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September 2, 2016

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 the biweekly data summary for the Georgia-Pacific (GP) hydrogen sulfide (H_2S) and meteorological monitoring program, at the GP Crossett mill, covering the calendar period of August 10th through August 23rd.

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.

There was a single occurrence of data loss during this two week period, in addition to than those resulting from automated daily 1-point QC and weekly calibration checks. On August 14th, a power failure resulted in approximately nine hours missing H_2S data. Due to the power failure, an automated 1-point QC check was not performed on the 14th. 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.

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,

TRC

Jonathan Bowser
Manager, Air Quality and Meteorological Monitoring

Air Measurements – Gainesville Office
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Gainesville, Florida 32653
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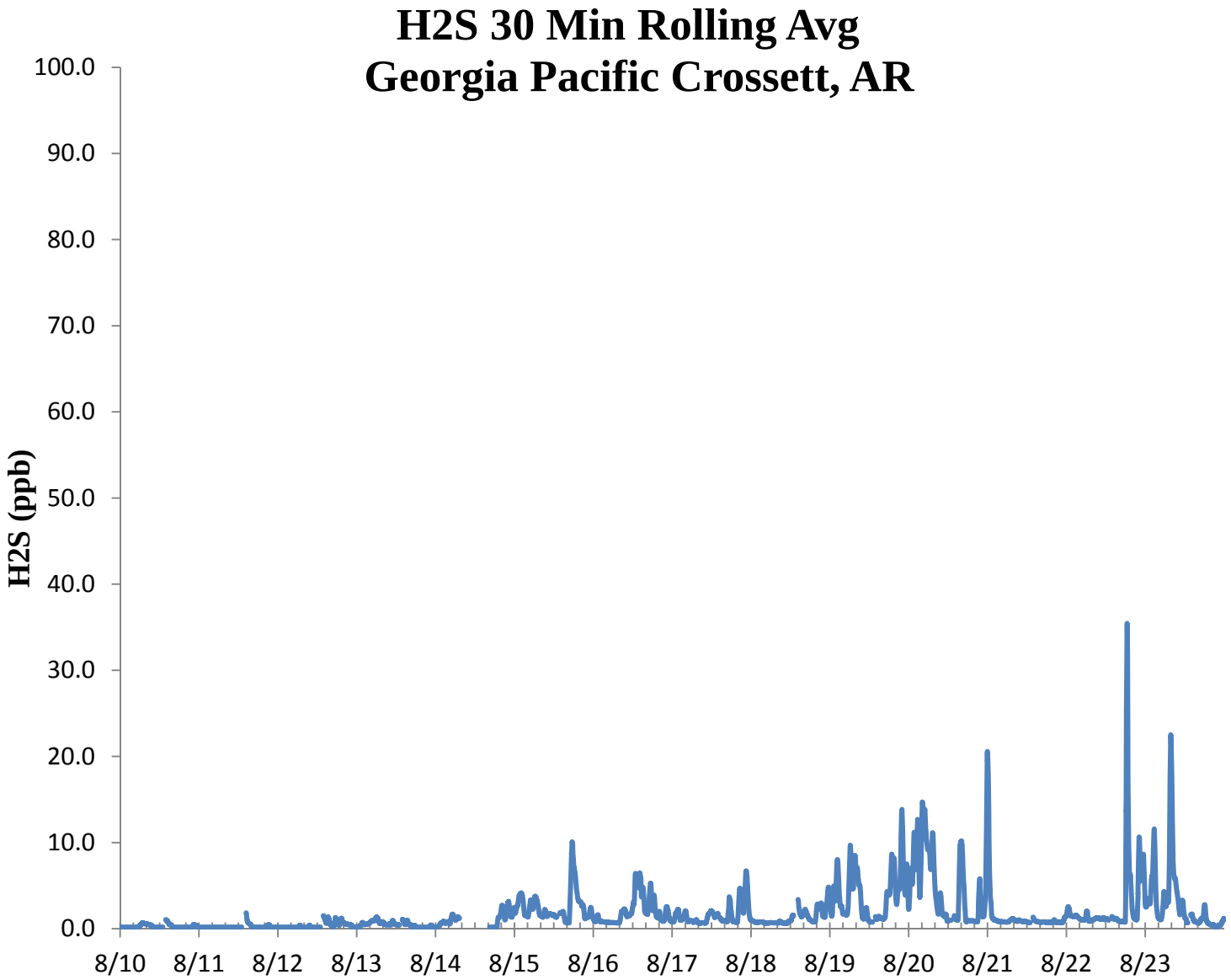
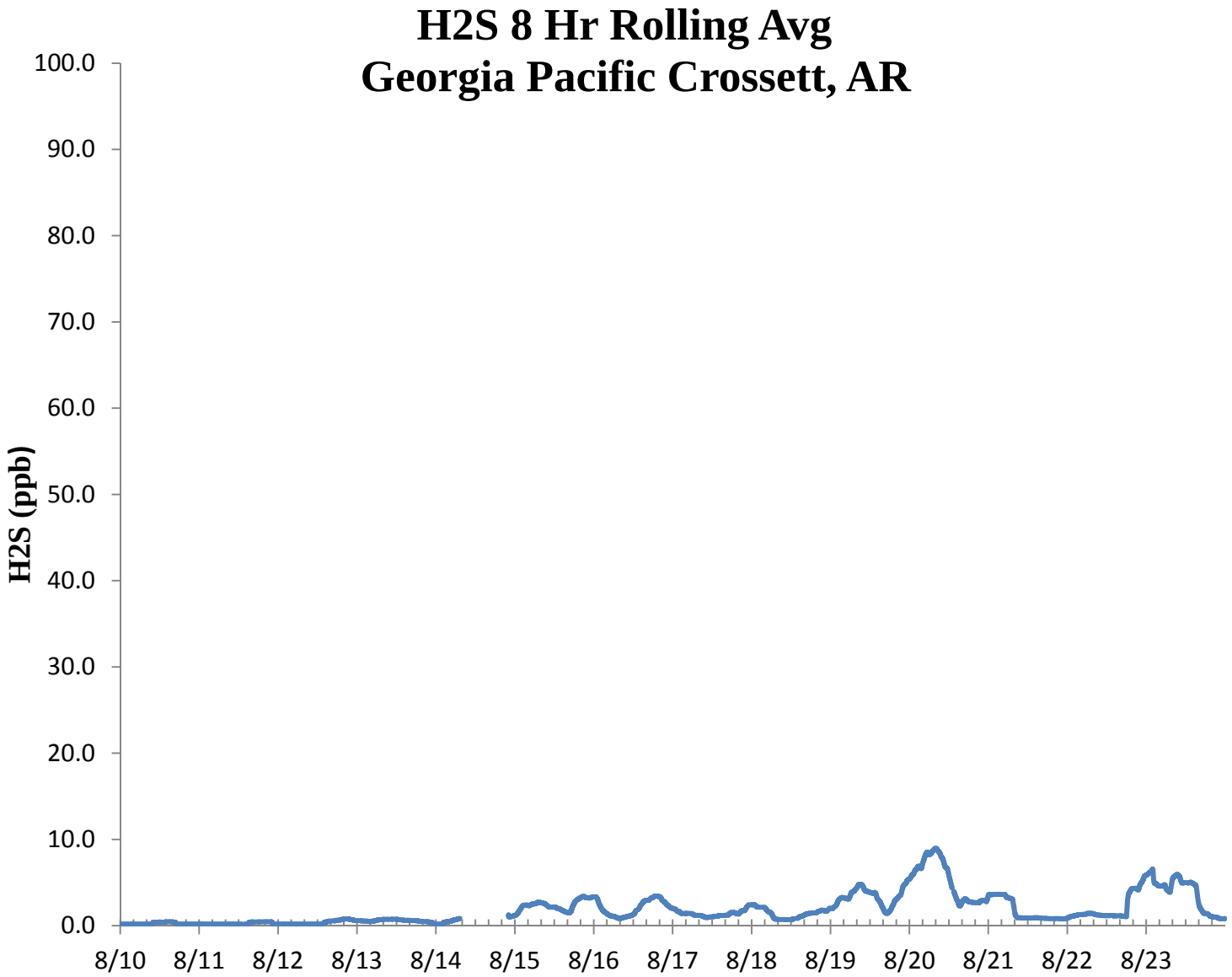
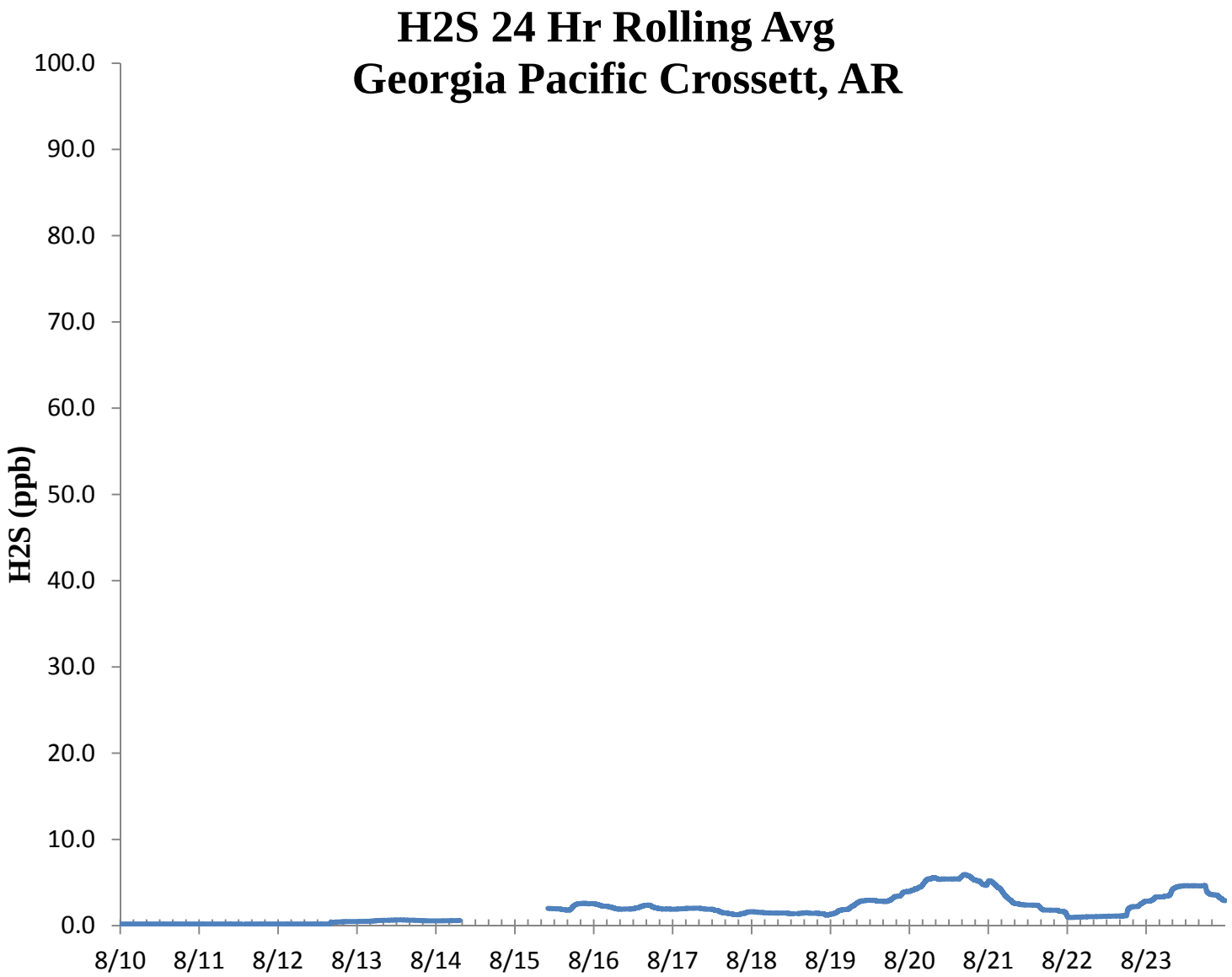
CC: Becky Keough, ADEQ Director via email: keogh@adeq.state.ar.us
Kara Allen, Environmental Engineer, USEPA Region 6 via email Allen.Kara@epa.gov

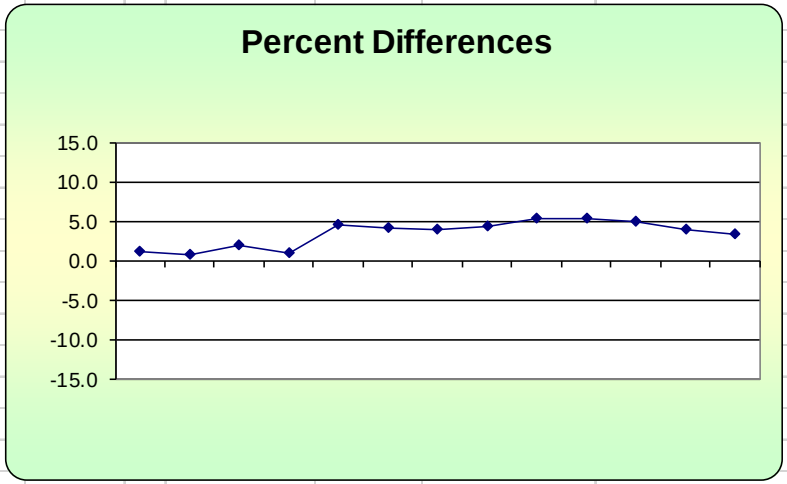

H2S 30 Min Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
8/10
8/11
8/12
8/13
8/14
8/15
8/16
8/17
8/18
8/19
8/20
8/21
8/22
8/23


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
8/10
8/11
8/12
8/13
8/14
8/15
8/16
8/17
8/18
8/19
8/20
8/21
8/22
8/23

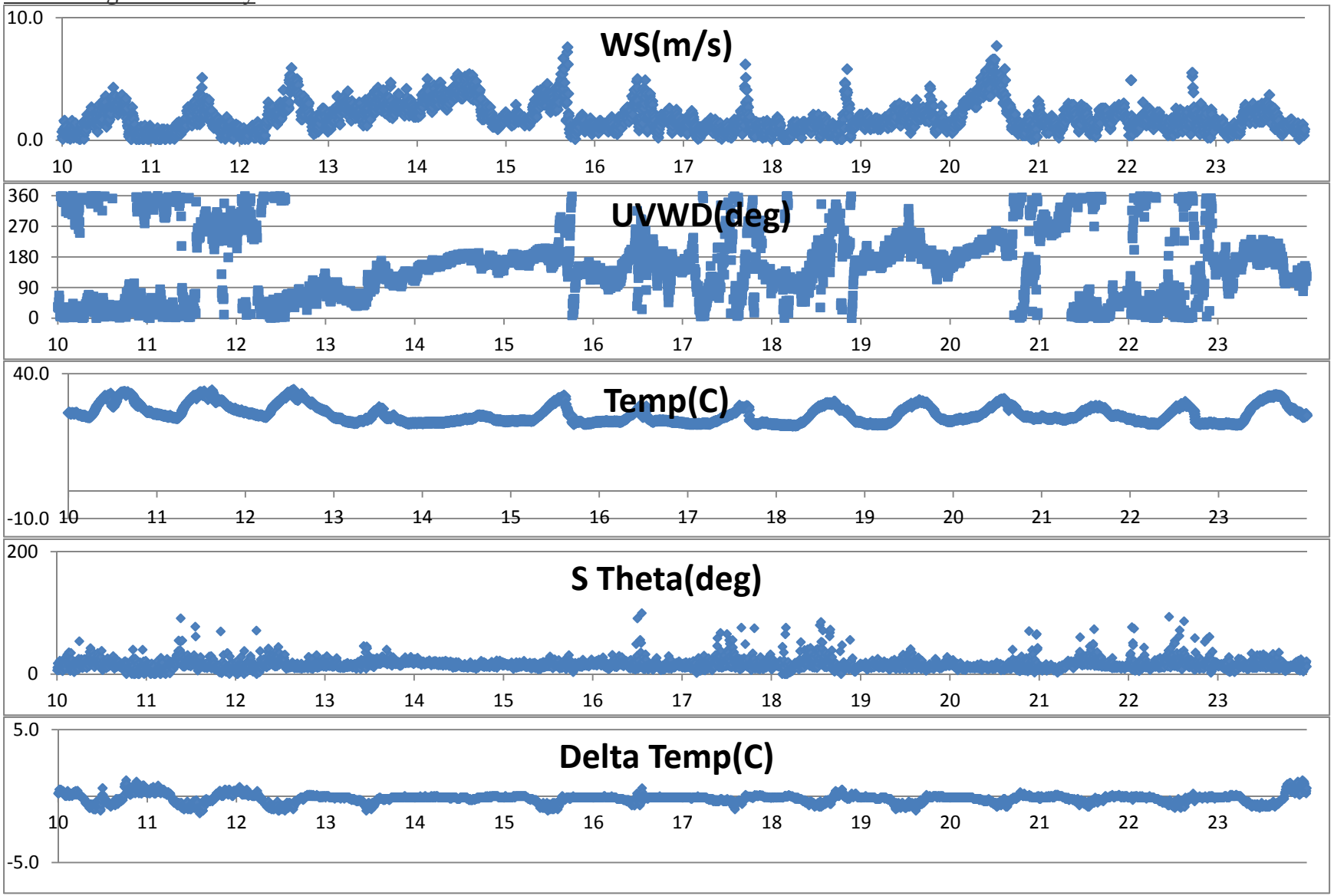

H2S 24 Hr Rolling Avg
Georgia Pacific Crossett, AR
H2S (ppb)
100.0
90.0
80.0
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
8/10
8/11
8/12
8/13
8/14
8/15
8/16
8/17
8/18
8/19
8/20
8/21
8/22
8/23

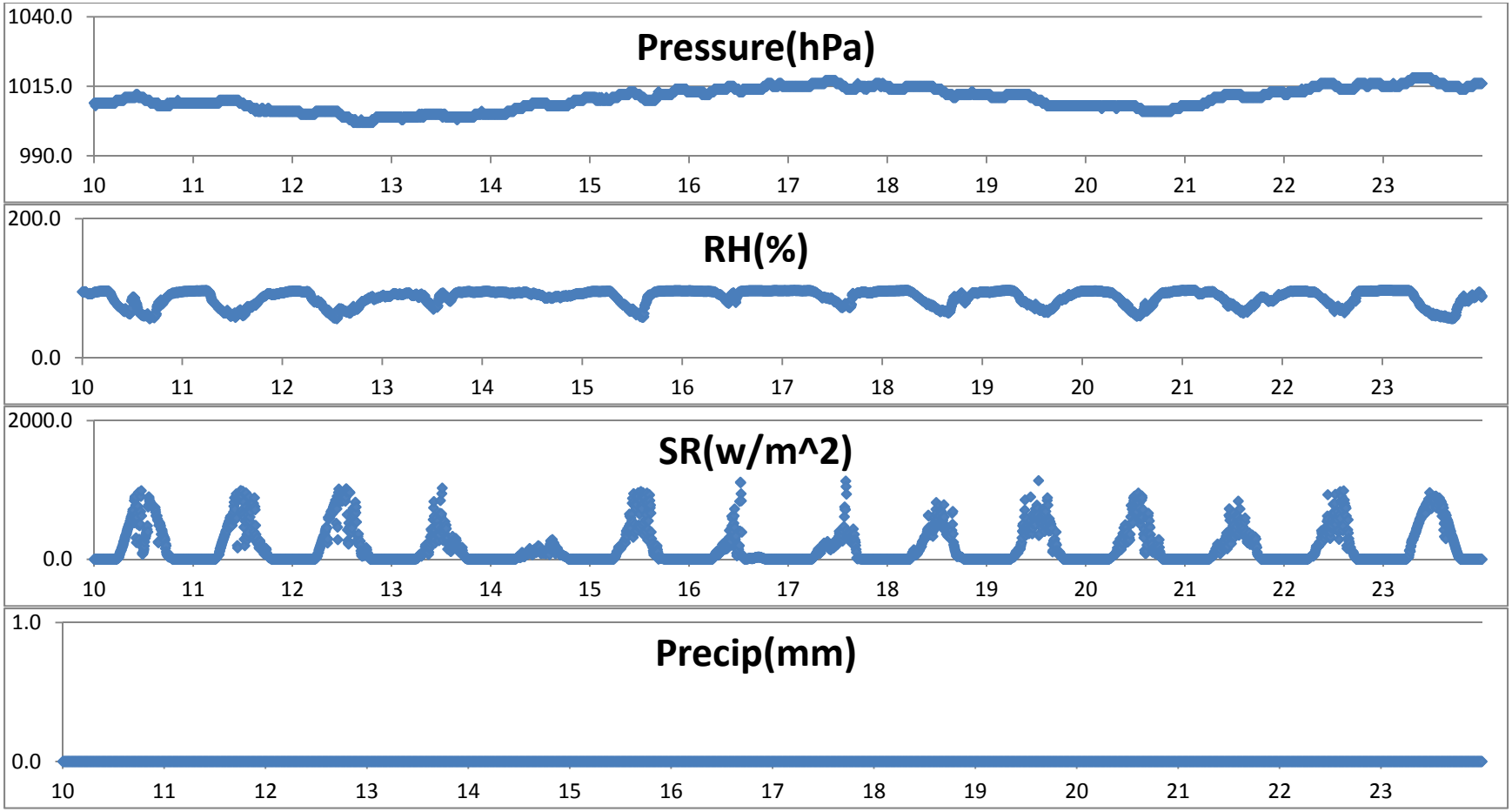
H_2S Assessment

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|	$\|d\|^2$					
8/10/2016 13:00	70.8	70.0	1.1	2.000	1.306	1.143	1.306					
8/11/2016 13:00	70.6	70.0	0.9	75th Percentile	0.735	0.857	0.735	n	S_d	S_{d2}	$\sum\|d\|$	"AB" (Eqn 4)
8/12/2016 13:00	71.4	70.0	2.0	4.571	4.000	2.000	4.000	13	1.649	10.083	45.000	3.462
8/13/2016 13:00	70.7	70.0	1.0		1.000	1.000	1.000	n-1	$\sum d$	$\sum d^2$	$\sum\|d\|^2$	"AS" (Eqn 5)
8/15/2016 13:00	73.2	70.0	4.6		20.898	4.571	20.898	12	45.000	188.388	188.388	1.649
8/16/2016 13:00	72.9	70.0	4.1		17.163	4.143	17.163					
8/17/2016 13:00	72.8	70.0	4.0		16.000	4.000	16.000				Bias (%) (Eqn 3)	Both Signs Positive
8/18/2016 13:00	73.1	70.0	4.4		19.612	4.429	19.612				4.28	TRUE
8/19/2016 13:00	73.7	70.0	5.3		27.939	5.286	27.939	CV (%) (Eqn 2)			Signed Bias (%)	Both Signs Negative
8/20/2016 13:00	73.7	70.0	5.3		27.939	5.286	27.939	2.27			+4.28	FALSE
8/21/2016 13:00	73.5	70.0	5.0		25.000	5.000	25.000					
8/22/2016 13:00	72.8	70.0	4.0		16.000	4.000	16.000	Upper Probability Limit			Lower Probability Limit	
8/23/2016 13:00	72.3	70.0	3.3		10.796	3.286	10.796	6.69			0.23	



Meteorological Summary




Pressure(hPa)
1040.0
1015.0
990.0
RH(%)
200.0
0.0
SR(w/m^2)
2000.0
0.0
Precip(mm)
1.0
0.0
10 11 12 13 14 15 16 17 18 19 20 21 22 23