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October 23, 2014

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 a data summary for the first two weeks of operation of the Georgia-Pacific (GP) hydrogen sulfide (H₂S) and meteorological monitoring program at the GP Crossett mill. The initial report provides a brief discussion of the background and measurement results. Subsequent reports will only contain data plots and a QC summary.

Background

The GP Crossett mill is working in cooperation with the State of Arkansas Department of Environmental Quality (ADEQ) and the U.S. Environmental Protection Agency (EPA) to conduct fence line monitoring for H₂S adjacent to the mill's wastewater treatment plant in an attempt to address community concerns with odors.

TRC is currently operating H₂S and meteorological monitoring stations in the vicinity of the Crossett mill. TRC submitted a Quality Assurance Project Plan (QAPP) to Georgia-Pacific on September 12, 2014 (Revised October 2, 2014). Georgia-Pacific submitted the QAPP to EPA Region VI for review and comment on October 09, 2014. TRC is operating these stations in accordance with that Plan. Monitoring for H₂S at the Crossett mill began October 1, 2014. This report provides a summary of measurement data for the period of October 1, 2014 through October 14, 2014.

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). 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.

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.

There were no periods 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 automated daily 1-point QC checks fall within the acceptable range, indicating the H₂S monitor was operating in accordance with the QAPP. 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

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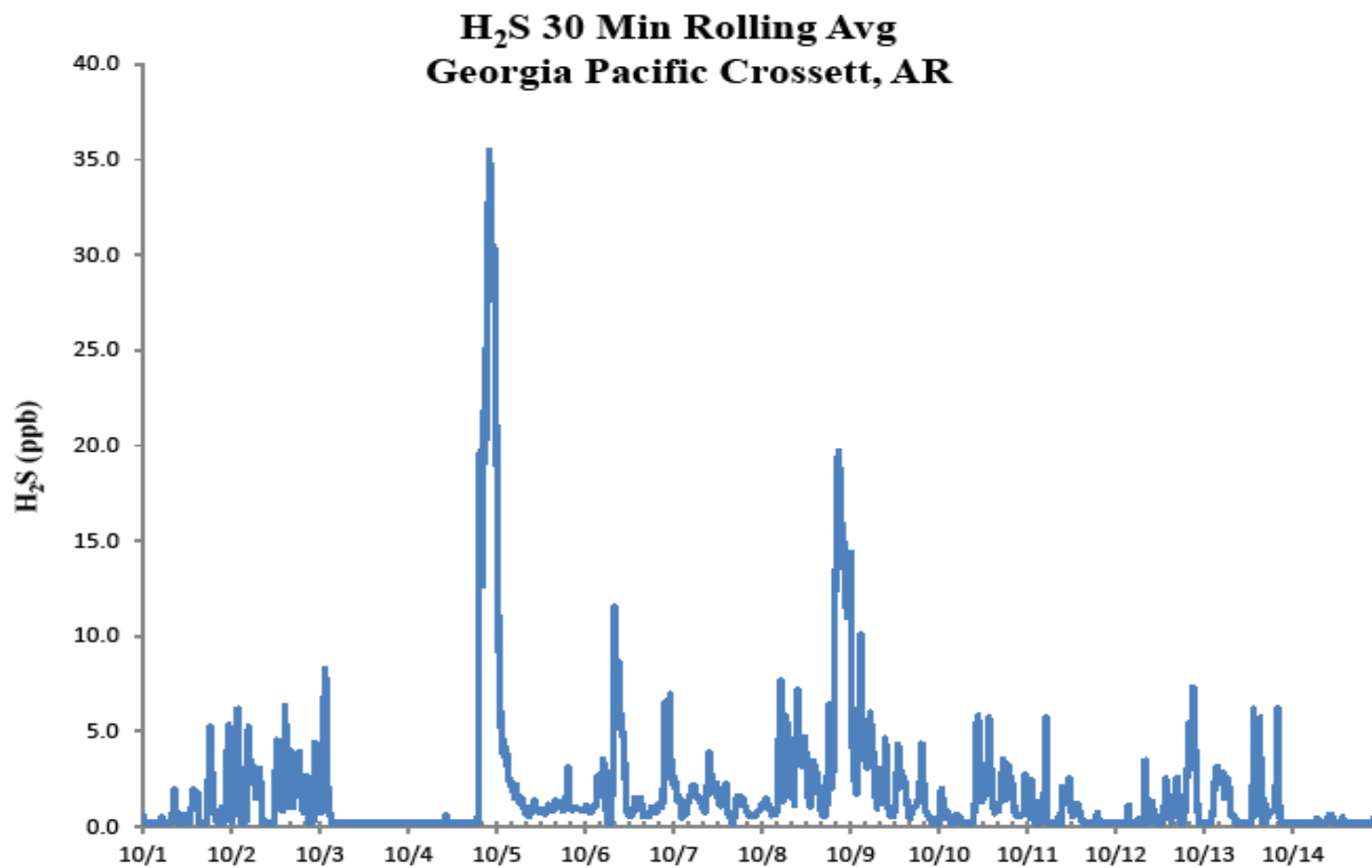
CC: Ryan Benefield, ADEQ Director via email: benefield@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

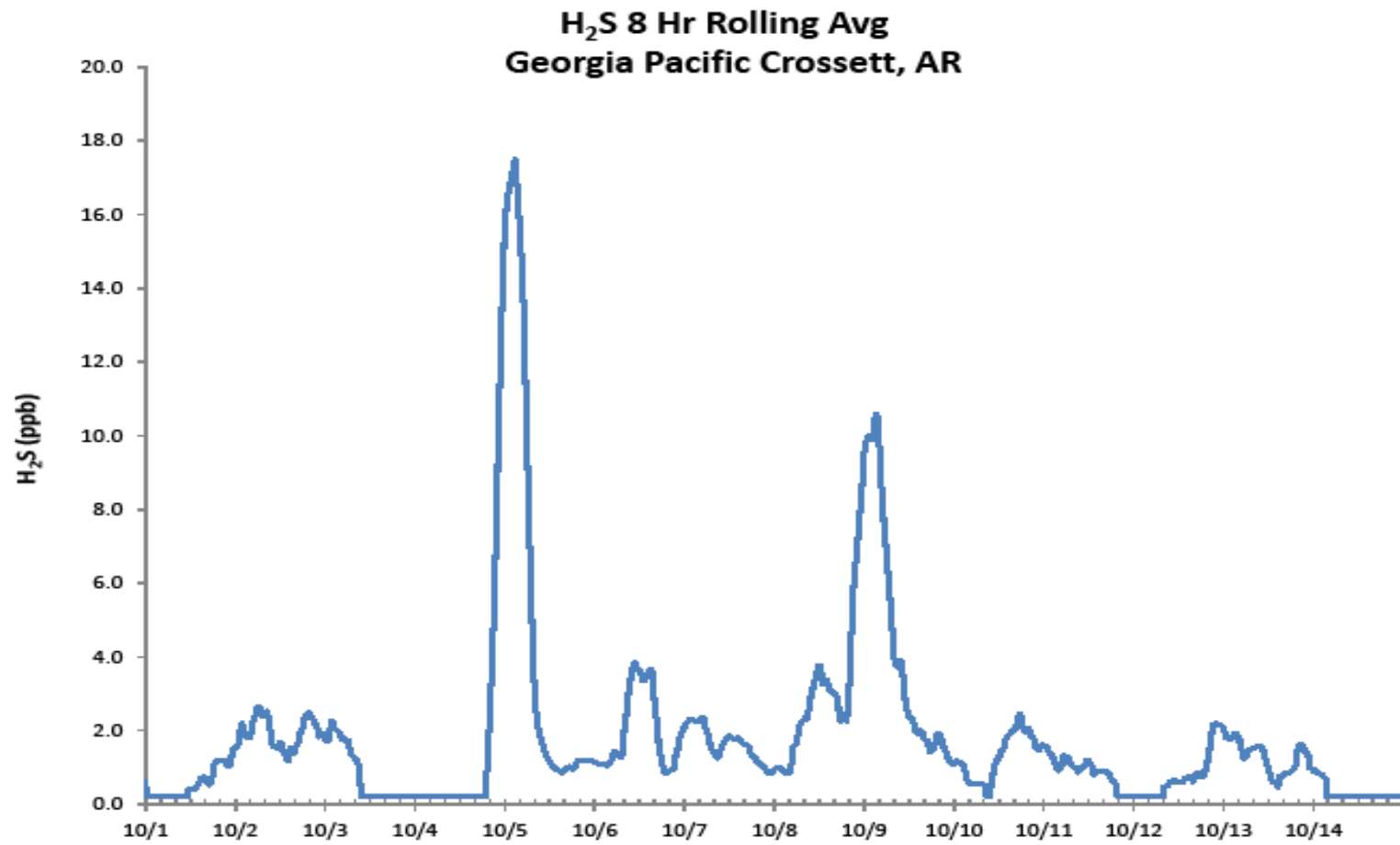


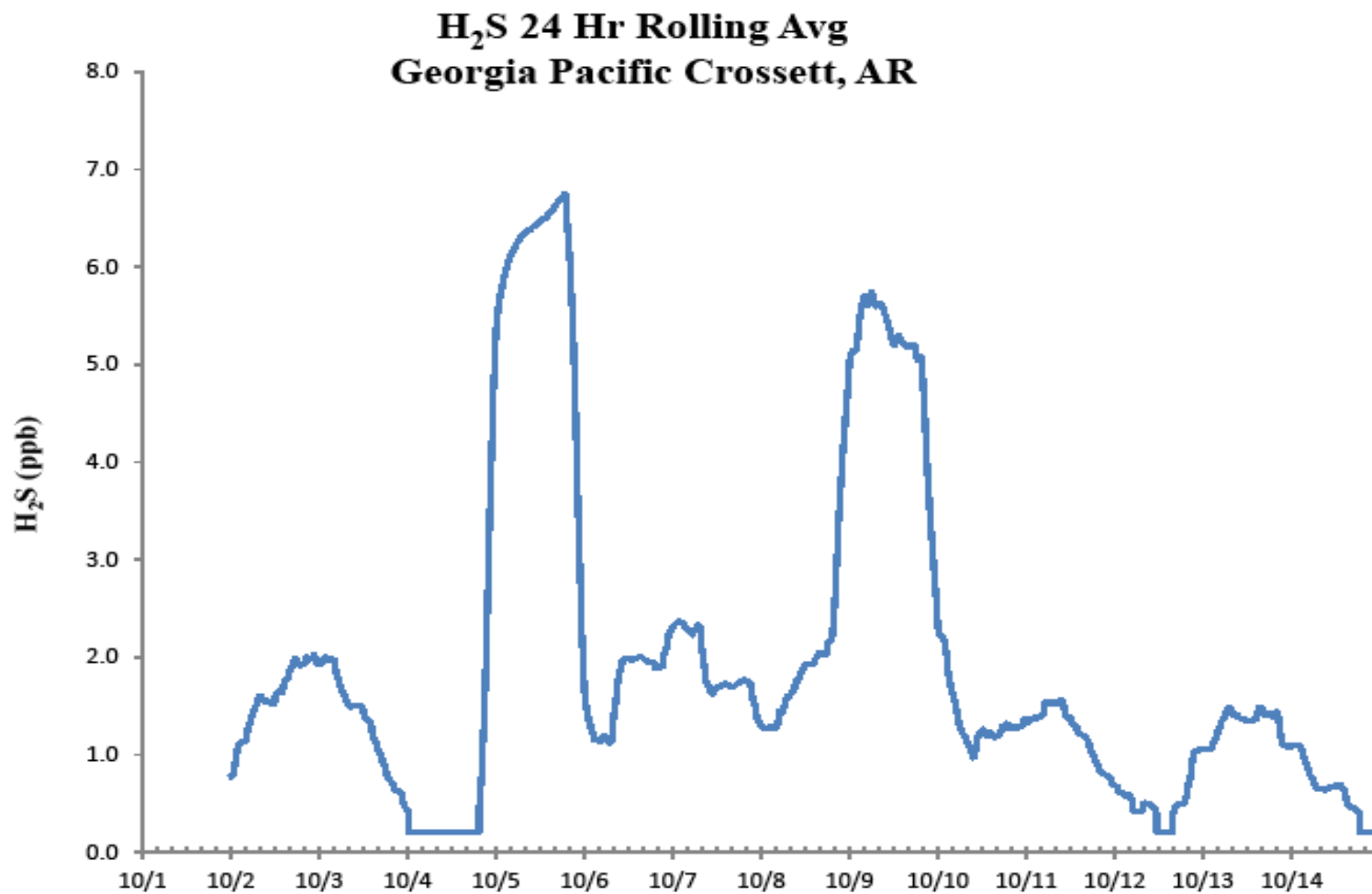
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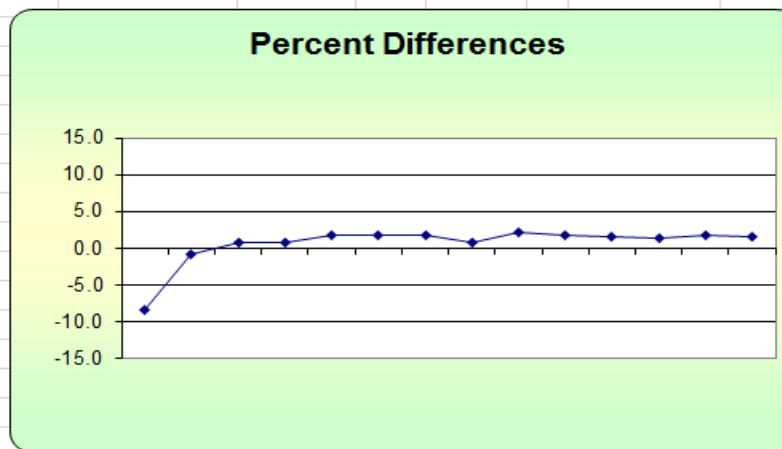
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H ₂ S Assessment										
GP - Crossett, AR			Pollutant type: H ₂ S				CV _{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d ²	d	d ²			
10/1/14 13:00	64.1	70	-8.4	0.750	71.041	8.429	71.041			
10/2/14 13:00	69.5	70	-0.7	75th Percentile	0.510	0.714	0.510			
10/3/2014 13:00	70.5	70	0.7	1.857	0.510	0.714	0.510	n	S _d	
10/4/2014 13:00	70.5	70	0.7		0.510	0.714	0.510	14	S _{d2}	
10/5/2014 13:00	71.3	70	1.9		3.449	1.857	3.449	n-1	Σd	
10/6/2014 13:00	71.2	70	1.7		2.939	1.714	2.939	13	Σd ²	
10/7/2014 13:00	71.3	70	1.9		3.449	1.857	3.449		Σ d	
10/8/2014 13:00	70.6	70	0.9		0.735	0.857	0.735		Σ d ²	
10/9/2014 13:00	71.5	70	2.1		4.592	2.143	4.592			
10/10/2014 13:00	71.3	70	1.9		3.449	1.857	3.449	CV (%) (Eqn 2)	Bias (%) (Eqn 3)	
10/11/2014 13:00	71.1	70	1.6		2.469	1.571	2.469	3.69	2.86	
10/12/2014 13:00	71.0	70	1.4		2.041	1.429	2.041		Signed Bias (%)	
10/13/2014 13:00	71.3	70	1.9		3.449	1.857	3.449		+2.86	
10/14/2014 13:00	71.1	70	1.6		2.469	1.571	2.469	Upper Probability Limit	Lower Probability Limit	
								5.96	-4.68	



Meteorological Summary

