm	0.003 ppm	0 ppm	0 ppm	0 ppm
Max.	0.011 ppm	0.020 ppm	0.010 ppm	0.012 ppm	0.001 ppm	0.003 ppm	0 ppm

	June 9	June 10	June 11	June 12	June 13	June 14	June 15
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0.004 ppm
Max.	0 ppm	0.005 ppm	0 ppm	0 ppm	0.003 ppm	0.012 ppm	0.015 ppm

	June 16	June 17	June 18	June 19	June 20	June 21	June 22
Avg.	0.001 ppm	0.003 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0.003 ppm
Max.	0.010 ppm	0.05 ppm	0.001 ppm	0.004 ppm	0.009 ppm	0 ppm	0.015 ppm

	June 23	June 24	June 25	June 26	June 27	June 28	June 29
Avg.	0.001 ppm	0.001 ppm	0.001 ppm	<u>0.007 ppm exceedance</u>	<u>0.007 ppm exceedance</u>	0.001 ppm	0.005 ppm
Max.	0.012 ppm	0.007 ppm	0.012 ppm	0.023 ppm	0.020 ppm	0.009 ppm	0.031 ppm

	June 30	July 1	July 2	July 3	July 4	July 5	July 6
Avg.	0 ppm	0.005 ppm	<u>0.006 ppm exceedance</u>	0.001 ppm	-0.001 ppm	0 ppm	0 ppm
Max.	0.002 ppm	0.026 ppm	0.026 ppm	0.016 ppm	0.001 ppm	0.007 ppm	0.005 ppm

	July 7	July 8	July 9	July 10	July 11	July 12	July 13
Avg.	0 ppm	0 ppm	0 ppm	0.005 ppm	0.002 ppm	0 ppm	<u>0.008 ppm exceedance</u>
Max.	0 ppm	0 ppm	0.003 ppm	0.010 ppm	0.007 ppm	0.004 ppm	0.025 ppm

	July 14	July 15	July 16	July 17	July 18	July 19	July 20
Avg.	0.001 ppm	0.001 ppm	0.002 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Max.	0.015 ppm	0.011 ppm	0.011 ppm	0.005 ppm	0.002 ppm	0.004 ppm	0 ppm

	July 21	July 22	July 23	July 24	July 25	July 26	July 27
Avg.	0 ppm	0 ppm	0.001 ppm	0.003 ppm	<u>0.006 ppm exceedance</u>	0.004 ppm	0.005 ppm
Max.	0.005 ppm	0.003 ppm	0.003 ppm	0.015 ppm	0.032 ppm	0.028 ppm	0.015 ppm

	July 28	July 29	July 30	July 31	Aug 1	Aug 2	Aug 3
Avg.	0.004 ppm	<u>0.006 ppm exceedance</u>	0.002 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0.003 ppm
Max.	0.013 ppm	0.017 ppm	0.008 ppm	0.005 ppm	0.008 ppm	0.007 ppm	0.012 ppm

	Aug 4	Aug 5	Aug 6	Aug 7	Aug 8	Aug 9	Aug 10
Avg.	0.001 ppm	0.002 ppm	0.003 ppm	0 ppm	0.001 ppm	0.001 ppm	0.003 ppm
Max.	0.005 ppm	0.008 ppm	0.013 ppm	0.004 ppm	0.006 ppm	0.017 ppm	0.020 ppm

	Aug 11	Aug 12	Aug 13	Aug 14	Aug 15	Aug 16	Aug 17
Avg.	0.005 ppm	0.002 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0.001 ppm
Max.	0.022 ppm	0.008 ppm	0.002 ppm	0 ppm	0.004 ppm	0.009 ppm	0.005 ppm

	Aug 18	Aug 19	Aug 20	Aug 21	Aug 22	Aug 23	Aug 24
Avg.	0.001 ppm	0 ppm	0.001 ppm	0.001 ppm	0.001 ppm	0 ppm	0 ppm
Max.	0.005 ppm	0.005 ppm	0.006 ppm	0.007 ppm	0.006 ppm	0 ppm	0 ppm

	Aug 25	Aug 26	Aug 27	Aug 28	Aug 29	Aug 30	Aug 31
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0.004 ppm	0.002 ppm	0 ppm
Max.	0 ppm	0 ppm	0.002 ppm	0.002 ppm	0.016 ppm	0.010 ppm	0 ppm

	Sep 1	Sep 2	Sep 3	Sep 4	Sep 5	Sep 6	Sep 7
Avg.	0 ppm	0 ppm	0.004 ppm	0.002 ppm	0 ppm	0 ppm	0 ppm
Max.	0 ppm	0.005 ppm	0.011 ppm	0.009 ppm	0.006 ppm	0.006 ppm	0.002 ppm

	Sep 8	Sep 9	Sep 10	Sep 11	Sep 12	Sep 13	Sep 14
Avg.	0.003 ppm	0 ppm	0.002 ppm	0.005 ppm	0 ppm	0 ppm	0.001 ppm
Max.	0.016 ppm	0.001 ppm	0.013 ppm	0.019 ppm	0.008 ppm	0.001 ppm	0.014 ppm

	Sep 15	Sep 16	Sep 17	Sep 18	Sep 19	Sep 20	Sep 21
Avg.	0.005 ppm	0.001 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0.002 ppm
Max.	0.019 ppm	0.008 ppm	0.001 ppm	0 ppm	0 ppm	0.005 ppm	0.012 ppm

	Sep 22	Sep 23	Sep 24	Sep 25	Sep 26	Sep 27	Sep 28
Avg.	0.005 ppm	0.003 ppm	0.002 ppm	<u>0.007 ppm exceedance</u>	0.002 ppm	0.003 ppm	0.004 ppm
Max.	0.019 ppm	0.014 ppm	0.018 ppm	0.017 ppm	0.009 ppm	0.018 ppm	0.018 ppm

	Sep 29	Sep 30	Oct 1	Oct 2	Oct 3	Oct 4	Oct 5
Avg.	0 ppm	0 ppm	0.005 ppm	0.005 ppm	0 ppm	0 ppm	0 ppm
Max.	0.004 ppm	0.004 ppm	0.020 ppm	0.020 ppm	0.003 ppm	0 ppm	0 ppm

	Oct 6	Oct 7	Oct 8	Oct 9	Oct 10	Oct 11	Oct 12
Avg.	0.002 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Max.	0.008 ppm	0 ppm	0.007 ppm	0 ppm	0 ppm	0 ppm	0.010 ppm

	Oct 13	Oct 14	Oct 15	Oct 16	Oct 17	Oct 18	Oct 19
Avg.	0.002 ppm	<u>0.007 ppm exceedance</u>	0 ppm	0.001 ppm	0 ppm	0 ppm	0.002 ppm
Max.	0.009 ppm	0.042 ppm	0.003 ppm	0.008 ppm	0 ppm	0 ppm	0.023 ppm

	Oct 20	Oct 21	Oct 22	Oct 23	Oct 24	Oct 25	Oct 26
Avg.	0.002 ppm	0 ppm	0.001 ppm	0.003 ppm	<u>0.007 ppm exceedance</u>	<u>0.010 ppm exceedance</u>	0 ppm
Max.	0.029 ppm	0.005 ppm	0.004 ppm	0.020 ppm	0.025 ppm	0.046 ppm	0.003 ppm

	Oct 27	Oct 28	Oct 29	Oct 30	Oct 31	Nov 1	Nov 2
Avg.	0 ppm	0.004 ppm	0.002 ppm	0 ppm	0 ppm	0.002 ppm	0.002 ppm
Max.	0.004 ppm	0.022 ppm	0.022 ppm	0.001 ppm	0.005 ppm	0.019 ppm	0.011 ppm

	Nov 3	Nov 4	Nov 5	Nov 6	Nov 7	Nov 8	Nov 9
Avg.	0.001 ppm	0.004 ppm	0.001 ppm	0.001 ppm	0 ppm	0 ppm	0.001 ppm
Max.	0.022 ppm	0.021 ppm	0.010 ppm	0.006 ppm	0.009 ppm	0.003 ppm	0.004 ppm

	Nov 10	Nov 11	Nov 12	Nov 13	Nov 14	Nov 15	Nov 16
Avg.	0.002 ppm	0.001 ppm	0 ppm	0 ppm	1 ppm	0.005 ppm	0 ppm
Max.	0.009 ppm	0.007 ppm	0 ppm	0.002 ppm	0.017 ppm	0.021 ppm	0.003 ppm

	Nov 17	Nov 18	Nov 19	Nov 20	Nov 21	Nov 22	Nov 23
Avg.	0 ppm	0.002 ppm	0.002 ppm	0 ppm	0.004 ppm	0 ppm	0 ppm
Max.	0 ppm	0.018 ppm	0.015 ppm	0.004 ppm	0.025 ppm	0 ppm	0.004 ppm

	Nov 24	Nov 25	Nov 26	Nov 27	Nov 28	Nov 29	Nov 30
Avg.	0 ppm	0.004 ppm	0.004 ppm	0.004 ppm	0 ppm	0 ppm	0 ppm
Max.	0.007 ppm	0.009 ppm	0.014 ppm	0.044 ppm	0 ppm	0 ppm	0 ppm

	Dec 1	Dec 2	Dec 3	Dec 4	Dec 5	Dec 6	Dec 7
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0.004 ppm	0 ppm
Max.	0 ppm	0 ppm	0.002 ppm	0.004 ppm	0.010 ppm	0.014 ppm	0.008 ppm

	Dec 8	Dec 9	Dec 10	Dec 11	Dec 12	Dec 13	Dec 14
Avg.	0.001 ppm	0.001 ppm	0 ppm	0 ppm	0 ppm	0 ppm	0 ppm
Max.	0.007 ppm	0.009 ppm	0 ppm	0 ppm	0.003 ppm	0 ppm	0.003 ppm

	Dec 15	Dec 16	Dec 17	Dec 18	Dec 19	Dec 20	Dec 21
Avg.	0 ppm	0 ppm	0 ppm	0 ppm	0.001 ppm	0.005 ppm	<u>0.006 ppm exceedance</u>
Max.	0 ppm	0 ppm	0.003 ppm	0 ppm	0.008 ppm	0.028 ppm	0.036 ppm

	Dec 22	Dec 23	Dec 24	Dec 25	Dec 26	Dec 27	Dec 28
Avg	<u>0.009</u> ppm <u>exceed- ance</u>	<u>0.013</u> ppm <u>exceed- ance</u>	<u>0.011</u> ppm <u>exceed- ance</u>	<u>0.009</u> ppm <u>exceed- ance</u>	<u>0.011</u> ppm <u>exceed- ance</u>	<u>0.006</u> ppm <u>exceed- ance</u>	0.001 ppm
Max.	0.019 ppm	0.034 ppm	0.033 ppm	0.044 ppm	0.036 ppm	0.030 ppm	0.014 ppm

	Dec 29	Dec 30	Dec 31	Jan 1	Jan 2	Jan 3	Jan 4
Avg.	0.001 ppm	0 ppm	0 ppm	0.001 ppm	0.005 ppm	0.001 ppm	0 ppm
Max.	0.008 ppm	0.002 ppm	0.005 ppm	0.010 ppm	0.010 ppm	0.008 ppm	0 ppm

	Jan 5	Jan 6	Jan 7	Jan 8	Jan 9	Jan 10	Jan 11
Avg.	0 ppm	0 ppm	0.003 ppm	0 ppm	0 ppm	0.002 ppm	0.001 ppm
Max.	0.005 ppm	0.003 ppm	0.009 ppm	0 ppm	0 ppm	0.007 ppm	0.007 ppm

	Jan 12	Jan 13	Jan 14	Jan 15	Jan 16	Jan 17	Jan 18
Avg.	0 ppm	0.003 ppm	0.001 ppm	0.001 ppm	0 ppm	0 ppm	0.001 ppm
Max.	0.004 ppm	0.022 ppm	0.011 ppm	0.012 ppm	0 ppm	0.001 ppm	0.008 ppm

	Jan 19	Jan 20	Jan 21	Jan 22	Jan 23	Jan 24	Jan 25
Avg.	0 ppm	0 ppm	0.001 ppm	0.002 ppm	0.003 ppm	0 ppm	0 ppm
Max.	0 ppm	0 ppm	0.008 ppm	0.006 ppm	0.020 ppm	0.001 ppm	0.002 ppm

	Jan 26	Jan 27	Jan 28	Jan 29	Jan 30	Jan 31	Feb 1
Avg.	0 ppm						
Max.	0.001 ppm						