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July 29, 2016

Ms. Lori Simmons  
Arkansas Department of Health  
4815 West Markham Street  
Little Rock, Arkansas 72205  
Via email [Lori.Simmons@arkansas.gov](mailto:Lori.Simmons@arkansas.gov)

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

Dear Ms. Simmons,

Following is the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of June 29<sup>th</sup> through July 12<sup>th</sup>.

Summary of Results

Included in this report are three plots presenting H<sub>2</sub>S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Please note, observed H<sub>2</sub>S concentrations were elevated on July 1<sup>st</sup>. The highest recorded 30-min and 8-hour rolling average concentrations on the 1<sup>st</sup> were 118.4 ppb and 56.3 ppb, respectively.

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 ± 10%, respectively. Precision and bias are calculated in accordance with 40 CFR Part 58 Appendix A, Section 4.1.

There were two minor occurrences of data loss during this two week period, other than those resulting from automated daily 1-point QC and weekly calibration checks. On the afternoon of June 29<sup>th</sup>, the calibration gas cylinder was replaced, followed by a manual calibration check, lasting approximately 30 minutes. On the afternoon of June 30<sup>th</sup>, a complete calibration was performed, interrupting the scheduled automated QC check, and resulting in loss of data for approximately one hour. Results for all available automated daily 1-point QC checks fall within the acceptable range, indicating the H<sub>2</sub>S monitor was operating in accordance with the QAPP.

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.



July 29, 2016

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

Sincerely,



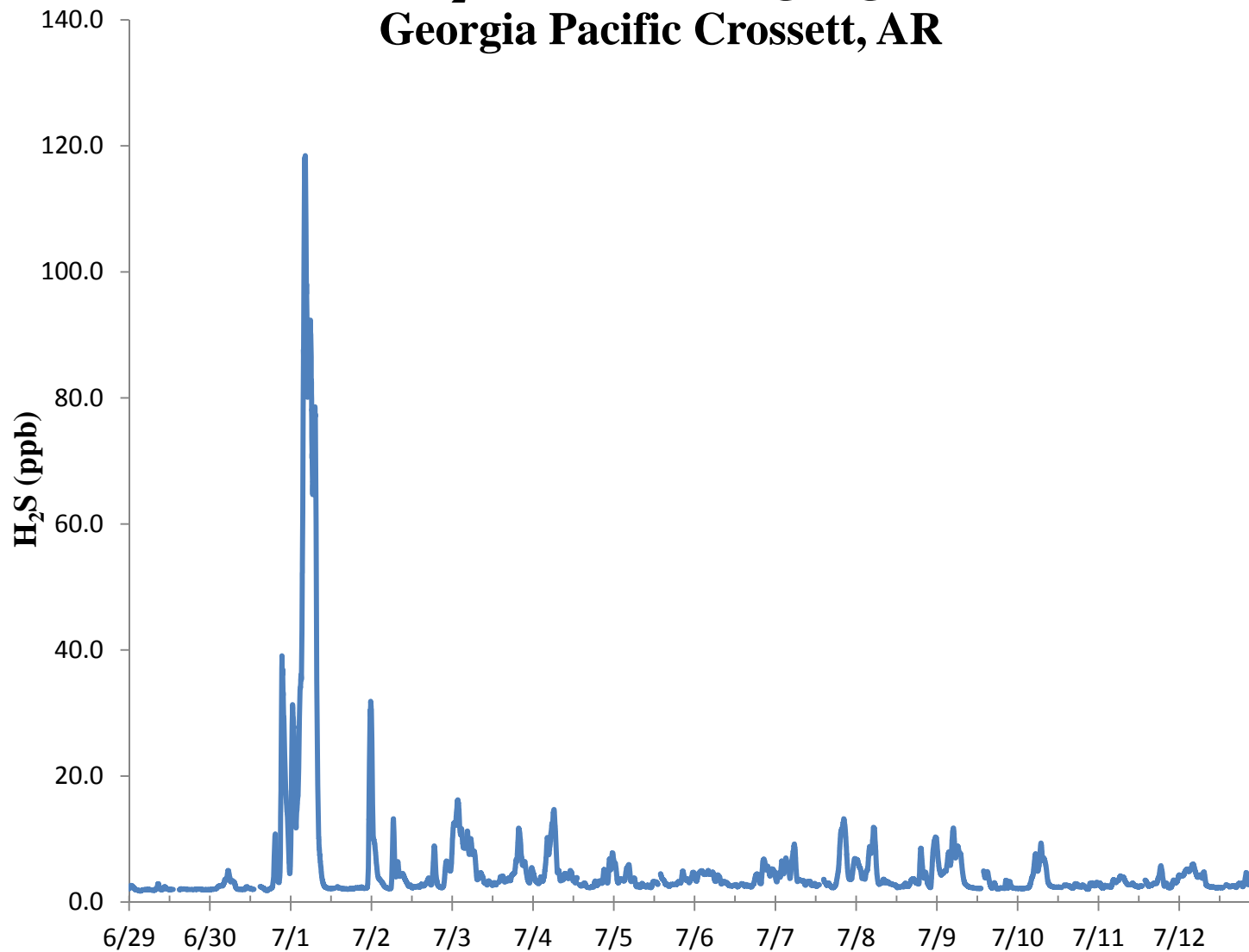
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

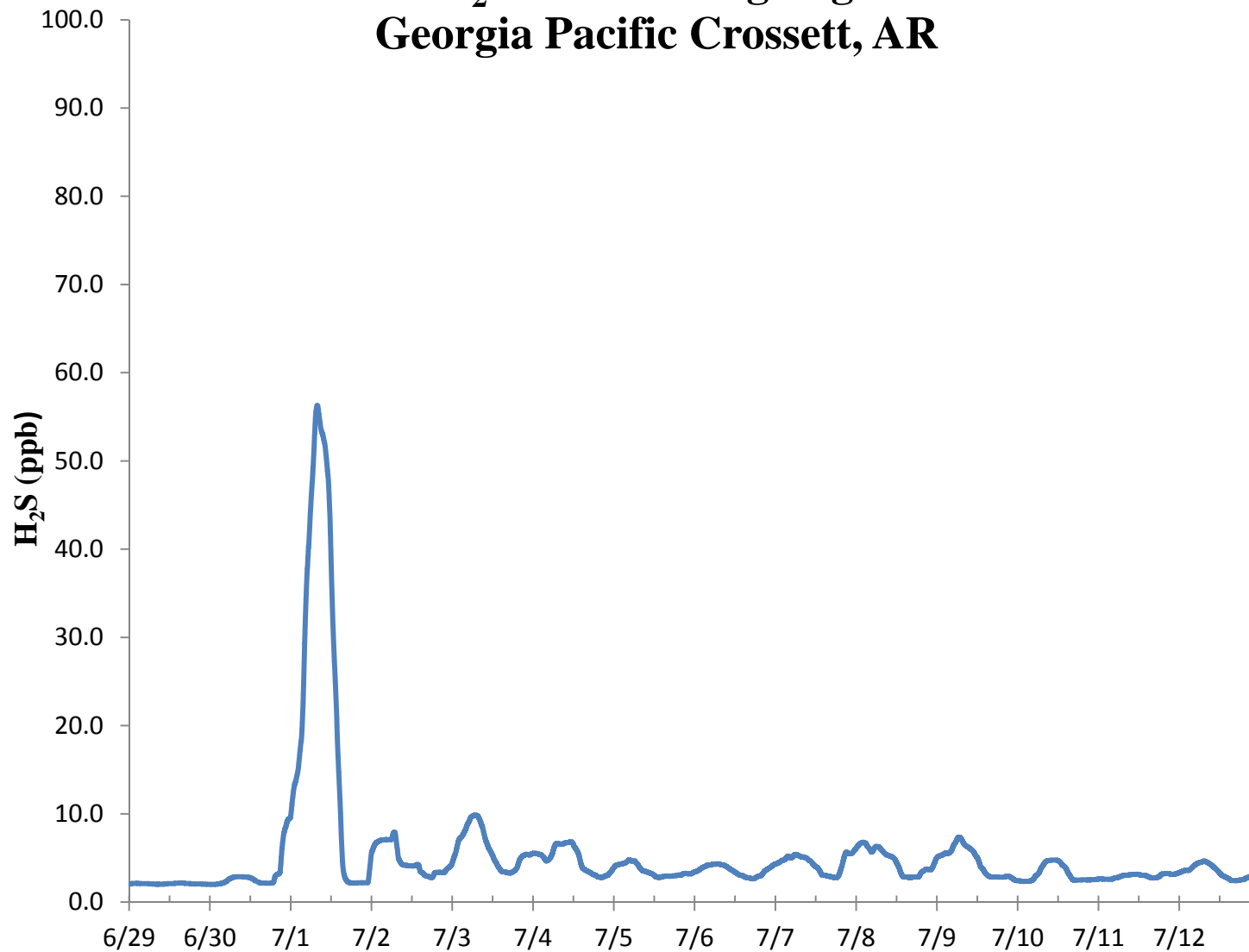
Air Measurements – Gainesville Office  
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(352) 260-1162  
Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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

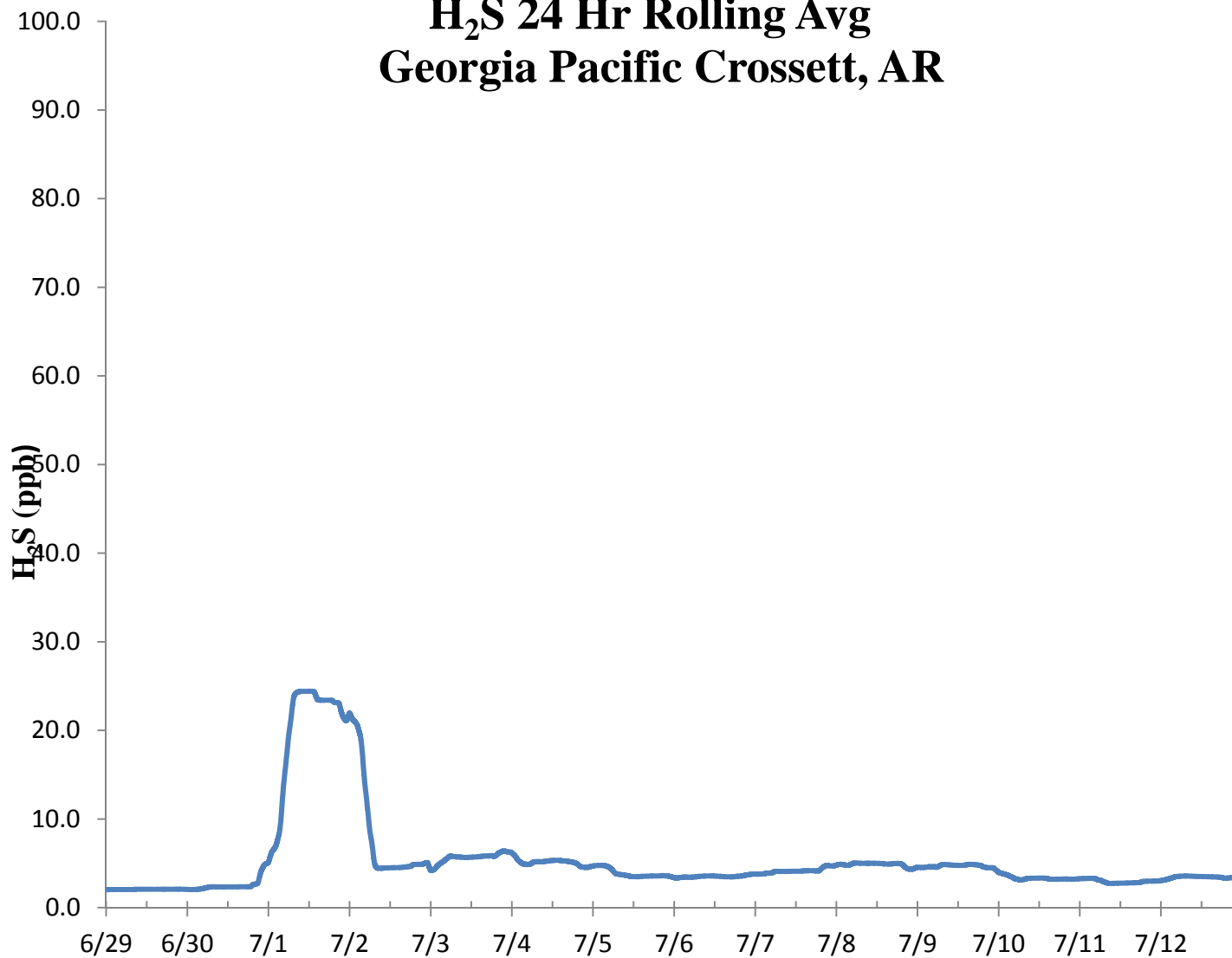
### H<sub>2</sub>S 30 Min Rolling Avg Georgia Pacific Crossett, AR



### H<sub>2</sub>S 8 Hr Rolling Avg Georgia Pacific Crossett, AR

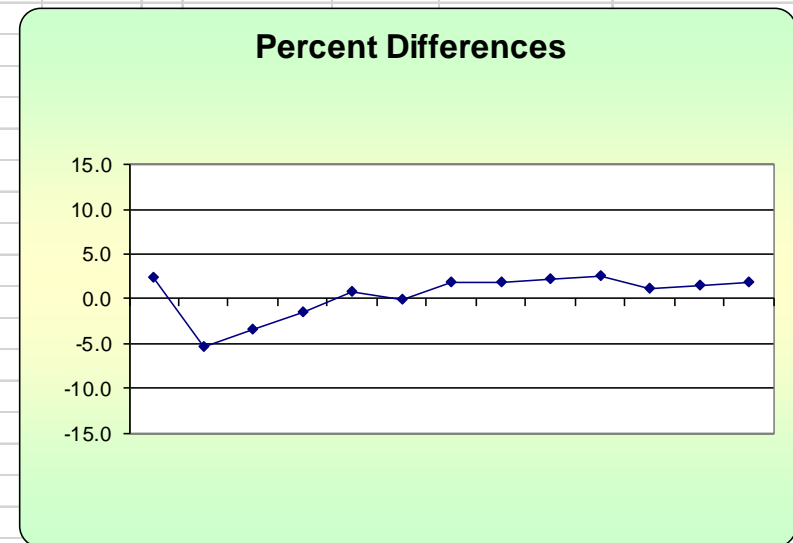


## H<sub>2</sub>S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



### H<sub>2</sub>S Assessment

GP - Crossett, AR			Constituent type: H <sub>2</sub> S					CV <sub>ub</sub> (%)	Bias (%)				
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d <sup>2</sup>	d	d  <sup>2</sup>						
6/29/2016 13:00	71.6	70.0	2.3	-0.143	5.224	2.286	5.224						
7/1/2016 13:00	66.3	70.0	-5.3	<b>75th Percentile</b>	27.939	5.286	27.939	<b>n</b>	<b>S<sub>d</sub></b>	<b>S<sub>d2</sub></b>	<b>Σ d </b>	<b>"AB" (Eqn 4)</b>	
7/2/2016 13:00	67.6	70.0	-3.4	1.857	11.755	3.429	11.755	13	2.420	7.365	26.286	2.022	
7/3/2016 13:00	69.0	70.0	-1.4		2.041	1.429	2.041	<b>n-1</b>	<b>Σd</b>	<b>Σd<sup>2</sup></b>	<b>Σ d <sup>2</sup></b>	<b>"AS" (Eqn 5)</b>	
7/4/2016 13:00	70.5	70.0	0.7		0.510	0.714	0.510	12	5.714	72.816	72.816	1.280	
7/5/2016 13:00	69.9	70.0	-0.1		0.020	0.143	0.020						
7/6/2016 13:00	71.3	70.0	1.9		3.449	1.857	3.449					<b>Bias (%) (Eqn 3)</b>	Both Signs Positive
7/7/2016 13:00	71.3	70.0	1.9		3.449	1.857	3.449					2.65	FALSE
7/8/2016 13:00	71.5	70.0	2.1		4.592	2.143	4.592	<b>CV (%) (Eqn 2)</b>				<b>Signed Bias (%)</b>	Both Signs Negative
7/9/2016 13:00	71.8	70.0	2.6		6.612	2.571	6.612	3.34				+/-2.65	FALSE
7/10/2016 13:00	70.8	70.0	1.1		1.306	1.143	1.306						
7/11/2016 13:00	71.1	70.0	1.6		2.469	1.571	2.469	<b>Upper Probability Limit</b>				<b>Lower Probability Limit</b>	
7/12/2016 13:00	71.3	70.0	1.9		3.449	1.857	3.449	5.18				-4.3	



Meteorological Summary

