

US EPA ARCHIVE DOCUMENT

Appendix B
Air Sampling Data Forms

Sample Shipping Information

Samples were placed in an oversized, sturdy box with packing material to fill voids and protect the samples during shipping. The sampling personnel then signed the chain-of-custody forms, and placed them in the box with the samples. Samples were shipped via Federal Express to the laboratory.

BOOZ ALLEN & HAMILTON

5299 DTC Blvd., Suite 840

Greenwood Village, Colorado 80111

303.694.4159 FX. 303.694.7367

AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextric device

entire 2 arms - LEFT shoulder

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3105-D-A-611-55 Pump # 11249 Media Hydrom

-56

mCEF

Calibration: 0.198 Open Time: 10:20 - 11:25 59

Rate 198 c/min Post 198 c/min On 12:41 - OFF 19 38 Volume 19.28

97

Substance	OSHA PEL	Concentration	8 Hour TWA
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<u>Hg</u>	<u>0.1 mg/m³</u>		
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COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrite Device

1st drum - LEFT Shoulder

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-57 Pump # 11308 Media Hydra

Calibration: 0.198 Open Time: 10:20 - 11:25 -59
Pre 200 cc/min Post 196 cc/min On 12:44 OFF 1:19 38 mCEF Volume 11.72
19.22

Substance	OSHA PEL	Concentration	8 Hour TWA
-----------	----------	---------------	------------

<u>Hg</u>	<u>0.1 mg/m³</u>		
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COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrok Device

1st Drum RIGHT Shoulder

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-59 Pump # 12664 Media Hydro

Calibration: 0.200 ⁻⁶⁰ Open Time: 10:20-11:25 59 MCF
Pre 202 cal Post 199 cal On 12:41 Off 59 Volume 11.8 L
19.8 L

Substance OSHA PEL Concentration 8 Hour TWA

Hy 0.1 mg/m³

COMMENTS:

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Dextrite Dense

Work Location Inside Containment - near Exhaust on Road

Work Location fiber drum.

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-61 Pump # R 2992 Media Hydrex

Calibration: 0.203 Lpm Time: 10:20 - 11:27 61
Pre 203 cc/min Post 203 cc/min On 12:41 Off 1:19 38 Volume 20.12

99

Substance OSHA PEL Concentration 8 Hour TWA

Hg 0.1 mg/m³ _____

COMMENTS:

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Poxite Device

Work Location Inside containment - near inlet feed tube on

round fiber drum

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-63 Pump # 112711 Media Hydrox

Calibration: 0.210 ⁻⁶⁴ Open Time: 10:26 - 11:27 61
Pre 209 cc/min Post 211 cc/min On 12:41 - 01:19 38 Volume 20.8 l
99

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client GIA Date 6/11/05 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrite Penice

Drum change # 2, 1

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-65 Pump # R 2015 Media Hydror.

Calibration: 0.2000 Lpm Time: 11:05 Off 11:25 Volume 5.28
Pre 260 cc/min Post 260 cc/min On _____ Off _____
20

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrok Penite

Drum change #2

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-DA-6/11-67 Pump # R 2015 Media Hydro

-68 MCEF

Calibration: 0.2000 ppm Time: _____

Pre 260 cal/min Post 261 cal/min On 1:39 Off 1:51 Volume 3.12

12 min

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EIA Date 6/11/03 Job Code _____

Employee TAD SSN # _____ Job Title _____

Work Description Dextite Device

Work Location ceiling sample - taken at drum change #1

4 min. sample

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-69 Pump # 11177 Media Hydra

Calibration: 0.255 ⁻⁷⁰ lpm Time: _____

Pre 254 cc/min Post 257 cc/min On 11:05 Off 11:45 Volume 1.00

4

Substance	OSHA PEL	Concentration	8 Hour TWA
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<u>Hy</u>	<u>0.1 mg/m³</u>		
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COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client CAA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextite device

ceiling sample - taken at down change #1

Work Location _____

4 min. sample

Respirators/PPE _____

Controls _____

Sample # 3705-DA-6/11-7 Pump # 11177 Media Hydrex MCEF

Calibration: 0.255-72 Time: _____
Pre 254cc/min Post 257cc/min On 11:11 OFF 11:15 Volume 1.02
4

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1mg/m³</u>		

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tal SSN # _____ Job Title _____

Work Description Pesticide

2nd drum LEFT Shoulder

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-73 Pump # 13681 Media Hydrex

Calibration: 0.202 ⁻⁷⁴ cpm Time: _____
Pre 202 cc/min Post 202 cc/min On 12:41 Off 1:19 Volume 7.7 l
38

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee TJD SSN # _____ Job Title _____

Work Description Dextite Device
2nd Draw RIGHT Shoulder

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-75 Pump # 11152 Media Hydra
13914 MCEF

Calibration: 0.204 76 Time: _____
Pre 206 cc/min Post 206 cc/min On 12:52 Off 1:19 Volume 5.52
202 27

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/09 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Dextrolite device
Overnight air sampler placed near exhaust

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-77 Pump # 11254 Media Hydram

Calibration: 0.157 ⁻⁷⁸ _{Post} Time: 5:53 PM Cal. Cellz
Rate 158 cc/min On 7:15 AM Off 8:02 AM Volume 125.90

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>H₂</u>	<u>0.1 mg/m³</u>		

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client GPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Pextrite Device

Overnight Air Sample - placed near inlet feed tube

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-79 Pump # 1177 Media Hydrex

Calibration: 0.154 ppm Time: 5:53 PM On 7:15 AM Off
Pre 153 cc/min Post 156 cc/min 802 min Volume 123.50

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS: 360 + 420 + 7 + 15

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client GPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Pcxrite Device

Overnight air sampler placed outside conference room

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-81 Pump # 11152 Media # ydrac

Calibration: 0.141 lpm Time: 5:53 pm 6/11
Pre H2 calibrator Post 140 c/min On 7:15 pm OFF 6/11/03 Volume 113.1 L
-82 802 ml

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>H₂</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client GPA Date 6/11/03 Job Code _____

Employee Ted SSN # _____ Job Title _____

Work Description Dextrose Penic

Work Location U-TUBE Study on Teds Left Shoulder

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-83 Pump # 12664 Media Hydra

Calibration: 0.200 lpr Time: _____
Pre 199 cc/min Post 201 cc/min On 1:23 Off 1:35 Volume 2.42
12 min

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____
 Employee Tad SSN # _____ Job Title _____
 Work Description Dextrose Dewice
U-TUBE Study on Tad's Right Shoulder
 Work Location _____
 Respirators/PPE _____
 Controls _____

Sample # 3705-0-A-6/11-85 Pump # 11308 Media Hydram
in CEF
 Calibration: 0.197⁻⁸⁶ Open Time: _____
 Pre 196 cc/min Post 199 cc/min On 1:23 Off 1:35 Volume 2.42
12

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hy</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client 9PA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextite Device

~~W-Tube Study on Tad's~~

Work Location Inside Containment near Exhaust - U-TUBES

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-87 Pump # 11177 Media Hydram

Calibration: 0.198 ⁸⁸ Open Time: _____
Pre 201 cc/min Post 196 cc/min On 1:23 Off 1:35 Volume 2.42
12

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrose dust

Inside containment near feed tube - UTUBE 5

Work Location _____

Respirators/PPE _____

Controls _____

Sample # 3705-DA-6/11-89 Pump # 12708 Media Hydran

MCEF

Calibration: 0.205 ⁻⁹⁰ Open Time: _____
Pre 20 cc/min Post 20 cc/min On 1:23 Off 1:35 Volume 2.5 L

12

Substance: OSHA PEL Concentration 8 Hour TWA

Hg

0.1 mg/m³

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____
Employee Tad SSN # _____ Job Title _____
Work Description Dextrose Dewice
Equip Comparison Phase 2 - one hour
Work Location Personal sampling on RIGHT shoulder
Respirators/PPE _____
Controls _____

Sample # 3705-D-A-611-91 Pump # 13681 Media Hydrex
MCEF
Calibration: 0.200 ⁻⁹² Pre Time: _____
202 cc/min Post 198 cc/min On 4:43 Off 5:17 Volume 10.8 l
34 min

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>H₂</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____
Employee Teal SSN # _____ Job Title _____
Work Description Dextre Dexte
Equip Comparison Phase 2 - one drum
Work Location Personal sampling on LEFT shoulder
Respirators/PPE _____
Controls _____

Sample # 305-D-A-6/11-93 Pump # R2992 Media Hydr 1.
-94 MCEF
Calibration: 0-200 Lpm Time: _____
Pre 203cc/min Post 198cc/min On 4:43 Off 5:17 Volume 6.82
34

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Dextrite device

Equipment comparison Phase 2

Work Location Inside Containment at Exhaust on
fiber drum

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-4/11-95 Pump # 112711 Media Hydram

-96
Calibration: 0.212 Exp

Pre 211 cc/min Post 214 cc/min Time: On 4:43 Off 5:17 Volume 7.2 l

34

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1 mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Detritus device

Work Location Equipment Comparison Phase 2 - one drum

Inside Containment near exhaust on fiber drum

Respirators/PPE _____

Controls _____

Sample # 3705-0-A-411-97 Pump # 11249 Media Hydro

Calibration: 0.198 L/min Time: _____
Pre 198 cc/min Post 198 cc/min On 4:43 Off 5:17 Volume 6.7 L
34

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>11g</u>	<u>0.1 mg/mg</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client GPA Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Dextric device

Work Location Equip. room Companion Phase 2 - one drum

Respirators/PPE _____
Controls _____

Sample # 3705-D-A-6/11-99 Pump # 13914 Media Hydrom

Calibration: ⁻¹⁰⁰ Pre 204cc/min Post 201cc/min Time: On 4:43 Off 5:17 Volume 6.90
34

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1mg/m³</u>		

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 5/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Dextroite Device

Work Location Equipment Comparison phase 2 - one drum

Inside containment near feed tube on
fiber drum

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-411-101 Pump # 11308 Media Hydrax
-102 MCEF

Calibration: 0.200 Pre 200 cc/min Post 200 cc/min Time: On 4:43 Off 5:17 Volume 6.82
351

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hy</u>	<u>0.1 mg/m³</u>		

REMARKS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client SFA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description Dextrot device

Work Location Equipment comparison Phase 2

Dixiey Drum Change

Respirators/PPE _____

Controls _____

Sample # 3705-D-A-6/11-03 Pump # K2015 Media Hydrom.

-104 MCET

Calibration: 0.257 Lpm Time: _____
Pre 258 cc/min Post 2.56 cc/min On 7:46 Off 7:58 Volume 3.10

12

Substance OSHA PEL Concentration 8 Hour TWA

Hg 0.1 mg/m³ _____

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____
Employee Tad SSN # _____ Job Title _____
Work Description Dextrite Dewie
Work Location Equipment Comparison Phase 2 - ore drums
Personal sampling ~~at~~ during ceiling #1
Respirators/PPE 4 min sample
Controls _____

Sample # 3705-D-A-6/11-105 Pump # 12664 Media Hydrom
-106 mCF
Calibration: 0.260 lpm Time: _____
Pre 260 cc/min Post 260 cc/min On 7:46 Off 7:50 Volume 1.0 l
cf

Substance	OSHA PEL	Concentration	8 Hour TWA

COMMENTS:

Industrial Hygienist: _____ Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee Tad SSN # _____ Job Title _____

Work Description D-Extrite Device

Work Location Equipment Comparison Phase 2 - mod na
Personal Sampling during ceiling H₂

Respirators/PPE _____

Controls 4 min sample

Sample # 3705-D-A-6/11-07 Pump # 12664 Media Hydrex

Calibration: 0-200 ¹⁰⁸ Open Time: _____
Pre ✓ 2.60cc/min Post 2.61cc/min On 7:51 Off 7:55 Volume 1.0 l
4

Substance	OSHA PEL	Concentration	8 Hour TWA

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client EPA Date 6/11/03 Job Code _____

Employee # _____ SSN # _____ Job Title _____

Work Description Box Test

Work Location Taken after finished filling 2 drums for Dextite and doing U-TUBE Study

East containment next to work

Respirators/PPE boxes of tubes on fiber down

Controls _____

Sample # 3705-T-A-6/11-109 Pump # 12664 Media Hydra

-110 mCEF

Calibration: 0.201 lpm Time: _____

Pre 201 cc/min Post 201 cc/min On 2:57 Off 3:13 Volume 722

36

Substance	OSHA PEL	Concentration	8 Hour TWA
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<u>Hg</u>	<u>0.1 mg/m³</u>		
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COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client S.P.A. Date 6/11/03 Job Code _____

Employee _____ SSN # _____ Job Title _____

Work Description Box Test

Work Location Taken after finished filling drums for Dextrite and doing U-TUBE study west containment near Jerome

Respirators/PPE _____

Controls _____

Sample # 3705-T-A-6/11-111 Pump # 11308 Media Hydrex

Calibration: 0.199 Pre Time: _____
Pre 199cc/min Post 200cc/min On 2:37 Off 3:13 Volume 7.20
36

Substance	OSHA PEL	Concentration	8 Hour TWA
<u>Hg</u>	<u>0.1mg/m³</u>		

COMMENTS:

Industrial Hygienist: _____

Reviewed By: _____

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AIR SAMPLING DATA FORM

Client GPA Date 6/11/03 Job Code _____

Employee Brian SSN # _____ Job Title _____

Work Description Test on Brian, an AERC Facility employee

to wear personal air sample while working

Work Location LEFT shoulder

Respirators/PPE _____

Controls _____

Sample # 3705-F-A-6/11-113 Pump # 12708 Media Hydram

Calibration: 0.202 ⁻¹¹⁴ Open Time: _____
Pre 205 Post 199 On 2:31 Off 4:00 Volume 180 l

Substance _____ OSHA PEL _____ Concentration _____ 8 Hour TWA _____

Hg 0.1 mg/m³ _____ _____

COMMENTS: _____

Industrial Hygienist:

Reviewed By:

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AIR SAMPLING DATA FORM

Client EPIC Date 6/11/03 Job Code _____

Employee Brian SSN # _____ Job Title _____

Work Description Test on Brian, an AERC Facility Employee

Work Location to wear personal air sample while

working. RIGHT Shoulder

Respirators/PPE _____

Controls _____

Sample # 3705-FA-6/11-115 Pump # 11152 Media Hydrov

Calibration: 0.202 ⁻¹¹⁶ Pre Post 200 cfm Time: 2:31 On 4:00 Off Volume 18.00

89

Substance OSHA PEL Concentration 8 Hour TWA

H3 0.1 mg/m³ _____

COMMENTS: _____

Industrial Hygienist: _____

Reviewed By: _____