

US EPA Region 4
Yellow Bluff Air Study
Wilcox County, Alabama
SESD Project Identification Number: 11-0068
November 2010 – December 2010

SO₂ CALIBRATION / VERIFICATION

AIR SAMPLING LOGBOOK

LOGBOOK 1 OF 1

DATES: 1/24/11 THRU: 1/28/11



US EPA Region 4
Yellow Bluff Air Study
Wilcox County, Alabama
SESD Project Identification Number: 11-0068
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SO₂ Calibration / Verification

US EPA Region 4
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US EPA Region 4

Yellow Bluff Air Study
Wilcox County, Alabama

SESD Project Identification Number: 11-0068

November 2010 – December 2010

Station I.D. YBB

Site Description ROLAND COOPER STATE PARK (BACKGROUND)

Date: 1/24/11 Time: 8:30 Operator: CALLIE NOAH

CALIBRATION SYSTEM

Gas Calibrator ID: EPA A77045

MFC(s) Calibrated: 10 / 27 / 2010

Gas Cylinder Mfg.: SCOTT AIR LIQUIDE AMERICA

Cylinder ID: FF 4185

Concentration: 10.08 ^{SO₂} _{H₂S PPM} ^{cert 1/24/11}

Cert Date: 8 / 30 / 2010

SO₂ MONITOR

Monitor ID: EPA A77126

SETTINGS:

COEF: 1.164

BKG: 3.23 PPB

RANGE: 500 PPB

AVG. TIME: 60 sec

TEMPERATURES:

INT.: 31.2 C

CHAMBER: 44.9 C

CONVERTER: 322 C

CALIBRATION SYSTEM

SO₂ MONITOR / DATA LOGGER

Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1989	ZERO	1989	0.00	0.2	0.1
1988	400	1907	79	398	403
1985	140	1960	27.7	137	137
		INITIAL CALIBRATION			

SETTINGS CHANGED?

YES

OR

NO

(CIRCLE ONE)

COEF: 1.164 BKG: 3.39 PPB RANGE: 500 PPB AVG. TIME: 60 sec

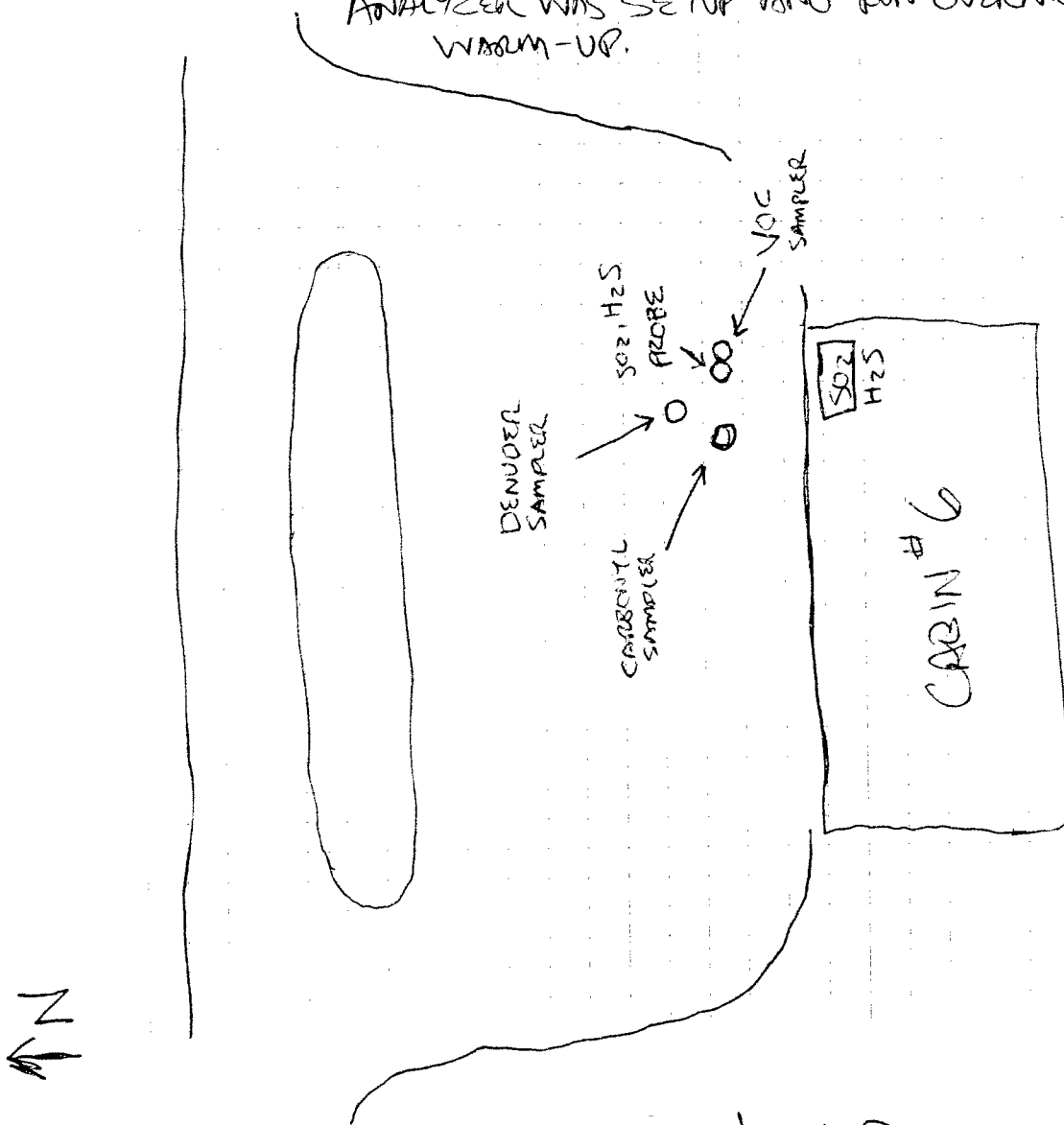
NEW SETTINGS: Note: If calibration settings changed, then you must re-verify.

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Continuation of field record for sample INITIAL CALIBRATION ON 1/24/11 @ 8:30

Other Notes/Sketch (Include North and Scale)

ADJUSTED SO₂ AND CS RANGES TO 500ppb.
CHANGES APPLIED TO DATALOGGER AS WELL.
ANALYZER WAS SETUP AND RUN OVERNIGHT TO
WARM-UP.



Sample Team Leader/Sampler Signature/Date *[Signature]* 1/24/11

US EPA Region 4
Yellow Bluff Air Study
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Station I.D. YBB

Site Description ROLAND COOPER ST. PARK (BACKGROUND)

Date: 1/24/11 Time: 9:55 Operator: GARY NOVA

CALIBRATION SYSTEM

Gas Calibrator ID: EPA A77045

MFC(s) Calibrated: 10, 27, 10

Gas Cylinder Mfg.: SCOTT AIR LIQUIDE
AMERICA

Cylinder ID: FF 4185

Concentration: 10.08 H2S PPM

Cert Date: 8 / 30 / 2010

SO₂ MONITOR

Monitor ID: EPA A77126

SETTINGS:	TEMPERATURES:
COEF: <u>1.164</u>	INT.: <u>31.1</u> C
BKG: <u>3.39</u> PPB	CHAMBER: <u>44.9</u> C
RANGE: <u>500</u> PPB	CONVERTER: <u>322</u> C
AVG. TIME: <u>60</u> sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1990.1	ZERO	1990.1	0.00	0.36	0.528
1986.4	400	1907.3	79.120	403	402
CALIBRATION VERIFICATION					

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: ~~Note: If calibration setting changed, then you must re-verify.~~

COEF: BKG: N/A PPB RANGE: PPB AVG. TIME: sec

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Continuation of field record for sample YES

Other Notes/Sketch (Include North and Scale)

CAL VERIFICATION

Sample Team Leader/Sampler Signature/Date  11/24/10

S
N
C

US EPA Region 4

Yellow Bluff Air Study
Wilcox County, Alabama

SESD Project Identification Number: 11-0068

November 2010 – December 2010

Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 11/24/11 Time: 2:50 Operator: CALES NOAA

CALIBRATION SYSTEM

Gas Calibrator ID: EPA A77045

MFC(s) Calibrated: 10, 27, 10

Gas Cylinder Mfg.: SCOTT AIR LIQUIDE

Cylinder ID: FF 4185
AMERICA

Concentration: 10.08 H2S PPM

Cert Date: 8 / 30 / 2010

SO₂ MONITOR

Monitor ID: EPA 926450

SETTINGS:

COEF: 0.556

BKG: 3.12 PPB

RANGE: 500 PPB

AVG. TIME: 60 sec

TEMPERATURES:

INT.: 25.4 C

CHAMBER: 42.8 C

CONVERTER: 379 C

CALIBRATION SYSTEM

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1987	ZERO	1987	0.00	-1.0	-0.1
1988	400	1905	79.17	383	381
1988	140	1955	27.70	137	138.5
INITIAL CALIBRATION					

SETTINGS CHANGED?

YES

OR

NO

(CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: 0.578

BKG: 3.17 PPB

RANGE: 500 PPB

AVG. TIME: 60 sec

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Continuation of field record for sample YBA

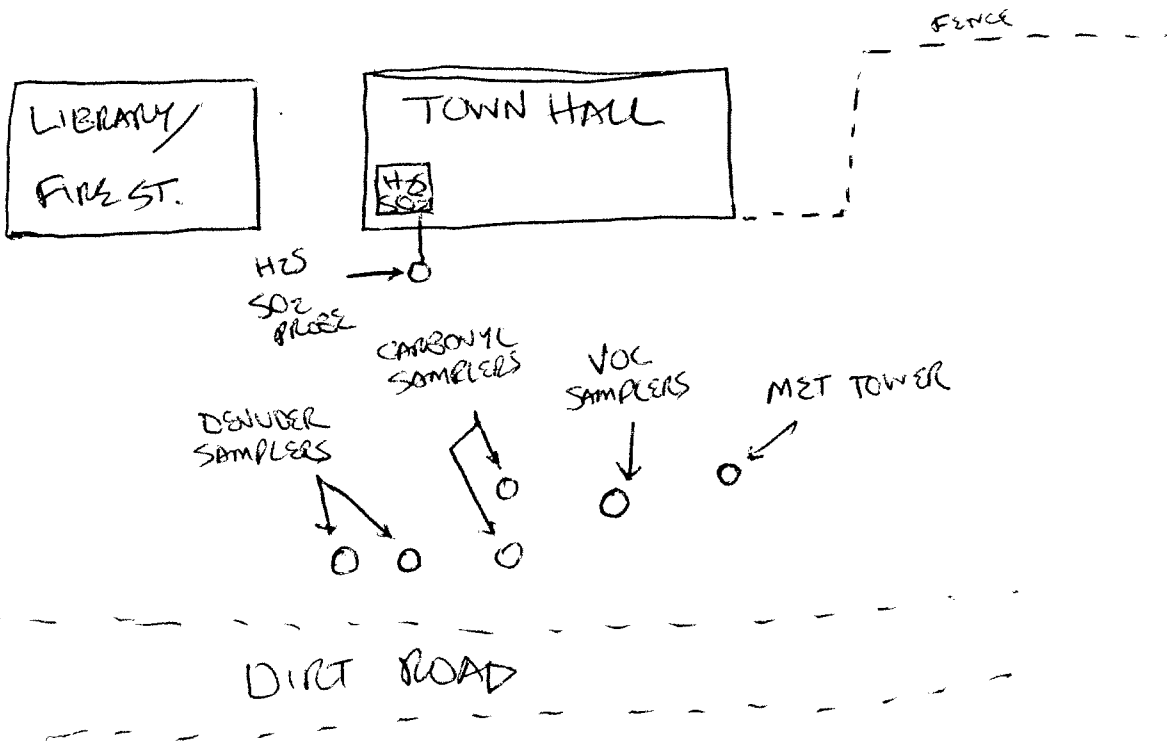
Other Notes/Sketch (Include North and Scale)

INITIAL CALIBRATION

THE CHAMBER TEMP HAS BEEN FLUCTUATING IN AND OUTSIDE OF THE LOWER OPERATING RANGE. ANALYZER DOES NOT SEEM TO BE AFFECTED. ALSO, THE SHELTER TEMPERATURE IS LOW, AT ABOUT 16°C. HEAT HAS BEEN TURNED ON AND IT IS SLOWLY RISING. TEMP IS CURRENTLY 16.2°C. RANGE WAS ADJUSTED TO 500ppb.

N

PARK AVENUE



Sample Team Leader/Sampler Signature/Date *[Signature]* 11/24/11

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Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 1/24/11 Time: 16:02 Operator: CAKES NEAH

CALIBRATION SYSTEM

Gas Calibrator ID: EPA A77045

MFC(s) Calibrated: 10, 27, 10

Gas Cylinder Mfg.: SCOTT AIR LIQUIDE

Cylinder ID: FF 4185 AMERICA

Concentration: 10.08 H2S PPM

Cert Date: 8 / 30 / 2010

SO₂ MONITOR

Monitor ID: EPA 926450

SETTINGS:	TEMPERATURES:
COEF: <u>0.578</u>	INT.: <u>26.5</u> C
BKG: <u>3.17</u> PPB	CHAMBER: <u>42.9</u> C
RANGE: <u>500</u> PPB	CONVERTER: <u>379</u> C
AVG. TIME: <u>60</u> sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1990	ZERO	1990	0.00	0.57	0.26
1979	400	1904	79.1	401	401
CALIBRATION VERIFICATION					

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: N/A RANGE: _____ PPB AVG. TIME: _____ sec

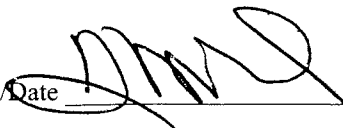
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Continuation of field record for sample YBA 1/24/11

Other Notes/Sketch (Include North and Scale)

SEE NOTES FOR CALIBRATION

Sample Team Leader/Sampler Signature/Date

 1/24/11

US EPA Region 4

Yellow Bluff Air Study

Wilcox County, Alabama

SESD Project Identification Number: 11-0068

November 2010 – December 2010

Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 1/25/11 Time: 17:45 Operator: GREG NOAH

CALIBRATION SYSTEM

Gas Calibrator ID: _____

MFC(s) Calibrated: _____ / _____ / _____

Gas Cylinder Mfg.: _____

Cylinder ID: _____

Concentration: _____ H2S PPM

Cert Date: _____ / _____ / _____

SO₂ MONITOR

Monitor ID: _____

SETTINGS:	TEMPERATURES:
COEF: _____	INT.: _____ C
BKG: _____ PPB	CHAMBER: _____ C
RANGE: _____ PPB	CONVERTER: _____ C
AVG. TIME: _____ sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
	ZERO		0.00		

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: _____ PPB RANGE: _____ PPB AVG. TIME: _____ sec

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Continuation of field record for sample YBA

Other Notes/Sketch (Include North and Scale)

DOWNLOADED MINUTE, HOUR, AND POWER
FAILURE DATA FROM H₂S/SO₂ ANALYZER.

Sample Team Leader/Sampler Signature/Date _____

US EPA Region 4
Yellow Bluff Air Study
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Station I.D. YBB

Site Description ROLAND COOPER STATE PARK (BACKGROUND) CABIN #6

Date: 1/26/11 Time: 9:53 Operator: AMELO NOAH

CALIBRATION SYSTEM

Gas Calibrator ID: EPA A77045

MFC(s) Calibrated: 10/27/10

Gas Cylinder Mfg.: SCOTT AIR LIQUIDE AMERICA

Cylinder ID: FF 4185

Concentration: 10.08 SO₂ (5' 1/26/11)
H₂S PPM

Cert Date: 8/30/2010

SO₂ MONITOR

AT7126

Monitor ID: EPA 926150

SETTINGS:	TEMPERATURES:
COEF: <u>1.164</u>	INT.: <u>30.6</u> C
BKG: <u>3.39</u> PPB	CHAMBER: <u>44.9</u> C
RANGE: <u>500</u> PPB	CONVERTER: <u>322</u> C
AVG. TIME: <u>60</u> sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1987	ZERO	1987	0.00	0.00	6.03
1990	400	1906.9	79.14	402	399
1985	140	1957.7	27.68	139	139.5
MID STUDY Z/P/S CHECK					

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: _____ PPB RANGE: _____ PPB AVG. TIME: _____ sec


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Continuation of field record for sample YBB

Other Notes/Sketch (Include North and Scale)

PUT ANALYZER INTO MAINTENANCE MODE AT ^{@ 11/26/11} 9:53 10:53
DATELOGGED TIME. CHECK PASSES +/- 10% CRITERIA
AS STATED IN QAPP. CHANNELS BROUGHT BACK
ON LINE AT 12:00 AFTER H₂S CHECK.

Sample Team Leader/Sampler Signature/Date

 11/26/11

US EPA Region 4

Yellow Bluff Air Study
Wilcox County, Alabama

SESD Project Identification Number: 11-0068

November 2010 – December 2010

Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 1/26/11 Time: 15:05 Operator: GREG NOAT

CALIBRATION SYSTEM	
Gas Calibrator ID:	^{EPA} <u>A77045</u>
MFC(s) Calibrated:	<u>10, 27, 10</u>
Gas Cylinder Mfg.:	<u>FF4185</u> <small>SCOT AIR LIQUIDE AMERICA</small>
Cylinder ID:	<u>FF4185</u>
Concentration:	<u>10.08</u> H2S PPM
Cert Date:	<u>8 / 30 / 2010</u>

SO ₂ MONITOR	
Monitor ID:	<u>EPA A77126</u> ⁹²⁶⁴⁵⁰ <small>1/26/11</small>
SETTINGS:	TEMPERATURES:
COEF: <u>0.578</u>	INT.: <u>29.6</u> C
BKG: <u>3.17</u> PPB	CHAMBER: <u>43.1</u> C
RANGE: <u>500</u> PPB	CONVERTER: <u>378</u> C
AVG. TIME: <u>60</u> sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
1987.1	ZERO	1987.1	0.00	0.11	-0.61
1984.3	400	1905.2	19.120	406	404
1985.7	140	1955.9	27.686	141.7	140
	MID STUDY	Z/P/S	CHECK		

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: _____ PPB RANGE: _____ PPB AVG. TIME: _____ sec

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Continuation of field record for sample YBA

Other Notes/Sketch (Include North and Scale)

PUT ANALYZER INTO MAINTENANCE MODE AT
APPROXIMATELY 15:05. ANALYZER PASSED THE
Z/P/S CHECK CRITERIA AS STATED IN QAPP (+/- 10%)
DATA DOWNLOADED FROM SO₂/H₂S ANALYZER INCLUDING
HOURLY, MINUTE AND POWER FAILURE DATA.

Sample Team Leader/Sampler Signature/Date

AMJ 1/26/11

US EPA Region 4

Yellow Bluff Air Study

Wilcox County, Alabama

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Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 1/27/11 Time: 17:30 Operator: ERIE NOAH

CALIBRATION SYSTEM

Gas Calibrator ID: _____

MFC(s) Calibrated: _____ / _____ / _____

Gas Cylinder Mfg.: _____

Cylinder ID: _____

Concentration: _____ H2S PPM

Cert Date: _____ / _____ / _____

N/A

SO₂ MONITOR

Monitor ID: _____

SETTINGS:	TEMPERATURES:
COEF: _____	INT.: _____ C
BKG: _____ PPB	CHAMBER: _____ C
RANGE: _____ PPB	CONVERTER: _____ C
AVG. TIME: _____ sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
	ZERO		0.00		

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: _____ PPB RANGE: _____ PPB AVG. TIME: _____ sec

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Continuation of field record for sample YBA

Other Notes/Sketch (Include North and Scale)

DOWNLOADED HOURLY, MINUTE, AND POWER FLAG
DATA FROM THE H₂S/SO₂ ANALYZER AT
APPROXIMATELY 17:30.

Sample Team Leader/Sampler Signature/Date

M. W. R. 11/27/11

US EPA Region 4

Yellow Bluff Air Study

Wilcox County, Alabama

SESD Project Identification Number: 11-0068

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Station I.D. YBB

Site Description ROLAND COOPER STATE PARK (BACKGROUND) CABIN #6

Date: 1/27/11 Time: 17:50 Operator: CAROL NOAH

CALIBRATION SYSTEM	
Gas Calibrator ID:	_____
MFC(s) Calibrated:	____ / ____ / ____
Gas Cylinder Mfg:	_____
Cylinder ID:	_____
Concentration:	_____ H2S PPM
Cert Date:	____ / ____ / ____ <u>N/A</u>

SO ₂ MONITOR	
Monitor ID:	_____
SETTINGS:	TEMPERATURES:
COEF: _____	INT.: _____ C
BKG: _____ PPB	CHAMBER: _____ C
RANGE: _____ PPB	CONVERTER: _____ C
AVG. TIME: _____ sec	

CALIBRATION SYSTEM				SO ₂ MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO ₂ (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO ₂ (PPB)	Data Logger SO ₂ (PPB)
	ZERO		0.00	<u>0.00</u>	
				<u>1127/11</u>	

SETTINGS CHANGED?	YES	OR	NO	(CIRCLE ONE)
NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.				
COEF: _____	BKG: _____	PPB	RANGE: _____	PPB
			AVG. TIME: _____	sec

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Continuation of field record for sample YBB

Other Notes/Sketch (Include North and Scale)

DOWNLOAD HOURLY/MINUTE, AND POWER FLAG DATA
FROM H₂S/SO₂ ANALYZER.

Sample Team Leader/Sampler Signature/Date

 1/27/11

US EPA Region 4

Yellow Bluff Air Study
Wilcox County, Alabama

SESD Project Identification Number: 11-0068

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Station I.D. YBB

Site Description ROLAND COOPER STATE PARK (BACKGROUND) CABIN#6

Date: 1/28/11 Time: 9:00 Operator: Craig NOAA

CALIBRATION SYSTEM	
Gas Calibrator ID: <u>EPA A77045</u>	
MFC(s) Calibrated: <u>10/27/2010</u>	
Gas Cylinder Mfg.: <u>SCOT AIR LIQUIDE AMERICA</u>	
Cylinder ID: <u>FF4185</u>	
Concentration: <u>10.08</u> ^{SO2} _{H2S} PPM <u>(1/28/11)</u>	
Cert Date: <u>8/30/2010</u>	

SO2 MONITOR	
Monitor ID: <u>EPA A77126</u>	
SETTINGS: COEF: <u>1.164</u> BKG: <u>3.40</u> PPB RANGE: <u>500</u> PPB AVG. TIME: <u>60</u> sec	TEMPERATURES: INT.: <u>31.3</u> C CHAMBER: <u>44.9</u> C CONVERTER: <u>322</u> C

CALIBRATION SYSTEM				SO2 MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO2 (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO2 (PPB)	Data Logger SO2 (PPB)
1982	ZERO	1982	0.00	0.01	0.0
1986.4	400	1907.2	79.13	403	404.4
1983.4	140	1957.8	27.68	136.3	137.0
POST-STUDY VERIFICATION					

SETTINGS CHANGED?	YES	OR	<u>NO</u>	(CIRCLE ONE)
NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.				
COEF: _____	BKG: _____	PPB	RANGE: _____	PPB
			AVG. TIME: _____	sec


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Continuation of field record for sample YBB

Other Notes/Sketch (Include North and Scale)

POST-STUDY VERIFICATION PASSED QC CRITERIA
DENOTED IN QAPP. ANALYZER TAKEN OFF-LINE
AT APPROXIMATELY 11:00. DATA DOWNLOADED
FROM DATA LOGGER.

Sample Team Leader/Sampler Signature/Date

 1/28/11

US EPA Region 4
Yellow Bluff Air Study
Wilcox County, Alabama
SESD Project Identification Number: 11-0068
November 2010 – December 2010

Station I.D. YBA

Site Description YELLOW BLUFF TOWN HALL

Date: 1/28/11 Time: 12:45 Operator: GREG NOAH

CALIBRATION SYSTEM	
Gas Calibrator ID:	<u>EPA 77045</u>
MFC(s) Calibrated:	<u>10, 27, 2010</u> <u>SCOTT AIR LIQUIDE</u>
Gas Cylinder Mfg.:	<u>AMERICA</u>
Cylinder ID:	<u>FF 4185</u>
Concentration:	<u>10.08</u> ^{SO2} _{H2S} <u>PPM</u> <u>1/28/11</u>
Cert Date:	<u>8, 30, 2010</u>

SO2 MONITOR	
Monitor ID:	<u>EPA 926450</u>
SETTINGS:	TEMPERATURES:
COEF: <u>0.578</u>	INT.: <u>29.4</u> C
BKG: <u>3.18</u> PPB	CHAMBER: <u>43.1</u> C
RANGE: <u>500</u> PPB	CONVERTER: <u>378</u> C
AVG. TIME: <u>60</u> sec	

CALIBRATION SYSTEM				SO2 MONITOR / DATA LOGGER	
Total Flow Setting cc/min.	Concentration Setting SO2 (PPB)	Zero Air Flow cc/min	Cal. Gas Flow cc/min	Monitor SO2 (PPB)	Data Logger SO2 (PPB)
1985.6	ZERO	1985.6	0.00	-0.5	-0.6
1983.5	400	1906.5	79.16	405.0	400
1985.4	140	1957.8	27.68	137.8	137
END OF STUDY Z/P/S CHECK					

SETTINGS CHANGED? YES OR NO (CIRCLE ONE)

NEW SETTINGS: Note: If calibration setting changed, then you must re-verify.

COEF: _____ BKG: _____ PPB RANGE: _____ PPB AVG. TIME: _____ sec


US EPA Region 4
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Continuation of field record for sample YBA

Other Notes/Sketch (Include North and Scale)

ANALYZER PASSED Z/P/S CRITERIA AS
OUTLINED IN THE QAPP. ANALYZER TAKEN
OFF-LINE AT APPROXIMATELY 14:30. DATA
INCLUDING HOURLY, MINUTE, AND POWER FLAGS
WERE DOWNLOADED.

Sample Team Leader/Sampler Signature/Date

 11/28/11

End of logbook
mc
-28-11