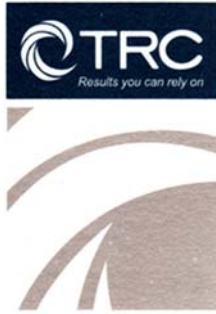


August 25, 2017



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August 25, 2017

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 July 26, 2017 through August 8, 2017.

#### 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).

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.

Additionally, weekly automated zero adjustments have been put in place beginning February 1, 2017, so as to limit the effect of the analyzer's zero drift. During this reporting period there were a total of two zero checks performed; all within the acceptable range of ± 1.5 ppb, as defined in the QAPP. Results for these zero checks are presented below.

Date	Zero Check
7/27/2017	0.8
8/3/2017	0.5

There were multiple occurrences of data loss during this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. There was a PC failure in the early morning hours of July 26<sup>th</sup>. The PC was reset and data was recovered from the instrument beginning at 7:44 AM. On July 27<sup>th</sup> and August 3<sup>rd</sup> manual multipoint calibration checks were



August 25, 2017

performed to supplement the automated checks. As a result approximately an hour and a half of data were lost on both days. These results were used in calculating the CV as shown in the table that follows. Results for 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.

Sincerely,



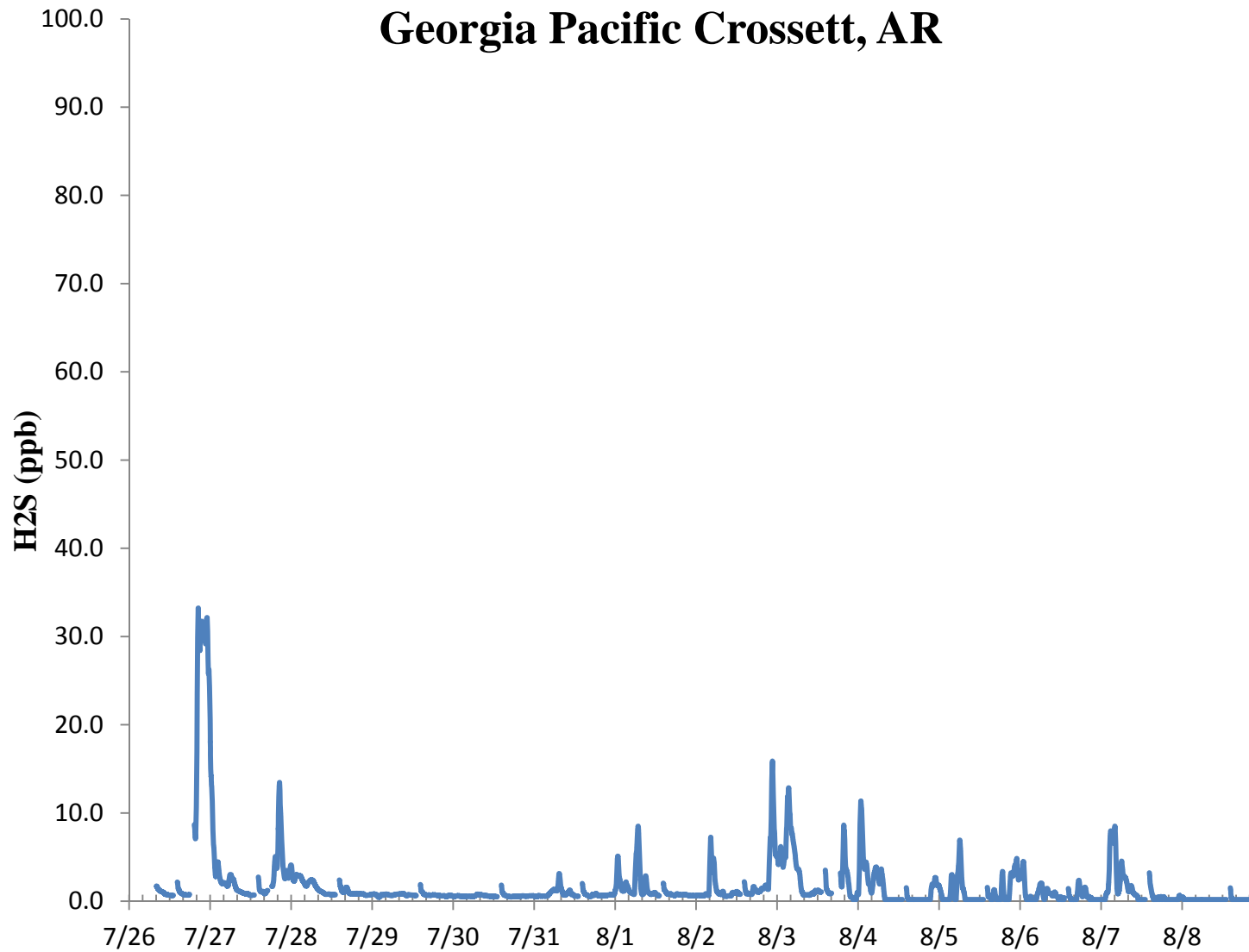
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

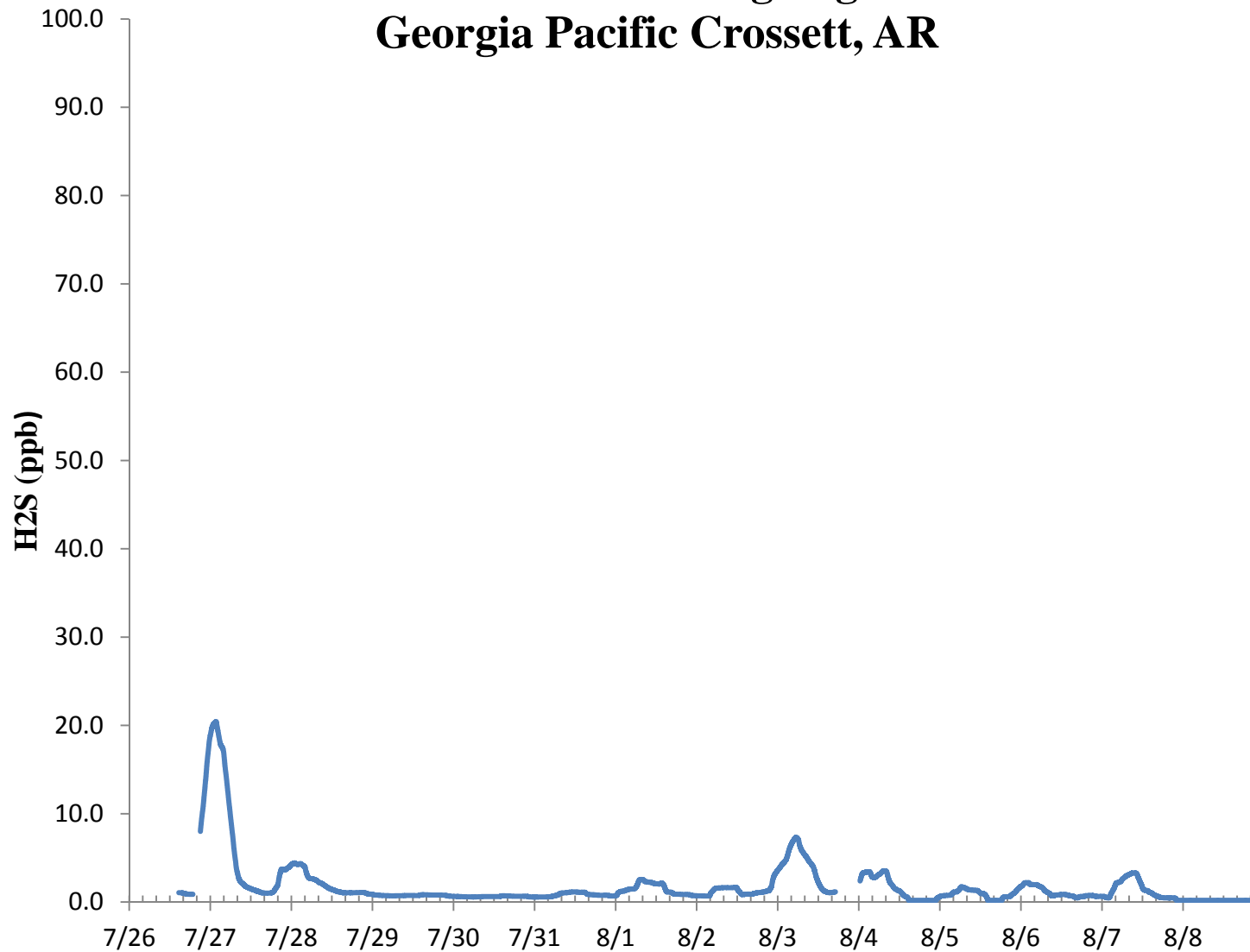
Air Measurements – Gainesville Office  
6312 NW 18th Drive, Suite 100  
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Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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)

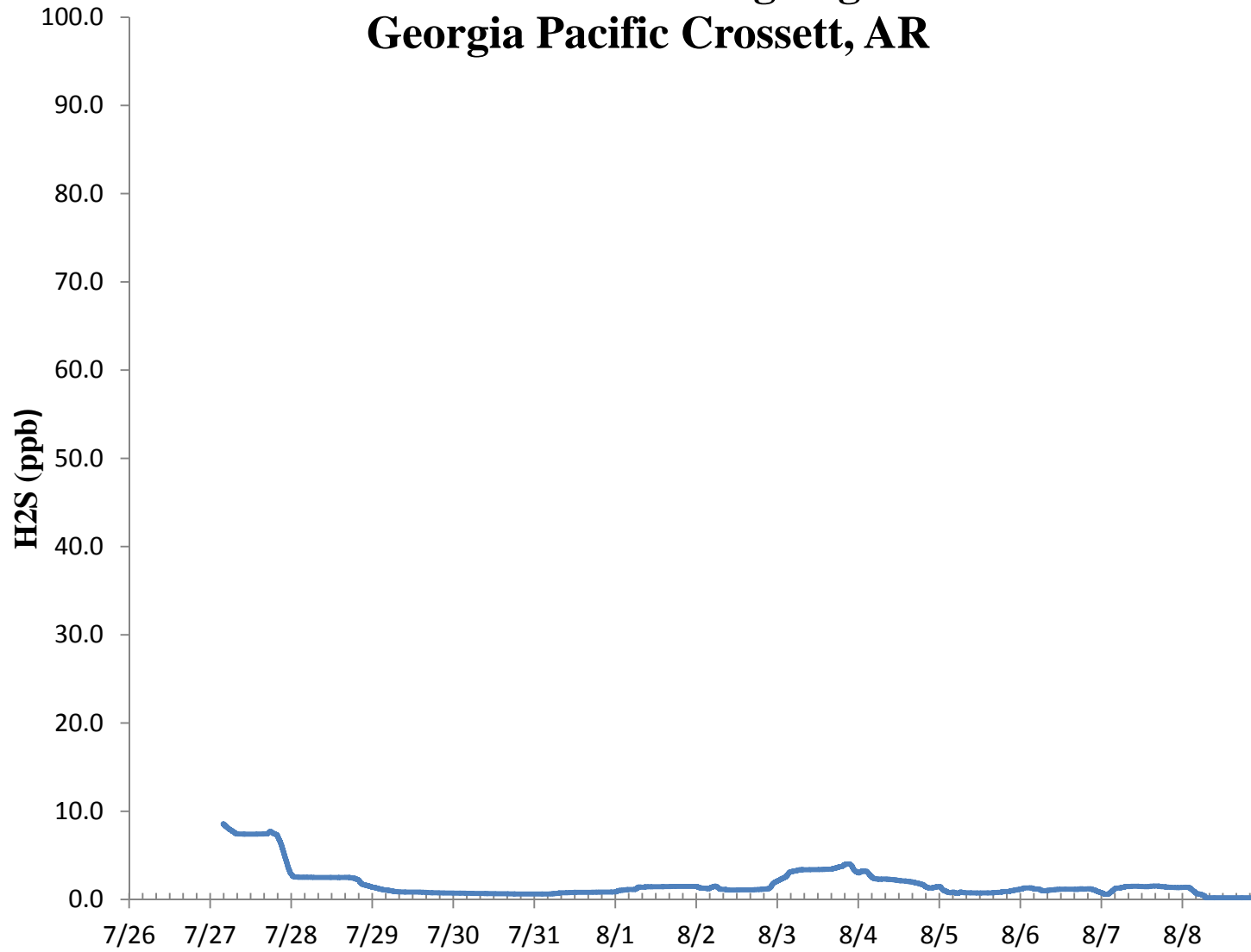
## H2S 30 Min Rolling Avg Georgia Pacific Crossett, AR



## H2S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



## H2S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



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

GP - Crossett, AR			Compound of Interest: 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>		
7/26/2017 13:00	71.2	70.0	1.7	0.607	2.939	1.714	2.939		
7/27/2017 13:00	71.7	70.0	2.4	75th Percentile	5.898	2.429	5.898		
7/28/2017 13:00	71.3	70.0	1.9	1.679	3.449	1.857	3.449		
7/29/2017 13:00	70.5	70.0	0.7		0.510	0.714	0.510		
7/30/2017 13:00	71.2	70.0	1.7		2.939	1.714	2.939		
7/31/2017 13:00	70.4	70.0	0.6		0.327	0.571	0.327		
8/1/2017 13:00	70.6	70.0	0.9		0.735	0.857	0.735		
8/2/2017 13:00	70.4	70.0	0.6		0.327	0.571	0.327		
8/3/2017 13:00	71.1	70.0	1.6		2.469	1.571	2.469		
8/4/2017 13:00	70.1	70.0	0.1		0.020	0.143	0.020		
8/5/2017 13:00	70.5	70.0	0.7		0.510	0.714	0.510		
8/6/2017 13:00	70.5	70.0	0.7		0.510	0.714	0.510		
8/7/2017 13:00	70.3	70.0	0.4		0.184	0.429	0.184		
8/8/2017 13:00	70.7	70.0	1.0		1.000	1.000	1.000		

<b>n</b>	<b>S<sub>d</sub></b>	<b>S<sub>d2</sub></b>	<b>Σ d </b>	<b>"AB" (Eqn 4)</b>
14	0.665	1.724	15.000	1.071
<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>
13	15.000	21.816	21.816	0.665

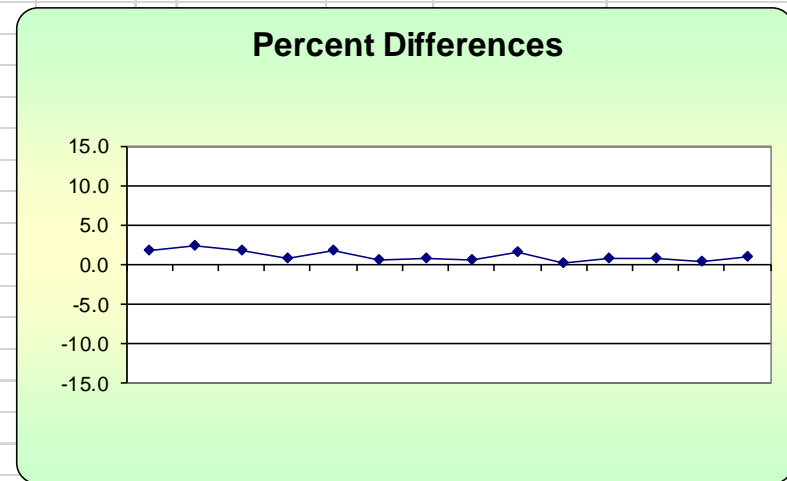
<b>Bias (%) (Eqn 3)</b>	Both Signs Positive
1.39	TRUE
<b>Signed Bias (%)</b>	Both Signs Negative
+1.39	FALSE

<b>CV (%) (Eqn 2)</b>	
0.9	

<b>Upper Probability Limit</b>	<b>Lower Probability Limit</b>
2.37	-0.23



Meteorological Summary

