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June 14, 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 16, 2018 through May 29, 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.

The scheduled automated QC check on May 26^{th} was not performed on account of a PC failure. Results for available automated daily 1-point QC checks were within the accuracy objective, \pm 10%, indicating the H_2S 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)				
5/18/2018	0.4				
5/25/2018	0.6				

Data Capture

There were multiple occurrences of H₂S data loss this monitoring period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. PC failures were responsible for approximately three hours of H₂S data loss on May 24th, and approximately six hours of H₂S data loss on May 26th. TRC has plans to replace the PC installed at the H₂S monitoring site.

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, with the exception of solar radiation. A severe thunderstorm on May 26th caused damage to the solar radiation sensor. TRC has plans to assess damage and repair/replace the sensor as soon as possible.

Please feel free to contact me if you have any questions or need any additional data.

Sincerely,

Jonathan Bowser

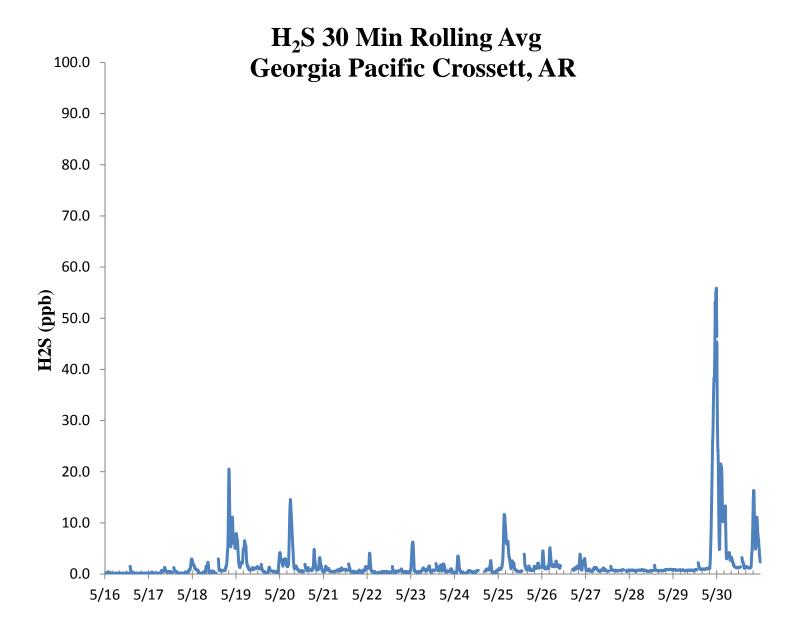
Manager, Air Quality and Meteorological Monitoring

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

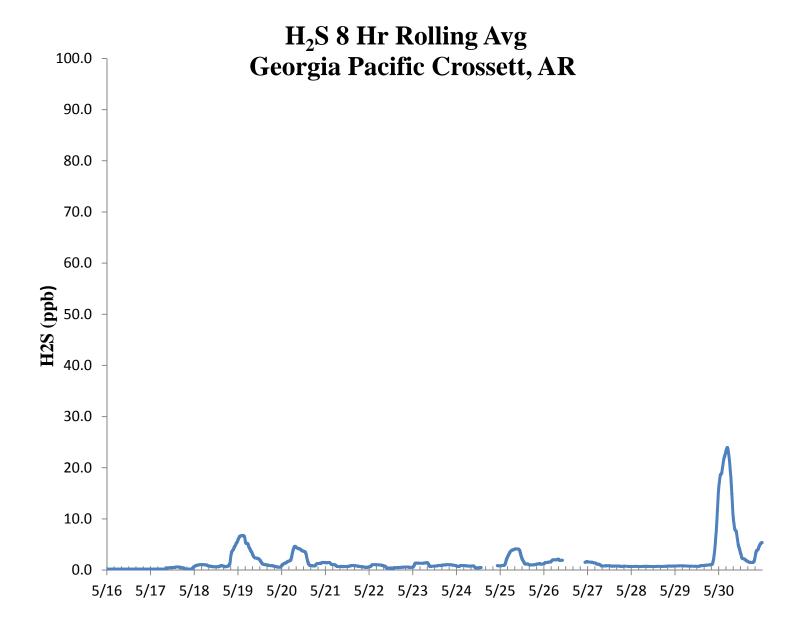
Email: jbowser@trcsolutions.com

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

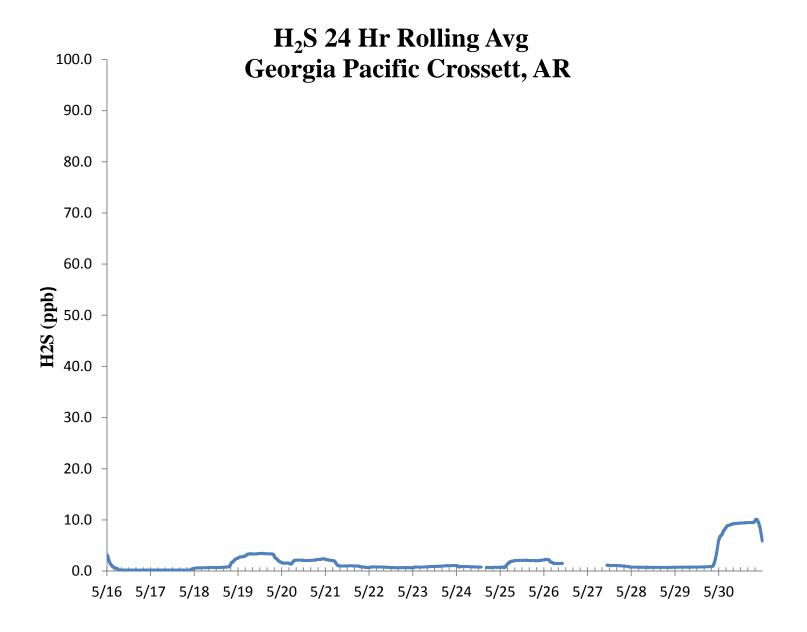








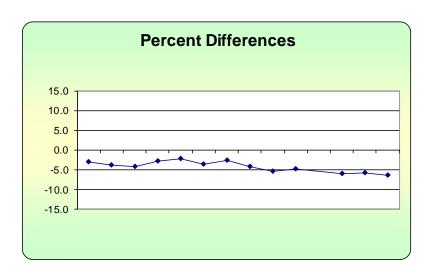






H₂S Assessment

GF	- Crossett, AR	1	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				
5/16/2018 13:00	67.9	70.0	-3.0	-5.286	9.000	3.000	9.000				
5/17/2018 13:00	67.3	70.0	-3.9	75th Percentile	14.878	3.857	14.878 n	S _d	S _{d2}	∑ d	"AB" (Eqn 4)
5/18/2018 13:00	67.0	70.0	-4.3	-3.000	18.367	4.286	18.367	3 1.360	11.874	54.857	4.220
5/19/2018 13:00	68.0	70.0	-2.9		8.163	2.857	8.163 n-	1 ∑d	$\sum d^2$	$\sum d ^2$	"AS" (Eqn 5)
5/20/2018 13:00	68.4	70.0	-2.3		5.224	2.286	5.224 1	2 -54.857	253.673	253.673	1.360
5/21/2018 13:00	67.5	70.0	-3.6		12.755	3.571	12.755				
5/22/2018 13:00	68.2	70.0	-2.6		6.612	2.571	6.612			Bias (%) (Eqn 3)	Both Signs Positive
5/23/2018 13:00	67.1	70.0	-4.1		17.163	4.143	17.163			4.89	FALSE
5/24/2018 13:00	66.3	70.0	-5.3		27.939	5.286	27.939	CV (%) (Eqn 2)		Signed Bias (%)	Both Signs Negative
5/25/2018 13:00	66.6	70.0	-4.9		23.592	4.857	23.592	1.88		-4.89	TRUE
5/27/2018 13:00	65.8	70.0	-6.0		36.000	6.000	36.000		•		
5/28/2018 13:00	66.0	70.0	-5.7		32.653	5.714	32.653	Upper Probabili	ty Limit	Lower Probability	/ Limit
5/29/2018 13:00	65.5	70.0	-6.4		41.327	6.429	41.327	-1.55		-6.88	





Meteorological Summary 100.0 WS(m/s) 0.0 40.0 -10.0 16 S Theta(deg) 5.0 Delta Temp(C) -5.0



