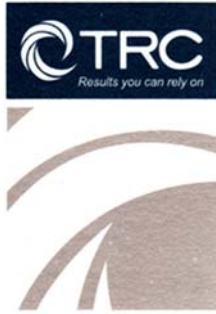


August 7, 2018



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August 7, 2018

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,

Please find the following biweekly report for the Georgia-Pacific (GP) Crossett Mill hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program covering the calendar period of July 11, 2018 through July 24, 2018.

#### Summary of Results

Included in this report are three plots presenting H<sub>2</sub>S 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 H<sub>2</sub>S regarding precision and bias expressed 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. 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, ± 10%, indicating the H<sub>2</sub>S monitor was operating in accordance with MQOs as stated in the QAPP.

During this reporting period two automated zero checks were performed. The result for these zero checks are presented below.



<b>Date</b>	<b>Zero Check Response (ppb)</b>
7/13/2018	0.9
7/20/2018	0.9

Data Capture

There were no occurrences of H<sub>2</sub>S data loss this monitoring period, other than those resulting from automated daily 1-point QC and weekly calibration checks.

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,



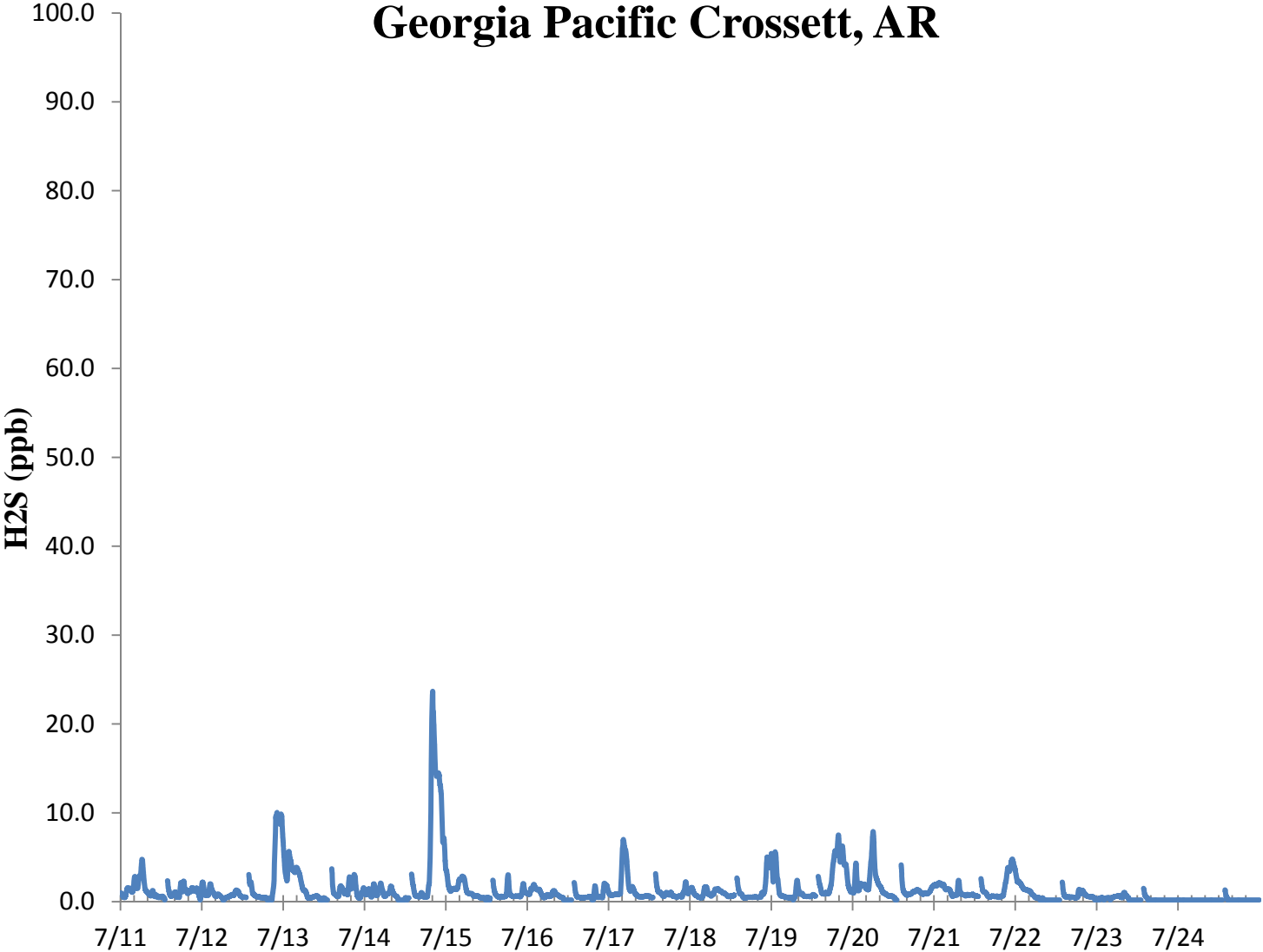
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

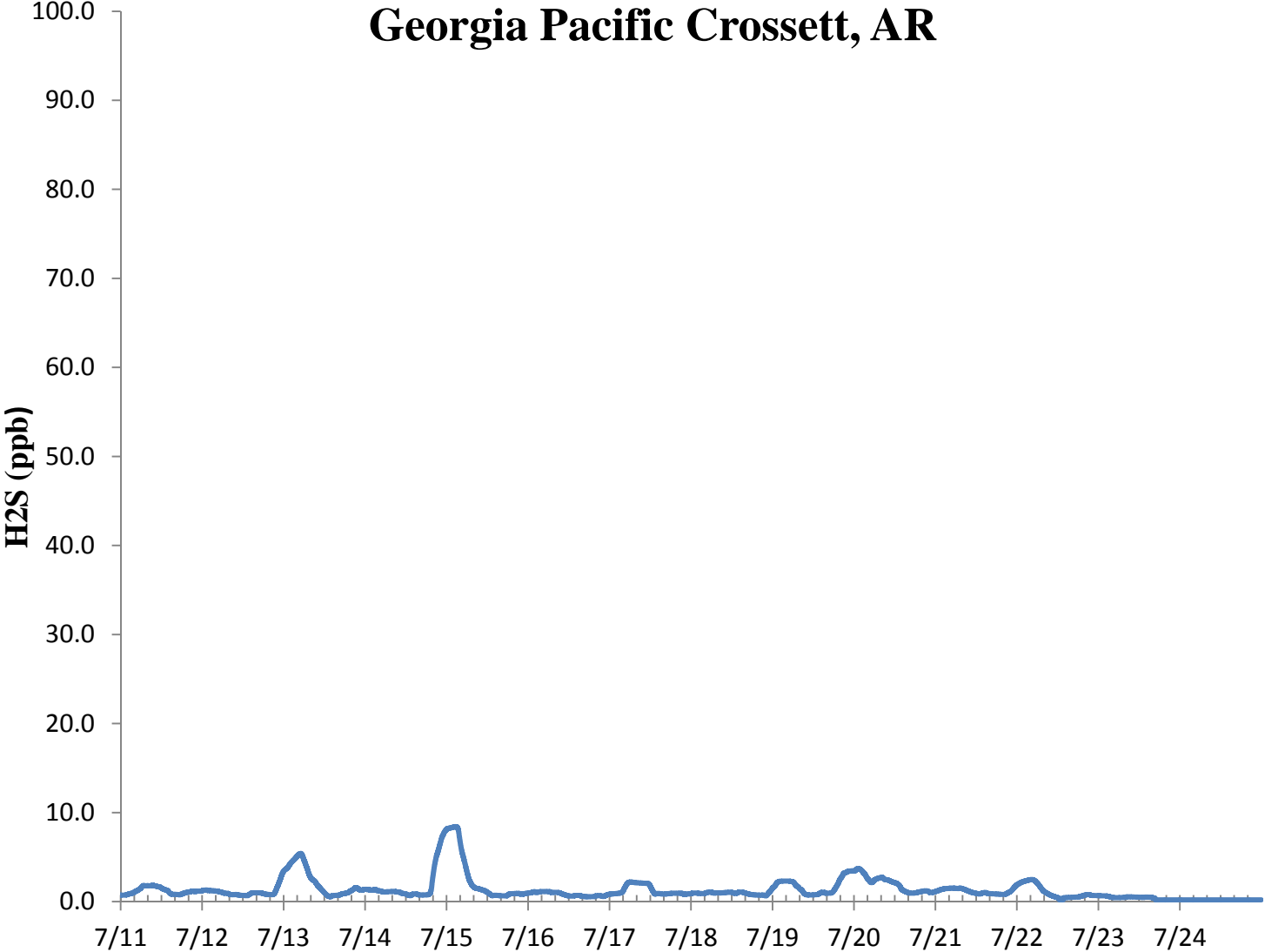
Air Measurements – Gainesville Office  
6312 NW 18th Drive, Suite 100  
Gainesville, Florida 32653  
(352) 260-1162  
Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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)

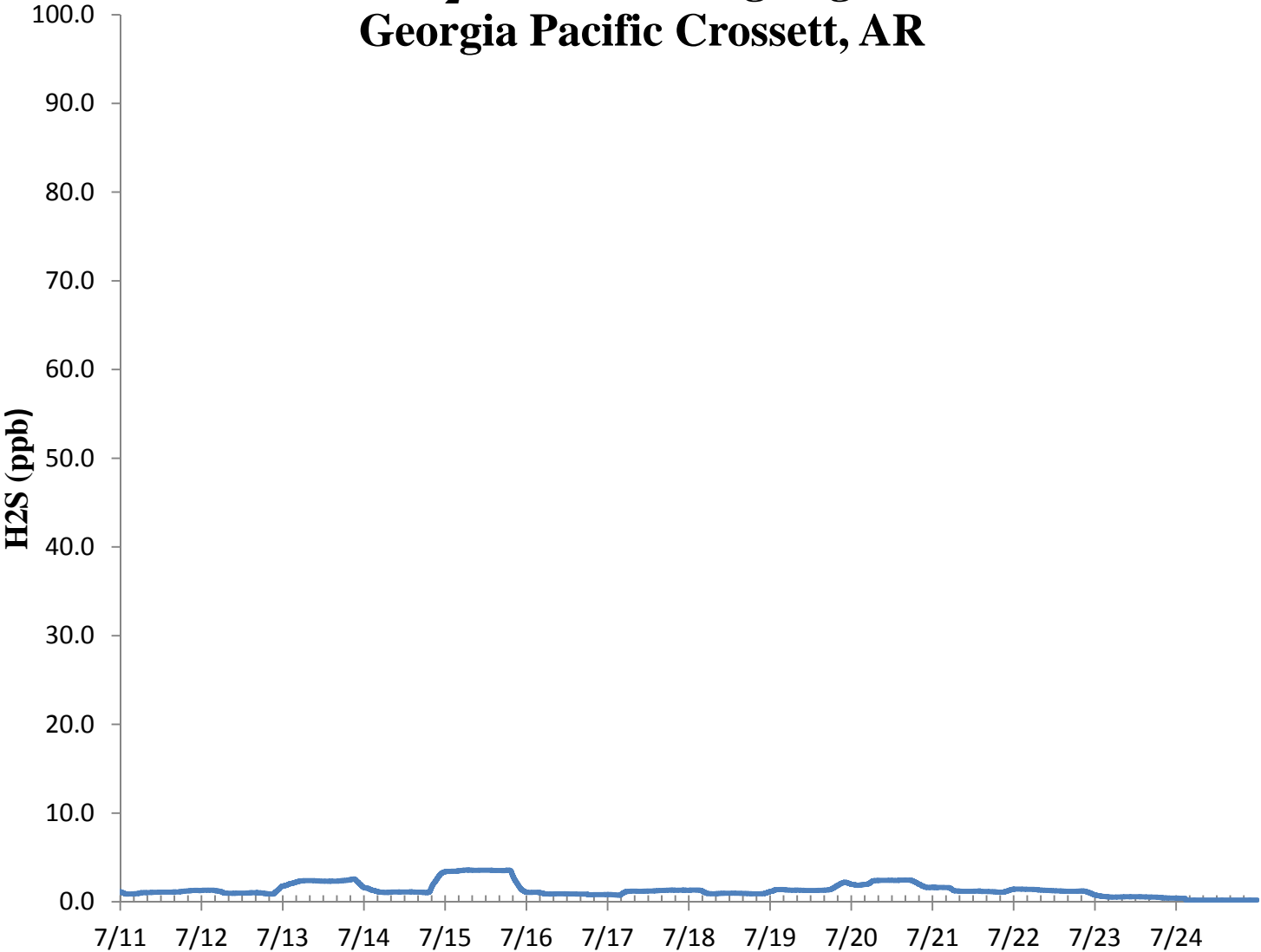
### H<sub>2</sub>S 30 Min Rolling Avg Georgia Pacific Crossett, AR



### 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			Compound of Interest: H <sub>2</sub> S			CV <sub>ub</sub> (%)	Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d <sup>2</sup>	d	d  <sup>2</sup>	
7/11/2018 13:00	72.5	70.0	3.6	2.857	12.755	3.571	12.755	
7/12/2018 13:00	72.0	70.0	2.9	75th Percentile	8.163	2.857	8.163	
7/13/2018 13:00	72.5	70.0	3.6	3.857	12.755	3.571	12.755	
7/14/2018 13:00	72.5	70.0	3.6		12.755	3.571	12.755	
7/15/2018 13:00	72.7	70.0	3.9		14.878	3.857	14.878	
7/16/2018 13:00	72.7	70.0	3.9		14.878	3.857	14.878	
7/17/2018 13:00	72.5	70.0	3.6		12.755	3.571	12.755	
7/18/2018 13:00	72.8	70.0	4.0		16.000	4.000	16.000	
7/19/2018 13:00	72.7	70.0	3.9		14.878	3.857	14.878	
7/20/2018 13:00	72.0	70.0	2.9		8.163	2.857	8.163	
7/21/2018 13:00	72.7	70.0	3.9		14.878	3.857	14.878	
7/22/2018 13:00	71.7	70.0	2.4		5.898	2.429	5.898	
7/23/2018 13:00	71.2	70.0	1.7		2.939	1.714	2.939	
7/24/2018 13:00	69.0	70.0	-1.4		2.041	1.429	2.041	

n	S <sub>d</sub>	S <sub>d2</sub>	Σ d	"AB" (Eqn 4)
14	1.438	4.681	45.000	3.214
n-1	Σd	Σd <sup>2</sup>	Σ d  <sup>2</sup>	"AS" (Eqn 5)
13	42.143	153.735	153.735	0.836

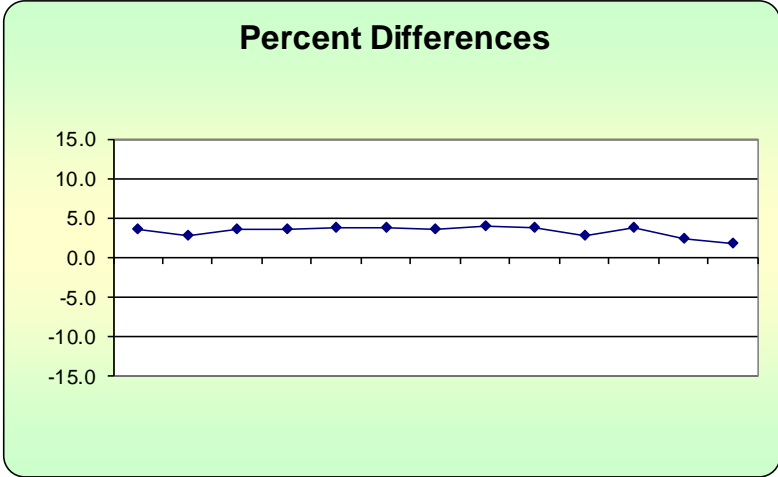
Bias (%) (Eqn 3)	Both Signs Positive
3.61	TRUE
Signed Bias (%)	Both Signs Negative
+3.61	FALSE

CV (%) (Eqn 2)	1.95
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Upper Probability Limit	Lower Probability Limit
5.83	0.19



Meteorological Summary

