TRC
Results you can rely on

6312 NW 18th Drive
Suite 100
Gainesville, FL 32653

352.378.0332 PHONE
352.378.0354 FAX

www.TRCsolutions.com

March 20, 2015

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 twelfth two-week operational period of the Georgia-Pacific (GP) hydrogen sulfide (H_2S) and meteorological monitoring program at the GP Crossett mill, covering the calendar period of March 4th through 17th.

Summary of Results

Included in this report are three plots presenting H_2S 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 a single occurrence of data loss during this two week period, in addition to those resulting from automated daily 1-point QC and weekly calibration checks. On the afternoon of March 11th manual calibration checks were performed resulting in a loss of approximately 1 hour of data. The site PC experienced a failure that took it out of service from March 6th through March 11th. During the period when there was no PC onsite data was polled remotely, directly from the H_2S analyzer. Missing data were later recovered and loaded into the central database. As a result of the PC failure, automated daily 1-point QC checks were not performed on those days. Results for all available automated daily 1-point QC checks fall within the acceptable range, indicating the H_2S monitor was operating in accordance with the QAPP.

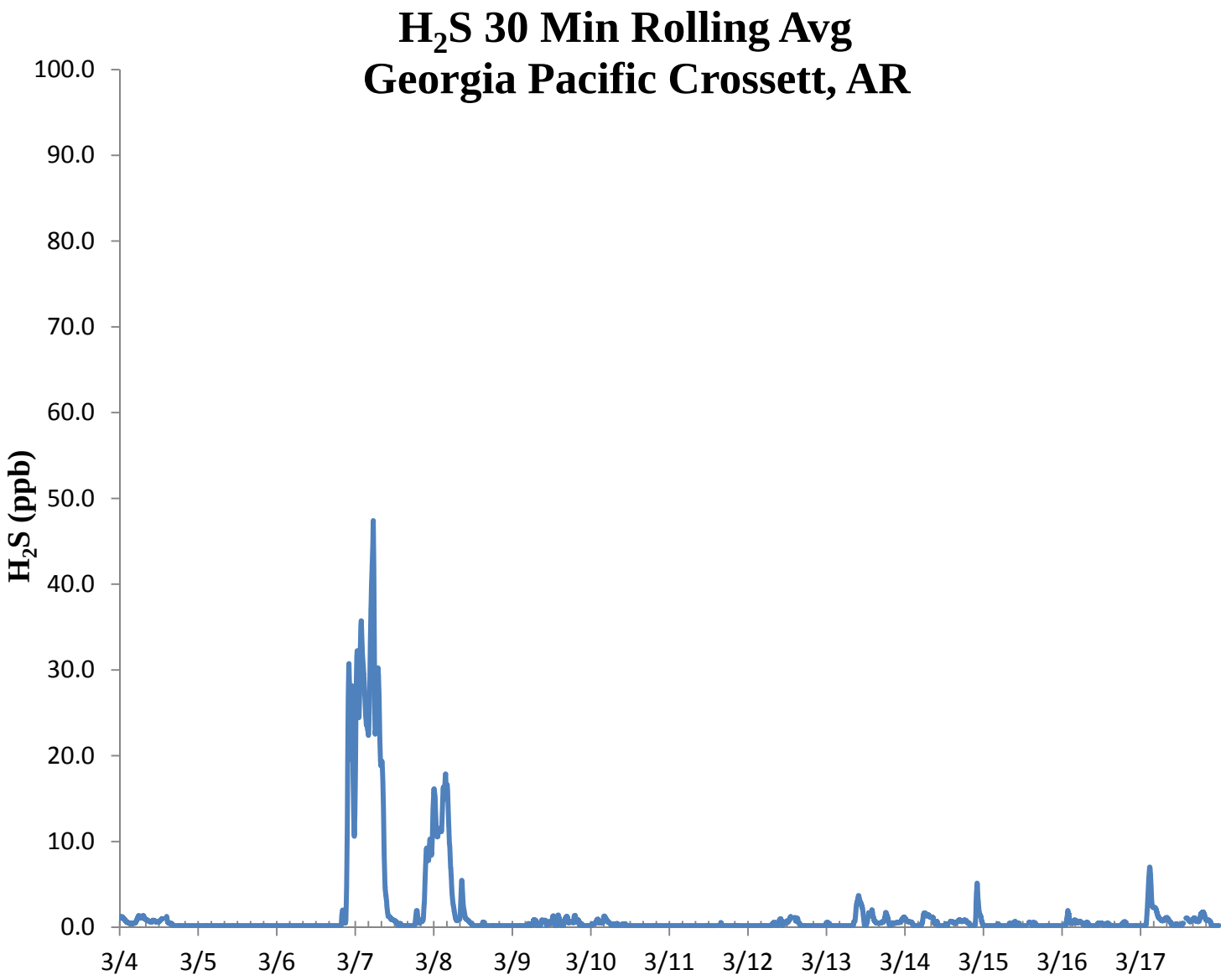
Please feel free to contact me if you have any questions or need any additional data.

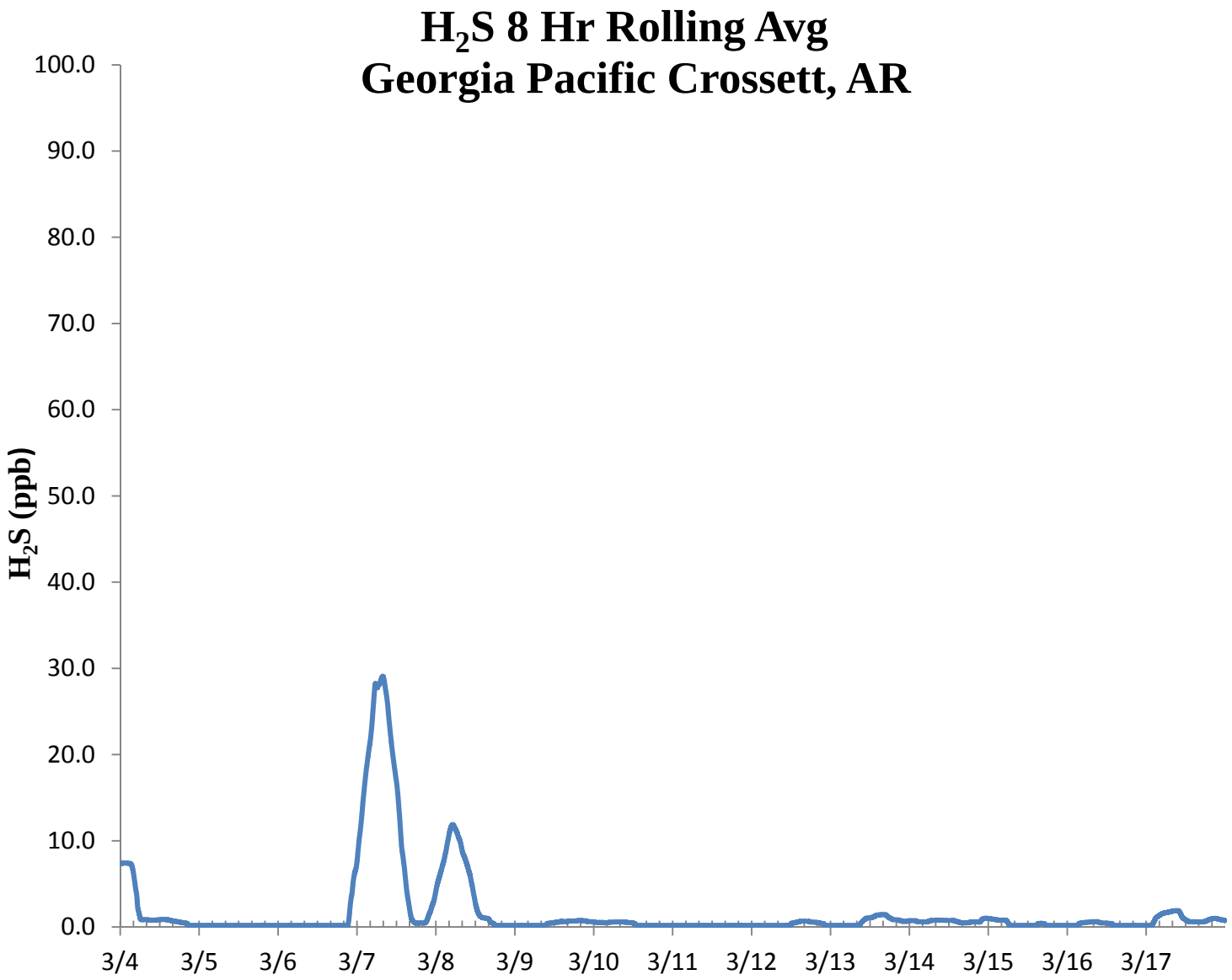
Sincerely,

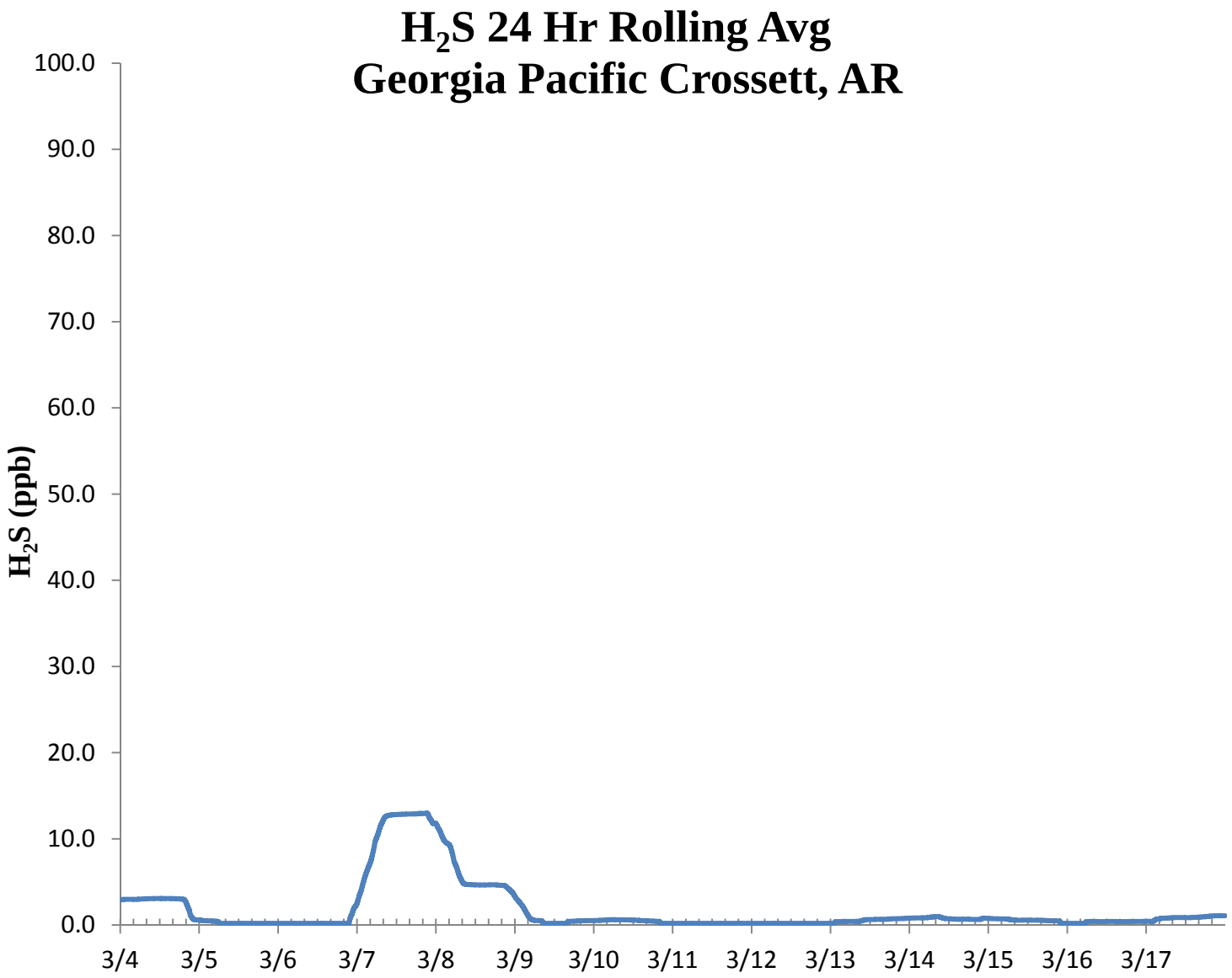
Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

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

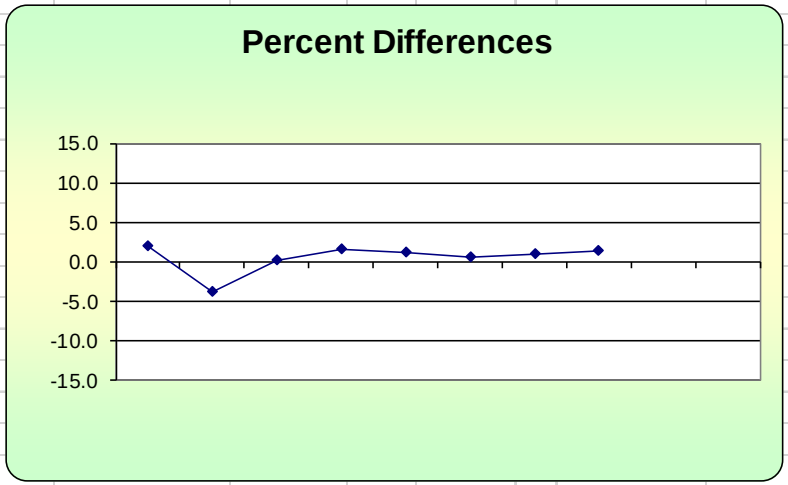

H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
3/4
3/5
3/6
3/7
3/8
3/9
3/10
3/11
3/12
3/13
3/14
3/15
3/16
3/17


H2S 8 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
3/4
3/5
3/6
3/7
3/8
3/9
3/10
3/11
3/12
3/13
3/14
3/15
3/16
3/17

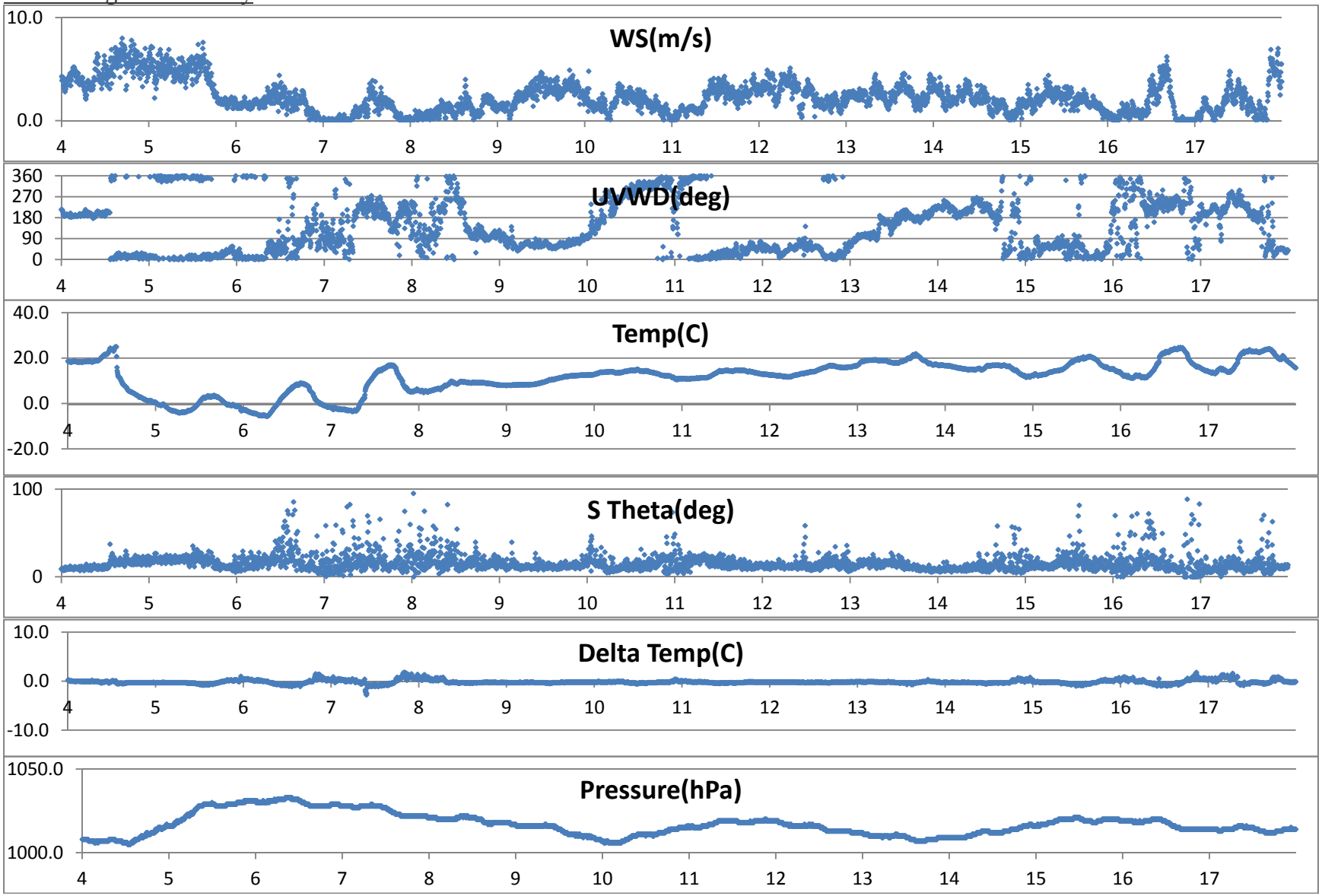

H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
3/4
3/5
3/6
3/7
3/8
3/9
3/10
3/11
3/12
3/13
3/14
3/15
3/16
3/17

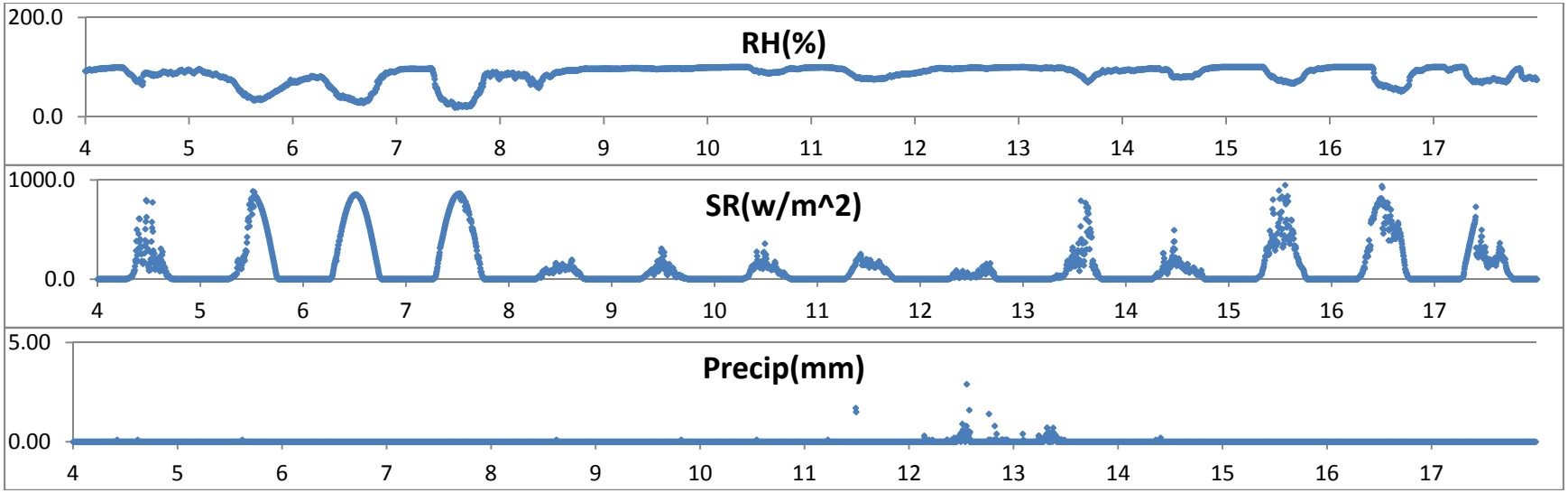
H_2S Assessment

GP - Crossett, AR			Pollutant type: H_2S					CV_{ub} (%)			Bias (%)	
Date	Meas Val (Y)	Audit Val (X)	d (Eqn. 1)	25th Percentile	d^2	|d|	$\|d\|^2$					
3/4/2015 13:00	71.4	70.0	2.0	0.464	4.000	2.000	4.000					
3/5/2015 13:00	67.4	70.0	-3.7	75th Percentile	13.796	3.714	13.796	n	S_d	S_{d2}	$\sum\|d\|$	"AB" (Eqn 4)
3/12/2015 13:00	70.1	70.0	0.1	1.357	0.020	0.143	0.020	8	1.796	4.512	11.429	1.429
3/13/2015 13:00	71.1	70.0	1.6		2.469	1.571	2.469	n-1	$\sum d$	$\sum d^2$	$\sum\|d\|^2$	"AS" (Eqn 5)
3/14/2015 13:00	70.8	70.0	1.1		1.306	1.143	1.306	7	4.000	24.571	24.571	1.085
3/15/2015 13:00	70.4	70.0	0.6		0.327	0.571	0.327					
3/16/2015 13:00	70.7	70.0	1.0		1.000	1.000	1.000				Bias (%) (Eqn 3)	Both Signs Positive
3/17/2015 13:00	70.9	70.0	1.3		1.653	1.286	1.653				2.16	TRUE
								CV (%) (Eqn 2)			Signed Bias (%)	Both Signs Negative
								2.82			+2.16	FALSE
								Upper Probability Limit			Lower Probability Limit	
								4.02			-3.02	



Meteorological Summary




200.0
RH(%)
0.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17
1000.0
SR(w/m^2)
0.0
4 5 6 7 8 9 10 11 12 13 14 15 16 17
5.00
Precip(mm)
0.00
4 5 6 7 8 9 10 11 12 13 14 15 16 17