December 31, 2014

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,

Following is a data summary for the sixth two-week operational period of the Georgia-Pacific (GP) hydrogen sulfide (H$_2$S) and meteorological monitoring program at the GP Crossett mill.

Summary of Results
Included in this report are three plots presenting H$_2$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. All met parameters have 100% data capture for this report period.

There was one occurrence of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. During a site visit on December 16$^{th}$, TRC replaced the disk on module (DOM) that stores the instrument’s configuration and reloaded the firmware. Following replacement of the DOM, a complete calibration was performed.

Please note, the 1-point QC check was not performed during the regularly scheduled time due to the DOM replacement. A single check point from the calibration performed following the DOM replacement was used to replace the missing 1-point QC check on the 16$^{th}$ in the CV calculation for this biweekly period.

Results for all automated daily 1-point QC checks fall within the acceptable range, indicating the H$_2$S monitor was operating in accordance with the QAPP.
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:  Ryan Benefield, ADEQ Director via email:benefield@adeq.state.ar.us  
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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

**Pollutant type:** H₂S  
**GP - Crossett, AR**

| Date       | Meas Val (Y) | Audit Val (X) | d (Eqn. 1) | 25th Percentile | d²  | |d|  | |d|²  | CVub (%) | Bias (%) |
|------------|--------------|---------------|------------|-----------------|-----|-----|-----|-----|----------|----------|
| 12/11/2014| 72.2         | 70.0          | 3.1        | 0.714           | 9.878| 3.143| 9.878|
| 12/12/2014| 72.1         | 70.0          | 3.0        | 75th Percentile | 9.000| 3.000| 9.000|
| 12/13/2014| 72.5         | 70.0          | 3.6        | 12.755          | 12.755| 3.571| 12.755|
| 12/14/2014| 72.4         | 70.0          | 3.4        | 3.4             | 11.755| 3.429| 11.755|
| 12/15/2014| 72.5         | 70.0          | 3.6        | 12.755          | 12.755| 3.571| 12.755|
| 12/16/2014| 51.0         | 50.0          | 2.0        | 4.000           | 4.000| 2.000| 4.000|
| 12/17/2014| 70.9         | 70.0          | 1.3        | 1.653           | 1.653| 1.286| 1.653|
| 12/18/2014| 70.5         | 70.0          | 0.7        | 0.510           | 0.510| 0.714| 0.510|
| 12/19/2014| 70.3         | 70.0          | 0.4        | 0.184           | 0.184| 0.429| 0.184|
| 12/20/2014| 70.1         | 70.0          | 0.1        | 0.020           | 0.020| 0.143| 0.020|
| 12/21/2014| 70.1         | 70.0          | 0.1        | 0.020           | 0.020| 0.143| 0.020|
| 12/22/2014| 71.1         | 70.0          | 1.6        | 2.469           | 2.469| 1.571| 2.469|
| 12/23/2014| 70.9         | 70.0          | 1.3        | 1.653           | 1.653| 1.286| 1.653|

### Percent Differences

- **Upper Probability Limit:** 4.48
- **Lower Probability Limit:** -0.74