

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

CARBONYL

AIR SAMPLING LOGBOOK

LOGBOOK 1 OF 1

DATES: 1-24-2011 THRU: 1/28/11



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Yellow Bluff Air Study
Wilcox County, Alabama
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Carbonyl Sampling

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Station I.D. YBB Sample I.D. YBBAD01
<Station ID>/<media code>/<sequential sample number>

Site Description Robert Cooper State Park Capra #6

Sampler Serial Number # CS-20012

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample M. Crowe

Start Date 1-24-2011 Start Time 11:10

Start Flow 998 cc/m Start ET 0 00

Stop Date 1/25/2011 Stop Time 10:43

Stop Flow 993 cc/min Stop ET 23.53

Total Time
Sample Duration
23h 33min = 1413 min

Notes: (other measurements)
Leak check -0009 sccm

START Buck: 1023 cc/m OPI 740: 763.3 mmtg Temp: 13.7°C

STOP Buck: 1055 cc/m 755.12 mmtg 10.2°C

Avg: 1039 cc/m x 1413 min = 1468 l total volume



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Continuation of field record for sample YBBA01

Other Notes/Sketch (Include North and Scale)

STANDARDS

Buck A54085 used for all carbonyl flow checks unless otherwise noted.

Druck DPI 740 628-99-08 used for ambient pressure measurement unless otherwise noted.

Fisher thermometer 020807-07 used for all temps unless otherwise noted.

SESD's BIOS ML-800 used for some pressure and temperature measurements.

All sample media provided by ERG.

Waters DNPH: WAT037500

Lot: 006130239C

One lot # for all cartridges.

Sample Team Leader/Sampler Signature/Date

Michelle Crane 1/24/11

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Station I.D. YBA Sample I.D. YBAA01
YBAG ^{mc} _{1/24/11}
<Station ID><media code><sequential sample number>

Site Description Yellow Bluff Town Hall

Sampler Serial Number # CS-20013

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-24-11 Start Time 1754

Start Flow 1000 sccm Start ET 0-00

Stop Date 1-25-11 Stop Time 1704

Stop Flow 987 sccm Stop ET 0-00 Not working

Total time: 1390 min.

Notes: (other measurements)

Leak check ≤ 2 sccm

START

1-24 BIOS 1087 cc/m 762.23 mmHg 12.13°C

Buck

From BIOS

1-24/11
mc

STOP

1099 cc/m

752.99

10.1°C

Avg:

1093 cc/m

X

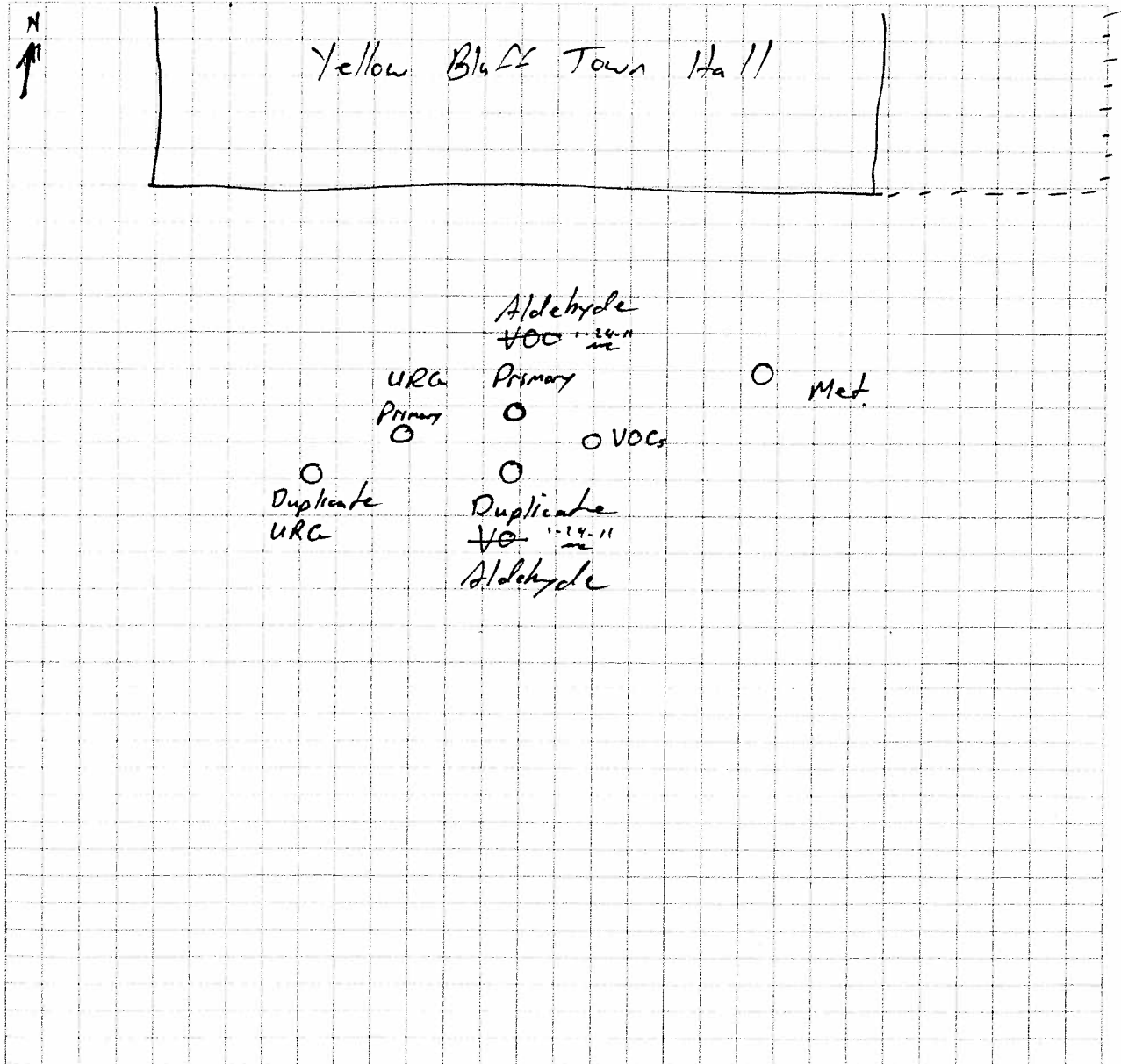
1390 min = 1519 l



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Continuation of field record for sample YBAA01

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date Mil Crowe 1-24-11

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Station I.D. YBA Sample I.D. YBAA91
<Station ID><media code><sequential sample number>

Site Description Yellow Bluff Town Hall Duplicate

Sampler Serial Number # CS-20014

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-24-11 Start Time 1754

Start Flow 1007 sccm Start ET 17-82

Stop Date 1-25-11 Stop Time 1711

Stop Flow 1001 sccm Stop ET 41.44

1397 min total time
+9

Notes: (other measurements)

Leak check -0005 sccm ✓

1-24 Buck e start 1067 cc/min
 START
 STOP 1079

762.23 mmHg
 From BIOS
 752.9

12.17°C
 From Bios
 10.1

Aug. 1073 cc/min x 1397 min = 1499 l

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Continuation of field record for sample YBAA 91

Other Notes/Sketch (Include North and Scale)

1-24-11
[Handwritten signature]

Sample Team Leader/Sampler Signature/Date *Mike Crave* 1-24-11

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Station I.D. YBB Sample I.D. YBBA02
<Station ID>/<media code>/<sequential sample number>

Site Description Roland Cooper State Park Cabin #6

Sampler Serial Number # CS-20012

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-25-11 Start Time 1056

Start Flow 993 cc/m Start ET 0.00

Stop Date 1-26-11 Stop Time 1043

Stop Flow 993 Stop ET 23.81

1427 total/min

Notes: (other measurements)

START Buck: 1055 cc/m Druck: 755.12 mmHg Temp.: 10.2^{°C}

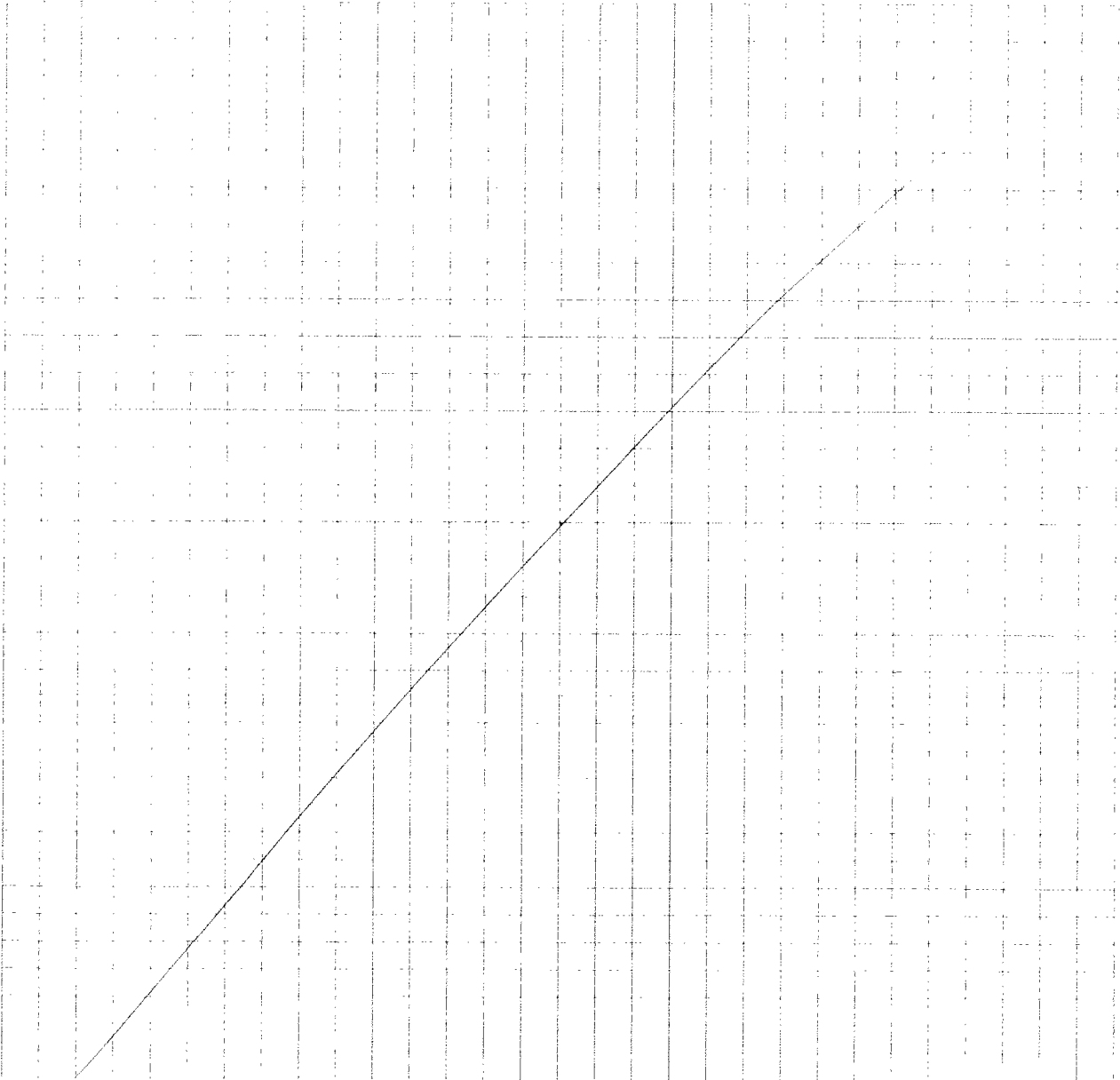
STOP 1040 cc/m 761.85 mmHg 11.5^{°C}

Av_g 1047.5 cc/m x 1427 min = 1495 liters

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Continuation of field record for sample _____

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date

M. A. Grant

7.25.11

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Station I.D. YBA Sample I.D. YBAA02
<Station ID>/<media code>/<sequential sample number>

Site Description Yellow Bluff Town Hall

Sampler Serial Number # CS-20044 ¹³ ¹⁻²⁵⁻¹¹ _m

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-25-11 Start Time 1720

Start Flow 689 * Start ET 0-00

Stop Date 1-26-11 Stop Time 16-56

Stop Flow 698 * Stop ET 0-00
Broken

Total/min = 1416

Notes: (other measurements)

START	BUCK	Druck	Temp.
	1099 cc/min	752.9 mm Hg	10.1°C
STOP	1073 cc/min	761.41	11.3

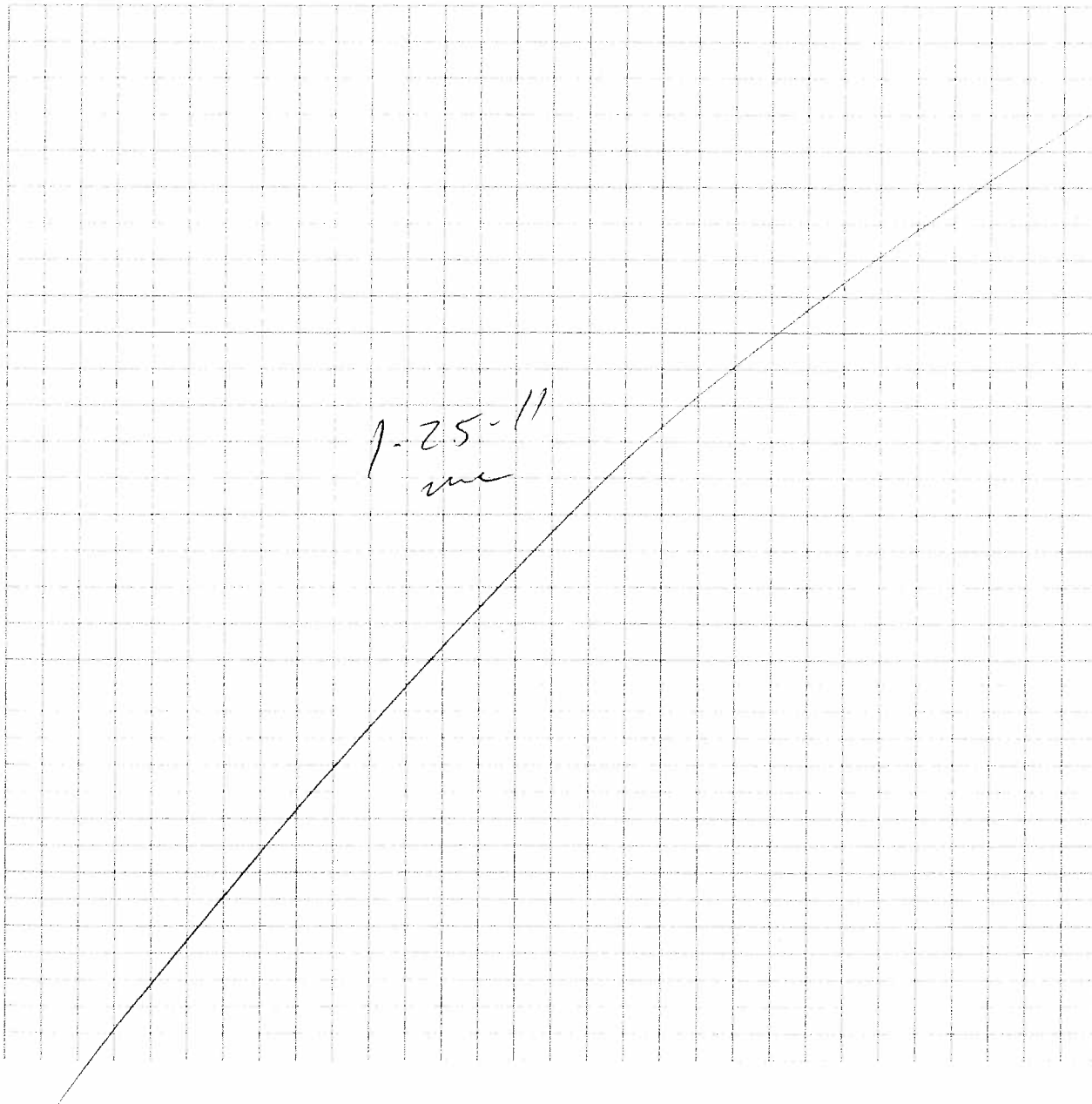
Avg. = 1086 cc/min x 1416 min = 1538 liters

* Indicated flow rate differed substantially from flow stop indicating probable greater back-pressure in sample media than flow-check media

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Continuation of field record for sample

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date

McGraw 7-25-11

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Station I.D. YBA Sample I.D. YBAA92
<Station ID>/<media code>/<sequential sample number>

Site Description Yellow Bluff Town Hall - Duplicate

Sampler Serial Number # CS-20014

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-25-11 Start Time 1720

Start Flow 1001 scc/min Start ET 41.44

Stop Date 1-26-11 Stop Time 16:56

Stop Flow 1006 Stop ET 65.00

Total min. = 1416

Notes: (other measurements)

START	Buck 1079 cc/m	Druck 752.9 mmHg	Temp. 10.1 °C
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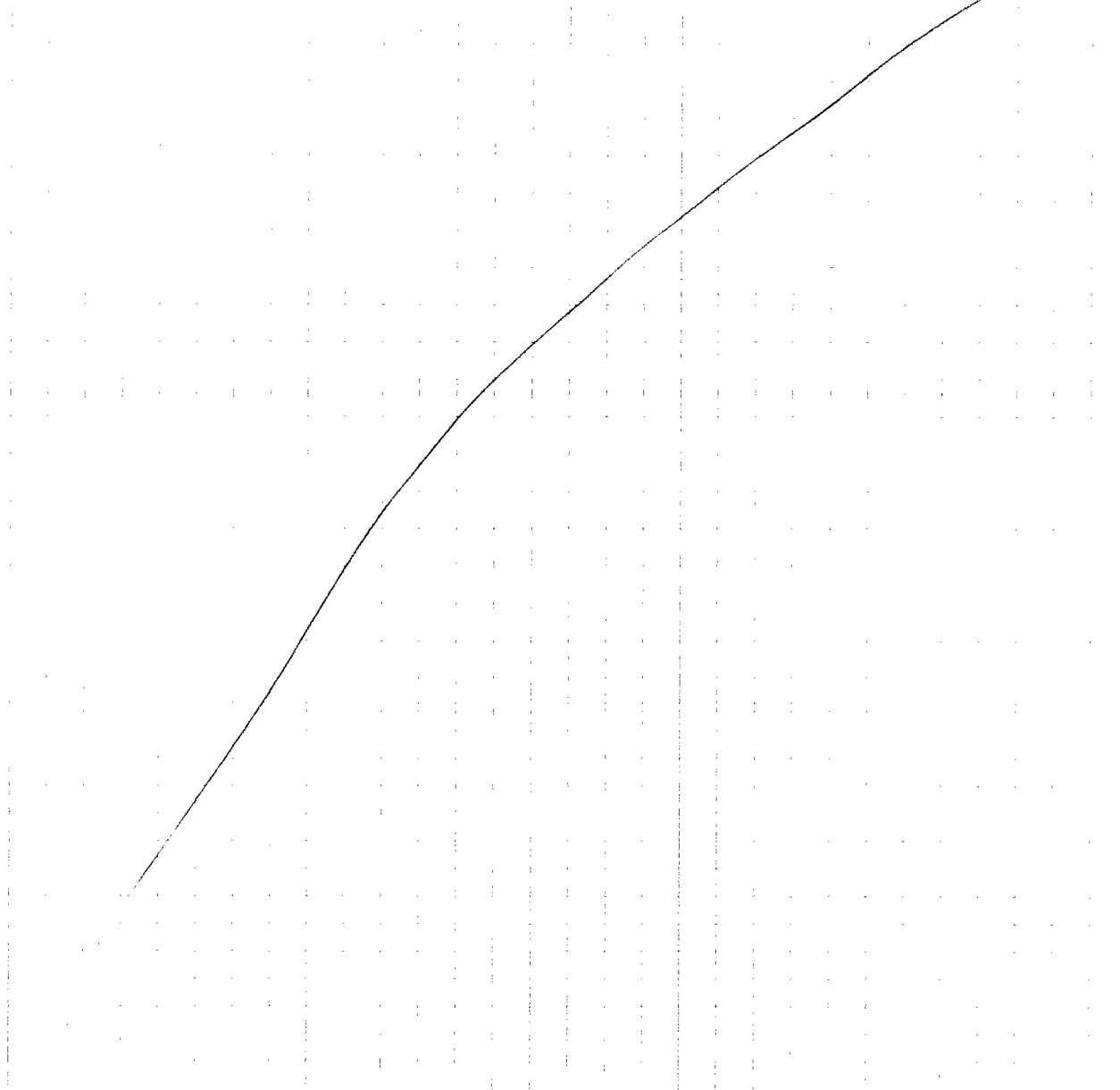
STOP	1053 cc/m	761.64 mmHg	11.3 °C
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Aug. 1066 cc/m X 1416 min = 1509L

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Continuation of field record for sample _____

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date _____

M. Crew 126-11

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Station I.D. YBB Sample I.D. YBBA03
<Station ID>/<media code>/<sequential sample number>

Site Description Roland Cooper State Park Cabin #6

Sampler Serial Number # CS. 20012

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-26-11 Start Time 10:46

Start Flow 992 scc/m Start ET 0.00

Stop Date 1-27-11 Stop Time 1012

Stop Flow 987 Stop ET 23.42

Total min = 1406

Notes: (other measurements)

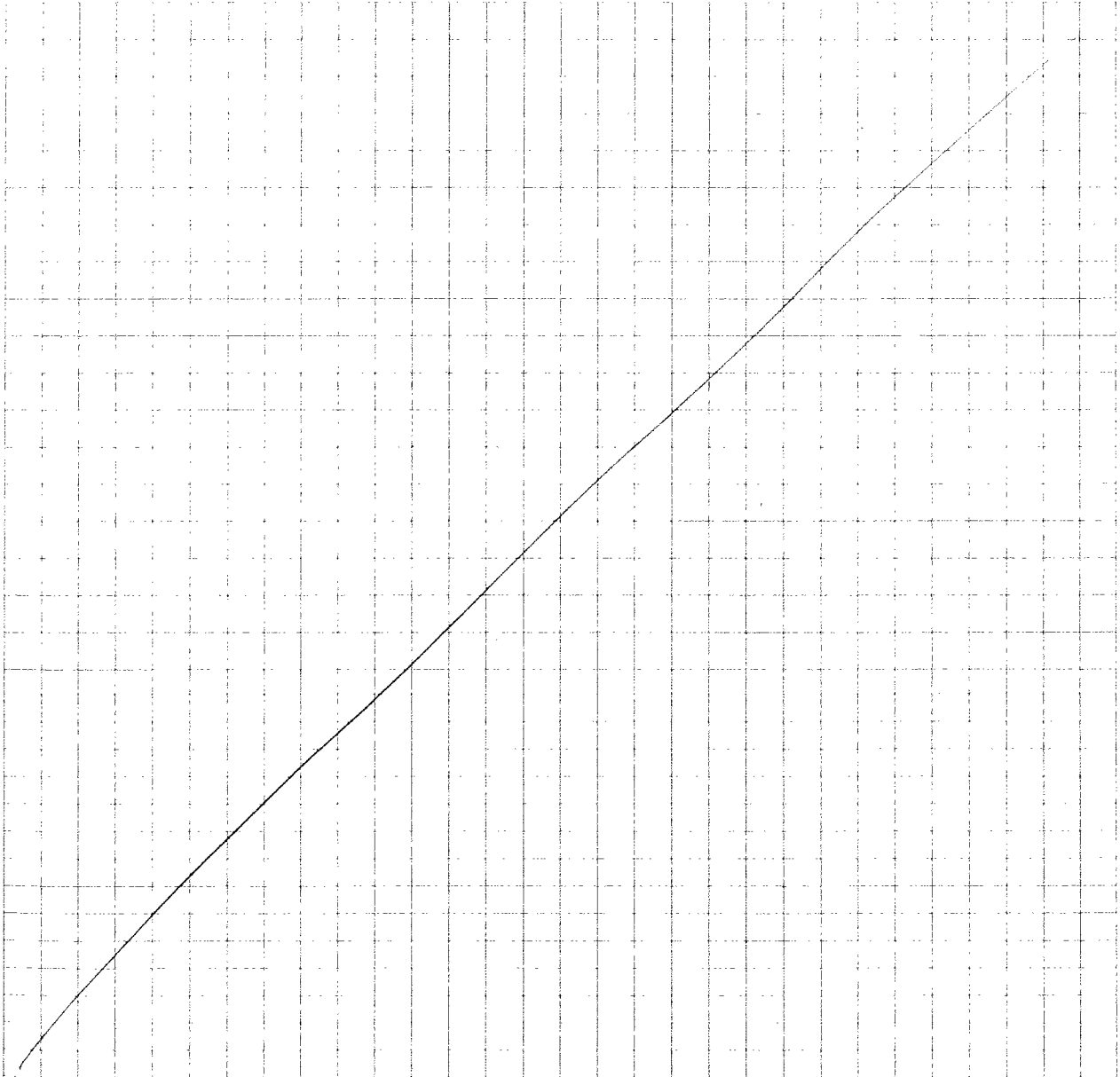
	Buck	Druck	Temp.
START	1040 cc/m	761.85	11.5 °C
STOP	1010/cc/m	762.82	12.0 °C
Avg	1025 cc/m	X 1406 min	= 1441 l



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Continuation of field record for sample

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date

McCrave 7-26-11

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Station I.D. YBA Sample I.D. YBAA03
<Station ID><media code><sequential sample number>

Site Description Yellow Bluff Town Hall

Sampler Serial Number # CS-20013

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-26-11 Start Time 17:12

Start Flow 997 Start ET Broken

Stop Date 1-27-11 Stop Time 1635

Stop Flow 997 seen Stop ET 997 ¹⁻²⁸⁻¹¹ _{me}
Broken

Total Time = 1403 min

Notes: (other measurements)

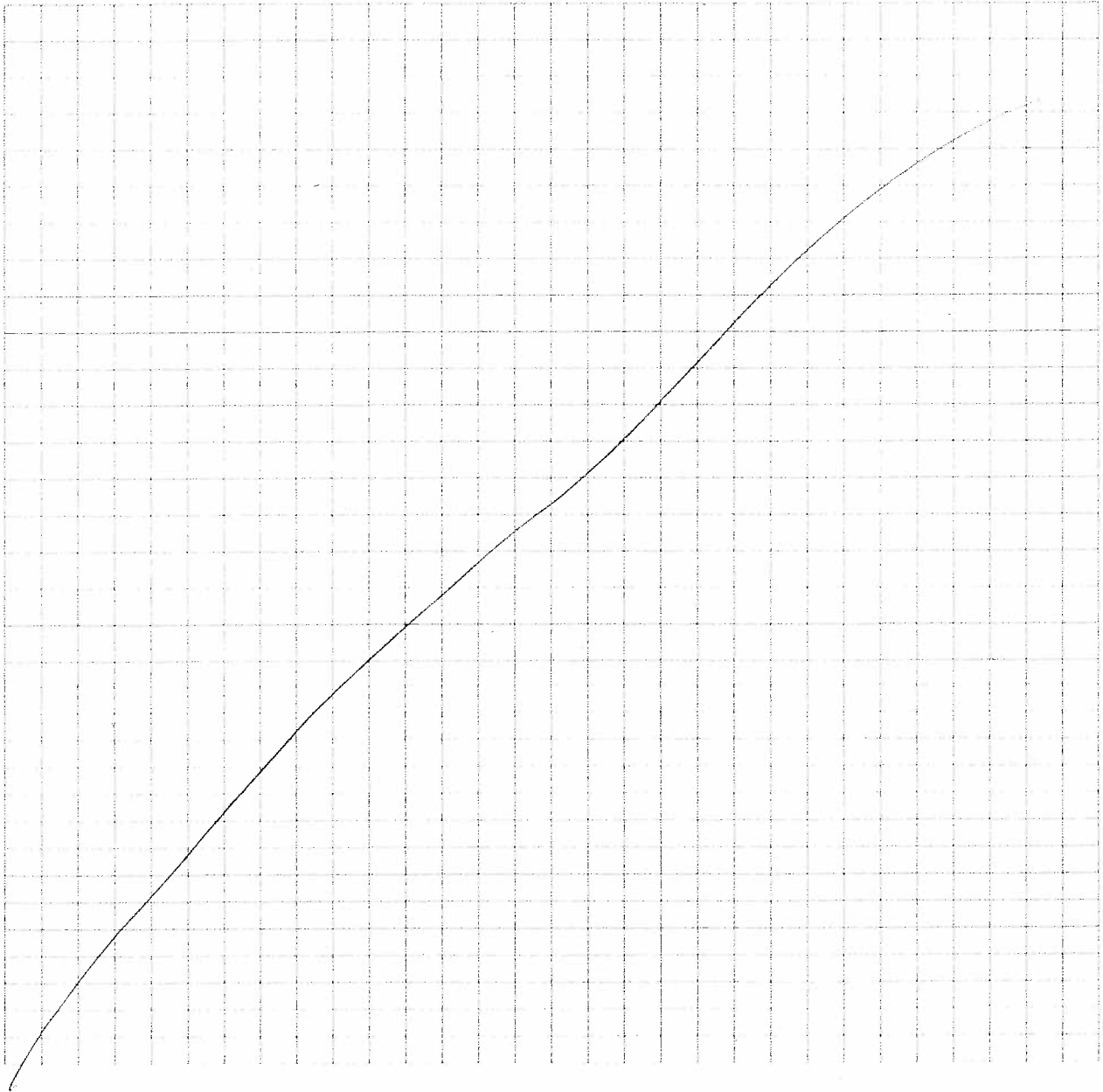
	Buck	Druck	Temp.
START	1073 cc/min	761.41 mmHg	11.3
STOP	1088	759.59	12.9

Avg 1080.5 cc/min X 1403 min. = 1516

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Continuation of field record for sample

Other Notes/Sketch (Include North and Scale)



Sample Team Leader/Sampler Signature/Date

M. Crew 7-26-11

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Station I.D. YBA Sample I.D. YBAA93
<Station ID>/<media code>/<sequential sample number>

Site Description Yellow Bluff Town Hall

Sampler Serial Number # CS-20014

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-26-11 Start Time 1712

Start Flow 1005 Start ET 65.02

Stop Date 1-27-11 Stop Time 1635

Stop Flow 1004 Stop ET ~~997~~ 88.39
1-27-11
m

Total time = 1403 m

Notes: (other measurements)

	Buck	Druck	Temp.
START	1053 cc/min	761.64 mmHg	11.3 °C
STOP	1078	759.54	11.0

$$\text{Avg. } 1065.5 \text{ cfm} \times 1403 \text{ min} = 1495 \text{ l}$$

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Continuation of field record for sample _____

Other Notes/Sketch (Include North and Scale)

Sample Team Leader/Sampler Signature/Date _____

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Station I.D. YBB Sample I.D. YBBAB3
<Station ID><media code><sequential sample number>

Site Description Roland Cooper State Park

Field Blank. Placed in "blank channel" c YBBAB3

Sampler Serial Number # _____

Cartridge # _____ Sample Tag # _____

Name of Person Collecting Sample Mike Crowe

Start Date 1-26-11 Start Time 10:50

Start Flow 0 Start ET N/A

Stop Date 1-27-11 Stop Time 10:16

Stop Flow 0 Stop ET N/A

Total vol. 1406

Notes: (other measurements)

Field blank blind to lab.

Entered Sample Volume of 1501 l
on ERG data sheet.

Pre 1060

Post 1074

Avg 1067.56

1/28/11
End of logbook
mc