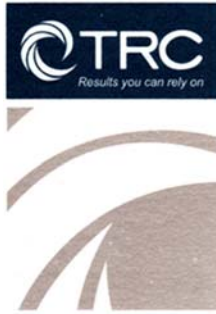


December 16, 2015



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December 16, 2015

Ms. Lori Simmons  
Arkansas Department of Health  
4815 West Markham Street  
Little Rock, Arkansas 72205  
Via email [Lori.Simmons@arkansas.gov](mailto:Lori.Simmons@arkansas.gov)

**Re: Georgia-Pacific, Crossett Mill - Biweekly Air Monitoring Report for Hydrogen Sulfide**

Dear Ms. Simmons,

Following is the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H<sub>2</sub>S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of November 18<sup>th</sup> through December 1<sup>st</sup>.

Summary of Results

Included in this report are three plots presenting H<sub>2</sub>S 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. During the evening of December 1<sup>st</sup> approximately 30 minutes of meteorological data was lost due to power failure.

There was a single occurrence of data loss during this two week period, as well as those resulting from automated daily 1-point QC and weekly calibration checks. On November 22<sup>nd</sup> there was a LAN communication error between the analyzer and logger PC, resulting in an extended period of data loss (< 18 hours). TRC is working with Teledyne-API to find a resolution to this issue in order to prevent future data loss. Results from the automated calibration check on this day were not recorded. Results for all available automated daily 1-point QC checks fall within the acceptable range, indicating the H<sub>2</sub>S monitor was operating in accordance with the QAPP.

For more information on the elevated readings from November 23, 2015, please visit the Arkansas Department of Environmental Quality (ADEQ) Air Division website for an Arkansas Department of



December 16, 2015

Health Special Data Review Announcement:

[https://www.adeq.state.ar.us/air/compliance/pdfs/adh\\_special\\_review\\_announcement\\_for\\_gp\\_h2s\\_mont\\_11-23-15.pdf](https://www.adeq.state.ar.us/air/compliance/pdfs/adh_special_review_announcement_for_gp_h2s_mont_11-23-15.pdf)

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

Sincerely,



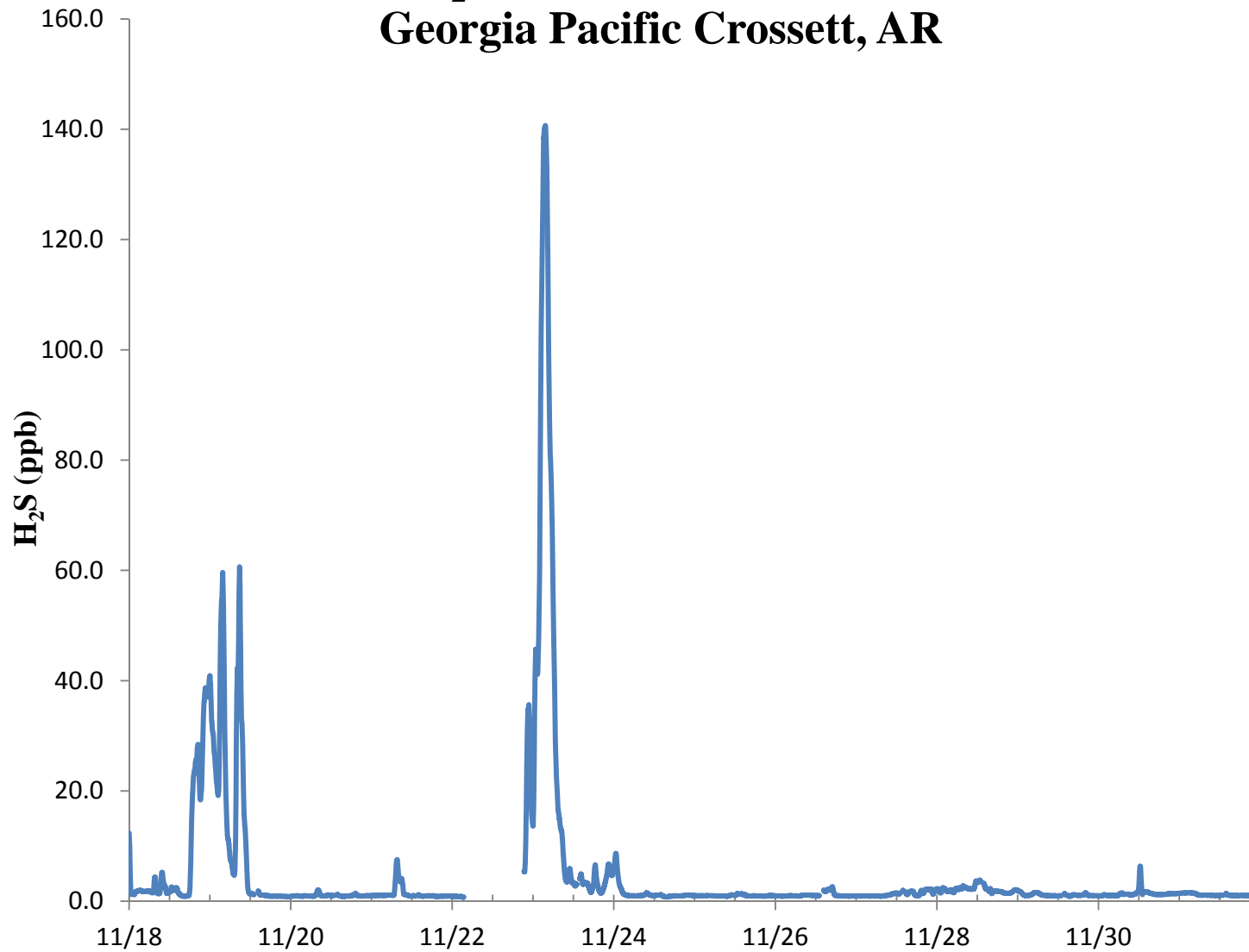
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Jonathan Bowser  
Manager, Air Quality and Meteorological Monitoring

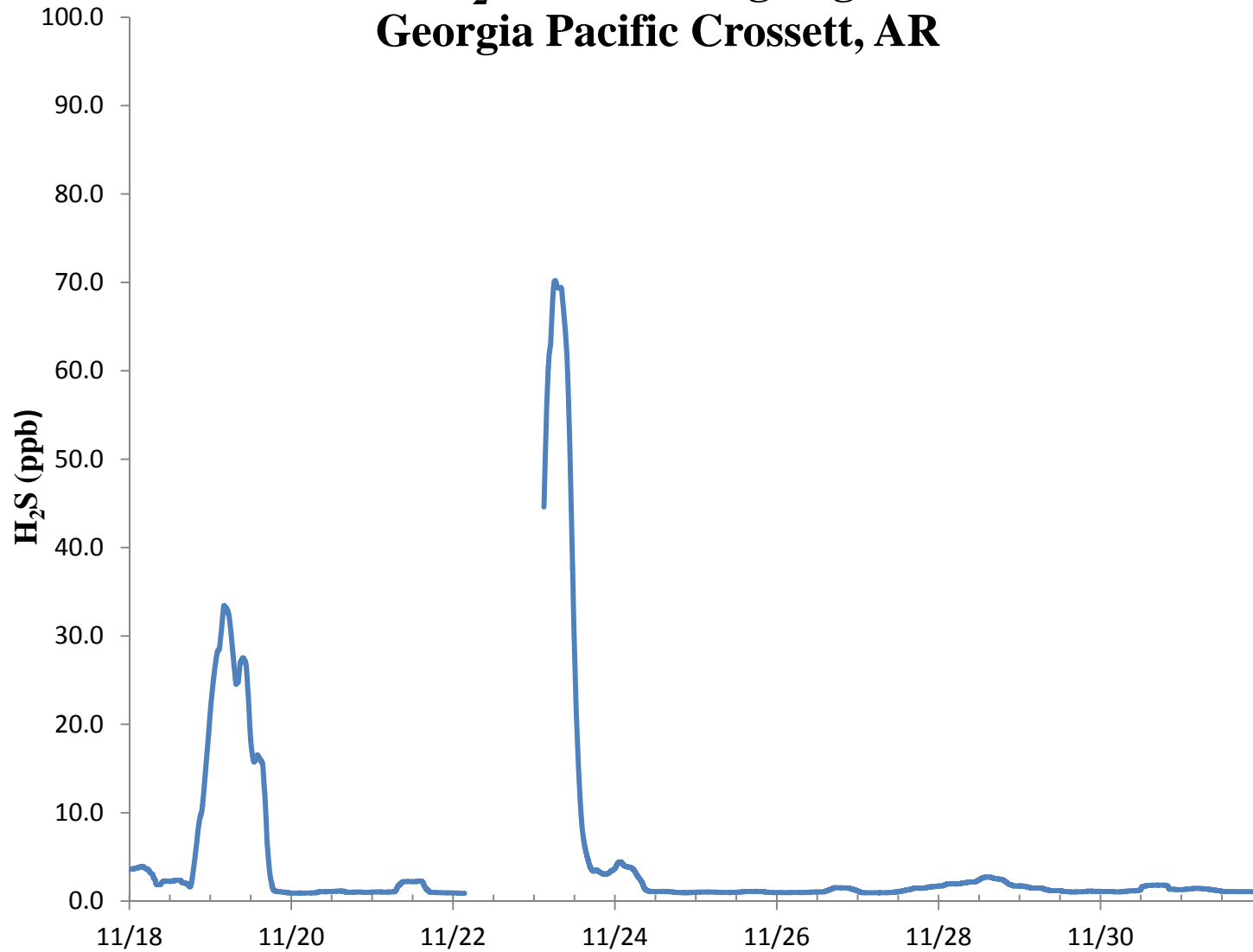
Air Measurements – Gainesville Office  
6312 NW 18th Drive, Suite 100  
Gainesville, Florida 32653  
(352) 260-1162  
Email: [jbowser@trcsolutions.com](mailto:jbowser@trcsolutions.com)

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

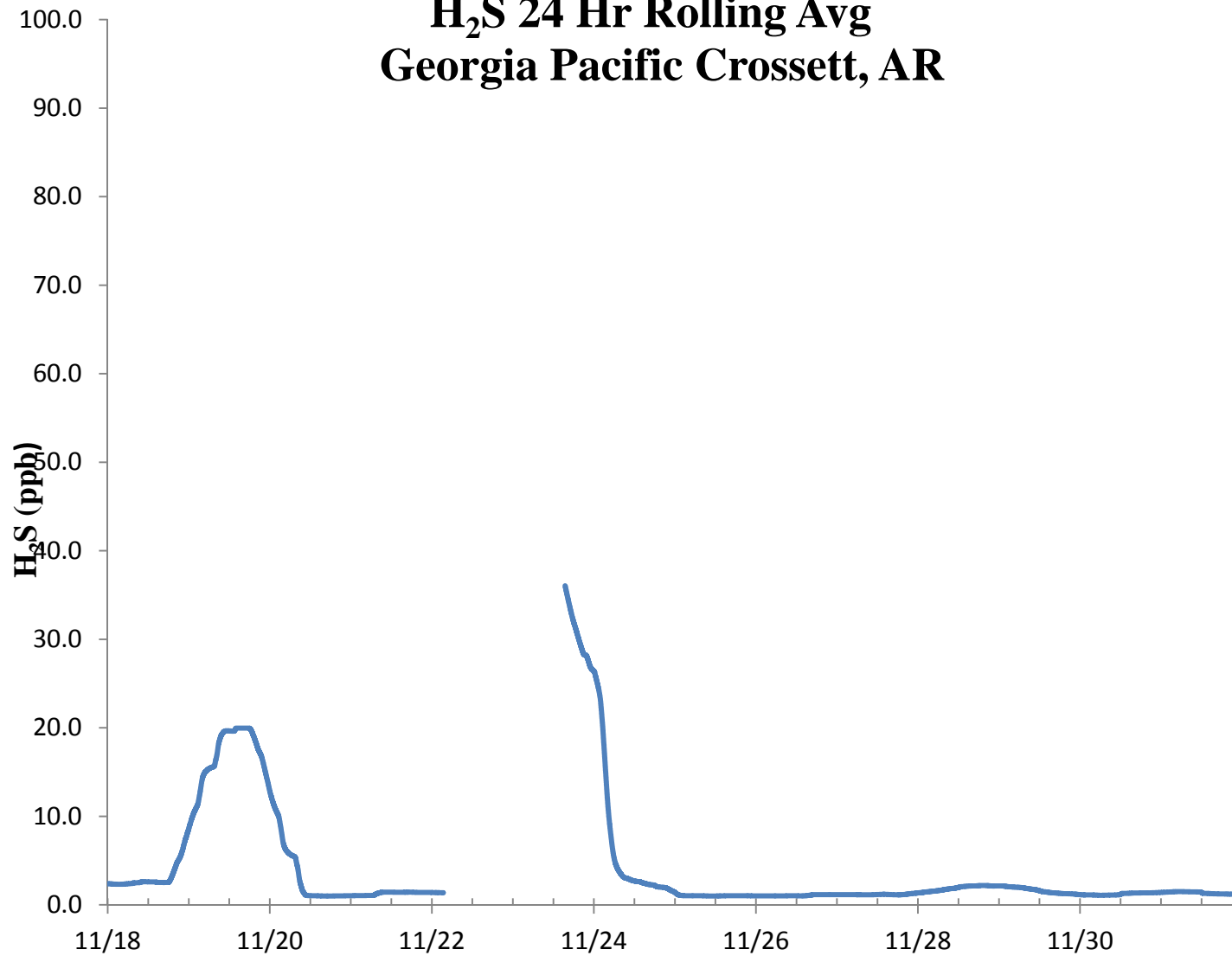
### H<sub>2</sub>S 30 Min Rolling Avg Georgia Pacific Crossett, AR



### H<sub>2</sub>S 8 Hr Rolling Avg Georgia Pacific Crossett, AR

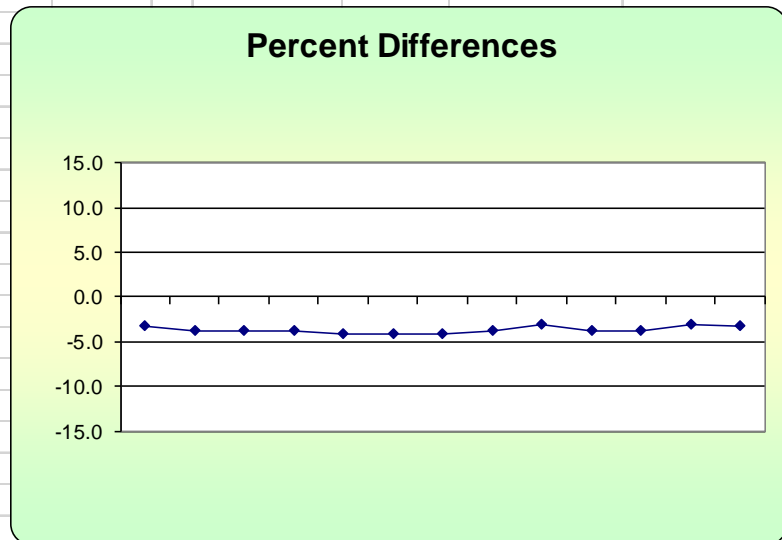


## H<sub>2</sub>S 24 Hr Rolling Avg Georgia Pacific Crossett, AR



### H<sub>2</sub>S Assessment

GP - Crossett, AR			Constituent type: H <sub>2</sub> S					CV <sub>ub</sub> (%)	Bias (%)
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d <sup>2</sup>	d	d  <sup>2</sup>		
11/18/2015 13:00	67.7	70.0	-3.3	-3.857	10.796	3.286	10.796		
11/19/2015 13:00	67.4	70.0	-3.7	<b>75th Percentile</b>	13.796	3.714	13.796	<b>n</b>	<b>S<sub>d</sub></b>
11/20/2015 13:00	67.4	70.0	-3.7	-3.286	13.796	3.714	13.796	13	0.368
11/21/2015 13:00	67.3	70.0	-3.9		14.878	3.857	14.878	<b>n-1</b>	<b>S<sub>d2</sub></b>
11/23/2015 13:00	67.1	70.0	-4.1		17.163	4.143	17.163	12	2.680
11/24/2015 13:00	67.1	70.0	-4.1		17.163	4.143	17.163		<b>Σ d </b>
11/25/2015 13:00	67.1	70.0	-4.1		17.163	4.143	17.163		48.000
11/26/2015 13:00	67.3	70.0	-3.9		14.878	3.857	14.878		<b>Σd</b>
11/27/2015 13:00	67.8	70.0	-3.1		9.878	3.143	9.878		Σd <sup>2</sup>
11/28/2015 13:00	67.4	70.0	-3.7		13.796	3.714	13.796		178.857
11/29/2015 13:00	67.3	70.0	-3.9		14.878	3.857	14.878		<b>Σ d <sup>2</sup></b>
11/30/2015 13:00	67.8	70.0	-3.1		9.878	3.143	9.878		178.857
12/1/2015 13:00	67.7	70.0	-3.3		10.796	3.286	10.796		
									<b>Bias (%) (Eqn 3)</b>
									3.87
									<b>Signed Bias (%)</b>
									-3.87
									<b>Both Signs Positive</b>
									FALSE
									<b>Both Signs Negative</b>
									TRUE
									<b>CV (%) (Eqn 2)</b>
									0.51
									<b>Upper Probability Limit</b>
									-2.97
									<b>Lower Probability Limit</b>
									-4.41



Meteorological Summary

