

June 25, 2019

Ms. Lori Simmons
Arkansas Department of Health
4815 West Markham Street
Little Rock, Arkansas 72205
Via email Lori.Simmons@arkansas.gov

Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide

Dear Ms. Simmons,

Please find the following biweekly report for the Georgia-Pacific (GP) Crossett Mill hydrogen sulfide (H₂S) and meteorological monitoring program covering the calendar period of May 29, 2019 through June 11, 2019.

Summary of Results

Included in this report are three plots presenting H₂S concentrations across different rolling average periods (30-minute, 8-hour, and 24-hour), daily 1-point quality control (QC) checks with precision and bias estimates and time series plots for all recorded meteorological (met) parameters for the two week period.

Data Quality

The Quality Assurance Project Plan (QAPP) establishes measurement quality objectives (MQOs) for H₂S regarding precision and bias expressed as a coefficient of variation (CV) <10% and $\pm 10\%$, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1. Precision and bias calculations are presented on page six of this report.

Results for available automated daily 1-point QC checks were within the accuracy objective, $\pm 10\%$, indicating the H₂S monitor was operating in accordance with MQOs as stated in the QAPP.

During this reporting period two automated zero checks were performed. The results for these zero checks are presented in the following table.

Date	Zero Check Response (ppb)
5/29/2019	-0.5
6/5/2019	-0.5

Data Capture

There were two brief occurrences of H₂S data loss this monitoring period, other than those resulting from automated daily 1-point QC and weekly calibration checks. Communications were interrupted

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on June 4th and June 5th resulting in less than five minutes of data loss each day.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. All met parameters have 100% data capture for this report period.

Please feel free to contact me if you have any questions or need any additional data.

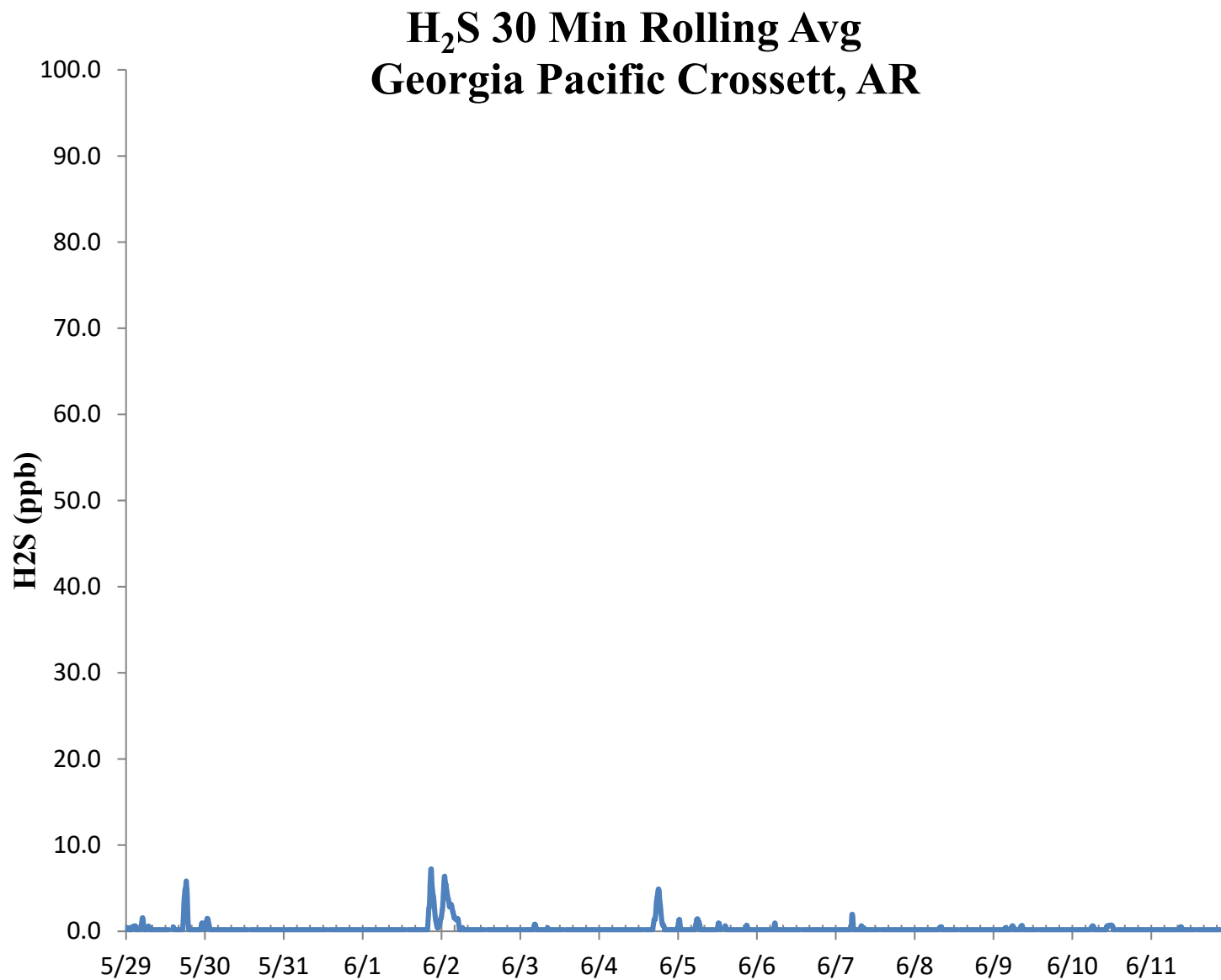
Sincerely,



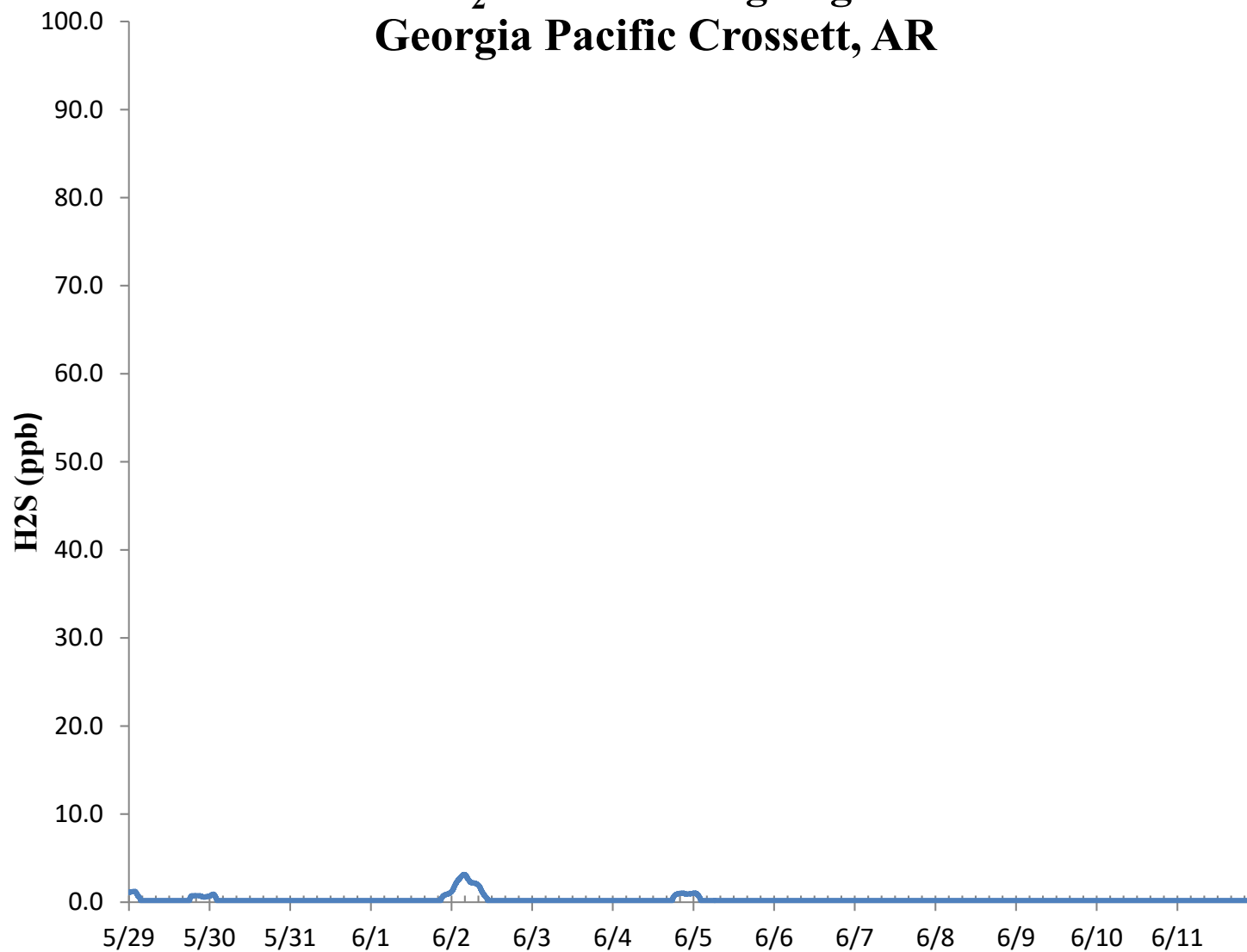
Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Alachua Office
13351 Progress Blvd. Ste A
Alachua, FL 32615
(352) 260-1162
Email: jbowser@trcompanies.com

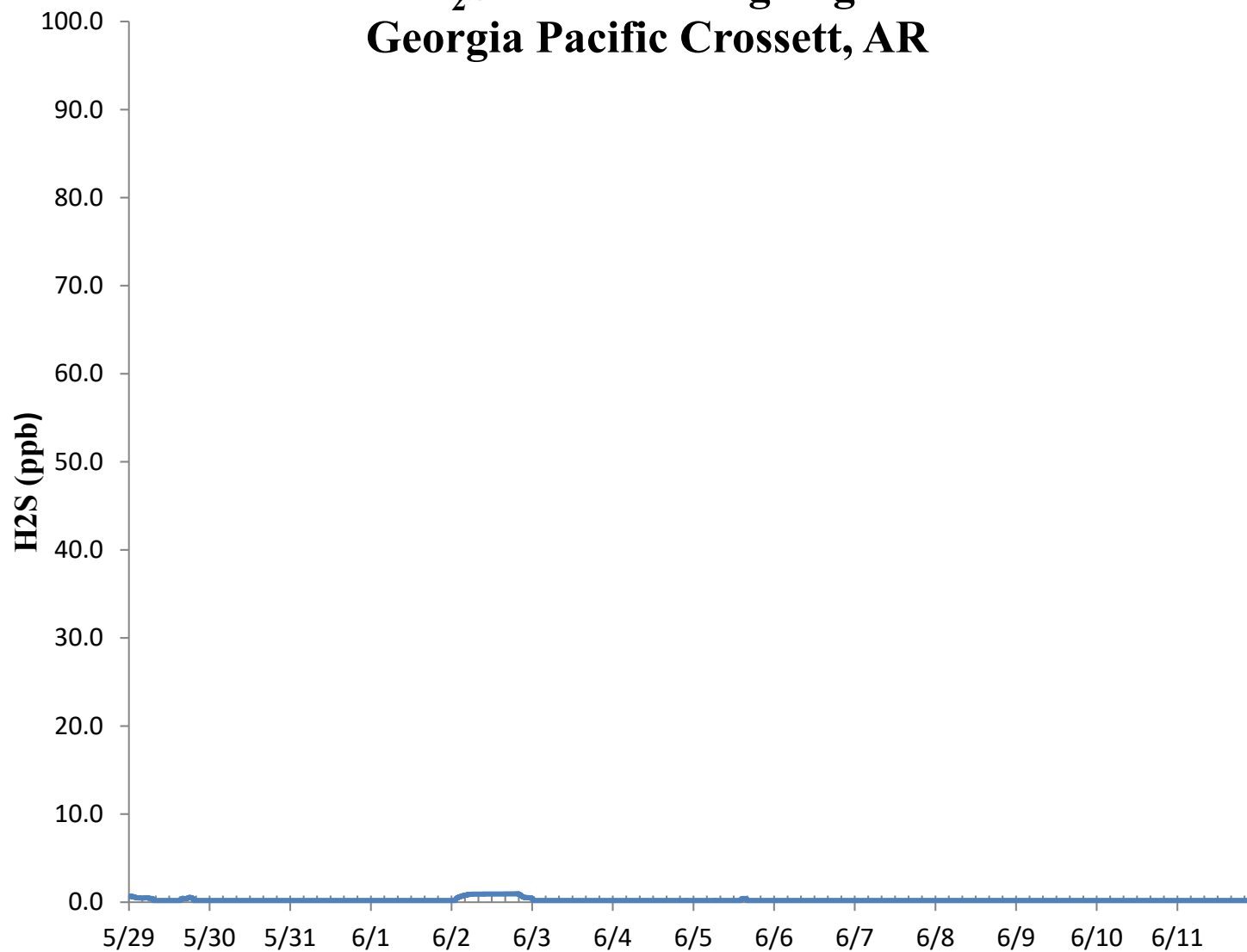
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S Assessment

GP - Crossett, AR			Compound of Interest: H ₂ S			CV _{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²		
5/29/2019 13:00	74.2	70.0	6.0	5.714	36.000	6.000	36.000		
5/30/2019 13:00	74.1	70.0	5.9	75th Percentile	34.306	5.857	34.306		
5/31/2019 13:00	73.7	70.0	5.3	6.107	27.939	5.286	27.939		
6/1/2019 13:00	74.1	70.0	5.9		34.306	5.857	34.306		
6/2/2019 13:00	74.0	70.0	5.7		32.653	5.714	32.653		
6/3/2019 13:00	74.2	70.0	6.0		36.000	6.000	36.000		
6/4/2019 13:00	74.0	70.0	5.7		32.653	5.714	32.653		
6/5/2019 13:00	74.7	70.0	6.7		45.082	6.714	45.082		
6/6/2019 13:00	74.5	70.0	6.4		41.327	6.429	41.327		
6/7/2019 13:00	74.8	70.0	6.9		47.020	6.857	47.020		
6/8/2019 13:00	74.3	70.0	6.1		37.735	6.143	37.735		
6/9/2019 13:00	74.2	70.0	6.0		36.000	6.000	36.000		
6/10/2019 13:00	73.2	70.0	4.6		20.898	4.571	20.898		
6/11/2019 13:00	72.7	70.0	3.9		14.878	3.857	14.878		

n	S_d	S_{d2}	Σ d 	"AB" (Eqn 4)
14	0.792	8.548	81.000	5.786

n-1	Σd	Σd²	Σ d ²	"AS" (Eqn 5)
13	81.000	476.796	476.796	0.792

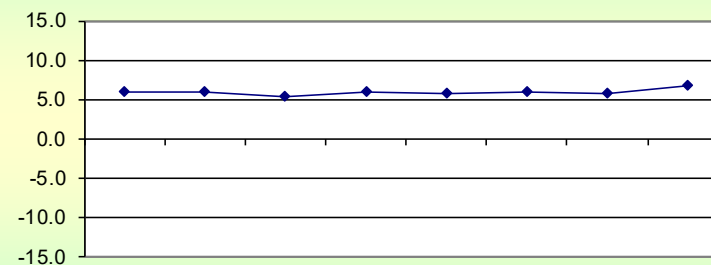
Bias (%) (Eqn 3)	Both Signs Positive
6.16	TRUE

Signed Bias (%)	Both Signs Negative
+6.16	FALSE

CV (%) (Eqn 2)
1.08

Upper Probability Limit	Lower Probability Limit
7.34	4.23

Percent Differences



Meteorological Summary

