## Air Monitoring Summary Tables

The table below summarize monitoring data collected on using EPA’s Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

The monitoring station at Bridgemill did not collect data from 3:05 to 11:21 due to equipment outages

**From:** 6/1/21 **To:** 6/1/21
**12:01 AM to 11:59 PM**

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>54308</td>
<td>29356</td>
<td>0 - 60 ppb</td>
<td>5.75 ppb</td>
<td>70 ppb</td>
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### River Chase

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>54232</td>
<td>22110</td>
<td>0 - 6 ppb</td>
<td>0.9 ppb</td>
<td>70 ppb</td>
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</table>

### Millstone Creek

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>52116</td>
<td>27606</td>
<td>0 - 52 ppb</td>
<td>2.54 ppb</td>
<td>70 ppb</td>
</tr>
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### Sun City

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 4</td>
<td>H2S</td>
<td>No</td>
<td>53806</td>
<td>29584</td>
<td>0 - 26 ppb</td>
<td>2.49 ppb</td>
<td>70 ppb</td>
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### Bridgemill

<table>
<thead>
<tr>
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<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 5</td>
<td>H2S</td>
<td>No</td>
<td>34422</td>
<td>3684</td>
<td>0 - 5 ppb</td>
<td>0.3 ppb</td>
<td>70 ppb</td>
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### Tom Steven Rd

<table>
<thead>
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<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
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<td>SPM Flex 6</td>
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<td>47214</td>
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### Sturgis Rd

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
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<td>SPM Flex 7</td>
<td>H2S</td>
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<td>52864</td>
<td>12756</td>
<td>0 - 27 ppb</td>
<td>2.87 ppb</td>
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### Marvin

<table>
<thead>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
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<td>SPM Flex 8</td>
<td>H2S</td>
<td>No</td>
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<td>10962</td>
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<td>70 ppb</td>
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### Treetop

<table>
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<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
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<td>SPM Flex 9</td>
<td>H2S</td>
<td>No</td>
<td>54450</td>
<td>21646</td>
<td>0 - 11 ppb</td>
<td>1.01 ppb</td>
<td>70 ppb</td>
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### Liberty Hill

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>Action Level Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>Action Level</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 10</td>
<td>H2S</td>
<td>No</td>
<td>52526</td>
<td>12664</td>
<td>0 - 17 ppb</td>
<td>1.43 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
- **MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
H$_2$S in South and North Carolina

Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were mostly calm or lite variable winds out of the west. See wind rose diagram on location figure for full wind data during this reporting period.

All locations detected hydrogen sulfide above 1 part per billion for this reporting period.

Notes:

H$_2$S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 1, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Sun City June 1, 2021

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$H_2S$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.  

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/2/21 12:01 AM  
**To:** 6/2/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>54316</td>
<td>24482</td>
<td>0 - 11 ppb</td>
<td>1.64 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

| River Chase | | | | | | | |
| SPM Flex 2 | H2S | No | 54160 | 0 | 0 - 0 ppb | 0 ppb | 70 ppb |

| Millstone Creek | | | | | | | |
| SPM Flex 3 | H2S | No | 52056 | 0 | 0 - 0 ppb | 0 ppb | 70 ppb |

| Sun City | | | | | | | |
| SPM Flex 4 | H2S | No | 53754 | 3848 | 0 - 4 ppb | 0.13 ppb | 70 ppb |

| Bridgemill | | | | | | | |
| SPM Flex 5 | H2S | No | 52128 | 10342 | 0 - 6 ppb | 0.4 ppb | 70 ppb |

| Tom Steven Rd | | | | | | | |
| SPM Flex 6 | H2S | No | 34600 | 17345 | 0 - 6 ppb | 1.37 ppb | 70 ppb |

| Sturgis Rd | | | | | | | |
| SPM Flex 7 | H2S | No | 52908 | 17852 | 0 - 5 ppb | 0.83 ppb | 70 ppb |

| Marvin | | | | | | | |
| SPM Flex 8 | H2S | No | 53484 | 0 | 0 - 0 ppb | 0 ppb | 70 ppb |

| Treetop | | | | | | | |
| SPM Flex 9 | H2S | No | 54230 | 112 | 0 - 1 ppb | 0 ppb | 70 ppb |

| Liberty Hill | | | | | | | |
| SPM Flex 10 | H2S | No | 45150 | 4700 | 0 - 17 ppb | 0.85 ppb | 70 ppb |

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

1 The monitoring station at Tom Steven Rd experienced intermittent outages between 13:38 and 14:27 and was offline and did not collect data from 15:16 to 23:59.

2 The monitoring station at Liberty Hill experienced intermittent outages between 3:56 to 9:28.

ATSDR MRL  
Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

H$_2$S  
Hydrogen Sulfide

hr  
Hour

ppb  
Parts per billion

MRL Exceedance  
Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

SPM  
Single Point Monitor

TWA  
Time Weighted Average
H₂S in South and North Carolina

Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The monitoring stations at Tom Steven Rd and Liberty Hill experienced intermittent outages during this reporting period and are not graphed below.

The prevailing wind directions for this reporting period were mostly calm or lite variable winds out of the west-southwest with smaller percentages out of the north, southwest, south-southwest, south, and southeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: River Chase, Millstone Creek, and Marvin.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Sun City June 2, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

\( \text{H}_2\text{S} \) – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
\text{ppb} – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.  

**Project Name:** H₂S in South and North Carolina

From: 6/3/21  12:01 AM  
To: 6/3/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>54218</td>
<td>22724</td>
<td>0 - 16 ppb</td>
<td>1.96 ppb</td>
</tr>
<tr>
<td>River Chase</td>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>53678</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Millstone Creek</td>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>52068</td>
<td>2018</td>
<td>0 - 6 ppb</td>
<td>0.1 ppb</td>
</tr>
<tr>
<td>Sun City</td>
<td>SPM Flex 4</td>
<td>H₂S</td>
<td>No</td>
<td>53788</td>
<td>11018</td>
<td>0 - 10 ppb</td>
<td>0.69 ppb</td>
</tr>
<tr>
<td>Bridgemill</td>
<td>SPM Flex 5</td>
<td>H₂S</td>
<td>No</td>
<td>52280</td>
<td>3968</td>
<td>0 - 5 ppb</td>
<td>0.16 ppb</td>
</tr>
<tr>
<td>Tom Steven Rd²</td>
<td>SPM Flex 6</td>
<td>H₂S</td>
<td>No</td>
<td>27251</td>
<td>6336</td>
<td>0 - 15 ppb</td>
<td>1.19 ppb</td>
</tr>
<tr>
<td>Sturgis Rd</td>
<td>SPM Flex 7</td>
<td>H₂S</td>
<td>No</td>
<td>53022</td>
<td>14706</td>
<td>0 - 11 ppb</td>
<td>0.92 ppb</td>
</tr>
<tr>
<td>Marvin</td>
<td>SPM Flex 8</td>
<td>H₂S</td>
<td>No</td>
<td>53600</td>
<td>5840</td>
<td>0 - 7 ppb</td>
<td>0.3 ppb</td>
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<tr>
<td>Treetop</td>
<td>SPM Flex 9</td>
<td>H₂S</td>
<td>No</td>
<td>54470</td>
<td>4066</td>
<td>0 - 6 ppb</td>
<td>0.2 ppb</td>
</tr>
<tr>
<td>Liberty Hill</td>
<td>SPM Flex 10</td>
<td>H₂S</td>
<td>No</td>
<td>52550</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
</tbody>
</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

¹ The monitoring station at Tom Steven Rd was offline and did not collect data from midnight to 9:32 AM and from 11:17 AM to 12:32 PM.

<table>
<thead>
<tr>
<th>ATSDR MRL</th>
<th>Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (&lt;14 days)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂S</td>
<td>Hydrogen Sulfide</td>
</tr>
<tr>
<td>hr</td>
<td>Hour</td>
</tr>
<tr>
<td>ppb</td>
<td>Parts per billion</td>
</tr>
<tr>
<td>MRL Exceedance</td>
<td>Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report</td>
</tr>
<tr>
<td>SPM</td>
<td>Single Point Monitor</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
</tbody>
</table>
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The monitoring station at Tom Steven Rd was not graphed due to inaccurate TWA’s caused by intermittent outages during this reporting period.

The prevailing wind directions for this reporting period were out of the south-southwest with a smaller percentage out of the southwest, south, and south-southeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: River Chase and Liberty Hill.

![Graph of H₂S concentration over time](image)

Notes:

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Millstone Creek June 3, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Sun City June 3, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/6/21 12:01 AM  
**To:** 6/6/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPM Flex 1</td>
<td>H$_2$S</td>
<td>No</td>
<td>54232</td>
<td>3502</td>
<td>0 - 11 ppb</td>
<td>0.32 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>River Chase</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPM Flex 2</td>
<td>H$_2$S</td>
<td>No</td>
<td>53718</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Millstone Creek</td>
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<td>52152</td>
<td>340</td>
<td>0 - 3 ppb</td>
<td>0.01 ppb</td>
<td>70 ppb</td>
</tr>
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<tr>
<td>SPM Flex 4</td>
<td>H$_2$S</td>
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<td>53858</td>
<td>20826</td>
<td>0 - 10 ppb</td>
<td>1.1 ppb</td>
<td>70 ppb</td>
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<tr>
<td>Bridgemill</td>
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<tr>
<td>SPM Flex 5</td>
<td>H$_2$S</td>
<td>No</td>
<td>52344</td>
<td>6618</td>
<td>0 - 2 ppb</td>
<td>0.16 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Tom Steven Rd</td>
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</tr>
<tr>
<td>SPM Flex 6</td>
<td>H$_2$S</td>
<td>No</td>
<td>52032</td>
<td>19456</td>
<td>0 - 21 ppb</td>
<td>2.23 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Sturgis Rd</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>SPM Flex 7</td>
<td>H$_2$S</td>
<td>No</td>
<td>53090</td>
<td>2404</td>
<td>0 - 7 ppb</td>
<td>0.2 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Marvin</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>SPM Flex 8</td>
<td>H$_2$S</td>
<td>No</td>
<td>53626</td>
<td>3528</td>
<td>0 - 1 ppb</td>
<td>0.07 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Treetop</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPM Flex 9</td>
<td>H$_2$S</td>
<td>No</td>
<td>54662</td>
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</tr>
<tr>
<td>Liberty Hill</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<tr>
<td>SPM Flex 10</td>
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<td>No</td>
<td>52870</td>
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<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
- **MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the southwest and south-southwest with smaller percentages out of the east, east-southeast, and south. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: River Chase and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 6, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₃S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
Notes:

- $\text{H}_2\text{S}$ – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Air Monitoring Summary Tables
The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

From: 6/7/21 To: 6/7/21
12:01 AM to 11:59 PM

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>54204</td>
<td>10082</td>
<td>0 - 13 ppb</td>
<td>0.82 ppb</td>
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</tr>
<tr>
<td>River Chase</td>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>53686</td>
<td>126</td>
<td>0 - 1 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Millstone Creek</td>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>52104</td>
<td>962</td>
<td>0 - 3 ppb</td>
<td>0.03 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Sun City</td>
<td>SPM Flex 4</td>
<td>H2S</td>
<td>No</td>
<td>53842</td>
<td>23396</td>
<td>0 - 13 ppb</td>
<td>1.4 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Bridgemill</td>
<td>SPM Flex 5</td>
<td>H2S</td>
<td>No</td>
<td>52324</td>
<td>10204</td>
<td>0 - 6 ppb</td>
<td>0.33 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Tom Steven Rd</td>
<td>SPM Flex 6</td>
<td>H2S</td>
<td>No</td>
<td>51941</td>
<td>20706</td>
<td>0 - 24 ppb</td>
<td>1.94 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Sturgis Rd</td>
<td>SPM Flex 7</td>
<td>H2S</td>
<td>No</td>
<td>52960</td>
<td>8942</td>
<td>0 - 12 ppb</td>
<td>0.57 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Marvin</td>
<td>SPM Flex 8</td>
<td>H2S</td>
<td>No</td>
<td>53606</td>
<td>4900</td>
<td>0 - 3 ppb</td>
<td>0.16 ppb</td>
<td>70 ppb</td>
</tr>
<tr>
<td>Treetop</td>
<td>SPM Flex 9</td>
<td>H2S</td>
<td>No</td>
<td>54358</td>
<td>0</td>
<td>0 - 0 ppb</td>
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<td>70 ppb</td>
</tr>
<tr>
<td>Liberty Hill</td>
<td>SPM Flex 10</td>
<td>H2S</td>
<td>No</td>
<td>52796</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
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- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest with smaller percentages out of the southwest and south. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: Treetop and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
River Chase June 7, 2021

Notes:

H₂S – Hydrogen Sulfide
MiN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 7, 2021

Notes:

\( \text{H}_2\text{S} \) – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Sun City June 7, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$\mathrm{H}_2\mathrm{S}$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Marvin June 7, 2021

Notes:

$H_2S$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/8/21 12:01 AM  
**To:** 6/8/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>54120</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>River Chase</td>
<td>SPM Flex 2</td>
<td>H₂S</td>
<td>No</td>
<td>53520</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Millstone Creek</td>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>52080</td>
<td>2024</td>
<td>0 - 2 ppb</td>
<td>0.06 ppb</td>
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<tr>
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<td>H₂S</td>
<td>No</td>
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<td>SPM Flex 5</td>
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<td>52308</td>
<td>4378</td>
<td>0 - 2 ppb</td>
<td>0.11 ppb</td>
</tr>
<tr>
<td>Tom Steven Rd</td>
<td>SPM Flex 6</td>
<td>H₂S</td>
<td>No</td>
<td>51240</td>
<td>3838</td>
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<td>0.21 ppb</td>
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<td>Sturgis Rd</td>
<td>SPM Flex 7</td>
<td>H₂S</td>
<td>No</td>
<td>52946</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Marvin</td>
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<td>H₂S</td>
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<td>53622</td>
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<td>Treetop</td>
<td>SPM Flex 9</td>
<td>H₂S</td>
<td>No</td>
<td>54460</td>
<td>3456</td>
<td>0 - 2 ppb</td>
<td>0.07 ppb</td>
</tr>
<tr>
<td>Liberty Hill</td>
<td>SPM Flex 10</td>
<td>H₂S</td>
<td>No</td>
<td>52087</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

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- ATSDR MRL: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
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- hr: Hour
- ppb: Parts per billion
- MRL Exceedance: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM: Single Point Monitor
- TWA: Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest with smaller percentages out of the southwest and south. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, River Chase, Sturgis Rd, and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- $\text{H}_2\text{S}$ – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/9/21
**To:** 6/9/21
**12:01 AM**

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>54182</td>
<td>180</td>
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### River Chase

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
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### Millstone Creek

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 3</td>
<td>H₂S</td>
<td>No</td>
<td>52046</td>
<td>6842</td>
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<td>0.2 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

### Sun City

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
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<tbody>
<tr>
<td>SPM Flex 4</td>
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### Bridgemill

<table>
<thead>
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<th>Instrument</th>
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<td>SPM Flex 5</td>
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### Tom Steven Rd

<table>
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<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 6</td>
<td>H₂S</td>
<td>No</td>
<td>54626</td>
<td>3122</td>
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<td>70 ppb</td>
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### Sturgis Rd

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 7</td>
<td>H₂S</td>
<td>No</td>
<td>53046</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</table>

### Marvin

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 8</td>
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<td>53498</td>
<td>13558</td>
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<td>0.87 ppb</td>
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### Treetop

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 9</td>
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<td>No</td>
<td>54452</td>
<td>8274</td>
<td>0 - 4 ppb</td>
<td>0.31 ppb</td>
<td>70 ppb</td>
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</table>

### Liberty Hill

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 10</td>
<td>H₂S</td>
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<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL**  Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S**  Hydrogen Sulfide
- **hr**  Hour
- **ppb**  Parts per billion
- **MRL Exceedance**  Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM**  Single Point Monitor
- **TWA**  Time Weighted Average
H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the west-southwest and south-southwest with a smaller percentage out of the southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: River Chase, Sturgis Rd, and Liberty Hill.

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Sun City June 9, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables
The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H\textsubscript{2}S in South and North Carolina

**From:** 6/10/21 12:01 AM  
**To:** 6/10/21 11:59 PM

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
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### River Chase

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### Millstone Creek

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### Sun City

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### Bridgemill

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### Marvin

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<th>Number of Detections</th>
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### Treetop

<table>
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### Liberty Hill

<table>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<tbody>
<tr>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H\textsubscript{2}S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
- **MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
**H₂S in South and North Carolina**

Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the southwest and south-southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, River Chase, Sturgis Rd, and Liberty Hill.

---

**Notes:**

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
- **TWA** – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H2S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Tom Steven Rd June 10, 2021

Notes:

H\textsubscript{2}S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables
The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>H₂S in South and North Carolina</th>
</tr>
</thead>
<tbody>
<tr>
<td>From:</td>
<td>6/11/21</td>
</tr>
<tr>
<td>To:</td>
<td>6/11/21</td>
</tr>
<tr>
<td>12:01 AM</td>
<td>11:59 PM</td>
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</table>

<table>
<thead>
<tr>
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<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>H₂S</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
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<tr>
<td>River Chase</td>
<td>H₂S</td>
<td>No</td>
<td>26878</td>
<td>8934</td>
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<td>Millstone Creek</td>
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<td>25595</td>
<td>12212</td>
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<td>0.81 ppb</td>
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<td>Sun City</td>
<td>H₂S</td>
<td>No</td>
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<td>2866</td>
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<td>70 ppb</td>
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<tr>
<td>Bridgemill</td>
<td>H₂S</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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<tr>
<td>Tom Steven Rd</td>
<td>H₂S</td>
<td>No</td>
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<td>10083</td>
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<td>Sturgis Rd</td>
<td>H₂S</td>
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<td>26535</td>
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<td>Marvin</td>
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<td>Liberty Hill</td>
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</tbody>
</table>

Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

ATSDR MRL  Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
H₂S  Hydrogen Sulfide
hr  Hour
ppb  Parts per billion
MRL Exceedance  Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
SPM  Single Point Monitor
TWA  Time Weighted Average
**H₂S in South and North Carolina**

**Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs**

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the west-southwest and southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, Bridgemill, Sturgis Rd, and Liberty Hill.

---

**Notes:**

H₂S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
Notes:

\( \text{H}_2\text{S} \) – Hydrogen Sulfide
\( \text{MIN} \) – Minute
\( \text{MRL} \) – Minimal Risk Level
\( \text{ppb} \) – Parts per billion
\( \text{TWA} \) – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Marvin June 11, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
### Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H<sub>2</sub>S in South and North Carolina

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<thead>
<tr>
<th>From: 6/12/21 12:01 AM</th>
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#### William-Lytle Place

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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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#### River Chase

<table>
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#### Millstone Creek

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#### Sun City

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#### Bridgemill

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#### Tom Steven Rd

<table>
<thead>
<tr>
<th>Instrument</th>
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#### Sturgis Rd

<table>
<thead>
<tr>
<th>Instrument</th>
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#### Marvin

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<td>0 ppb</td>
<td>70 ppb</td>
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#### Treetop

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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#### Liberty Hill

<table>
<thead>
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<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

**Notes:**

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**ATSDR MRL**
Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H<sub>2</sub>S**
Hydrogen Sulfide

**hr**
Hour

**ppb**
Parts per billion

**MRL Exceedance**
Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

**SPM**
Single Point Monitor

**TWA**
Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the north-northeast and north with a smaller percentage out of the north-northwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, Bridgemill, Tom Steven Rd, Sturgis Rd, Marvin, and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

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H₂S – Hydrogen Sulfide
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Notes:

\( \text{H}_2\text{S} \) – Hydrogen Sulfide
MIN – Minute
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TWA – Time weighted average
# Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/13/21 12:01 AM  
**To:** 6/13/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
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<td>H₂S</td>
<td>No</td>
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**Notes:**

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**ATSDR MRL**  
Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H₂S**  
Hydrogen Sulfide

**hr**  
Hour

**ppb**  
Parts per billion

**MRL Exceedance**  
Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

**SPM**  
Single Point Monitor

**TWA**  
Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

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The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, Millstone Creek, Bridgemill, Tom Steven Rd, Sturgis Rd, Marvin, and Treetop.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
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**Project Name:** H₂S in South and North Carolina

**From:** 6/14/21 12:01 AM  
**To:** 6/14/21 11:59 PM

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<th>Concentration Range</th>
<th>Period Average</th>
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### Sun City

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### Treetop

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### Liberty Hill

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<th>Number of Readings</th>
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<td>70 ppb</td>
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### Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S**: Hydrogen Sulfide
- **hr**: Hour
- **ppb**: Parts per billion
- **MRL Exceedance**: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM**: Single Point Monitor
- **TWA**: Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the southwest with smaller percentages out of the west, west-northwest, west-southwest, south-southwest, north, and south. See wind rose diagram on location figure for full wind data during this reporting period.

All locations detected hydrogen sulfide above 1 part per billion for this reporting period.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MiN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 14, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$\text{H}_2\text{S}$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$H_2S$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

From: 6/15/21  To: 6/15/21
12:01 AM  To: 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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**ATSDR MRL**  Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

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**hr** Hour

**ppb** Parts per billion

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**SPM** Single Point Monitor

**TWA** Time Weighted Average
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The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, Sturgis Rd, and Liberty Hill.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

\( H_2S \) – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$H_2S$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
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**To:** 6/16/21 11:59 PM

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<thead>
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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Liberty Hill</td>
<td>SPM Flex 10</td>
<td>H₂S</td>
<td>No</td>
<td>27536</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
</tbody>
</table>

Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S**: Hydrogen Sulfide
- **hr**: Hour
- **ppb**: Parts per billion
- **MRL Exceedance**: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM**: Single Point Monitor
- **TWA**: Time Weighted Average
Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the north and north-northeast with smaller percentages out of the northeast and northwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William-Lytle Place, Millstone Creek, Bridgemill, Tom Steven Rd, Sturgis Rd, Marvin, Treetop and Liberty Hill.

Notes:

- H$_2$S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables
The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/17/21 12:01 AM  **To:** 6/17/21 11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>SPM Flex 1</td>
<td>H2S</td>
<td>No</td>
<td>26810</td>
<td>1524</td>
<td>0 - 2 ppb</td>
<td>0.08 ppb</td>
</tr>
<tr>
<td>River Chase</td>
<td>SPM Flex 2</td>
<td>H2S</td>
<td>No</td>
<td>26830</td>
<td>14125</td>
<td>0 - 15 ppb</td>
<td>2.76 ppb</td>
</tr>
<tr>
<td>Millstone Creek</td>
<td>SPM Flex 3</td>
<td>H2S</td>
<td>No</td>
<td>25997</td>
<td>123</td>
<td>0 - 2 ppb</td>
<td>0.01 ppb</td>
</tr>
<tr>
<td>Sun City</td>
<td>SPM Flex 4</td>
<td>H2S</td>
<td>No</td>
<td>26962</td>
<td>2741</td>
<td>0 - 6 ppb</td>
<td>0.21 ppb</td>
</tr>
<tr>
<td>Bridgemill</td>
<td>SPM Flex 5</td>
<td>H2S</td>
<td>No</td>
<td>27543</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Tom Steven Rd</td>
<td>SPM Flex 6</td>
<td>H2S</td>
<td>No</td>
<td>27242</td>
<td>186</td>
<td>0 - 1 ppb</td>
<td>0.01 ppb</td>
</tr>
<tr>
<td>Sturgis Rd</td>
<td>SPM Flex 7</td>
<td>H2S</td>
<td>No</td>
<td>26574</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Marvin</td>
<td>SPM Flex 8</td>
<td>H2S</td>
<td>No</td>
<td>26799</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
</tr>
<tr>
<td>Treetop</td>
<td>SPM Flex 9</td>
<td>H2S</td>
<td>No</td>
<td>27270</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
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<tr>
<td>Liberty Hill</td>
<td>SPM Flex 10</td>
<td>H2S</td>
<td>No</td>
<td>27541</td>
<td>538</td>
<td>0 - 1 ppb</td>
<td>0.02 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** - Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S** - Hydrogen Sulfide
- **hr** - Hour
- **ppb** - Parts per billion
- **MRL Exceedance** - Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** - Single Point Monitor
- **TWA** - Time Weighted Average


**H₂S in South and North Carolina**

Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the north and north-northeast with smaller percentages out of the north-northwest and northeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: Bridgemill, Sturgis Rd, Marvin, and Treetop.

---

Notes:

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
- **TWA** – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 17, 2021

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

**H₂S** – Hydrogen Sulfide

**MIN** – Minute

**MRL** – Minimal Risk Level

**ppb** – Parts per billion

**TWA** – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
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Notes:

H₂S – Hydrogen Sulfide
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TWA – Time weighted average
## Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H\textsubscript{2}S in South and North Carolina

<table>
<thead>
<tr>
<th>From:</th>
<th>To:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6/18/21</td>
<td>6/19/21</td>
</tr>
<tr>
<td>12:01 AM</td>
<td>12:01 AM</td>
</tr>
</tbody>
</table>

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>12257</td>
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### River Chase

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 2</td>
<td>H\textsubscript{2}S</td>
<td>No</td>
<td>26913</td>
<td>1372</td>
<td>0 - 3 ppb</td>
<td>0.08 ppb</td>
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### Millstone Creek

<table>
<thead>
<tr>
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<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>ATSDR MRL</th>
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<tbody>
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<td>26042</td>
<td>95</td>
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<td>0.01 ppb</td>
<td>70 ppb</td>
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### Sun City

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</thead>
<tbody>
<tr>
<td>SPM Flex 4</td>
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<td>15182</td>
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### Bridgemill

<table>
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<tbody>
<tr>
<td>SPM Flex 5</td>
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<td>No</td>
<td>27566</td>
<td>8522</td>
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### Tom Steven Rd

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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
<td>SPM Flex 6</td>
<td>H\textsubscript{2}S</td>
<td>No</td>
<td>12673</td>
<td>12066</td>
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### Sturgis Rd

<table>
<thead>
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<th>Instrument</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
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<tr>
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<td>No</td>
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<td>8821</td>
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### Marvin

<table>
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<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>379</td>
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<td>0.01 ppb</td>
<td>70 ppb</td>
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### Treetop

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 9</td>
<td>H\textsubscript{2}S</td>
<td>No</td>
<td>27278</td>
<td>1466</td>
<td>0 - 2 ppb</td>
<td>0.06 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

### Liberty Hill

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 10</td>
<td>H\textsubscript{2}S</td>
<td>No</td>
<td>27554</td>
<td>9243</td>
<td>0 - 16 ppb</td>
<td>1.83 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL:** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H\textsubscript{2}S:** Hydrogen Sulfide
- **hr:** Hour
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H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest and west with smaller percentages out of the south and southwest. See wind rose diagram on location figure for full wind data during this reporting period.

All locations detected hydrogen sulfide above 1 part per billion during this reporting period.

Notes:

H$_2$S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
River Chase June 18, 2021

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 18, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
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MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
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Air Monitoring Summary Tables
The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/19/21 12:01 AM  
**To:** 6/20/21 12:01 AM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPM Flex 1</td>
<td>H$_2$S</td>
<td>No</td>
<td>26827</td>
<td>0</td>
<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

| River Chase |        |                        |                    |                      |                    |               |          |
| SPM Flex 2  | H$_2$S  | No                     | 26899              | 0                    | 0 - 0 ppb          | 0 ppb         | 70 ppb    |

| Millstone Creek |        |                        |                    |                      |                    |               |          |
| SPM Flex 3    | H$_2$S  | No                     | 26019              | 6472                 | 0 - 9 ppb          | 0.82 ppb      | 70 ppb    |

| Sun City    |        |                        |                    |                      |                    |               |          |
| SPM Flex 4  | H$_2$S  | No                     | 26957              | 4384                 | 0 - 18 ppb         | 1.17 ppb      | 70 ppb    |

| Bridgemill |        |                        |                    |                      |                    |               |          |
| SPM Flex 5  | H$_2$S  | No                     | 27475              | 2818                 | 0 - 4 ppb          | 0.26 ppb      | 70 ppb    |

| Tom Steven Rd |        |                        |                    |                      |                    |               |          |
| SPM Flex 6   | H$_2$S  | No                     | 25519              | 2470                 | 0 - 9 ppb          | 0.25 ppb      | 70 ppb    |

| Sturgis Rd |        |                        |                    |                      |                    |               |          |
| SPM Flex 7  | H$_2$S  | No                     | 26650              | 57                   | 0 - 7 ppb          | 0.01 ppb      | 70 ppb    |

| Marvin |        |                        |                    |                      |                    |               |          |
| SPM Flex 8 | H$_2$S  | No                     | 26671              | 1346                 | 0 - 4 ppb          | 0.11 ppb      | 70 ppb    |

| Treetop |        |                        |                    |                      |                    |               |          |
| SPM Flex 9 | H$_2$S  | No                     | 27241              | 3268                 | 0 - 5 ppb          | 0.23 ppb      | 70 ppb    |

| Liberty Hill |        |                        |                    |                      |                    |               |          |
| SPM Flex 10 | H$_2$S  | No                     | 27566              | 0                    | 0 - 0 ppb          | 0 ppb         | 70 ppb    |

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H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the west-southwest and southwest with smaller percentages out of the west. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: William Lytle, River Chase, and Liberty Hill.

Millstone Creek June 19, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
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H₂S – Hydrogen Sulfide
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ppb – Parts per billion
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Notes:

- **H₂S** – Hydrogen Sulfide
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H₂S – Hydrogen Sulfide
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Air Monitoring Summary Tables
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**Project Name:** H$_2$S in South and North Carolina

**From:** 6/20/21 12:01 AM  
**To:** 6/20/21 11:59 PM

### William-Lytle Place

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM Flex 1</td>
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<td>No</td>
<td>26827</td>
<td>4941</td>
<td>0 - 17 ppb</td>
<td>0.94 ppb</td>
<td>70 ppb</td>
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</table>

### River Chase

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
<tr>
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### Millstone Creek

<table>
<thead>
<tr>
<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<tbody>
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<td>2379</td>
<td>0 - 7 ppb</td>
<td>0.26 ppb</td>
<td>70 ppb</td>
</tr>
</tbody>
</table>

### Sun City

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
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### Bridgemill

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**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL**  
  Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S**  
  Hydrogen Sulfide
- **hr**  
  Hour
- **ppb**  
  Parts per billion
- **MRL Exceedance**  
  Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM**  
  Single Point Monitor
- **TWA**  
  Time Weighted Average
**H₂S in South and North Carolina**

**Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs**

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south, south-southwest, and southwest with smaller percentages out of the south-southeast, west-southwest, and northeast. See wind rose diagram on location figure for full wind data during this reporting period.

All locations detected hydrogen sulfide above 1 part per billion during this reporting period.

---

**Notes:**

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
- **TWA** – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- $H_2S$ – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
**Air Monitoring Summary Tables**

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

*Project Name:*  
H$_2$S in South and North Carolina

*From:* 6/21/21  
*To:* 6/21/21  
12:01 AM to 11:59 PM

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<th>Number of Detections</th>
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</tr>
</tbody>
</table>

**Notes:**

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- **ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S**: Hydrogen Sulfide
- **hr**: Hour
- **ppb**: Parts per billion
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- **TWA**: Time Weighted Average
H₂S in South and North Carolina
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All locations detected hydrogen sulfide above 1 part per billion during this reporting period.

Locations that did not detect hydrogen sulfide above 1 part per billion during this reporting period: William-Lytle Place, River Chase, Sturgis Road, Liberty Hill

Notes:
- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
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Notes:

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Notes:

**H₂S** – Hydrogen Sulfide
**MIN** – Minute
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MRL – Minimal Risk Level
ppb – Parts per billion
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Notes:

$H_2S$ – Hydrogen Sulfide
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MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
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**From:** 6/22/21 12:01 AM **To:** 6/22/21 11:59 PM

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<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: William-Lytle Place, Sun City, Bridgemill, Tom Stevens Road, Sturgis Road, and Marvin.

River Chase June 22, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
Notes:

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
**Notes:**

H₂S – Hydrogen Sulfide  
MIN – Minute  
MRL – Minimal Risk Level  
ppb – Parts per billion  
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

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<th>From:</th>
<th>To:</th>
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<th>Instrument</th>
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<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
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Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

| ATSDR MRL | Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days) |
| H$_2$S     | Hydrogen Sulfide |
| hr         | Hour |
| ppb        | Parts per billion |
| MRL Exceedance | Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report |
| SPM        | Single Point Monitor |
| TWA        | Time Weighted Average |
**H₂S in South and North Carolina**

**Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs**

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the north-northeast and the east-northeast with smaller percentages out of the east-southeast and northeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: William-Lytle Place, Millstone Creek, Sun City, Bridgemill, Tom Stevens Road, Sturgis Road, Marvin and Treetop.

---

**Notes:**

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
## Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/25/21 12:01 AM  
**To:** 6/25/21 11:59 PM

<table>
<thead>
<tr>
<th>Location</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
<tr>
<td>William-Lytle Place</td>
<td>SPM Flex 1</td>
<td>H₂S</td>
<td>No</td>
<td>26728</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
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<tr>
<td>River Chase</td>
<td>SPM Flex 2</td>
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<td>No</td>
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<td>H₂S</td>
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</tr>
<tr>
<td>Sun City</td>
<td>SPM Flex 4</td>
<td>H₂S</td>
<td>No</td>
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<tr>
<td>Bridgemill</td>
<td>SPM Flex 5</td>
<td>H₂S</td>
<td>No</td>
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<tr>
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<td>Treetop</td>
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<td>0.38 ppb</td>
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</tbody>
</table>

**Notes:**

- Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.
- ATSDR MRL: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- H₂S: Hydrogen Sulfide
- hr: Hour
- ppb: Parts per billion
- MRL Exceedance: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- SPM: Single Point Monitor
- TWA: Time Weighted Average
**Air Monitoring Summary Tables**

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

From: 6/24/21 12:01 AM
To: 6/24/21 11:59 PM

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<th>Location</th>
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<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
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<td>SPM Flex 1</td>
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<td>No</td>
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<td>No</td>
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<td>No</td>
<td>25998</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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<td>SPM Flex 4</td>
<td>H2S</td>
<td>No</td>
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<td>Bridgemill</td>
<td>SPM Flex 5</td>
<td>H2S</td>
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</tr>
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<td>Tom Steven Rd</td>
<td>SPM Flex 6</td>
<td>H2S</td>
<td>No</td>
<td>26128</td>
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<td>Sturgis Rd</td>
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<td>H2S</td>
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<td>Marvin</td>
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<td>H2S</td>
<td>No</td>
<td>26789</td>
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<td>No</td>
<td>27217</td>
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<td>Liberty Hill</td>
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<td>No</td>
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</tbody>
</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

**ATSDR MRL**
Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H$_2$S**
Hydrogen Sulfide

**hr**
Hour

**ppb**
Parts per billion

**MRL Exceedance**
Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

**SPM**
Single Point Monitor

**TWA**
Time Weighted Average
H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the east and northeast with smaller percentages out of the north-northeast, east-northeast, and east-southeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: Millstone Creek, Sun City, Bridgemill, Tom Stevens Road, Sturgis Road, Marvin, and Treetop.

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
River Chase June 24, 2021

H2S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Notes:
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
**H₂S in South and North Carolina**

Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing winds for this reporting period were calm or variable winds with some winds out of the north-northeast, east, and east-southeast with smaller percentages out of the northeast and southeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: William Lytle, Sun City, Bridgemill, Tom Stevens Road, Sturgis Road, Marvin, and Treetop.

---

**Notes:**

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
## Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

### Project Name: H₂S in South and North Carolina

| From: | 6/26/21 12:01 AM | To: | 6/26/21 11:59 PM |

### William-Lytle Place

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<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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### River Chase

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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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### Millstone Creek

<table>
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<th>Analyte</th>
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<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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### Sun City

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<th>Instrument</th>
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<td>26949</td>
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### Bridgemill

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<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
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### Tom Steven Rd

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<th>Instrument</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
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### Sturgis Rd

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<th>Number of Detections</th>
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<th>Period Average</th>
<th>ATSDR MRL</th>
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<tbody>
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### Marvin

<table>
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<table>
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<th>Instrument</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
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<th>ATSDR MRL</th>
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### Liberty Hill

<table>
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<th>Number of Readings</th>
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<th>ATSDR MRL</th>
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### Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL**: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S**: Hydrogen Sulfide
- **hr**: Hour
- **ppb**: Parts per billion
- **MRL Exceedance**: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM**: Single Point Monitor
- **TWA**: Time Weighted Average
H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were calm or variable winds, with a smaller percentage of sustained winds out of the south-southeast. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: River Chase, Millstone Creek, Sun City, Bridgemill, Tom Stevens Road, Sturgis Road, Marvin, and Treetop.

Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
Notes:

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
- **TWA** – Time weighted average
### Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/27/21  
12:01 AM  
**To:** 6/27/21  
11:59 PM

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<th>Instrument</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL:** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S:** Hydrogen Sulfide
- **hr:** Hour
- **ppb:** Parts per billion
- **MRL Exceedance:** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM:** Single Point Monitor
- **TWA:** Time Weighted Average
**H₂S in South and North Carolina**

**Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs**

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest with smaller percentages out of the southeast, south-southeast, south, and southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion during this reporting period: Millstone Creek, Bridgemill, Sturgis Road, Marvin, and Treetop.

---

**Notes:**

- **H₂S** – Hydrogen Sulfide
- **MIN** – Minute
- **MRL** – Minimal Risk Level
- **ppb** – Parts per billion
H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

River Chase June 27, 2021
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
Sturgis June 27, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/28/21  12:01 AM  
**To:** 6/28/21  11:59 PM

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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Notes:
Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

ATSDR MRL: Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

H$_2$S: Hydrogen Sulfide

hr: Hour

ppb: Parts per billion

MRL Exceedance: Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

SPM: Single Point Monitor

TWA: Time Weighted Average
H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the southeast with smaller percentages out of the east-northeast, east, and south-southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: Millstone Creek, Bridgemill, Tom Steven Rd, Sturgis Rd, Marvin, and Treetop.

Notes:
- H$_2$S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average

William-Lytle Place June 28, 2021

[Graph showing H$_2$S concentration over time with specific times and concentrations marked]
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

- H₂S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/4/21 12:01 AM **To:** 6/4/21 11:59 PM

<table>
<thead>
<tr>
<th>Location</th>
<th>Instrument</th>
<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
</tr>
</thead>
<tbody>
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<td>William-Lytle Place</td>
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<td>0 - 0 ppb</td>
<td>0 ppb</td>
<td>70 ppb</td>
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</tbody>
</table>

Notes:

- Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H$_2$S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
- **MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
H$_2$S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest with a smaller percentages out of the southwest and west. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: Liberty Hill.

Notes:

- H$_2$S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
**Notes:**

- H$_2$S – Hydrogen Sulfide
- MIN – Minute
- MRL – Minimal Risk Level
- ppb – Parts per billion
- TWA – Time weighted average

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**Graph:**

- **Y-axis:** H$_2$S Concentration (ppb)
- **X-axis:** Times from 6/4/21 12:01 AM to 6/4/21 11:08 PM

- The graph shows the concentration of H$_2$S over the specified period.
- Key indicators include 15MIN H$_2$S TWA, 24HOUR H$_2$S TWA, and H$_2$S MRL (70 ppb).
H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H$_2$S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

$H_2S$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA’s Viper wireless remote monitoring system.

**Project Name:** H₂S in South and North Carolina

**From:** 6/5/21 12:01 AM  
**To:** 6/5/21 11:59 PM

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<th>Analyte</th>
<th>ATSDR MRL Exceedance?</th>
<th>Number of Readings</th>
<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>No</td>
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Notes:

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

- **ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)
- **H₂S** Hydrogen Sulfide
- **hr** Hour
- **ppb** Parts per billion
- **MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report
- **SPM** Single Point Monitor
- **TWA** Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southwest with a smaller percentage out of the southwest. See wind rose diagram on location figure for full wind data during this reporting period.

All locations detected hydrogen sulfide above 1 part per billion for this reporting period.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
River Chase June 5, 2021

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Millstone Creek June 5, 2021

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Notes:
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average

Sun City June 5, 2021

H₂S Concentration (ppb)

0 10 20 30 40 50 60 70 80


15MIN H₂S TWA
24HOUR H₂S TWA
H₂S MRL (70ppb)
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
### Air Monitoring Summary Tables

The table below summarizes monitoring data collected using EPA's Viper wireless remote monitoring system.

**Project Name:** H$_2$S in South and North Carolina

**From:** 6/29/21 12:01 AM

**To:** 6/29/21 11:59 PM

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<th>Instrument</th>
<th>Analyte</th>
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<th>Number of Detections</th>
<th>Concentration Range</th>
<th>Period Average</th>
<th>ATSDR MRL</th>
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<td>0 ppb</td>
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</table>

**Notes:**

Hydrogen sulfide concentrations presented in this data summary table are converted from parts per million, the instrument readout units, to parts per billion.

**ATSDR MRL** Agency for Toxic Substances and Disease Registry Minimal Risk Level - Acute Exposure (<14 days)

**H$_2$S** Hydrogen Sulfide

**hr** Hour

**ppb** Parts per billion

**MRL Exceedance** Defines if the 24-hr TWA exceeded the MRL at any time during the period of this report

**SPM** Single Point Monitor

**TWA** Time Weighted Average
H₂S in South and North Carolina
Hydrogen Sulfide 15-min and 24-hr Time Weighted Graphs

Only locations where hydrogen sulfide was detected during the current reporting period are graphed below.

The prevailing wind directions for this reporting period were out of the south-southeast with smaller percentages out of the east-southeast, southeast, south, and south-southwest. See wind rose diagram on location figure for full wind data during this reporting period.

The following locations did not detect hydrogen sulfide above 1 part per billion: River Chase, Millstone Creek, Marvin, and Treetop.

Notes:

H₂S – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average
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Bridgemill June 29, 2021

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Notes:

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Notes:

$\text{H}_2\text{S}$ – Hydrogen Sulfide
MIN – Minute
MRL – Minimal Risk Level
ppb – Parts per billion
TWA – Time weighted average