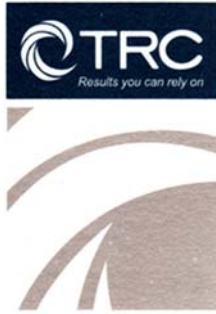


April 21, 2017



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April 21, 2017

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 the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H₂S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of March 22, 2017 through April 4, 2017.

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). Please note, elevated H₂S concentrations were recorded on March 22nd, 26th, and 31st. The highest recorded 30-minute and 8-hour rolling averages are presented in the table below.

Date	Maximum Concentrations and Time Recorded	
	30 minute	8 hour
March 22, 2017	73.4 ppb at 00:06 – 00:07	40.8 ppb at 00:37 – 02:03
March 26, 2017	89.8 ppb at 02:42	29.5 ppb at 07:22 – 07:34
March 31, 2017	73.9 ppb at 01:32 – 01:33	18.7 at 06:11 – 08:04

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 adjustment have been put in place beginning February 1, 2017, so as to limit the effect of the analyzer's zero drift. There were a total of two zero checks performed during this biweekly report period; both within the acceptable range of ± 1.5 ppb, as defined in the



QAPP. Results for these zero checks are presented below.

Date	Zero Check
3/23/2017	0.3
3/30/2017	0.3

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. A LAN connection failure occurred in the evening of March 24th. The connection was reset the following morning; resulting in approximately four hours of data loss. On the evening of March 27th a calibration of the H₂S analyzer was performed along with routine diagnostic checks, resulting in approximately six hours of data loss. Lastly, a power outage on April 2nd was responsible for 13 hours of data loss. Results for available automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S 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. Routine maintenance of the met sensors on March 27th caused a brief period of missing met data. The majority of met parameters were lost for only 15 minutes, while replacement and calibration of the tipping bucket resulted in almost two hours of lost precipitation data.

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

Sincerely,

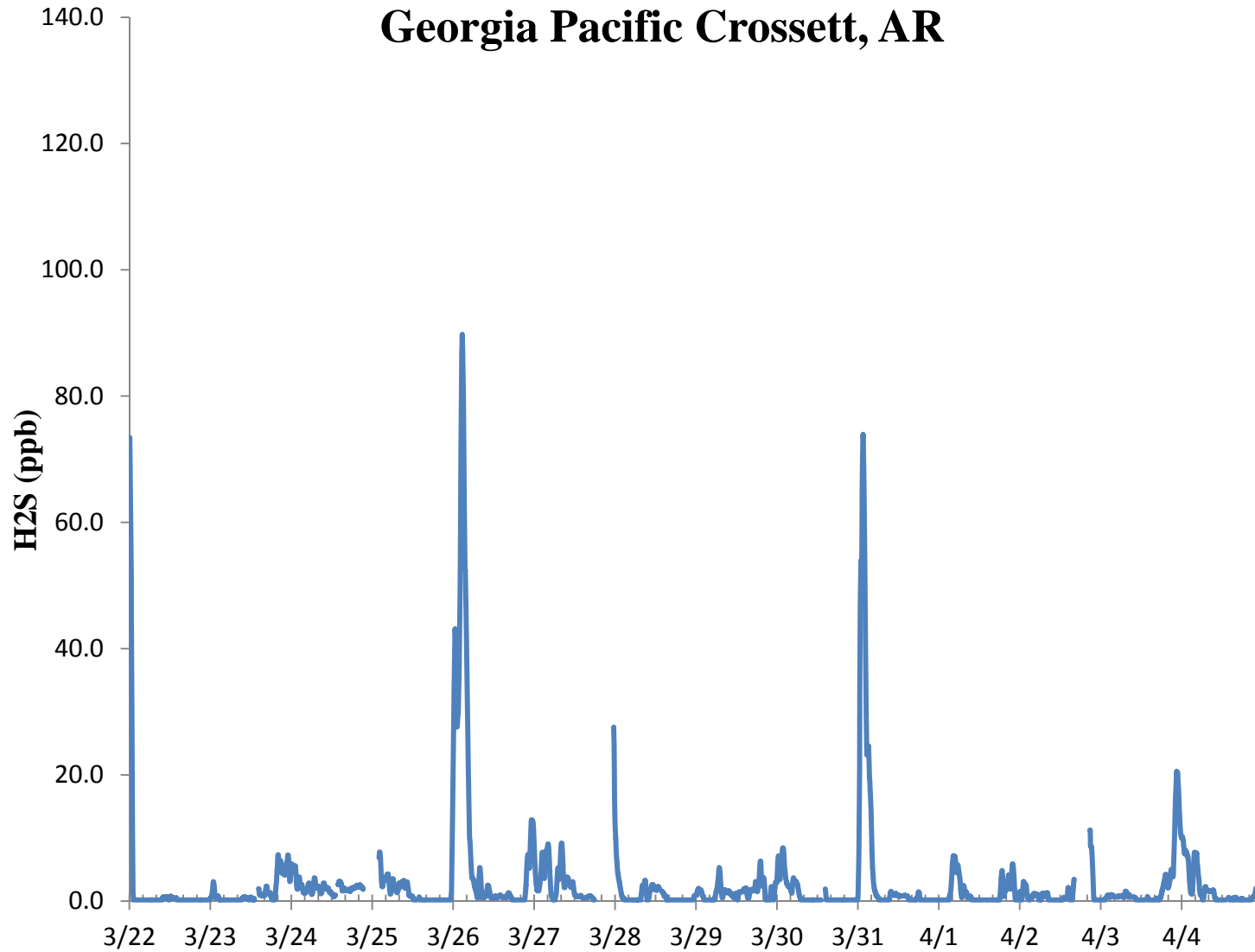


Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

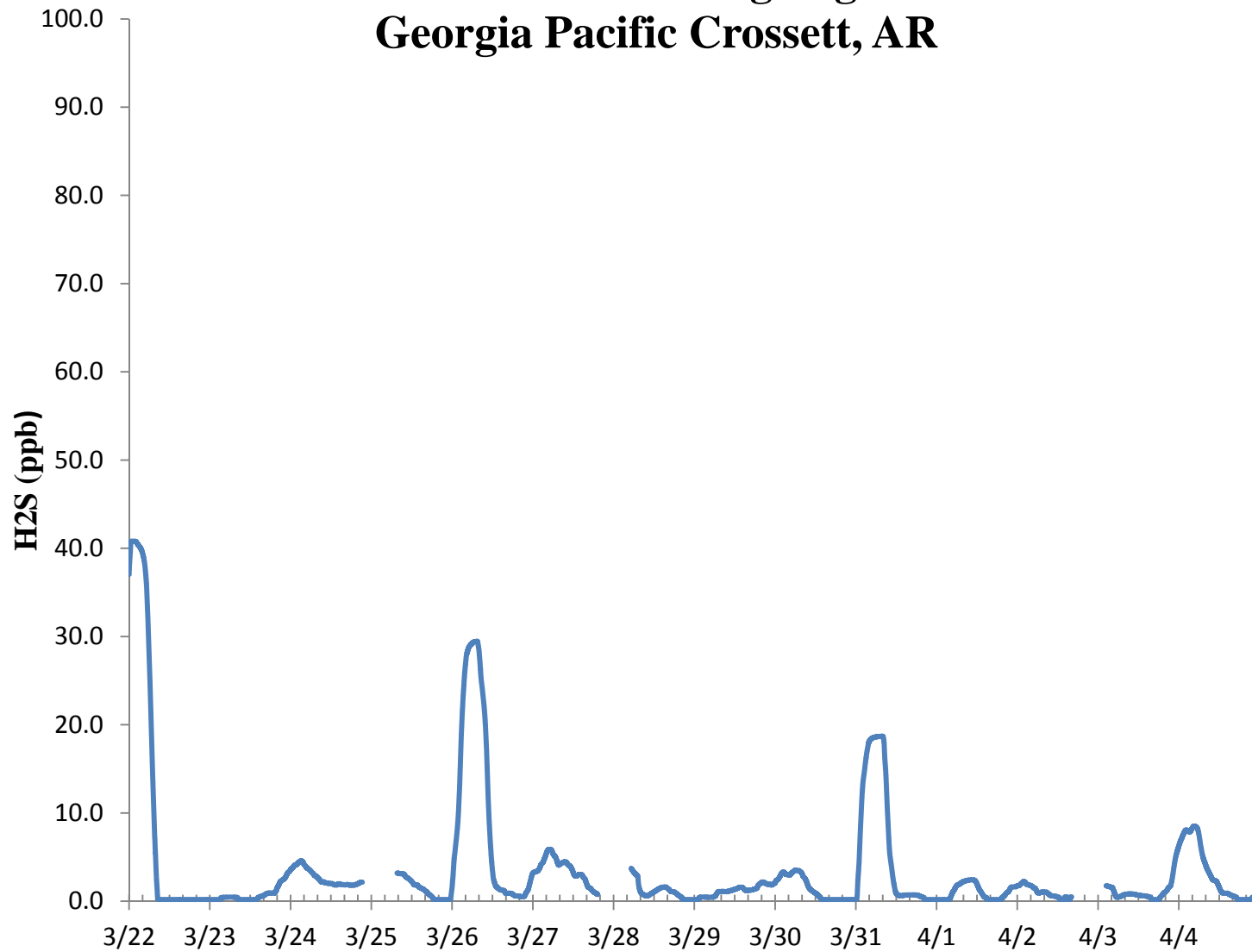
Air Measurements – Gainesville Office
6312 NW 18th Drive, Suite 100
Gainesville, Florida 32653
(352) 260-1162
Email: jbowser@trcsolutions.com

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

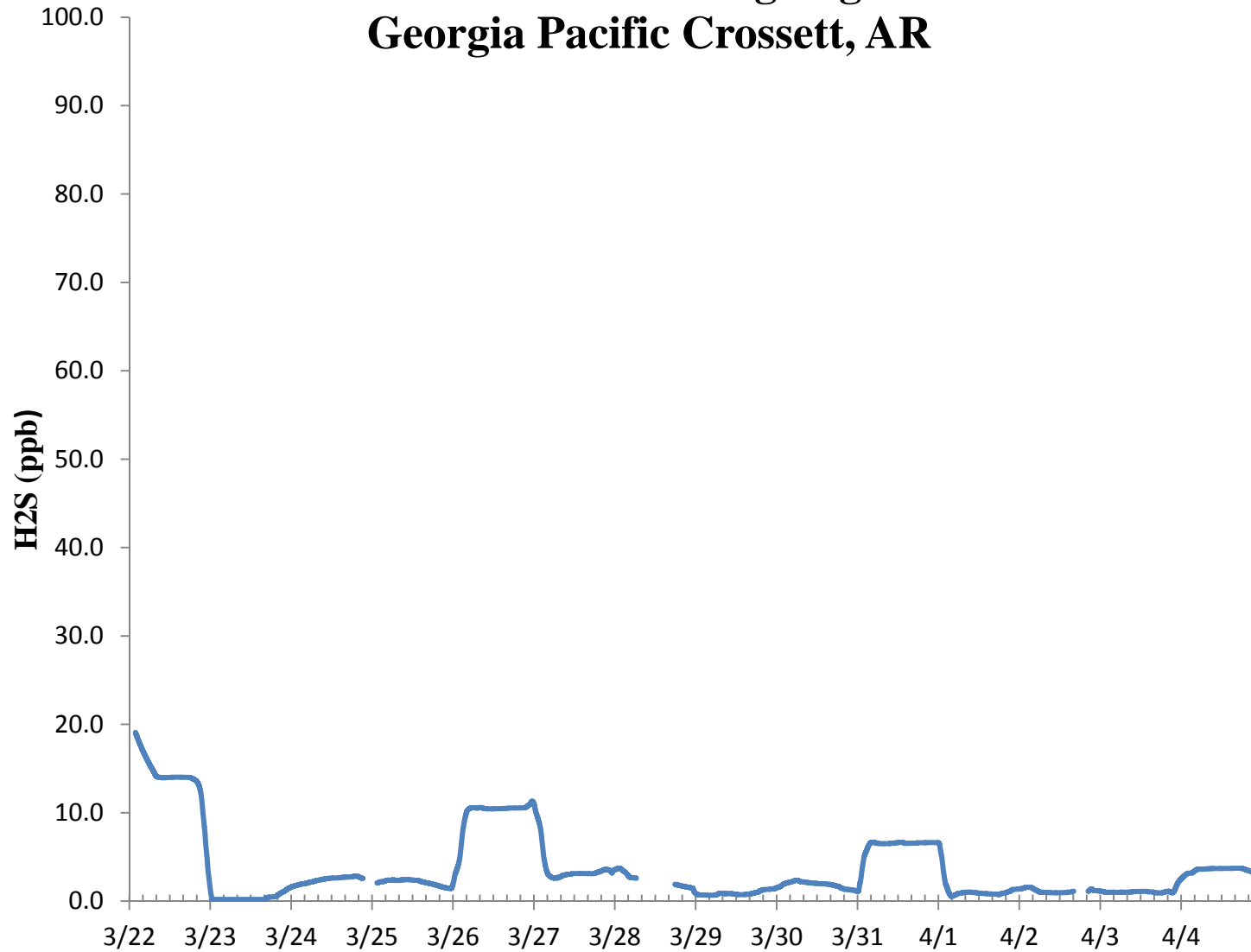
H2S 30 Min Rolling Avg Georgia Pacific Crossett, AR



H2S 8 Hr Rolling Avg Georgia Pacific Crossett, AR



H2S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



H₂S Assessment

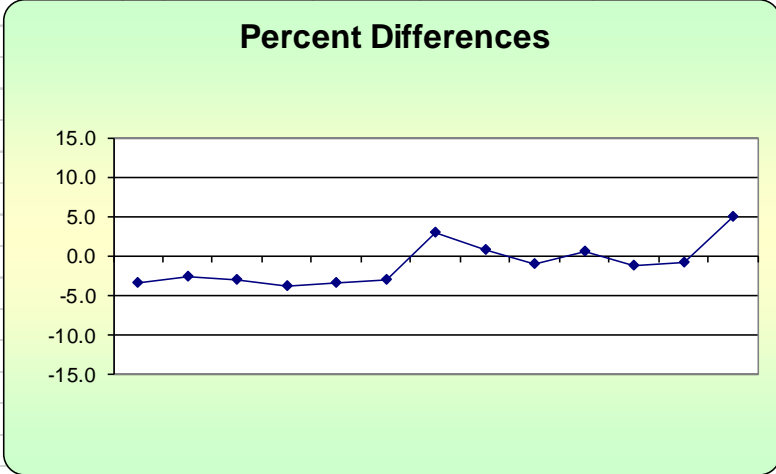
GP - Crossett, AR			Compound of Interest: H ₂ S				CV _{ub} (%)	Bias (%)
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²	
3/22/2017 13:00	67.6	70.0	-3.4	-3.000	11.755	3.429	11.755	
3/23/2017 13:00	68.2	70.0	-2.6	75th Percentile	6.612	2.571	6.612	
3/24/2017 13:00	67.9	70.0	-3.0	0.679	9.000	3.000	9.000	
3/25/2017 13:00	67.3	70.0	-3.9		14.878	3.857	14.878	
3/26/2017 13:00	67.6	70.0	-3.4		11.755	3.429	11.755	
3/27/2017 13:00	67.9	70.0	-3.0		9.000	3.000	9.000	
3/28/2017 13:00	72.1	70.0	3.0		9.000	3.000	9.000	
3/29/2017 13:00	70.5	70.0	0.7		0.510	0.714	0.510	
3/30/2017 13:00	69.3	70.0	-1.0		1.000	1.000	1.000	
3/31/2017 13:00	70.4	70.0	0.6		0.327	0.571	0.327	
4/1/2017 13:00	69.1	70.0	-1.3		1.653	1.286	1.653	
4/2/2017 13:00	69.4	70.0	-0.9		0.735	0.857	0.735	
4/3/2017 13:00	73.5	70.0	5.0		25.000	5.000	25.000	
4/4/2017 13:00	73.9	70.0	5.6		31.041	5.571	31.041	

n	S_d	S_{d2}	Σ d 	"AB" (Eqn 4)
14	3.140	9.315	37.286	2.663
n-1	Σd	Σd²	Σ d ²	"AS" (Eqn 5)
13	-7.571	132.265	132.265	1.592

Bias (%) (Eqn 3)	Both Signs Positive
3.42	FALSE
Signed Bias (%)	Both Signs Negative
+/-3.42	FALSE

CV (%) (Eqn 2)	4.27
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Upper Probability Limit	Lower Probability Limit
5.61	-6.7



Meteorological Summary

