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February 12, 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 January 10, 2018 through January 23, 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.

Additionally, weekly automated zero adjustments were implemented starting February 1, 2017. During this reporting period two automated zero checks were performed; within the acceptable range



of \pm 1.5 ppb, as defined in the QAPP. The result for these zero checks are presented below.

Date	Zero Check Response (ppb)					
1/11/2018	0.6					
1/18/2018	0.6					

Data Capture

There were a few brief occurrences of H_2S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. These brief periods of data loss were all less than 30 minutes in duration and resulted from on-site maintenance on January 10^{th} and power resets on January 15^{th} and 16^{th} .

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

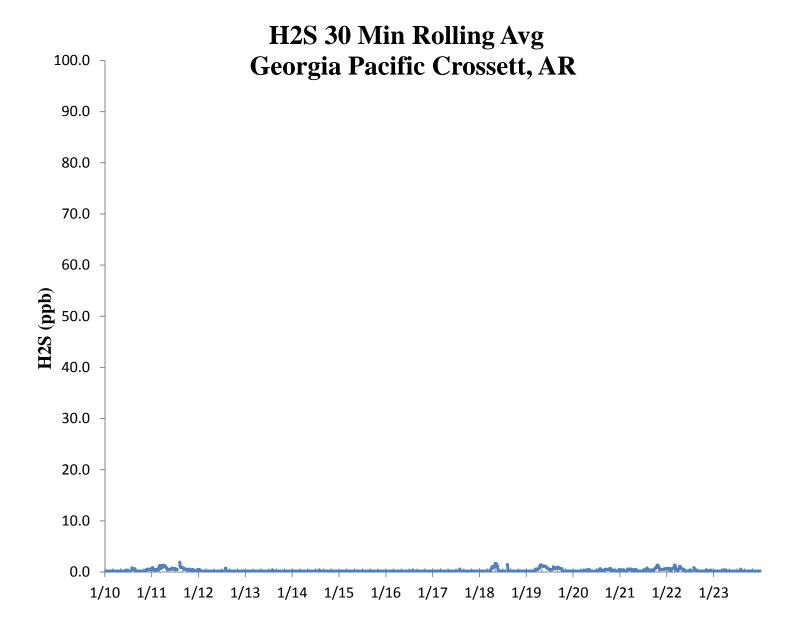
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Gainesville Office 6312 NW 18th Drive, Suite 100 Gainesville, Florida 32653 (352) 260-1162

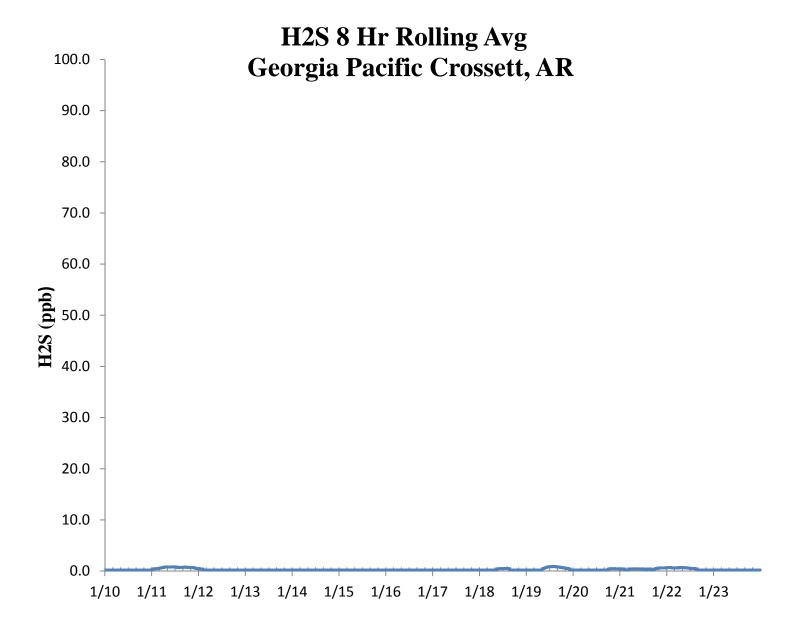
Email: jbowser@trcsolutions.com

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

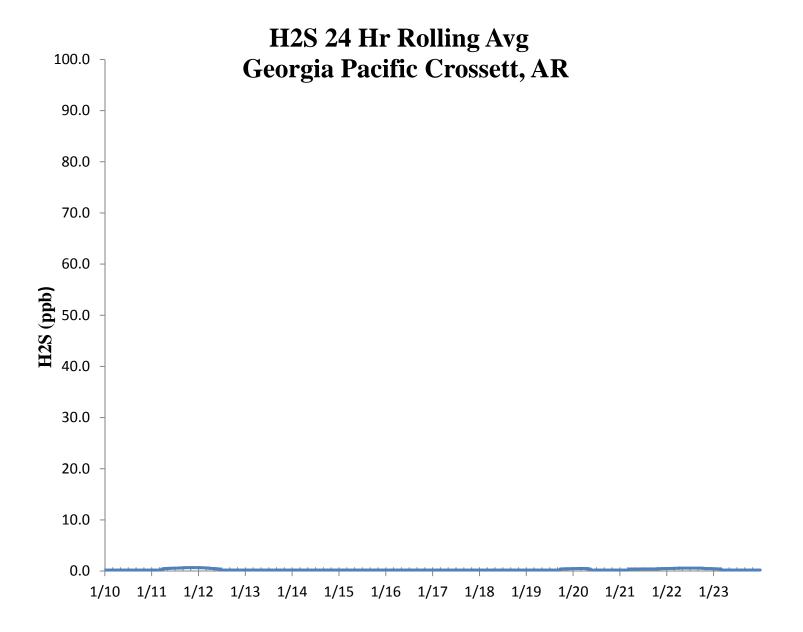








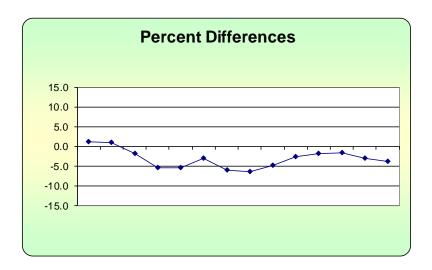






H₂S Assessment

Gl	P - Crossett, AF	ł	Compound	of Interest: H ₂ S				CV _{ub} (%)		Bias (%)	
Date	Meas Val (Y)	Input Val (X)	d (Eqn. 1)	25th Percentile	d²	d	$ \mathbf{d} ^2$				
1/10/2018 13:00	70.8	70.0	1.1	-5.179	1.306	1.143	1.306				
1/11/2018 13:00	70.7	70.0	1.0	75th Percentile	1.000	1.000	1.000 n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
1/12/2018 13:00	68.8	70.0	-1.7	-1.750	2.939	1.714	2.939 1	.4 2.376	13.881		3.388
1/13/2018 13:00	66.3	70.0	-5.3		27.939	5.286	27.939 n-	1 ∑d	$\sum d^2$	$\sum \mathbf{d} ^2$	"AS" (Eqn 5)
1/14/2018 13:00	66.3	70.0	-5.3		27.939	5.286	27.939 1	.3 -43.143	206.367	206.367	1.875
1/15/2018 13:00	67.9	70.0	-3.0		9.000	3.000	9.000				
1/16/2018 13:00	65.8	70.0	-6.0		36.000	6.000	36.000			Bias (%) (Eqn 3)	Both Signs Positive
1/17/2018 13:00	65.5	70.0	-6.4		41.327	6.429	41.327			4.28	FALSE
1/18/2018 13:00	66.6	70.0	-4.9		23.592	4.857	23.592	CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
1/19/2018 13:00	68.2	70.0	-2.6		6.612	2.571	6.612	3.23		-4.28	TRUE
1/20/2018 13:00	68.7	70.0	-1.9		3.449	1.857	3.449		•		•
1/21/2018 13:00	68.9	70.0	-1.6		2.469	1.571	2.469	Upper Probabil	ity Limit	Lower Probability	y Limit
1/22/2018 13:00	67.9	70.0	-3.0		9.000	3.000	9.000	1.58		-7.74	
1/23/2018 13:00	67.4	70.0	-3.7		13.796	3.714	13.796	•			





Meteorological Summary 20.0 WS(m/s) UVWD(deg) 40.0 Temp(C) -60.0 S Theta(deg) 5.0 Delta Temp(C) -5.0



