Air Monitoring Summary Tables

The table below summarizes monitoring data collected using a portable wireless remote monitoring system.
All times in Eastern Standard Time (EST).

From: **9/21/22 12:00 am** ***To:*** **9/21/22 11:59 pm**

Offsite Monitors

Instrument	Analyte	ATSDR MRL 14-day Avg Reached?	Concentration Range Detected [a]	24-hr Average [a]	7-day Average	ATSDR 14-day MRL
Catawba Headstart						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb [b]	0.00 ppb	70 ppb
Treetops						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb [c]	0.00 ppb	70 ppb
Liberty Hill						
Acrulog PPB	H_2S	No	0 – 1 ppb	0.04 ppb [d]	0.01 ppb	70 ppb
Riverchase Estates						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb [e]	0.01 ppb	70 ppb
Millstone Creek						
Acrulog PPB	H_2S	No	0 – 0 ppb	0.00 ppb [f]	0.00 ppb	70 ppb

[b] The 24-hr average at this location is not represented by the full 24-hr period; a total of 12 30-minute averages are missing from the reported period. The missing data is due to QC audit at Catawba Headstart.
[c] The 24-hr average at this location is not represented by the full 24-hr period; a total of 9 30-minute averages are missing from the reported period. The missing data is due to QC audit at Treetops.
[d] The 24-hr average at this location is not represented by the full 24-hr period; a total of 11 30-minute averages are missing from the reported period. The missing data is due to QC audit at Liberty Hill.
[e] The 24-hr average at this location is not represented by the full 24-hr period; a total of 10 30-minute averages are missing from the reported period. The missing data is due to QC audit at Riverchase Estates.
[f] The 24-hr average at this location is not represented by the full 24-hr period; a total of 43 30-minute averages are missing from the reported period. The missing data is due to Collection Error, QC audit, Maintenance and Power Failure at Millstone Creek.

Onsite Fenceline Monitors

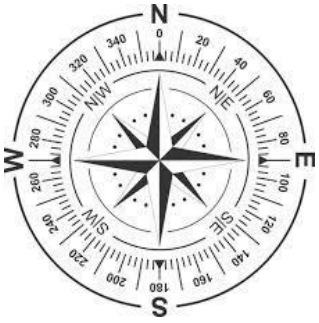
Instrument	Analyte	30-min AEGL Reached?	Concentration Range Detected [a]	24-hr Average [a]	7-day Average	30-min AEGL
Station 1						
TAPI Analyzer	H_2S	No	0 – 23 ppb	4.46 ppb	4.92 ppb	600 ppb
Station 2						
TAPI Analyzer	H_2S	No	1 – 1 ppb	0.64 ppb	0.50 ppb	600 ppb
Station 3						
TAPI Analyzer	H_2S	No	0 – 0 ppb	0.20 ppb [g]	0.20 ppb	600 ppb

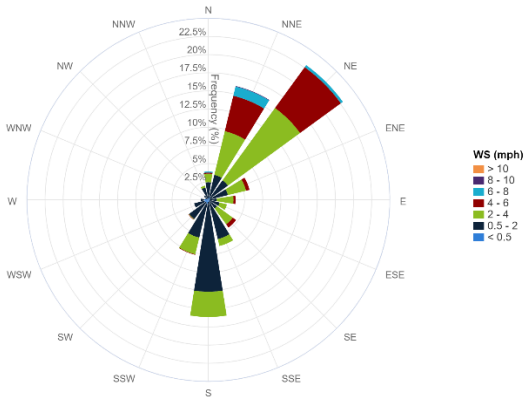
[a] Based on 30-minute averages.
[g] The 24-hr average at this location is not represented by the full 24-hr period; a total of 6 30-minute averages are missing from the reported period. The missing data is due to QC audit at Station 3.

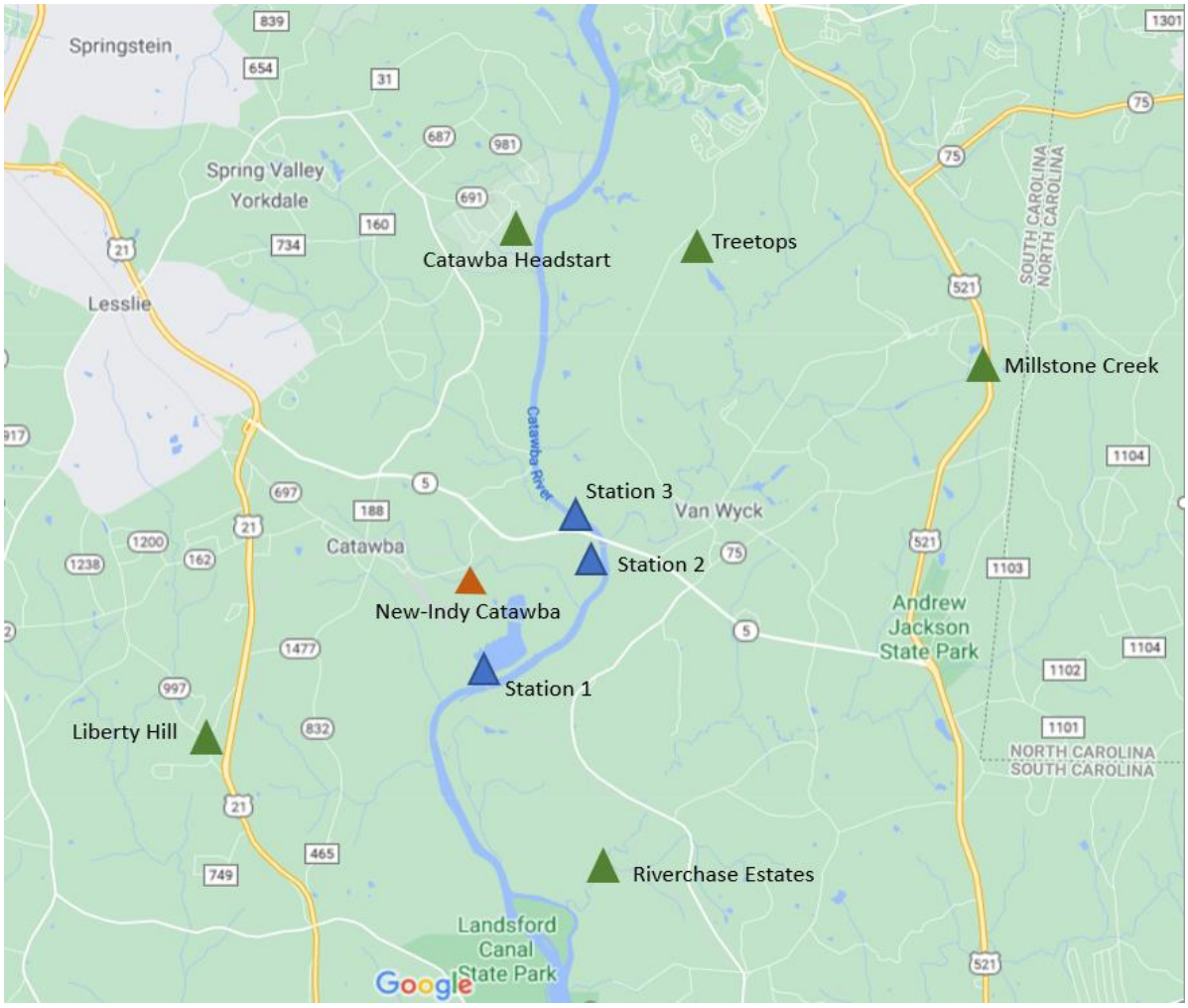
Notes:

ATSDR MRL	Agency for Toxic Substances and Disease Registry Minimal Risk Level (MRL)
AEGL	EPA Acute Exposure Guidelines Levels
H_2S	Hydrogen Sulfide
TAPI	Teledyne API H_2S Analyzer
hr	Hour
min	Minute
ppb	Parts per billion
MRL Limit	Limit defined as a 14-day average value.

Station 1 Wind Rose – Shows the direction the wind is coming from, the monitoring station being at the center of the rose.







Legend

Offsite Fixed Monitoring Locations

Onsite Fixed Monitoring Locations

New-Indy Catawba

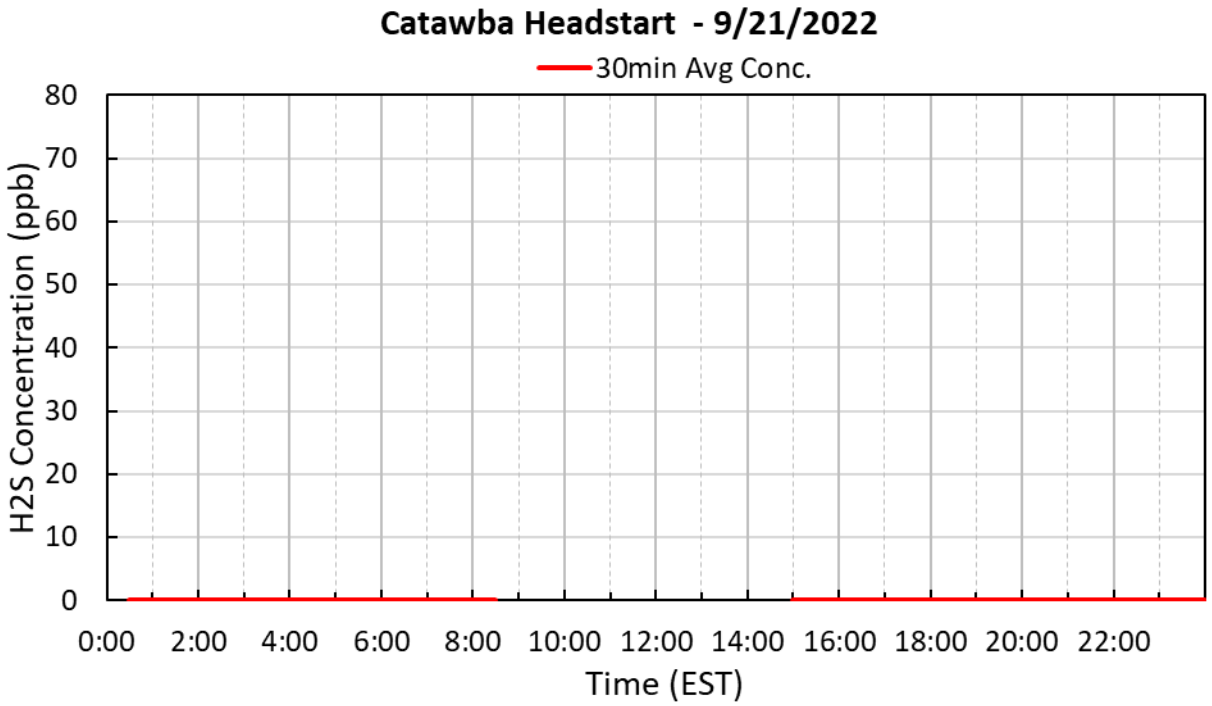
Period H_2S Monitoring
Hydrogen Sulfide Offsite Monitors

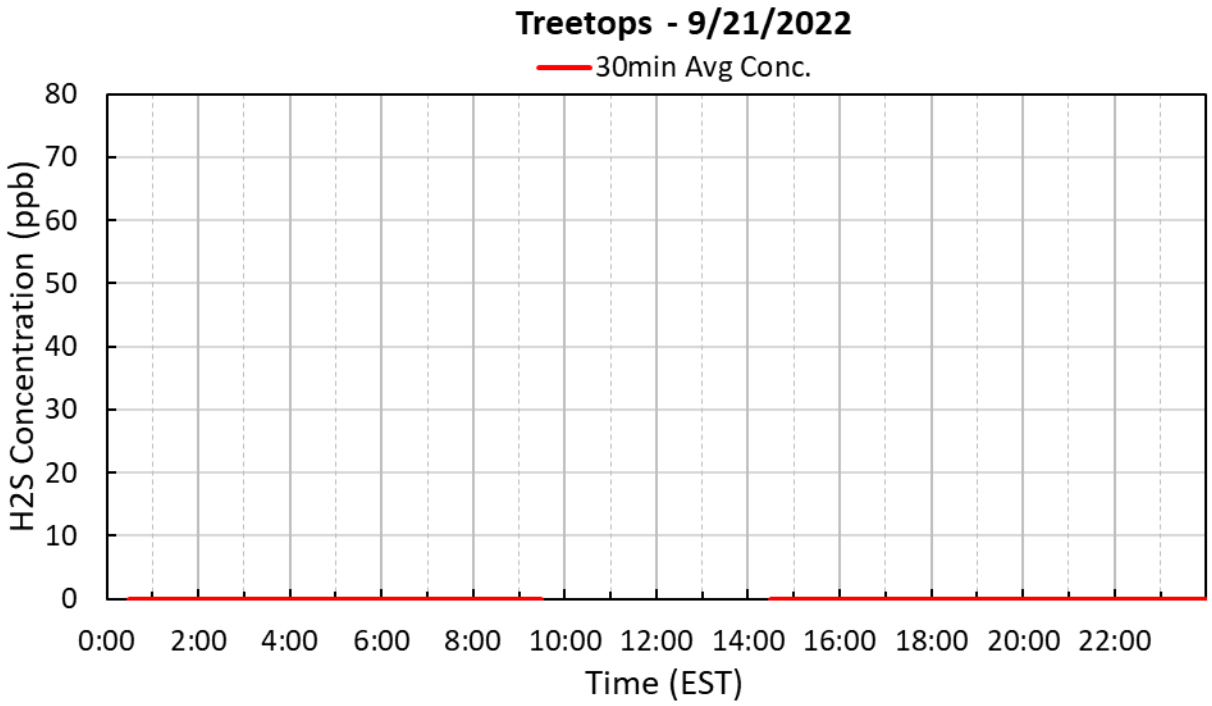
Below are graphs for offsite locations where hydrogen sulfide (H_2S) was detected during the current reporting period.

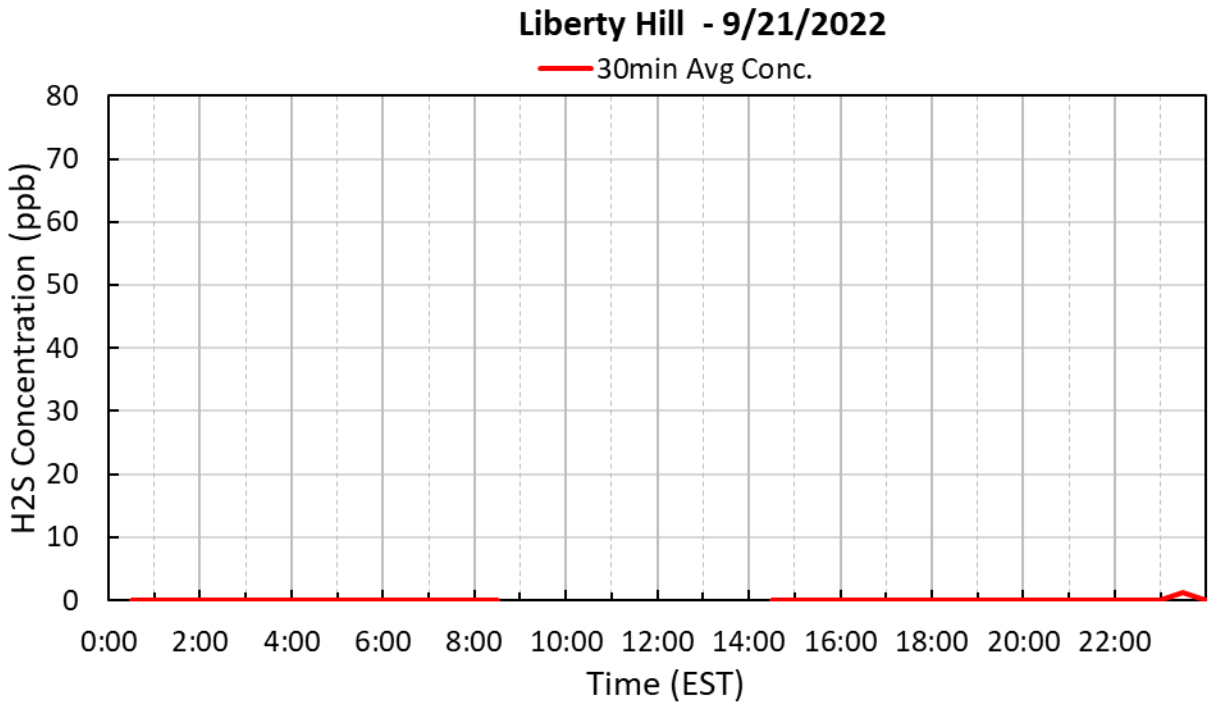
The five stand-alone H_2S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

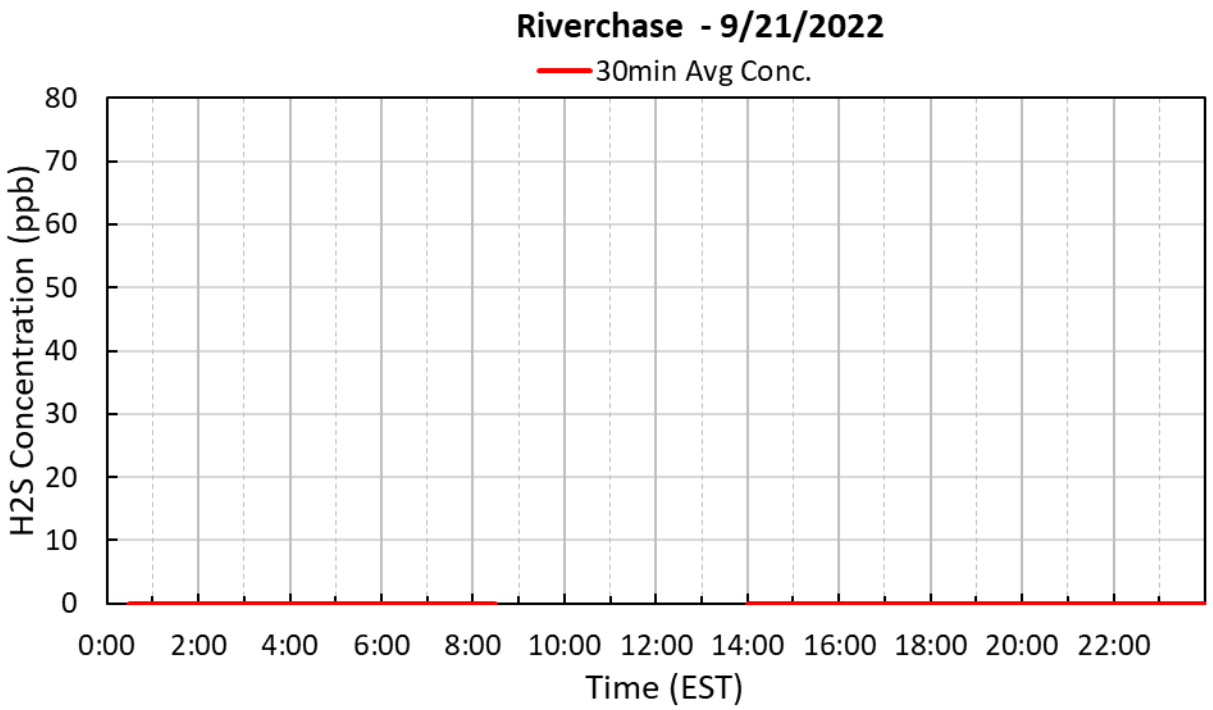
Winds were variable throughout the day at 1 to 5 mph.

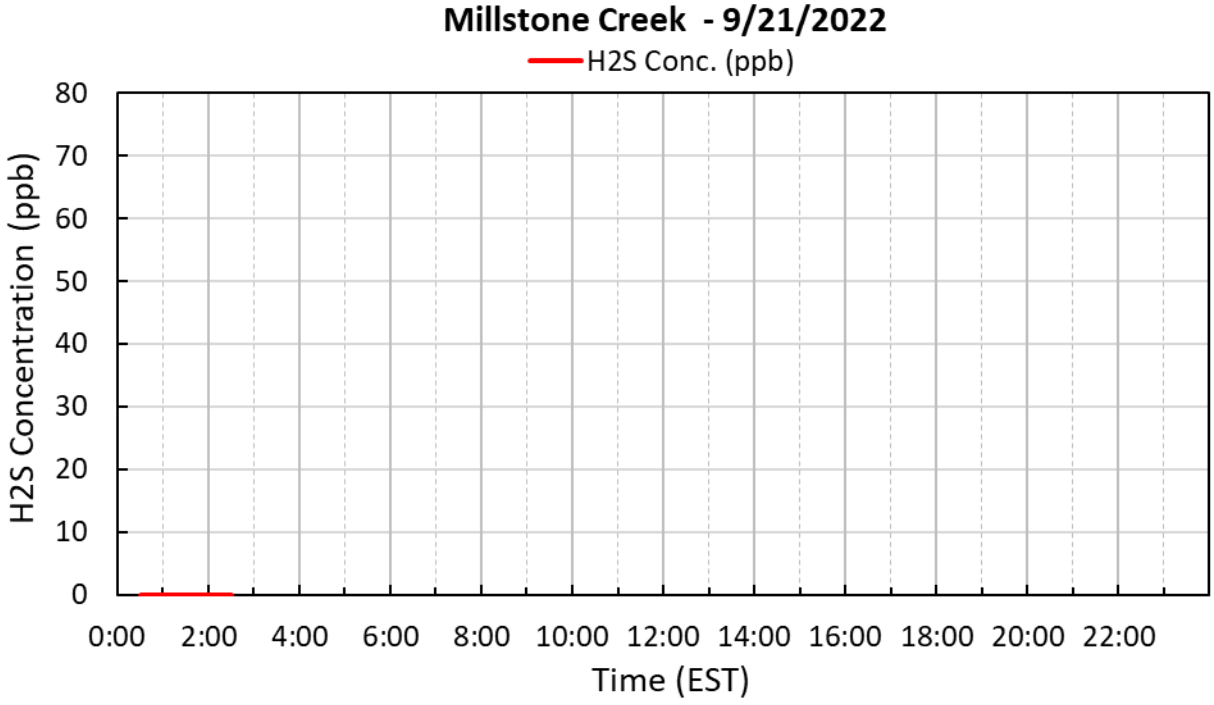
See wind rose diagram with aerial map figure for full wind data during this reporting period.




Treetops - 9/21/2022
30min Avg Conc.
H2S Concentration (ppb)
80
70
60
50
40
30
20
10
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
Time (EST)


Liberty Hill - 9/21/2022
30min Avg Conc.
H2S Concentration (ppb)
80
70
60
50
40
30
20
10
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
Time (EST)


Riverchase - 9/21/2022
30min Avg Conc.
H2S Concentration (ppb)
80
70
60
50
40
30
20
10
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
Time (EST)


Millstone Creek - 9/21/2022
H2S Conc. (ppb)
H2S Concentration (ppb)
80
70
60
50
40
30
20
10
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
Time (EST)

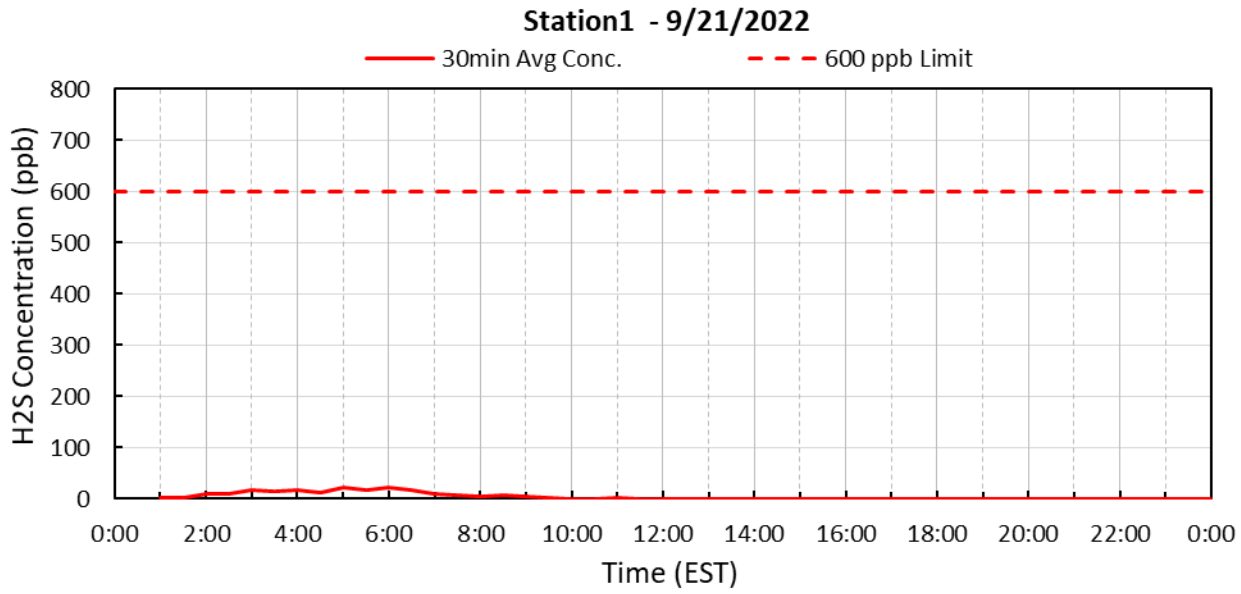
Period H_2S Monitoring
Hydrogen Sulfide Onsite Monitors

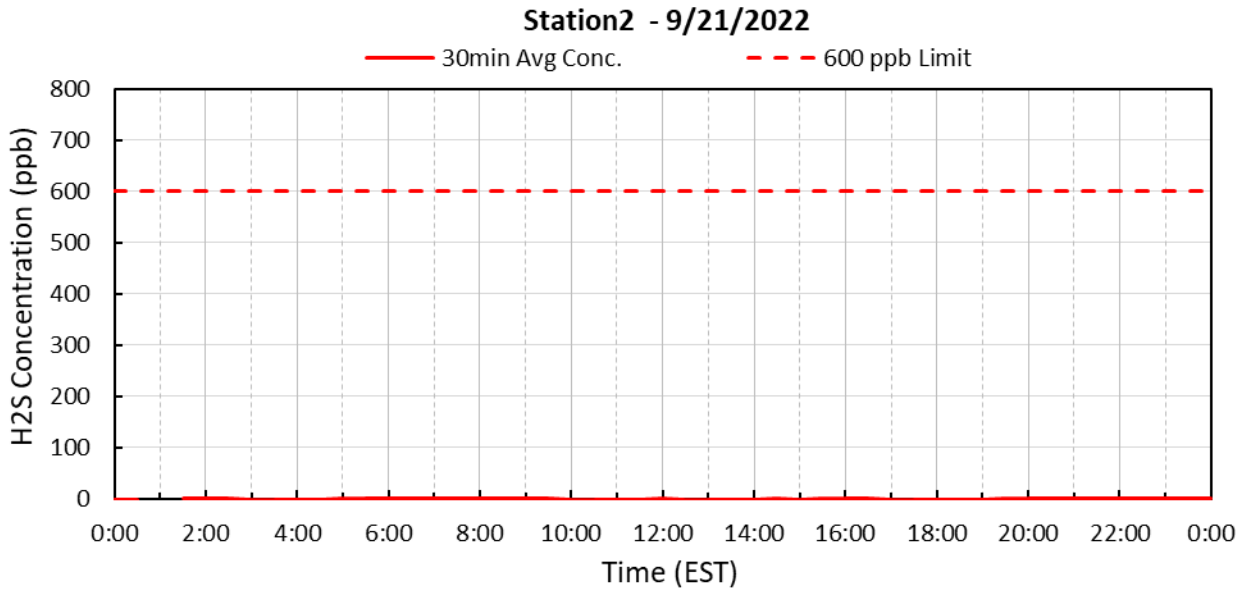
Below are graphs for onsite locations during the current reporting period.

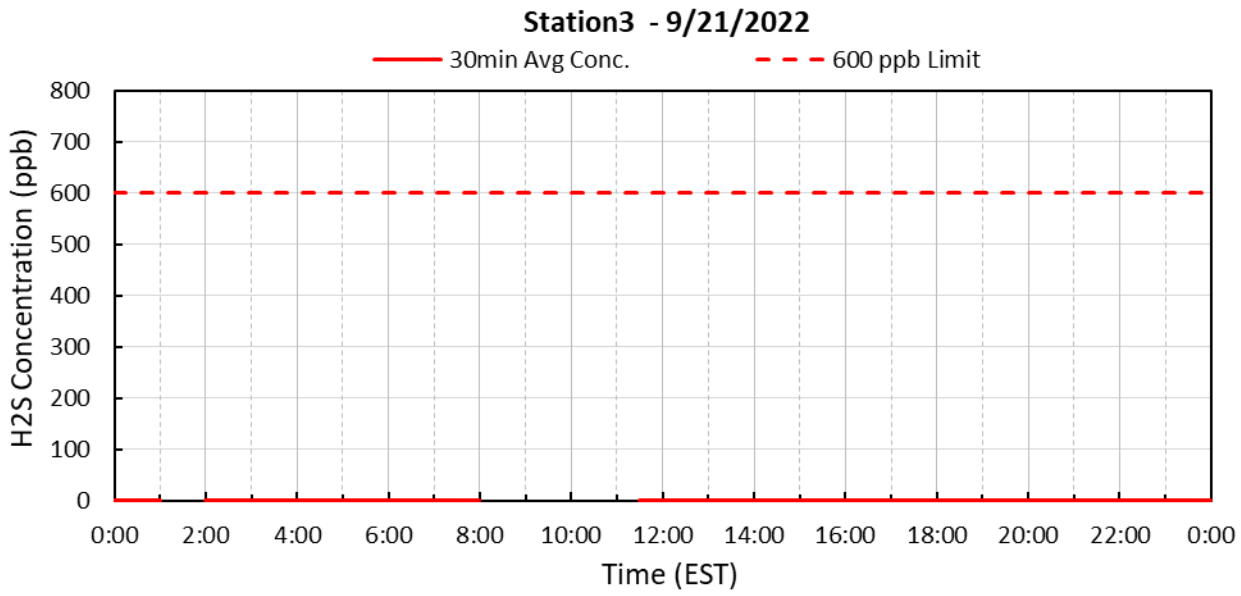
Depending on wind direction, the H_2S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were variable throughout the day at 1 to 5 mph.

See wind rose diagram with aerial map figure for full wind data during this reporting period.






Station3 - 9/21/2022
30min Avg Conc.
600 ppb Limit
H2S Concentration (ppb)
800
700
600
500
400
300
200
100
0
0:00
2:00
4:00
6:00
8:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
0:00
Time (EST)