

Mechanical Flow Controller Flow Check
SESD Project 11-0068 Yellow Bluff

11/9/2010 by Mike Crowe

Flow Verification

Flow Controller Number	scc/min
3	3.63
30	3.55
32	3.55
31	3.63
34	3.55

Flow standard: Teledyne HFM-200 S/N 5616200001
Range 10 SCCM/AIR
STP 25C / 760 Torr
Cal Date 09/14/10 By JWC

Operator

Mike Crowe

Signature

Mike Crowe

Date

11/9/10

EnviroNics 6100 Calibration Worksheet

0 to 100 cc Mass Flow Controller

Calibrator S/N 4115

Flow Std: BIOS ML-800

10/27/2010

SESD Project #: 11-0068

Calibration unit details in "Calibration Standard" Tab

Pre-Calibration Verification

Flow in cc	Run 1	Run 2	Run 3	Run 4	Run 5	Average	PD
80	80.508	80.403	80.38	80.292	80.291	80.375	-0.47
50	50.432	50.495	50.503	50.497	50.54	50.493	-0.98
30	30.273	30.389	30.384	30.356	30.334	30.347	-1.14

Calibration

Flow in cc	Run 1	Run 2	Run 3	Run 4	Run 5	Average	PD
100	102.61	102.57	102.57	102.58	102.6	102.586	-2.52
90	92.54	92.536	92.618	92.614	92.525	92.567	-2.77
80	82.391	82.368	82.251	82.317	82.248	82.315	-2.81
70	72.038	72.127	72.09	72.134	72.088	72.095	-2.91
60	61.894	61.873	61.899	61.868	61.842	61.875	-3.03
50	51.69	51.707	51.708	51.726	51.793	51.725	-3.33
40	41.469	41.468	41.475	41.484	41.454	41.470	-3.54
30	31.064	31.091	31.056	31.065	31.042	31.064	-3.42
20	20.662	20.663	20.675	20.655	20.655	20.662	-3.20
10	10.158	10.155	10.166	10.203	10.245	10.185	-1.82
5	4.9369	4.8844	4.856	4.8871	4.8829	4.8895	2.26

Post-Calibration Verification

Flow in cc	Run 1	Run 2	Run 3	Run 4	Run 5	Average	PD
80	80.109	80.068	80.002	80.1	80.089	80.074	-0.09
50	49.926	49.968	49.945	49.932	49.959	49.946	0.11
30	30.001	30.013	30.048	29.997	30.077	30.027	-0.09

Operator

Mike Crowe

Signature

[Signature]

Date

10/27/10

11-0068

Bios ML-800 Calibrator

Bios ML-800 Calibrator

Description SED ID: Calibration Date

Base ML112139

0-100cc cell ML112058

1-30 LPM ML112547

Aug 10, 2010

11-0068 REQUEST

Enforcement Confidential?
Criminal: Other:

Date Printed: 10/29/2010 14:13:30

Project Type: Air

Facility: Yellow Bluff Air Study

City: Yellow Bluff

County: Wilcox

State: AL

Acct. No.: 101A59C

Initiative:

Program: AIR

Activity: FI

EPA ID:

NPDES Permit:

Field Contractor: H

Lab Contractor: H

Requestor:

Requestor Org:

Project Leader: Crowe, Michael

Project Leader Org: SESD/EIB/SAS

Performing Contact:

Performing Org:

Case No.:

SAS No.:

Start Date: 11/28/2010

Due Date: 02/06/2011

Projected Complete Date: 01/07/2011

Complete Date:

Category: 2 Feedback:

File Complete:

Request Date: 10/29/2010 14:07:00

Scheduled Receipt Date: 12/03/2010

Turn Around Time: 35

RCRA listed dioxin waste contamination? No

QAPP: QAPP will be approved prior to sampling

D.A.R.T. Site/Waterbody:

D.A.R.T. Program/Activity:

D.A.R.T. Sampling Cmpny:

Send Data to DART?

Multiple Sites/Waterbodies for this Project No.?

D.A.R.T. Project ID: 11-0068

Project Comments:

Lab Analyses Requested: (May not correspond to final collection and/or analysis)

2

Sample Type

Service

Qty Code Description

6 - air

10 7000 Scan, Volatiles

VOLATILES

RN

11-0068 ACTIVE

Enforcement Confidential?
Criminal: Other:

Date Printed: 2/2/2011 08:56:52

Project Type: Air

Facility: Yellow Bluff Air Study

City: Yellow Bluff

County: Wilcox

State: AL

Acct. No.: 101A59C

Initiative:

Program: AIR

Activity: FI

EPA ID:

NPDES Permit:

Field Contractor: H

Lab Contractor: H

Requestor:

Requestor Org:

Project Leader: Crowe, Michael

Project Leader Org: SESD/EIB/SAS

Performing Contact:

Performing Org:

Case No.:

SAS No.:

Start Date: 01/24/2011

Due Date: 03/30/2011

Projected Complete Date: 02/28/2011

Complete Date:

Category: 2 Feedback:

File Complete:

Request Date: 10/29/2010 14:07:00 Scheduled Receipt Date: 01/24/2011

Turn Around Time: 35 RCRA listed dioxin waste contamination? No

QAPP: QAPP will be approved prior to sampling

D.A.R.T. Site/Waterbody: Weyerhaeuser - Pine Hill Mill (110000822986)

D.A.R.T. Program/Activity: Air (Air Toxics: Toxicity investigation)

D.A.R.T. Sampling Cmpny: PL-SESD (EPA Region 4 SESD)

Send Data to DART? Yes Multiple Sites/Waterbodies for this Project No.?

D.A.R.T. Project ID: 11-0068

Project Comments:

Lab Analyses Requested: (May not correspond to final collection and/or analysis)

2

Sample Type

Service

Qty Code Description

6 - air

10 7000 Scan, Volatiles

VOLATILES

RN ASB Routine