

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: 12/29/23 12:00 am **To:** 12/29/23 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 ₂ S	No	0 – 0 ppb	0.00 ppb ^c	0.00 ppb	70 ppb
Treetops						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb ^d	0.00 ppb	70 ppb
Liberty Hill						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb ^e	0.00 ppb	70 ppb
Riverchase Estates						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb ^f	0.01 ppb	70 ppb
Millstone Creek						
Acrulog PPB	H ₂ S	No	0 – 0 ppb	0.00 ppb ^g	0.00 ppb	70 ppb

^c The 24-hr average at Catawba Headstart is not represented by the full 24-hr period; a total of 1 30-minute average is missing from the reported period due routine QC checks performed at this location.

^d The 24-hr average at Treetops is not represented by the full 24-hr period; a total of 1 30-minute average is missing from the reported period due routine QC checks performed at this location.

^e The 24-hr average at Liberty Hill is not represented by the full 24-hr period; a total of 1 30-minute average is missing from the reported period due routine QC checks performed at this location.

^f The 24-hr average at Riverchase Estates is not represented by the full 24-hr period; a total of 1 30-minute average is missing from the reported period due routine QC checks performed at this location.

^g The 24-hr average at Millstone Creek is not represented by the full 24-hr period; a total of 1 30-minute average is missing from the reported period due routine QC checks performed at this location.

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 ₂ S	No	0 – 5 ppb	0.52 ppb	1.29 ppb	600 ppb
Station 2						
TAPI Analyzer	H ₂ S	No	1 – 6 ppb	2.19 ppb	1.07 ppb	600 ppb
Station 3						
TAPI Analyzer	H ₂ S	No	0 – 5 ppb	0.70 ppb ^b	1.38 ppb	600 ppb

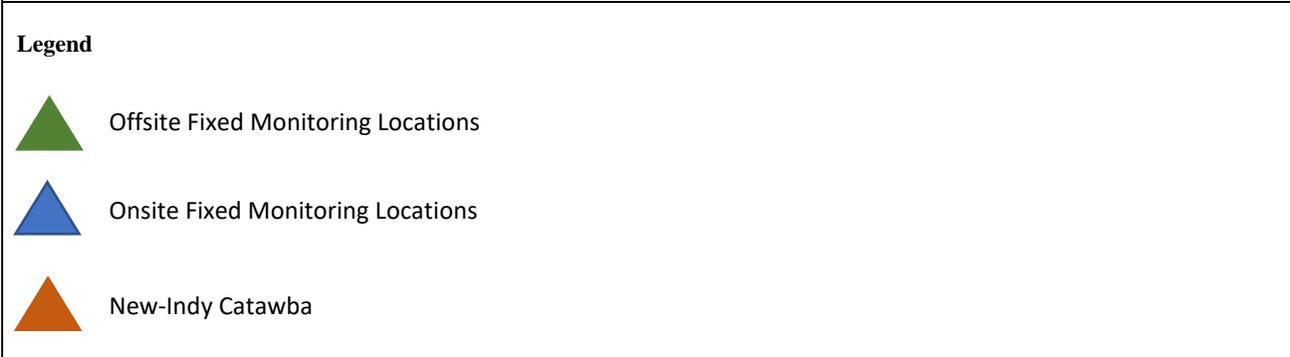
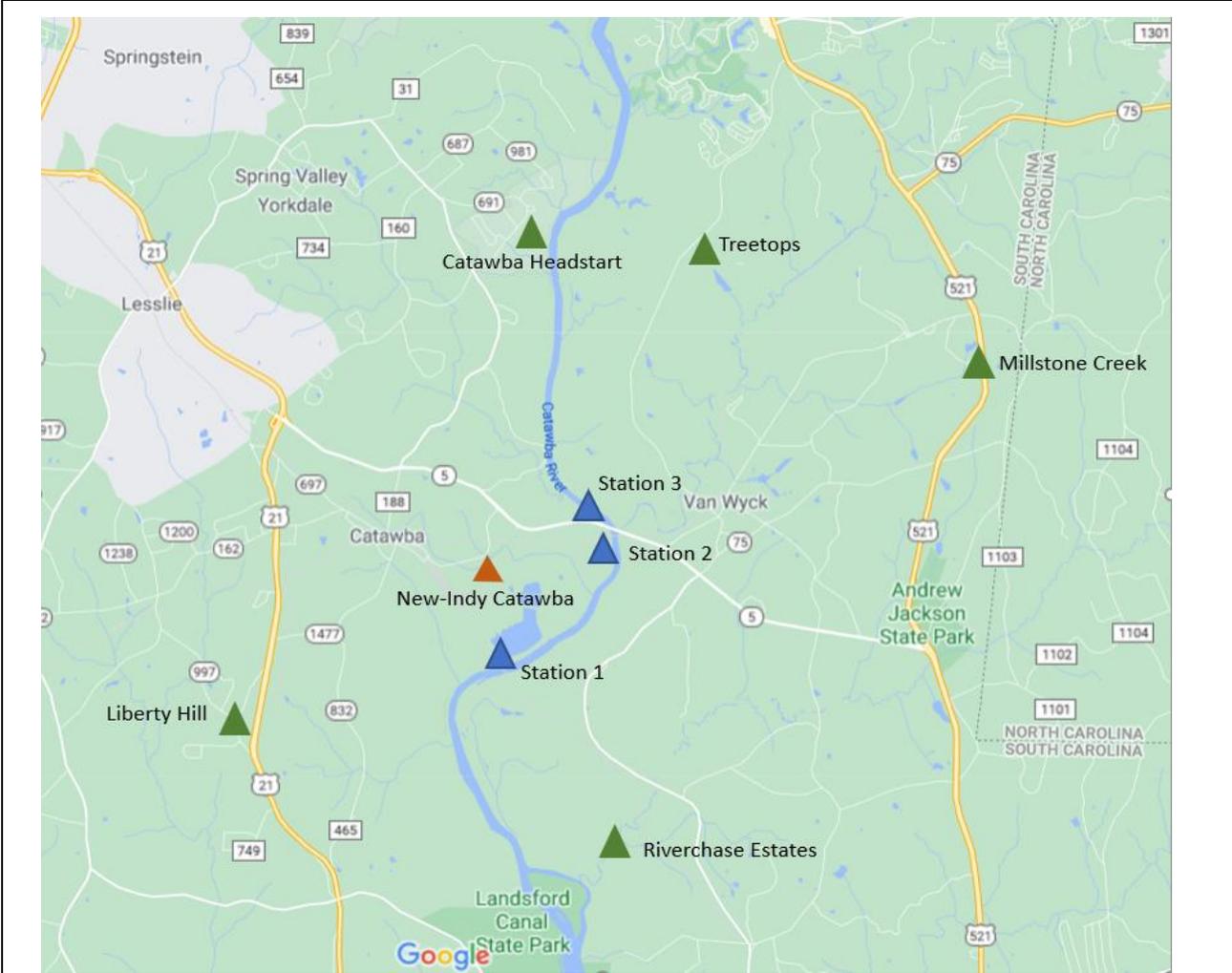
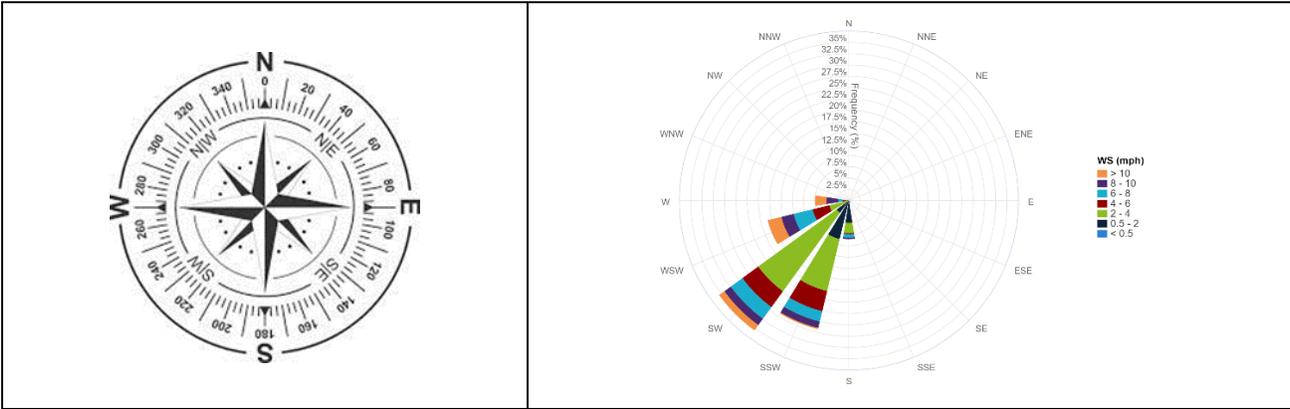
^a Based on 30-minute averages.

^b The 24-hour H₂S average at Station 3 is calculated using the data from the back-up unit due to the removal of the primary unit for maintenance.

Notes:

ATSDR MRL	Agency for Toxic Substances and Disease Registry Minimal Risk Level (MRL)
AEGL	EPA Acute Exposure Guidelines Levels
H ₂ S	Hydrogen Sulfide
TAPI	Teledyne API H ₂ S 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.



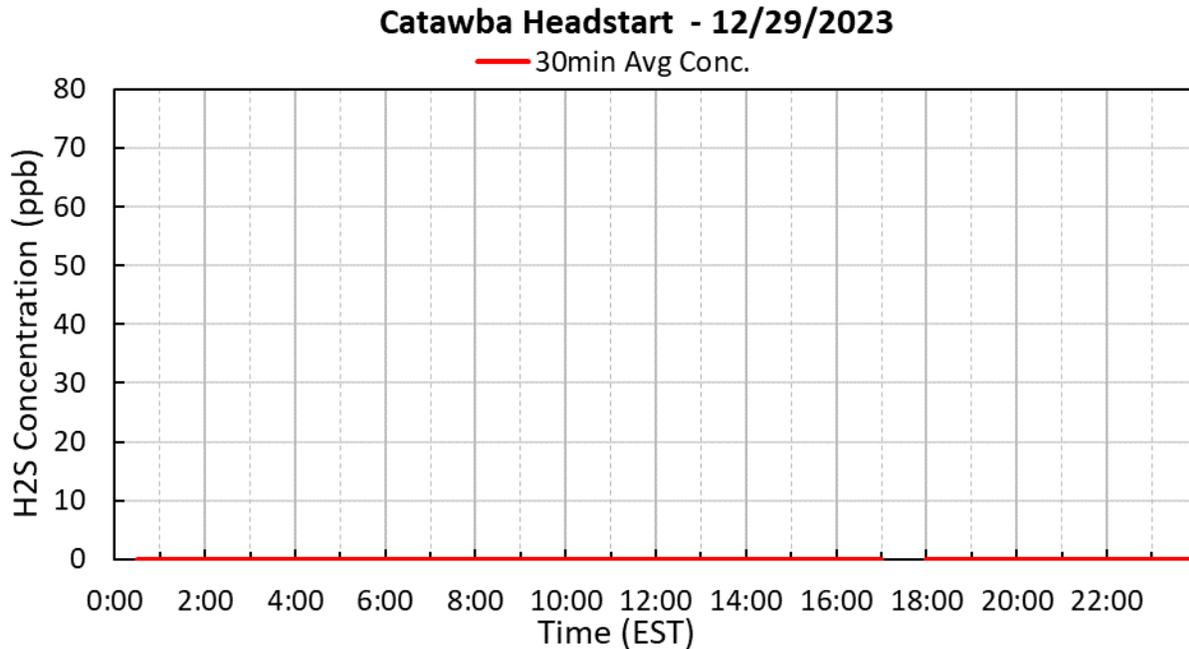
Period H₂S Monitoring Hydrogen Sulfide Offsite Monitors

Below are graphs for offsite locations where hydrogen sulfide (H₂S) was detected during the current reporting period.

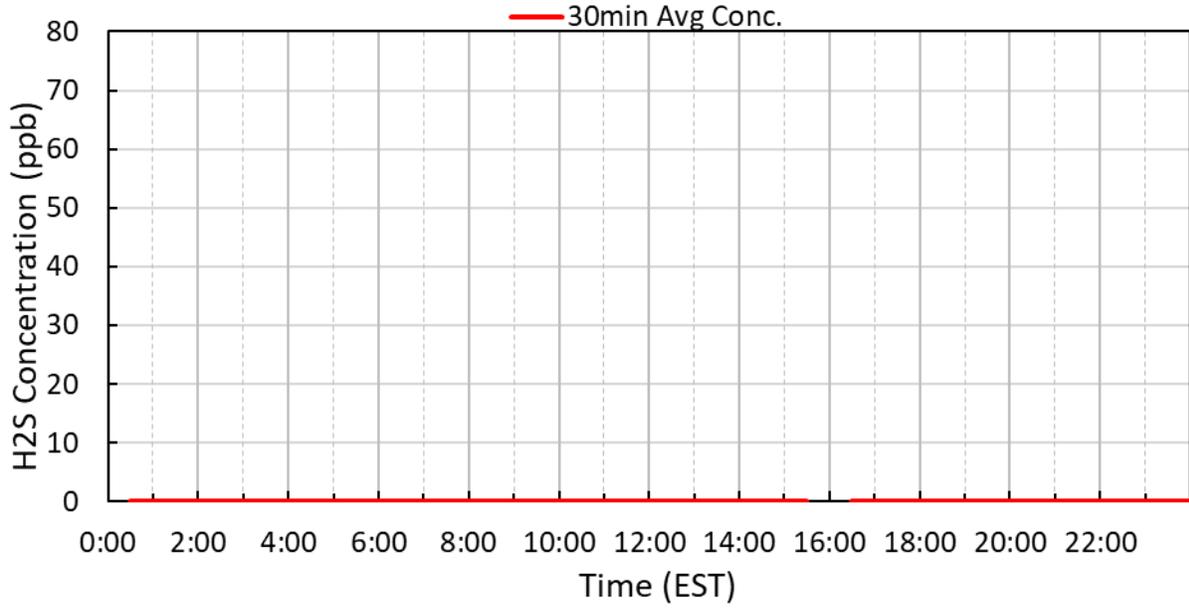
The five stand-alone H₂S monitoring stations correlate with five previous EPA's Viper monitoring system which includes areas to the north-northeast and south-southwest of the New-Indy Catawba Mill.

Winds were predominantly coming from the west-southwest, southwest, and south-southwest direction throughout the day at 1 to 10 mph.

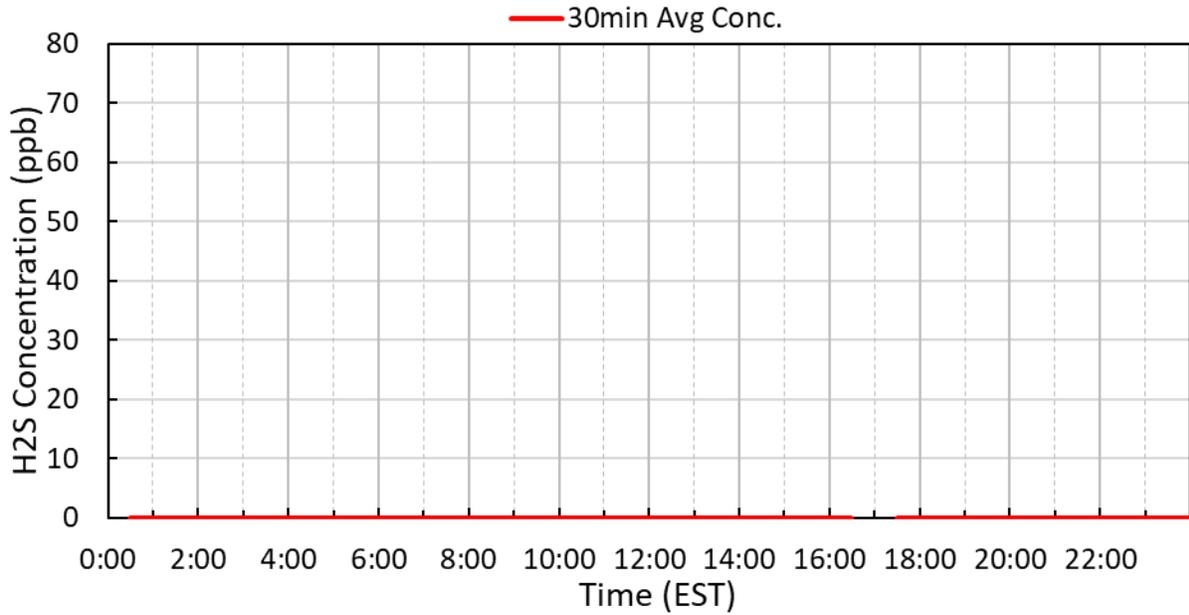
See wind rose diagram with aerial map figure for full wind data during this reporting period.



Treetops - 12/29/2023

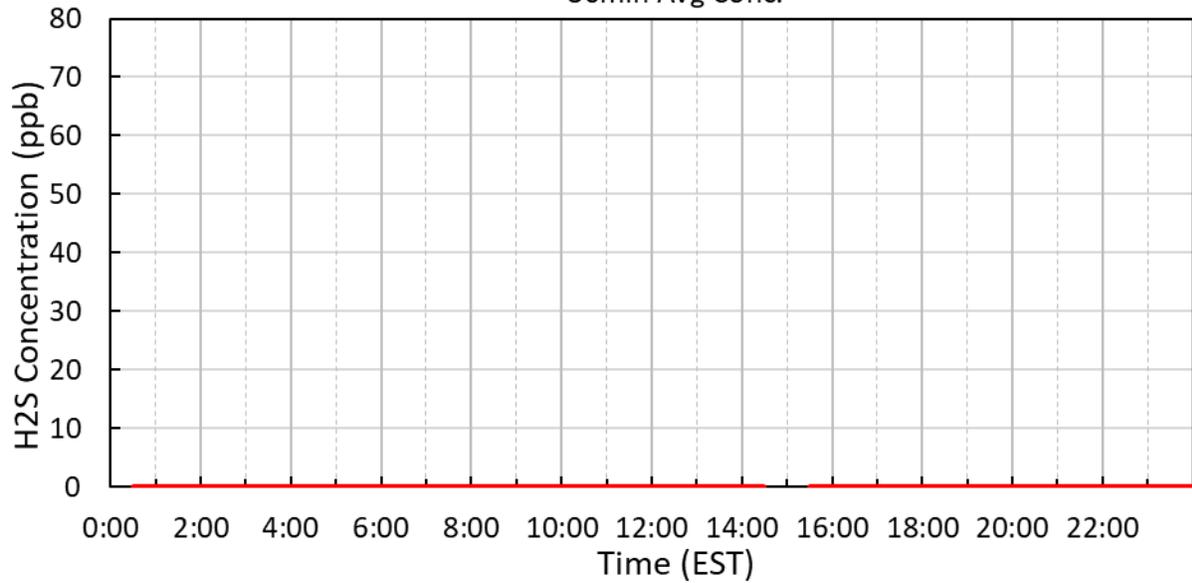


Liberty Hill - 12/29/2023



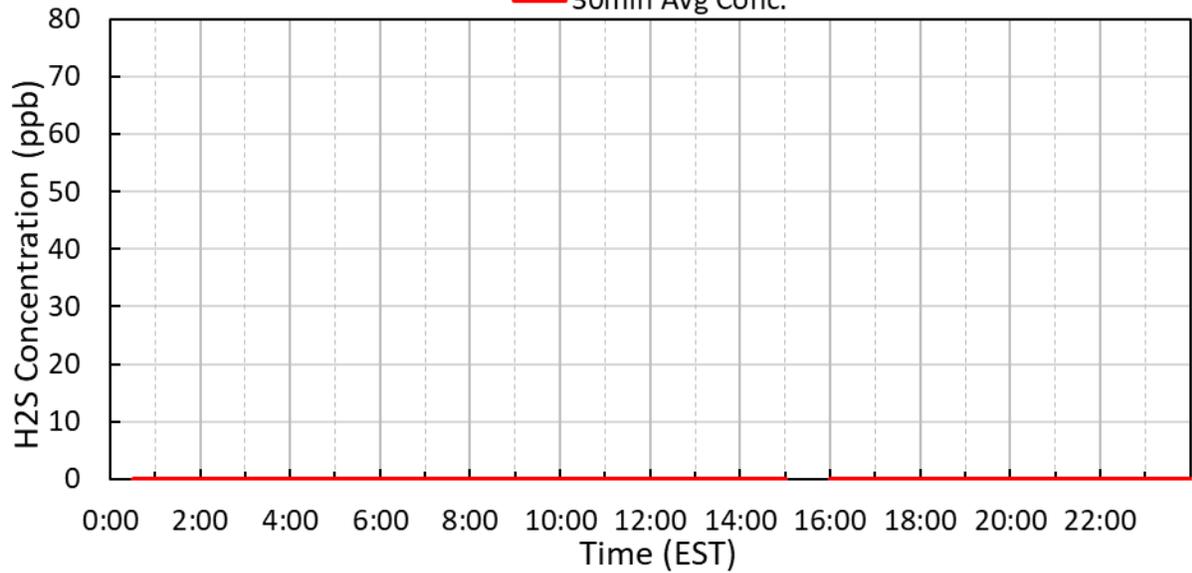
Riverchase - 12/29/2023

— 30min Avg Conc.



Millstone Creek - 12/29/2023

— 30min Avg Conc.



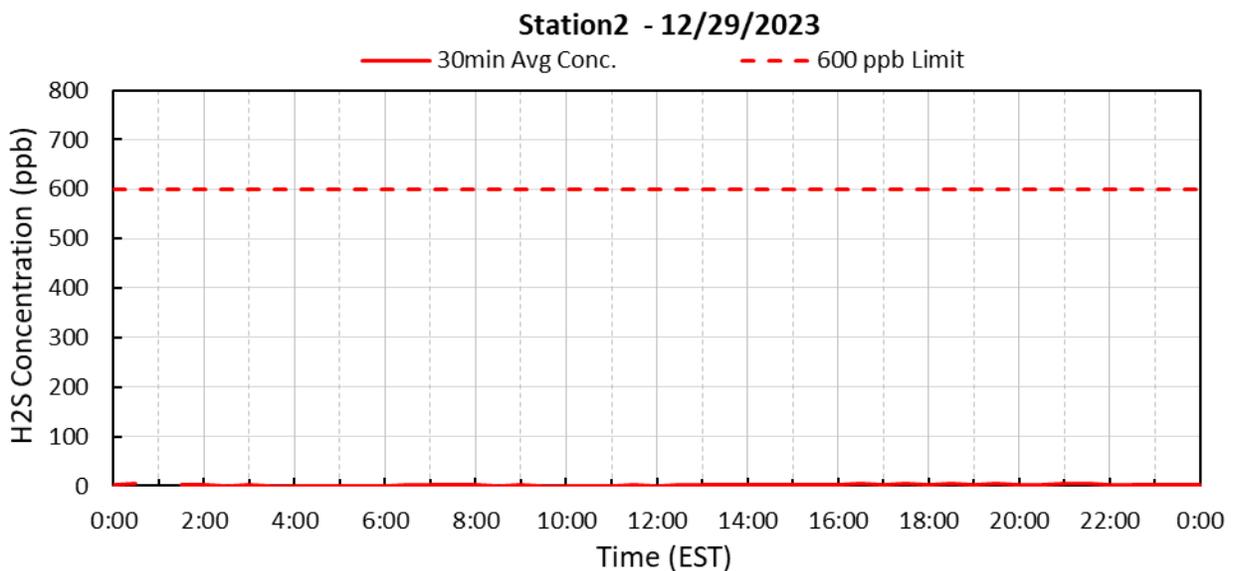
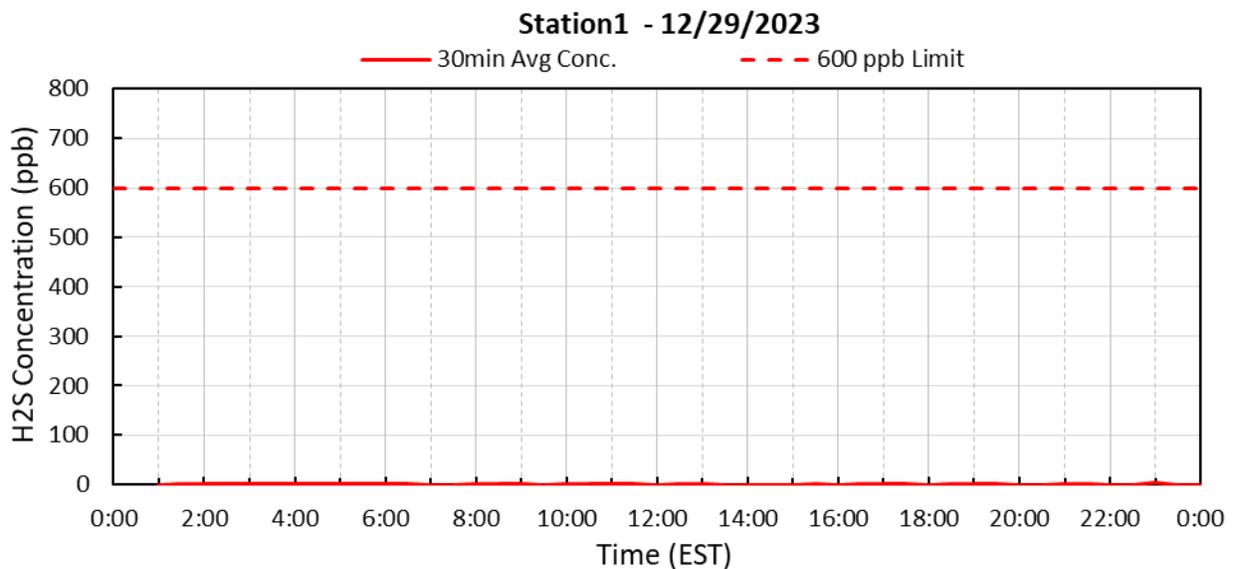
Period H₂S Monitoring Hydrogen Sulfide Onsite Monitors

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

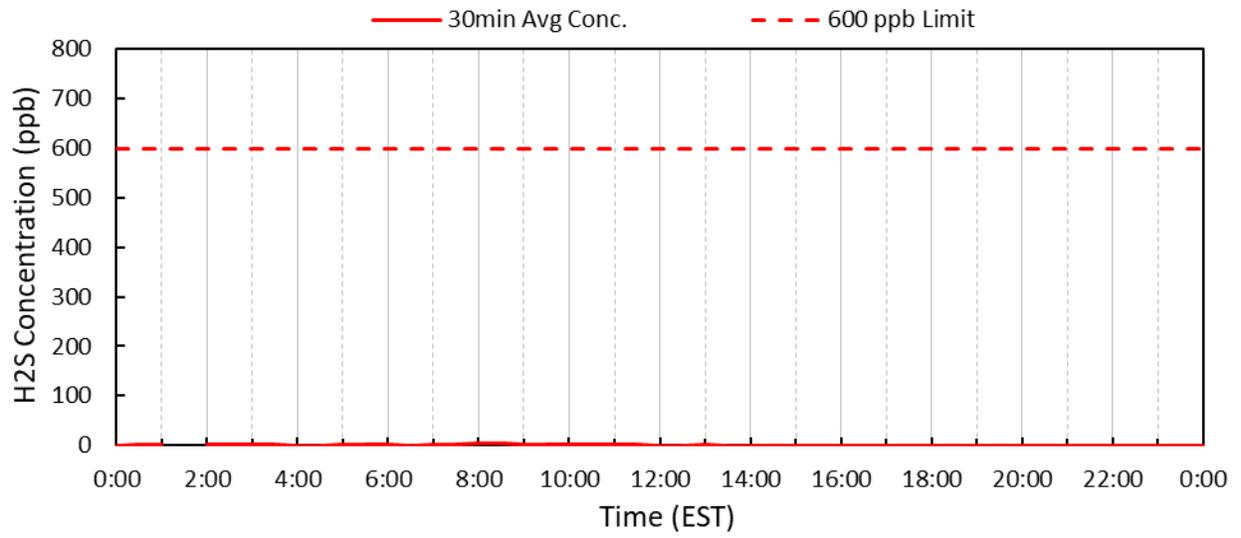
Depending on wind direction, the H₂S measured at the onsite fence line locations may not exit the mill property at reported concentrations. Wind directions from offsite locations, blowing onto mill property, will disperse ambient concentrations to lower levels prior to exiting the plant site.

Winds were predominantly coming from the west-southwest, southwest, and south-southwest direction throughout the day at 1 to 10 mph.

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



Station3 - 12/29/2023



Submitted Fenceline H₂S and Met 30-minute Data

30-Minute Avgs	Station 1			Station 2			Station 3		
	H2S	Met		H2S	Met		H2S	Met	
	30min Avg H2S Conc.	30min Avg WS	30min Avg WD	30min Avg H2S Conc.	30min Avg WS	30min Avg WD	30min Avg H2S Conc.	30min Avg WS	30min Avg WD
Date / Time	ppb	mph	degrees	ppb	mph	degrees	ppb	mph	degrees
12/29/2023 0:30	AX	2.4	216	5.5	1.1	210	1.2	0.3	112
12/29/2023 1:00	0.2	2.2	221	AX	0.5	193	1.4	0.2	88
12/29/2023 1:30	0.6	1.1	194	1.7	0.5	18	AX	0.2	10
12/29/2023 2:00	0.9	1.3	193	1.3	0.2	21	0.6	0.2	13
12/29/2023 2:30	0.8	1.7	190	1.0	0.4	359	1.2	0.2	0
12/29/2023 3:00	0.6	1.3	194	1.2	0.2	322	0.5	0.2	96
12/29/2023 3:30	0.5	1.1	199	0.8	0.5	289	0.5	0.3	195
12/29/2023 4:00	0.4	2.1	206	0.6	0.9	266	0.2	0.2	213
12/29/2023 4:30	0.6	1.7	210	0.7	0.5	262	0.2	0.5	98
12/29/2023 5:00	0.7	2.1	209	0.8	0.8	224	0.5	0.5	168
12/29/2023 5:30	0.5	2.3	216	0.8	0.5	244	1.1	0.3	152
12/29/2023 6:00	0.5	2.1	221	0.8	0.4	242	0.6	0.2	9
12/29/2023 6:30	0.4	2.7	212	1.1	0.7	222	0.2	0.3	320
12/29/2023 7:00	0.2	2.7	220	2.1	0.6	222	1.0	0.3	6
12/29/2023 7:30	0.2	2.6	223	2.2	1.5	219	1.3	0.4	316
12/29/2023 8:00	0.4	2.4	208	2.4	1.8	217	5.3	1.1	194
12/29/2023 8:30	0.6	4.0	210	0.9	3.4	213	5.2	2.3	221
12/29/2023 9:00	0.6	5.4	208	1.1	4.6	214	0.9	3.3	239
12/29/2023 9:30	0.2	6.1	208	0.9	5.5	217	0.7	3.5	225
12/29/2023 10:00	0.5	6.3	197	0.8	5.4	219	2.2	3.2	202
12/29/2023 10:30	0.5	8.0	209	0.9	6.9	223	1.6	4.3	216
12/29/2023 11:00	0.6	6.3	213	0.9	6.9	229	0.7	3.4	246
12/29/2023 11:30	0.6	7.4	228	1.2	7.5	235	0.7	3.9	255
12/29/2023 12:00	0.2	8.8	236	1.0	8.6	238	0.2	2.9	242
12/29/2023 12:30	0.5	9.2	231	1.6	9.5	238	0.2	4.9	240
12/29/2023 13:00	0.5	9.1	241	1.4	8.4	232	0.8	4.3	244
12/29/2023 13:30	0.2	8.9	252	2.2	9.5	246	0.2	5.0	251
12/29/2023 14:00	0.2	9.0	250	3.6	9.7	252	0.2	3.9	247
12/29/2023 14:30	0.2	8.8	254	3.0	10.2	247	0.2	5.0	242
12/29/2023 15:00	0.2	9.5	257	2.5	10.0	262	0.2	5.0	260
12/29/2023 15:30	0.4	7.2	253	2.8	8.3	261	0.2	2.1	262
12/29/2023 16:00	0.2	8.7	253	2.2	8.5	264	0.2	2.2	269
12/29/2023 16:30	0.4	8.2	250	3.7	9.0	258	0.2	2.9	263
12/29/2023 17:00	0.4	6.5	237	3.2	6.8	248	0.2	2.3	252
12/29/2023 17:30	0.4	6.4	239	4.0	6.7	245	0.2	2.4	252
12/29/2023 18:00	0.2	4.7	217	1.9	5.6	232	0.2	3.4	249
12/29/2023 18:30	0.4	4.2	234	4.0	3.8	245	0.2	2.2	249
12/29/2023 19:00	1.6	3.7	241	2.3	3.7	235	0.2	2.3	250
12/29/2023 19:30	0.4	3.2	232	4.9	4.1	247	0.2	2.7	249
12/29/2023 20:00	0.2	2.9	231	2.7	3.8	268	0.2	1.1	257
12/29/2023 20:30	0.2	2.7	217	3.2	3.1	258	0.2	2.2	244
12/29/2023 21:00	0.4	2.4	197	4.5	3.7	256	0.2	2.1	247
12/29/2023 21:30	0.4	2.4	201	3.8	3.2	220	0.2	2.9	240
12/29/2023 22:00	0.2	2.8	226	2.9	3.1	209	0.2	3.5	243
12/29/2023 22:30	0.2	2.5	214	2.8	2.7	211	0.2	2.8	248
12/29/2023 23:00	5.0	2.4	224	3.1	3.6	210	0.2	3.5	244
12/29/2023 23:30	0.2	3.7	226	3.1	3.1	215	0.2	3.1	252
12/30/2023 0:00	0.2	3.0	225	2.8	3.7	212	0.2	2.8	253

AQS Null Data Codes	
Qualifier Code	Item Description
AB	TECHNICIAN UNAVAILABLE
AC	CONSTRUCTION/REPAIRS IN AREA
AD	SHELTER STORM DAMAGE
AE	SHELTER TEMPERATURE OUTSIDE LIMITS
AI	INSUFFICIENT DATA (CAN'T CALCULATE)
AM	MISCELLANEOUS VOID
AN	MACHINE MALFUNCTION
AO	BAD WEATHER
AP	VANDALISM
AS	POOR QUALITY ASSURANCE RESULTS
AT	CALIBRATION
AU	MONITORING WAIVED
AV	POWER FAILURE (POWR)
AW	WILDLIFE DAMAGE
AX	PRECISION CHECK (PREC)
AY	Q C CONTROL POINTS (ZERO/SPAN)
AZ	Q C AUDIT (AUDT)
BA	MAINTENANCE/ROUTINE REPAIRS
BB	UNABLE TO REACH SITE
BC	MULTI-POINT CALIBRATION
BD	AUTO CALIBRATION
BE	BUILDING/SITE REPAIR
BF	PRECISION/ZERO/SPAN
BJ	OPERATOR ERROR
BK	SITE COMPUTER/DATA LOGGER DOWN
EC	EXCEED CRITICAL CRITERIA