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 (H$_2$S) and meteorological monitoring program covering the calendar period of September 6, 2017 through September 19, 2017.

Summary of Results

Included in this report are three plots presenting H$_2$S 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$_2$S regarding precision and bias expressed 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. 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, ± 10%, indicating the H$_2$S 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 ± 1.5 ppb, as defined in the QAPP. The result for these zero checks are presented below.

<table>
<thead>
<tr>
<th>Date</th>
<th>Zero Check Response (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/7/2017</td>
<td>0.0</td>
</tr>
</tbody>
</table>
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. The analyzer did lose communication with the server over the weekend of September 9<sup>th</sup> and 10<sup>th</sup>; communication was restored the morning of September 11<sup>th</sup>. Data from that period was recovered from the analyzer and uploaded into the database.

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

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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
H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
### H₂S Assessment

| Date       | Meas Val (Y) | Input Val (X) | d (Eqn. 1) | 25th Percentile | d² | |d| | |d|² | CV₂₅ (%) | Bias (%) |
|------------|--------------|---------------|------------|-----------------|-----|-----|-----|-----|-------|---------|
| 9/6/2017   | 72.5         | 70.0          | 3.6        | 3.036           | 12.755 | 3.571 | 12.755 |
| 9/7/2017   | 71.9         | 70.0          | 2.7        | 2.714           | 7.367 | 2.714 | 7.367 |
| 9/8/2017   | 72.0         | 70.0          | 2.9        | 8.163           | 8.163 | 8.163 |
| 9/9/2017   | 73.0         | 70.0          | 4.3        | 18.367          | 18.367 | 18.367 |
| 9/10/2017  | 72.8         | 70.0          | 4.0        | 16.000          | 16.000 | 16.000 |
| 9/11/2017  | 72.1         | 70.0          | 3.0        | 9.000           | 9.000 | 9.000 |
| 9/12/2017  | 72.7         | 70.0          | 3.9        | 14.878          | 14.878 | 14.878 |
| 9/13/2017  | 72.2         | 70.0          | 3.1        | 9.878           | 9.878 | 9.878 |
| 9/14/2017  | 72.2         | 70.0          | 3.1        | 9.878           | 9.878 | 9.878 |
| 9/15/2017  | 72.1         | 70.0          | 3.0        | 9.000           | 9.000 | 9.000 |
| 9/16/2017  | 72.2         | 70.0          | 3.1        | 9.878           | 9.878 | 9.878 |
| 9/17/2017  | 72.5         | 70.0          | 3.6        | 12.755          | 12.755 | 12.755 |
| 9/18/2017  | 72.7         | 70.0          | 3.9        | 14.878          | 14.878 | 14.878 |
| 9/19/2017  | 72.8         | 70.0          | 4.0        | 16.000          | 16.000 | 16.000 |

### Percent Differences

![Graph showing Percent Differences]

- **Upper Probability Limit**: 4.42
- **Lower Probability Limit**: 2.46
Meteorological Summary

WS(m/s)

UVWD(deg)

Temp(C)

S Theta(deg)

Delta Temp(C)