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November 18, 2016

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 (H_2S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of November 2nd through November 15th.

Summary of Results

Included in this report are three plots presenting H_2S concentrations calculated with varied rolling average periods (30-minute, 8-hour, and 24-hour). Please note, observed H_2S concentrations were elevated on November 14th and 15th. The highest 30-minute average concentration on the 14th was 88.71 ppb and 162.57 ppb on the 15th.

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 was a single occurrences of data loss, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A combination of PC and connection failures caused an extended period of data loss beginning the evening of November 12th. The connections were re-established the morning of November 13th, resulting in approximately15 ½ hours of data loss. Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H_2S monitor was operating in accordance with the QAPP. Please note, TRC will be performing routine maintenance and calibrations the week of November 28th.

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,

Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

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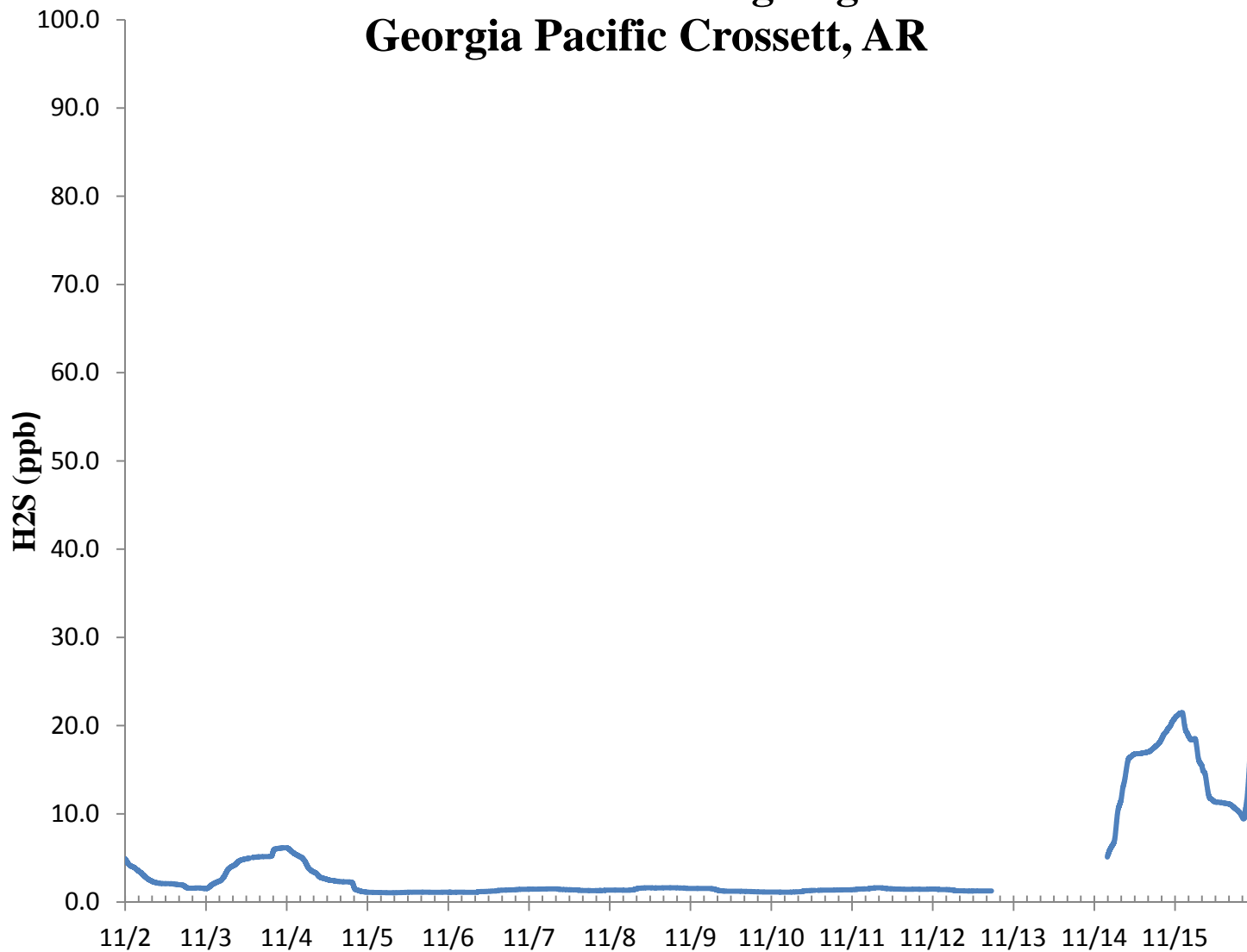   Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
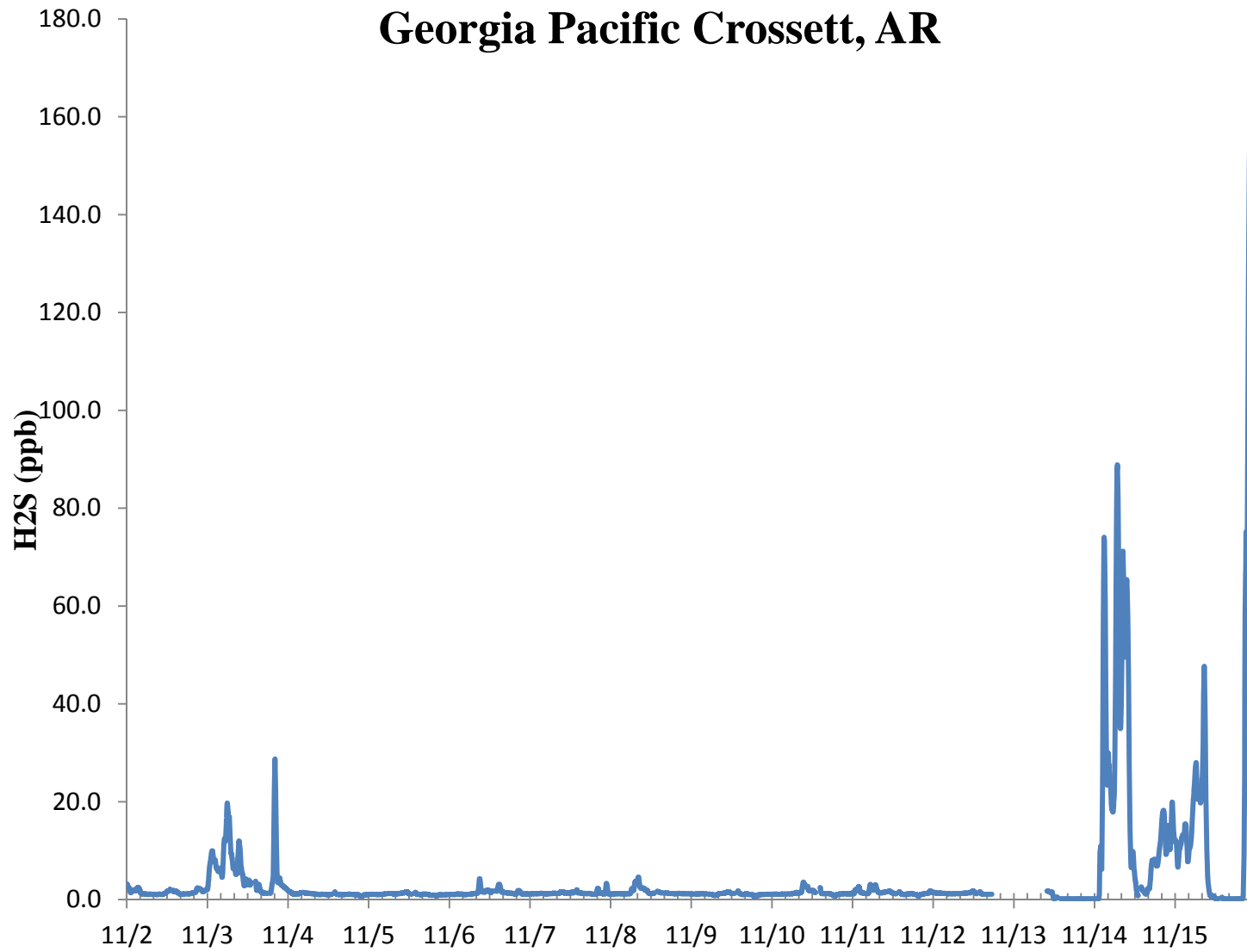
H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
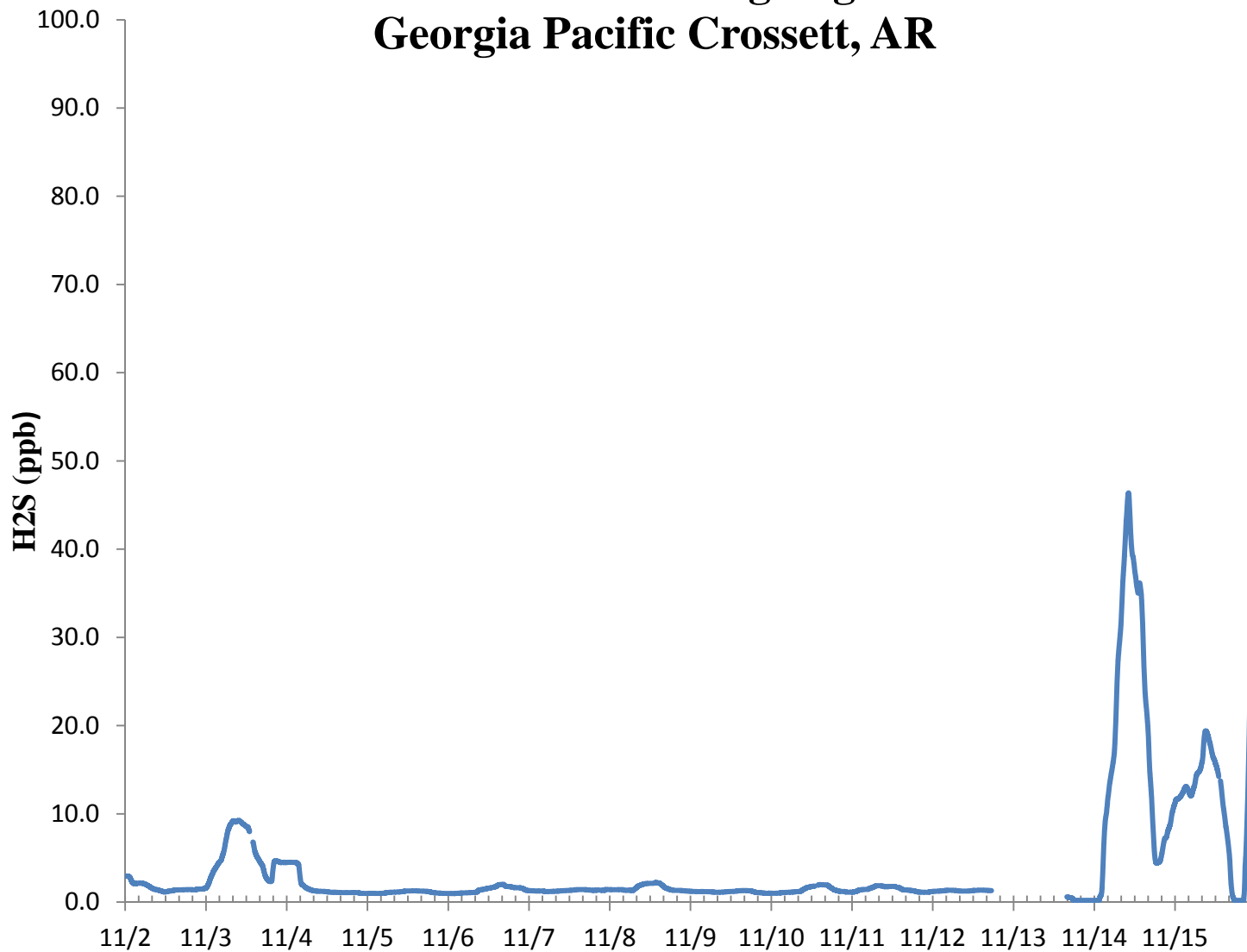
H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR

H$_2$S Assessment

Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d^2	|d|	|d|^2	CV$_{ub}$ (%)			Bias (%)	
	GP - Crossett, AR			Compound of Interest: H$_2$S								
11/2/2016 13:00	68.5	70.0	-2.1	-5.536	4.592	2.143	4.592					
11/3/2016 13:00	69.1	70.0	-1.3	75th Percentile	1.653	1.286	1.653	n	S$_d$	S$_{d2}$	Σ|d|	"AB" (Eqn 4)
11/4/2016 13:00	68.0	70.0	-2.9	-4.179	8.163	2.857	8.163	14	1.844	17.153	68.143	4.867
11/5/2016 13:00	66.1	70.0	-5.6		31.041	5.571	31.041	n-1	Σd	Σd^2	Σ|d|^2	"AS" (Eqn 5)
11/6/2016 13:00	67.1	70.0	-4.1		17.163	4.143	17.163	13	-68.143	375.857	375.857	1.844
11/7/2016 13:00	66.7	70.0	-4.7		22.224	4.714	22.224					
11/8/2016 13:00	67.0	70.0	-4.3		18.367	4.286	18.367				Bias (%) (Eqn 3)	Both Signs Positive
11/9/2016 13:00	66.3	70.0	-5.3		27.939	5.286	27.939				5.74	FALSE
11/10/2016 13:00	64.7	70.0	-7.6		57.327	7.571	57.327	CV (%) (Eqn 2)			Signed Bias (%)	Both Signs Negative
11/11/2016 13:00	66.2	70.0	-5.4		29.469	5.429	29.469	2.5			-5.74	TRUE
11/12/2016 13:00	65.4	70.0	-6.6		43.184	6.571	43.184					
11/13/2016 13:00	64.7	70.0	-7.6		57.327	7.571	57.327	Upper Probability Limit		Lower Probability Limit		
11/14/2016 13:00	66.2	70.0	-5.4		29.469	5.429	29.469	-1.25		-8.48		
11/15/2016 13:00	66.3	70.0	-5.3		27.939	5.286	27.939					

Percent Differences

TRC
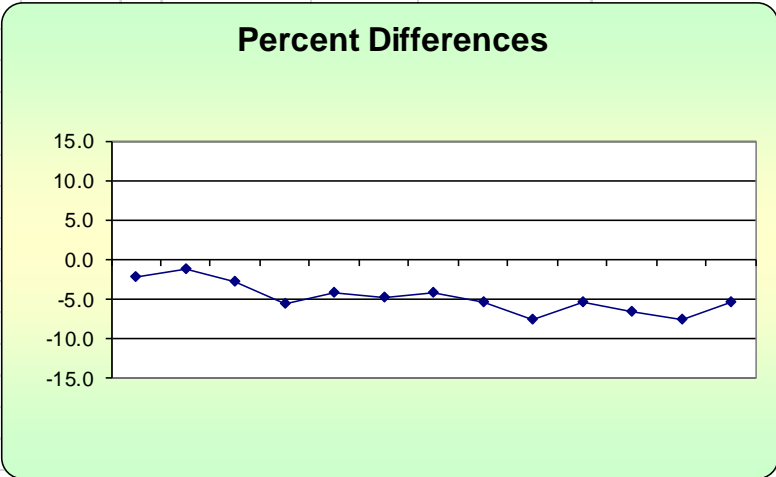
Meteorological Summary

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