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July 6, 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 May 30, 2018 through June 12, 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 H_2S 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 result for these zero checks are presented below.



Date	Zero Check Response (ppb)					
6/1/2018	0.7					
6/8/2018	0.6					

Data Capture

There were no occurrences of H₂S 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. A communication failure on June 12th was responsible for approximately 3 hours of met data loss during this report period. Additionally, solar radiation data is not available for the entire monitoring period on account of weather damage. TRC has plans to assess damage and repair/replace the solar radiation sensor as soon as possible.

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

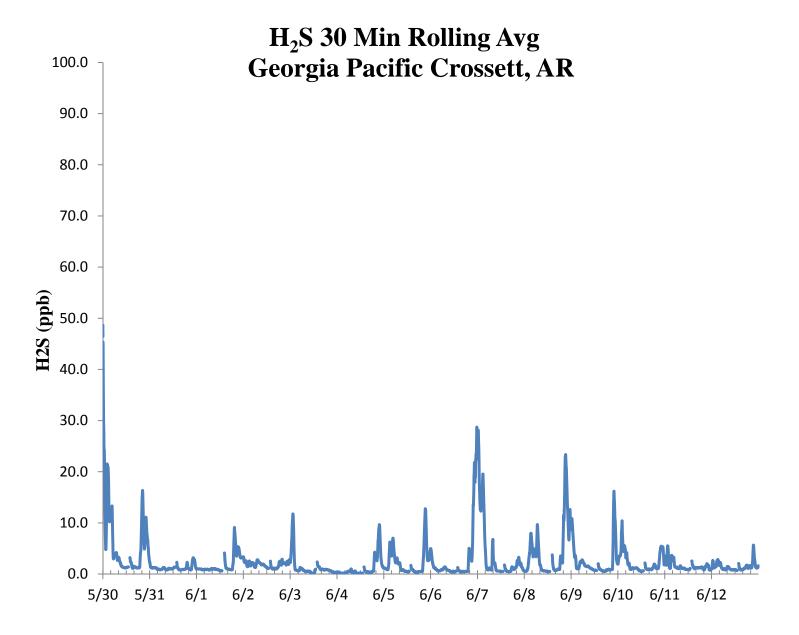
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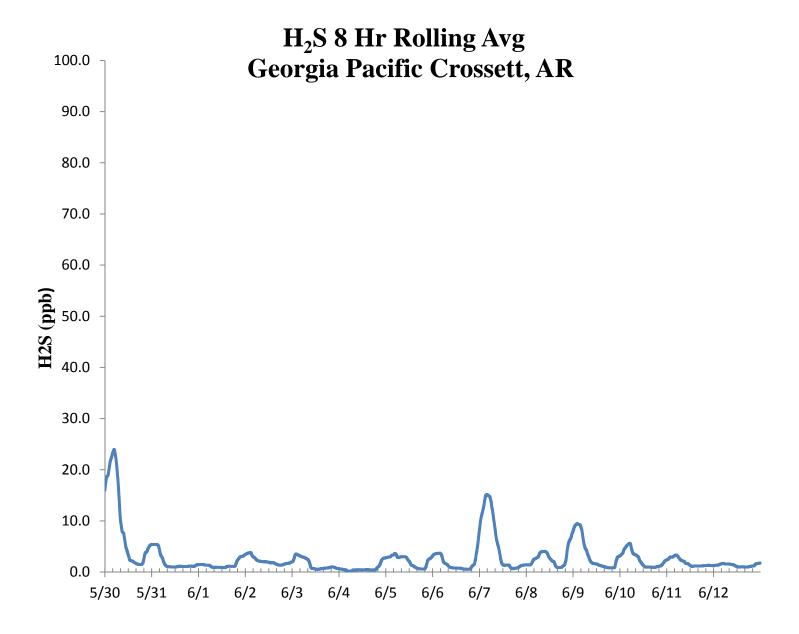
Email: jbowser@trcsolutions.com

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

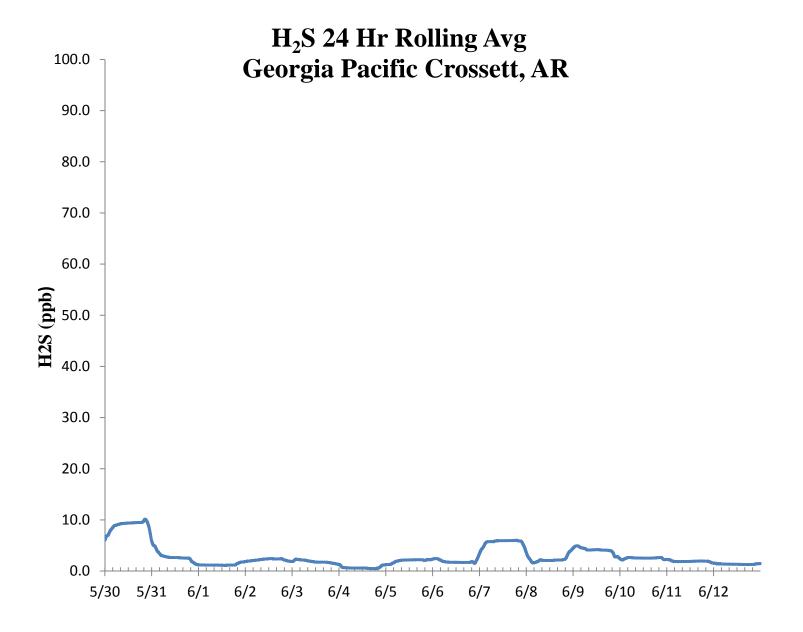














H₂S Assessment

GI	P - Crossett, AR	ł	Compound	of Interest: H ₂ S				CV _{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d²	d	d ²				
5/30/2018 13:00	67.6	70.0	-3.4	-5.607	11.755	3.429	11.755				
5/31/2018 13:00	68.0	70.0	-2.9	75th Percentile	8.163	2.857	8.163 n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
6/1/2018 13:00	68.1	70.0	-2.7	-3.000	7.367	2.714	7.367	4 1.722	15.386	59.714	4.265
6/2/2018 13:00	68.9	70.0	-1.6		2.469	1.571	2.469 n-	1 ∑d	$\sum d^2$	$\sum \mathbf{d} ^2$	"AS" (Eqn 5)
6/3/2018 13:00	67.2	70.0	-4.0		16.000	4.000	16.000 1	3 -59.714	293.265	293.265	1.722
6/4/2018 13:00	65.1	70.0	-7.0		49.000	7.000	49.000				
6/5/2018 13:00	66.3	70.0	-5.3		27.939	5.286	27.939			Bias (%) (Eqn 3)	Both Signs Positive
6/6/2018 13:00	65.1	70.0	-7.0		49.000	7.000	49.000			5.08	FALSE
6/7/2018 13:00	66.0	70.0	-5.7		32.653	5.714	32.653	CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
6/8/2018 13:00	66.0	70.0	-5.7		32.653	5.714	32.653	2.34		-5.08	TRUE
6/9/2018 13:00	66.6	70.0	-4.9		23.592	4.857	23.592		•		•
6/10/2018 13:00	67.4	70.0	-3.7		13.796	3.714	13.796	Upper Probabil	ity Limit	Lower Probability	y Limit
6/11/2018 13:00	68.6	70.0	-2.0		4.000	2.000	4.000	-0.89		-7.64	
6/12/2018 13:00	67.3	70.0	-3.9		14.878	3.857	14.878				

