

Feb 9, 2015



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February 9, 2015

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,

Following is a data summary for the ninth two-week operational period of the Georgia-Pacific (GP) hydrogen sulfide (H₂S) and meteorological monitoring program at the GP Crossett mill, covering the calendar period of January 21st through February 3rd.

Summary of Results

Included in this report are three plots presenting H₂S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Also included in this report is a summary of results from the daily 1-point QC checks performed during this biweekly period. The QAPP establishes goals for precision and bias 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.

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

There were no occurrences of data loss during this two week period, other than those resulting from automated daily 1-point QC and weekly calibration checks. Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S monitor was operating in accordance with the QAPP.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'J. B. Buss', is written over a light blue horizontal line.



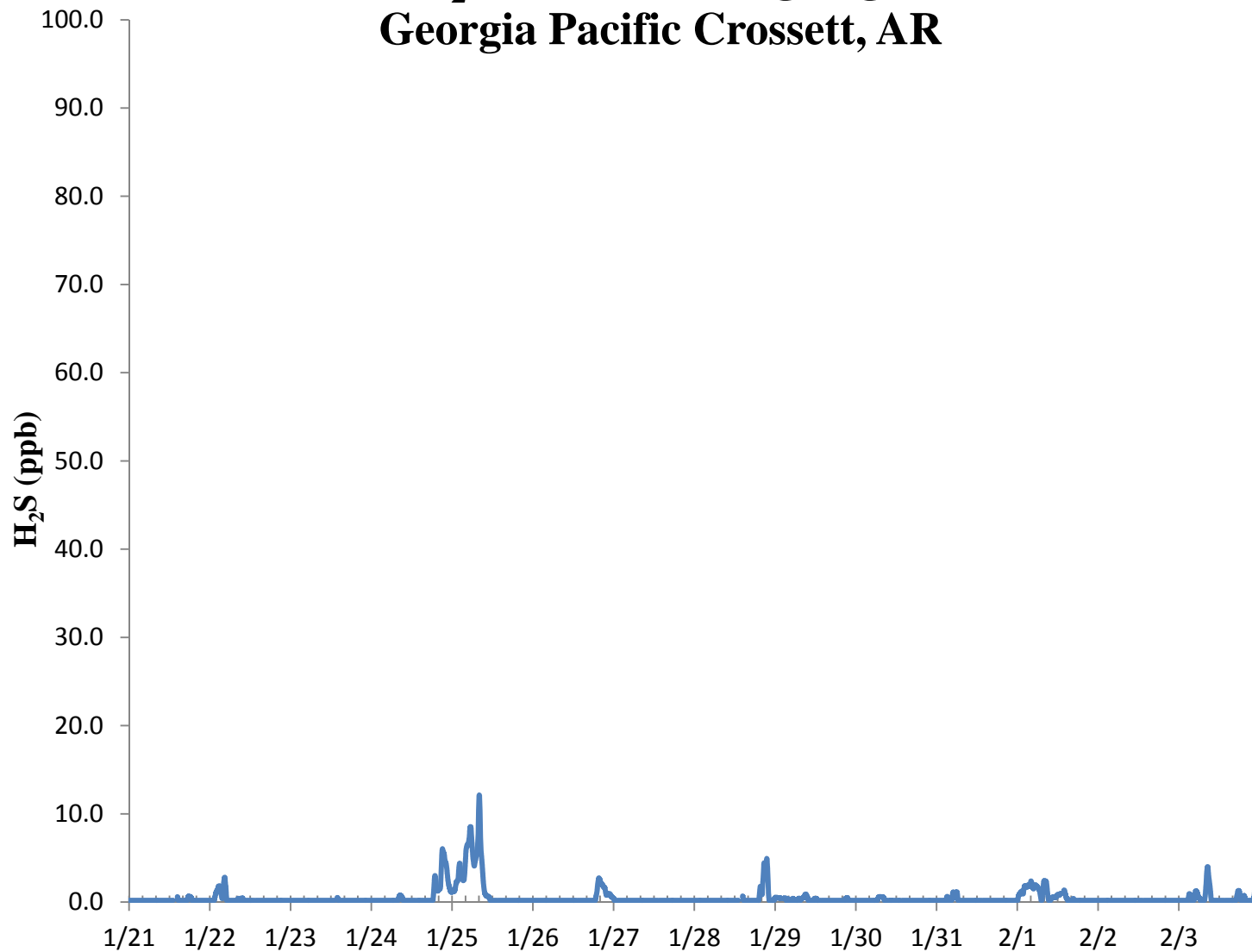
Feb 9, 2015

Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

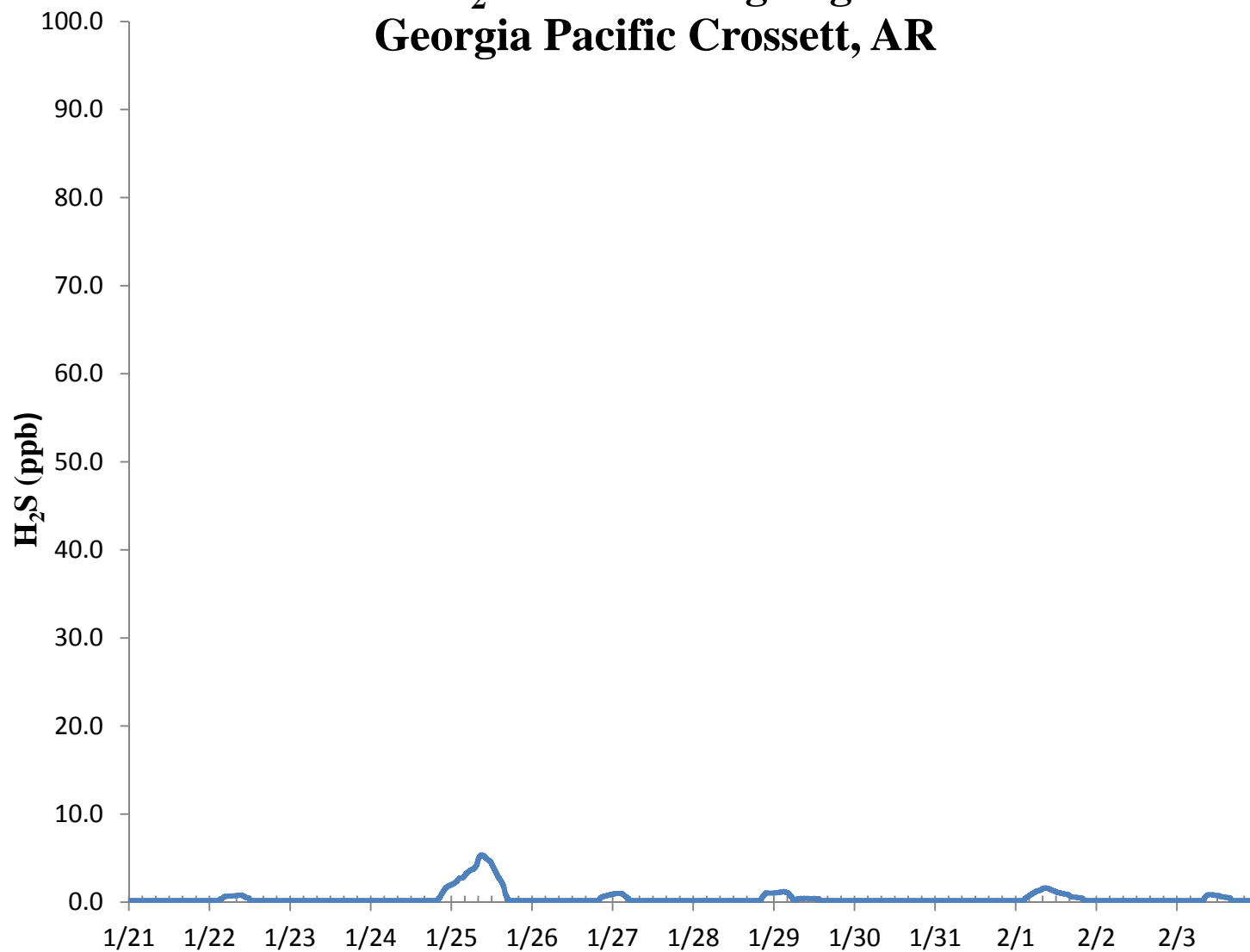
Air Measurements – Gainesville Office
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Email: jbowser@trcsolutions.com

CC: Ryan Benefield, ADEQ Director via email: benefield@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

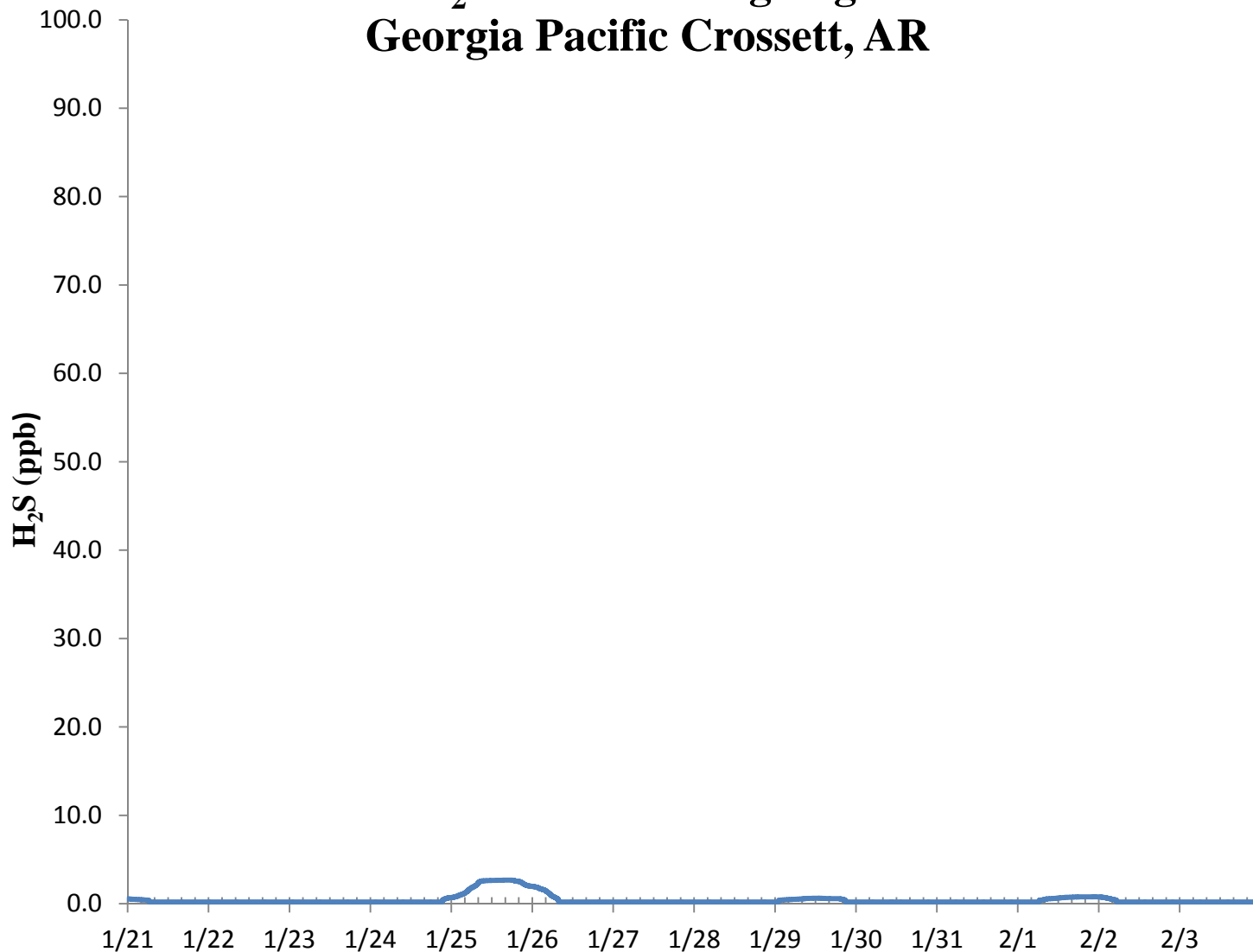
H₂S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H₂S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S Assessment

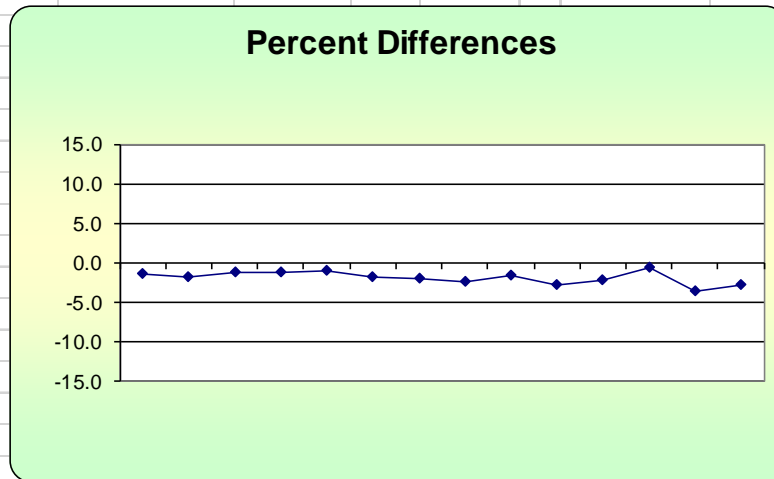
GP - Crossett, AR			Pollutant type: H ₂ S				CV _{ub} (%)	Bias (%)
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²	
1/21/2015 13:00	69.0	70.0	-1.4	-2.357	2.041	1.429	2.041	
1/22/2015 13:00	68.7	70.0	-1.9	75th Percentile	3.449	1.857	3.449	
1/23/2015 13:00	69.2	70.0	-1.1	-1.321	1.306	1.143	1.306	
1/24/2015 13:00	69.1	70.0	-1.3		1.653	1.286	1.653	
1/25/2015 13:00	69.3	70.0	-1.0		1.000	1.000	1.000	
1/26/2015 13:00	68.7	70.0	-1.9		3.449	1.857	3.449	
1/27/2015 13:00	68.6	70.0	-2.0		4.000	2.000	4.000	
1/28/2015 13:00	68.3	70.0	-2.4		5.898	2.429	5.898	
1/29/2015 13:00	68.9	70.0	-1.6		2.469	1.571	2.469	
1/30/2015 13:00	68.1	70.0	-2.7		7.367	2.714	7.367	
1/31/2015 13:00	68.5	70.0	-2.1		4.592	2.143	4.592	
2/1/2015 13:00	69.6	70.0	-0.6		0.327	0.571	0.327	
2/2/2015 13:00	67.5	70.0	-3.6		12.755	3.571	12.755	
2/3/2015 13:00	68.0	70.0	-2.9		8.163	2.857	8.163	

n	S_d	S_{d2}	Σ d 	"AB" (Eqn 4)
14	0.812	3.407	26.429	1.888
n-1	Σd	Σd²	Σ d ²	"AS" (Eqn 5)
13	-26.429	58.469	58.469	0.812

Bias (%) (Eqn 3)	Both Signs Positive
2.27	FALSE
Signed Bias (%)	Both Signs Negative
-2.27	TRUE

CV (%) (Eqn 2)	1.1
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Upper Probability Limit	Lower Probability Limit
-0.3	-3.48



Meteorological Summary

