

July 7, 2016



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July 7, 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 15<sup>th</sup> through June 28<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 June 26<sup>th</sup>. The highest recorded 30-min and 8-hour rolling average concentrations on the 26<sup>th</sup> were 83.6 ppb and 33.3 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 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 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.

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



July 7, 2016

Sincerely,



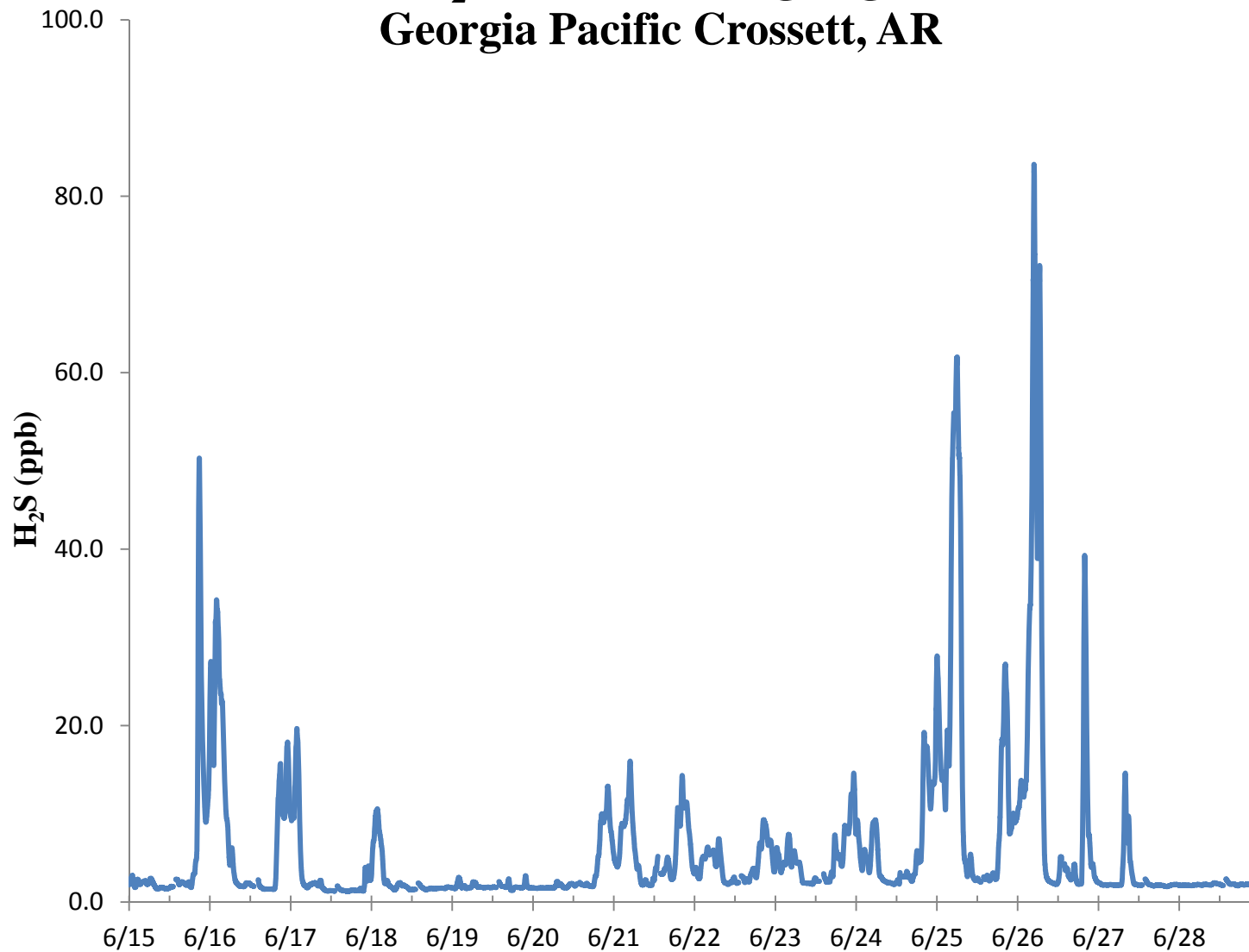
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

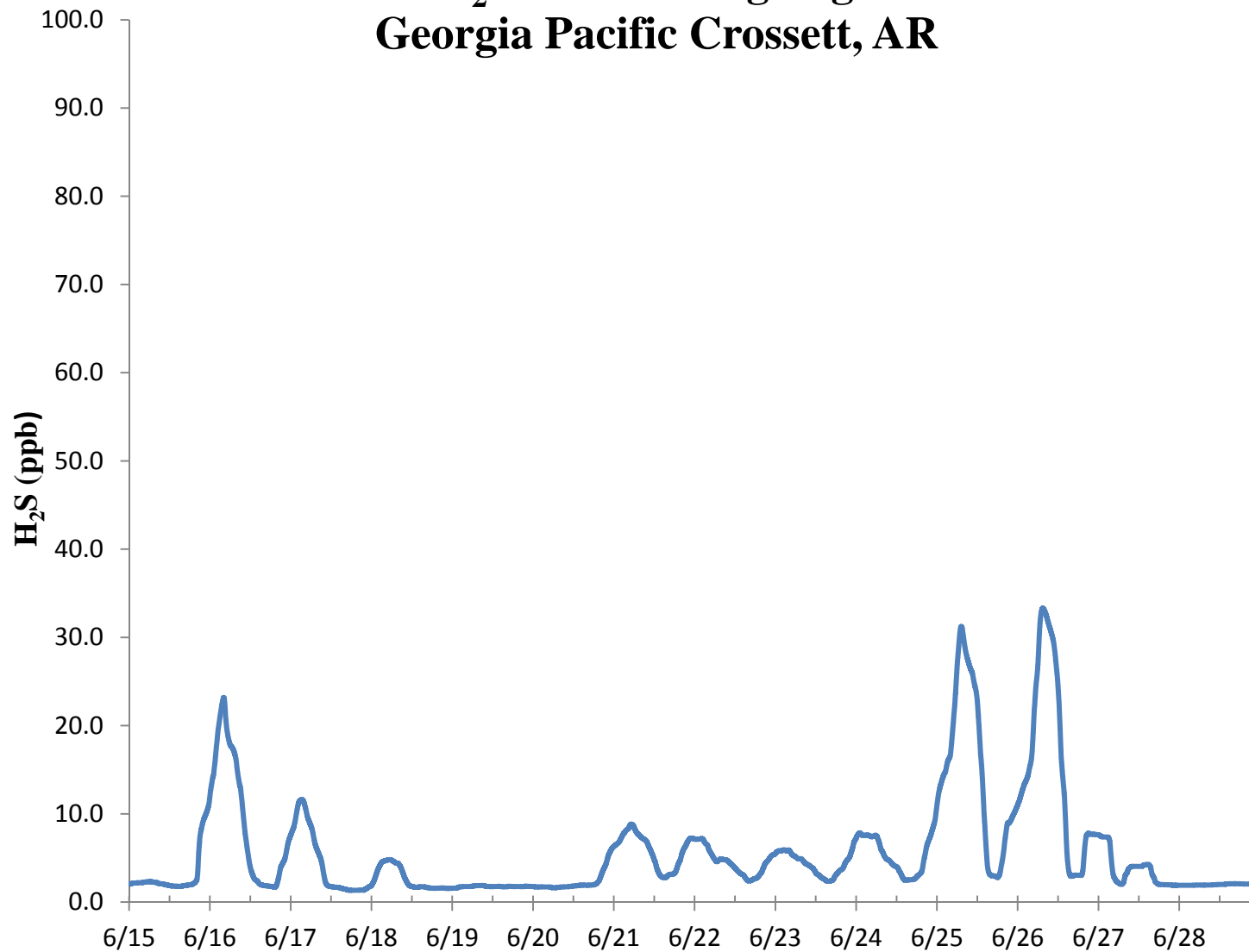
Air Measurements – Gainesville Office  
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Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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)

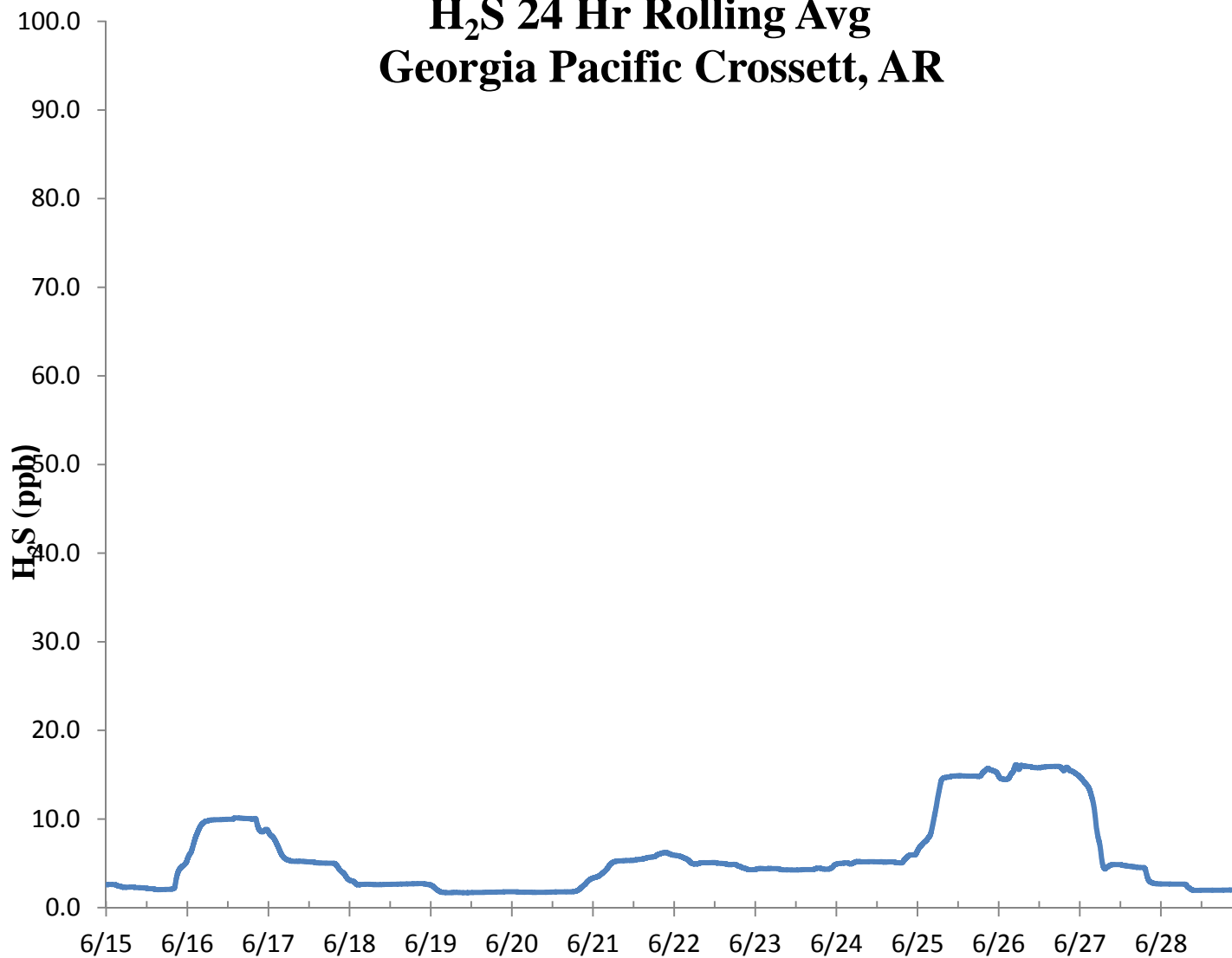
### H<sub>2</sub>S 30 Min Rolling Avg Georgia Pacific Crossett, AR



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

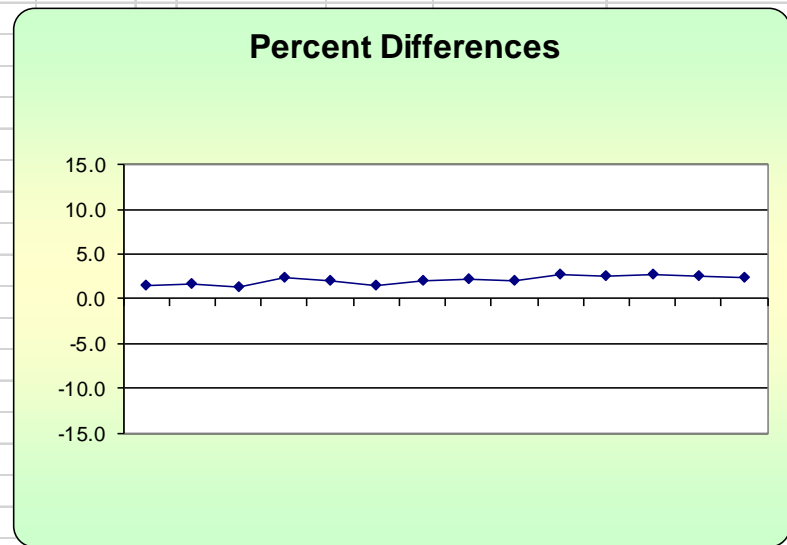


## H<sub>2</sub>S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



### 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>		
6/15/2016 13:00	71.0	70.0	1.4	1.786	2.041	1.429	2.041		
6/16/2016 13:00	71.2	70.0	1.7	<b>75th Percentile</b>	2.939	1.714	2.939		
6/17/2016 13:00	70.9	70.0	1.3	2.536	1.653	1.286	1.653	<b>n</b>	<b>S<sub>d</sub></b>
6/18/2016 13:00	71.6	70.0	2.3		5.224	2.286	5.224	14	0.474
6/19/2016 13:00	71.4	70.0	2.0		4.000	2.000	4.000	<b>n-1</b>	<b>Σd</b>
6/20/2016 13:00	71.1	70.0	1.6		2.469	1.571	2.469	13	29.429
6/21/2016 13:00	71.4	70.0	2.0		4.000	2.000	4.000		<b>S<sub>d2</sub></b>
6/22/2016 13:00	71.5	70.0	2.1		4.592	2.143	4.592		1.943
6/23/2016 13:00	71.4	70.0	2.0		4.000	2.000	4.000		<b>Σ d </b>
6/24/2016 13:00	71.9	70.0	2.7		7.367	2.714	7.367		29.429
6/25/2016 13:00	71.8	70.0	2.6		6.612	2.571	6.612		<b>Σd<sup>2</sup></b>
6/26/2016 13:00	71.9	70.0	2.7		7.367	2.714	7.367		64.776
6/27/2016 13:00	71.8	70.0	2.6		6.612	2.571	6.612		<b>Σ d <sup>2</sup></b>
6/28/2016 13:00	71.7	70.0	2.4		5.898	2.429	5.898		64.776
									<b>"AB" (Eqn 4)</b>
									2.102
									<b>"AS" (Eqn 5)</b>
									0.474
									<b>Bias (%) (Eqn 3)</b>
									2.33
									Both Signs Positive
									TRUE
									<b>Signed Bias (%)</b>
									+2.33
									Both Signs Negative
									FALSE
									<b>CV (%) (Eqn 2)</b>
									0.64
									<b>Upper Probability Limit</b>
									3.03
									<b>Lower Probability Limit</b>
									1.17



Meteorological Summary

