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November 21, 2018

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,

Please find the following biweekly report for the Georgia-Pacific (GP) Crossett Mill hydrogen sulfide (H₂S) and meteorological monitoring program covering the calendar period of October 17, 2018 through October 30, 2018.

Summary of Results

Included in this report are three plots presenting H₂S 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 H₂S regarding precision and bias expressed as a coefficient of variation (CV) <10% and \pm 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, \pm 10%, indicating the H₂S monitor was operating in accordance with MQOs as stated in the QAPP.

During this reporting period two automated zero checks were performed. The results for these zero checks are presented on the following page.



Date	Zero Check Response (ppb)			
10/17/2018	-0.2			
10/24/2018	-0.3			

Data Capture

There were multiple occurrence of H₂S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. A server failure on October 27th was responsible for approximately five hours of H₂S data loss. TRC personnel were on site on October 29th to perform maintenance on the H₂S analyzer. Lamp replacement and subsequent calibration were responsible for approximately three hours of H₂S data loss on the 29th.

Fourteen-day time series plots for all recorded meteorological (met) parameters are presented in the final charts. 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,

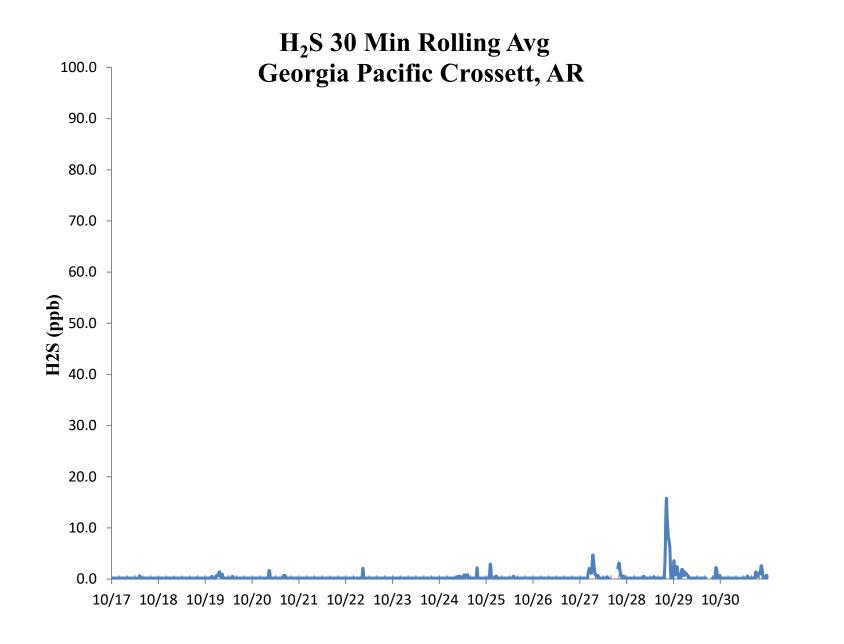
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Jonathan Bowser Manager, Air Quality and Meteorological Monitoring

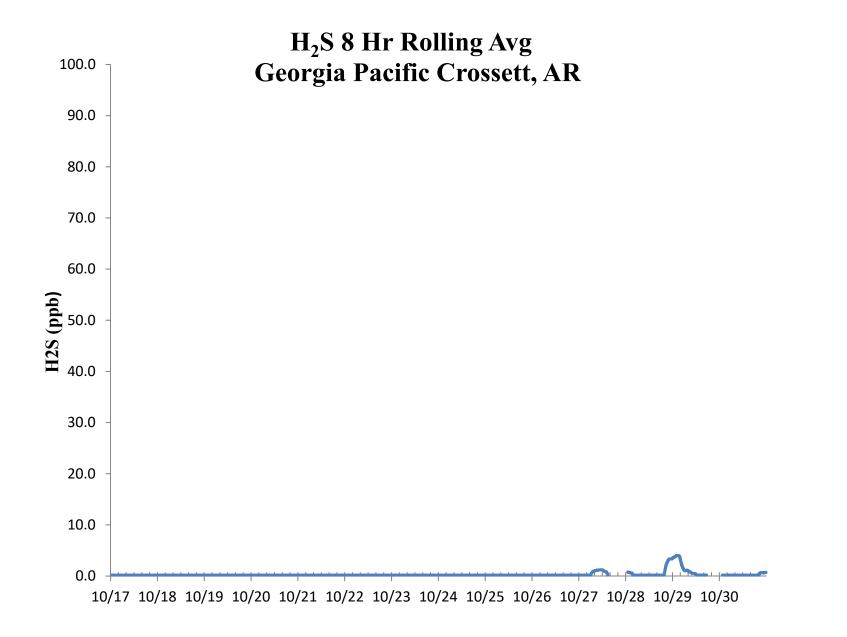
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CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

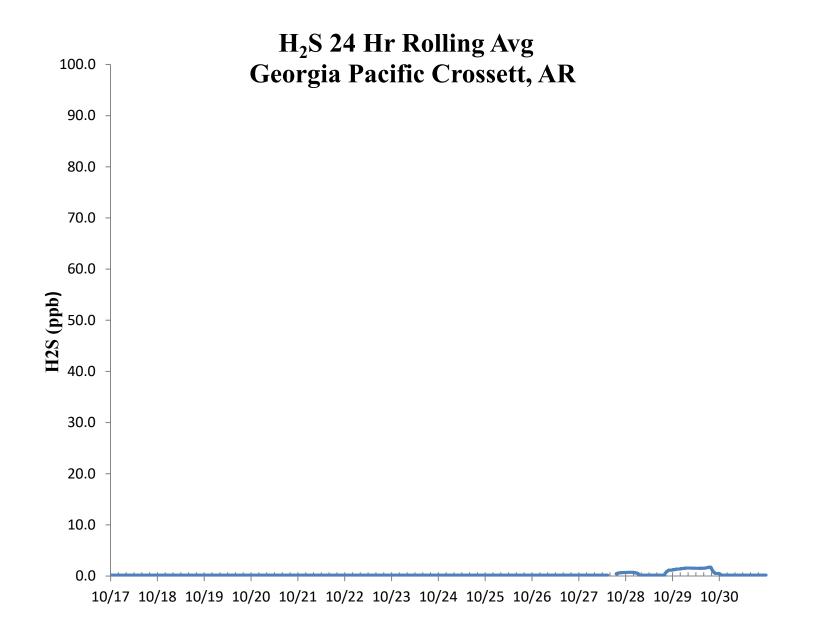














	Bias (%)		CV _{ub} (%)			Compound of Interest: H ₂ S			GP - Crossett, AR		
				d ²	d	d ²	25th Percentile	d (Eqn. 1)	Input Val (X)	Meas Val (Y)	Date
				25.000	5.000	25.000	-5.393	-5.0	70.0	66.5	10/17/2018 13:00
"AB" (Eqn 4)	∑ d	S _{d2}	Sd	26.449 n	5.143	26.449	75th Percentile	-5.1	70.0	66.4	10/18/2018 13:00
4.89	68.571	8.727	1.923	16.000 14	4.000	16.000	-4.857	-4.0	70.0	67.2	10/19/2018 13:00
"AS" (Eqn 5)	$\sum \mathbf{d} ^2$	∑d²	∑d	29.469 n-1	5.429	29.469		-5.4	70.0	66.2	10/20/2018 13:00
1.08	351.184	351.184	-65.143	27.939 13	5.286	27.939		-5.3	70.0	66.3	10/21/2018 13:00
		_		23.592	4.857	23.592		-4.9	70.0	66.6	10/22/2018 13:00
Both Signs Positive	Bias (%) (Eqn 3)			25.000	5.000	25.000		-5.0	70.0	66.5	10/23/2018 13:00
FALSE	5.41			26.449	5.143	26.449		-5.1	70.0	66.4	10/24/2018 13:00
Both Signs Negativ	Signed Bias (%)		CV (%) (Eqn 2)	18.367	4.286	18.367		-4.3	70.0	67.0	10/25/2018 13:00
TRUE	-5.41		2.61	23.592	4.857	23.592		-4.9	70.0	66.6	10/26/2018 13:00
		-		36.000	6.000	36.000		-6.0	70.0	65.8	10/27/2018 13:00
Lower Probability Limit		ty Limit	Upper Probabili	32.653	5.714	32.653		-5.7	70.0	66.0	10/28/2018 13:00
	-8.42	I	-0.88	37.735	6.143	37.735		-6.1	70.0	65.7	10/29/2018 13:00
				2.939	1.714	2.939		1.7	70.0	71.2	10/30/2018 13:00

H₂S Assessment

