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.

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AIR SAMPLING DATA FORM

Client EPA Date 2/28/03 Job Code

Employee SSN # ~~13673~~ Job Title

Work Description Destruct DTC Device

Work Location On floor next to DTC Device Exhaust

Respirators/PPE

Controls

Sample # 3705-D-A-2/28-57 -58 Pump # 13673 Media MCEF HYDRAR

Calibration: Time:
Pre 153 cc/min Post 154 cc/min On 1006 Off 1132 Volume 13,20 L
153.5 86

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

COMMENTS: Six min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 2/28/03 Job Code

Employee SSN # Job Title

Work Description Dextrit DTC Device

Work Location On floor @ DTC device exhaust

Respirators/PPE

Controls

Sample # 3705-D-A-2/28-59 -60 Pump # 12709 Media MCEF

Calibration: Time: HYDRAR

Pre 151 cc/min Post 152 cc/min On 1006 Off 1132 Volume 13.03 L

151.5 86

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m^3		

COMMENTS: Slow

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 2/28/03 Job Code

Employee SSN # Job Title

Work Description Dextrite DTC Denver
Filter Drum Change when Drum Full

Work Location

Respirators/PPE Gloves Safety Glasses Tyvek Overall

Controls

Sample # 1705-D-A-2/28-01 -02 Pump # 1930 Media MCEF HYDRA

Calibration: Time:
Pre 252 cc/min Post 254 cc/min On 1119 Off 1132 Volume 3.29 L
253

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

COMMENTS: 13 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Background

Work Location North of containment in Warehouse on top of Recycle Bulb & Crusher Boxed crate

Respirators/PPE

Controls

Sample # 3705-B-3/24/01 tube Pump # 13684 Media Hydar MCEF

-02 Filter

Calibration: Time:

Pre 162 cc/min Post 148 cc/min On 7.58 Off 11:23 Volume 31.78 L

~~155~~ 155 205

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

COMMENTS: 205 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Background

Work Location East of containment in warehouse on top of boxes of bulbs

Respirators/PPE

Controls

Sample # 3705-B-3/24-03 -04 Pump # 800885 Media Hydar MCEF

Calibration: Pre 151 cc/min Post 122 cc/min ~~151~~ Time: On 7:57 Off 11:23 Volume 27.98L

136.5 205

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

COMMENTS: 208 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal RTI

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-A-3/24-05-06 Pump # 14959 Media MCEF Hydrex

Calibration: Time:
Pre 166cc/min Post 166cc/min On #1 0:45 Off 12:26 Volume 26.49L
163.5 #2 2:56 3:37

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	162	

COMMENTS: 175 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal

Work Location

Respirators/PPE Respirator, tyvek, safety goggle

Controls Jerome

Sample # 3705-R-M3/24-07 -08 Pump # 2018 Media MCEF Hydrav

Calibration: Time:
Pre 152 cc/min Post 149 cc/min On #1 10:45 Off 12:26 Volume 24.38L
150.5 #2 2.36 3.37

Substance	OSHA PEL	Concentration 16.2	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: ~~15~~ min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Inside containment
Area sample on Fiber drum next to exhaust

Work Location -elevated

Respirators/PPE Respirators, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-A-3/24-09-10 Pump # 12713 Media MCEF Hydrex

Calibration:
Pre 152 cc/min Post 160 cc/min
156

Time:
On #1 10:45 Off 12:26 Volume 25.27L
#2 2:36 3:37

Substance	OSHA PEL	Concentration 162	8 Hour TWA
Hg	0.1 mg/m³		

COMMENTS: ~~175~~ min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Inside containment
Area sample on fiber drum next to inlet feed tube

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-R-A-3/24-11 -12 Pump # 13 658 Media MCEF Hydrar

Calibration:
Pre 148cc/min Post 205cc/min
176.5

Time:
On #1 10:45 Off 12:26 Volume 28.59L
#2 2:36 3:37

Substance	OSHA PEL	Concentration 162	8 Hour TWA
Hg	0.1 mg/m3		

COMMENTS: ~~175~~ min

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/03 Job Code

Employee SSN # Job Title

Work Description Filter change #1 and #2 (see notes below)
left red cap on for first filter change - so used same

Work Location media for filter change #2. only included time for 2nd Filter change in total volume.

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-13 -14 Pump # 11302 Media MCEF Hydrar

Calibration: Time: (on 3/24/03 #1 12:12 pm 12:24 pm left red cap on) - did not include in L

Pre 248cc/min Post 266cc/min On #2 7:50am Off 8:12am Volume 5.65 L

257 on 3/25/03 22

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

COMMENTS: 22 min.

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AIR SAMPLING DATA FORM

EPA Date 3/24/03 Job Code

SSN # Job Title

escription Overnight Containment - RTI Exhaust

k Location

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-15-16 Pump # ~~12705~~ 11252 Media Hydran MCEF

Calibration: Pre ~~Hg~~ cc/min 157 Post ~~[illegible]~~ 163 169 cc/min Time: 4:27pm On ~~4:07pm~~ Off 11:35pm Volume 68,13 L

~~428~~ 418

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

COMMENTS: 428 min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/24/13 Job Code

Employee SSN # Job Title

Work Description Overnight in Containment - RTI
Field Work

Work Location

Respirators/PPE

Controls

Sample # 3705-R-A-3/24-17 Pump # 11179 Media Hydra
-18 MCEF

Calibration: Time:
Pre 157 cc/min Post 146 cc/min On 4:07 pm Off 11:35 pm Volume 66.36 L
151.5 448 438

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

COMMENTS: 448 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal - Dextrite

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-D-A-3/25-19 tube -20-filter Pump # 12713 Media Hydrar mCEP

Calibration: Time:
Pre 159 cc/min Post 301 cc/min On 9:46 Off 10:56 Volume 28.75 L
230 12:29 1:24

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	125	

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/13 Job Code

Employee Tad SSN # Job Title

Work Description Personal - Dextrite

Work Location

Respirators/PPE Respirator, nytek, safety goggles

Controls Jerome

Sample # 3705-D-A-3/25-21 -22 Pump # 13684 Media Hydrar MCEF

Calibration: Time:

Pre 142 cc/min Post 129 cc/min On 9:46 Off 10:56 Volume 16.94L

135.5 12.29 1:24 .25

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

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Inside containment - dextrite area sample on fiber drum next to exhaust

Work Location -elevated

Respirators/PPE

Controls Jerome

Sample # 3705-D-A-3/25-23 -24 Pump # ~~3715~~ 800885 ~~800465~~ Media Hydrar mCEF

Calibration: 152 120cc/min Time:

Pre ~~152 cc/min~~ ~~166~~ 1:1 Post 9:46 On 9:46 12:29 Off 10:56 1:24 Volume 17.0 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	125	

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Inside containment - Dextrie
area sample on fiber drum next to inlet feed tube

Work Location

Respirators/PPE

Controls Jerome

Sample # 3705-D-A-3/25-25 -26 Pump # 2018 Media Hydrar mCEF

Calibration: Pre 156 cc/min Post 243 cc/min 199.5

Time: On 9:46 12:29 Off 10:56 1:24 Volume 24.94 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	125	

COMMENTS: 125 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee Tad SSN # Job Title

Work Description First pump change. - Dentrite

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls Jerome

Sample # 3705-D-A3125-27 -28 Pump # 14959 Media Hydra-MCEF

Calibration: Time:
Pre 253 cc/min Post 170 cc/min On 10:44 Off 10:56 Volume 2.54 L
211.5 12

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

COMMENTS: 12 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Overnight in containment Dextrite

Work Location exhaust

Respirators/PPE

Controls

Sample # 3705-D-A-3/25-29 Pump # 2018 Media Hydrar

Calibration: -30 90.6 Time: MCEF 62.852

Pre ~~[illegible]~~ cc/min Post .906 cc/min On 1:34pm Off 10:10pm Volume ~~39.71 L~~

153 ~~76.8~~ 121.8 516

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

COMMENTS: 576 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/83 Job Code

Employee SSN # Job Title

Work Description Overnight in containment - Dextrk

Work Location Reed Lake

Respirators/PPE

Controls

Sample # 3705-OA-3/25-31 -32 Pump # 3715 Media Hydrar MCEF

Calibration: Pre 143 cc/min Post 126 cc/min 134.5 Time: On 1:34 pm Off 10:10 pm Volume 69.40 L

516

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

COMMENTS: 576 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/25/03 Job Code

Employee SSN # Job Title

Work Description Second Drum Change Dextrite
(Area Δ performed on 3/26/03 - after outright incontainment)

Work Location

Respirators/PPE Respirator, tyvek, safety goggles

Controls

Sample # 3705 D-A-3/25-33 -34 Pump # 11302 Media Hydrar McBT

Calibration:
Pre 255cc/min 2275 Post 200cc/min

Time:
On 1016pm Off 10:29pm 13 Volume 2.96 L

Substance	OSHA PEL	Concentration	# Hour TWA
Hg	0.1mg/m³		

COMMENTS: 13 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal - HMS

Work Location

Respirators/PPE Respirator, tyvek, gloves, safety goggles

Controls Fenwal

Sample # 3705-H-A-3/26-3 tube -36 filter Pump # 2517 Media Hydrar mCEF

Calibration: Pre 187 cc/min 189 Post 191 cc/min Time: On 8:13 Off 8:34 21 Volume 3.97 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m^3		

COMMENTS: 21 min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee Tad SSN # Job Title

Work Description Personal - HMS

Work Location

Respirators/PPE Respirator, tyvek, gloves, goggles

Controls Jerome

Sample # 3705-H-A-3/26-37 tube - 38 filter Pump # 3714 Media Hydrar MCEF

Calibration: Pre 147 cc/min 148.5 Post 150 cc/min

Time: On 8:13 Off 8:34 21 Volume 3.12 L

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

COMMENTS: 21 min

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AIR SAMPLING DATA FORM

Client ECP Date 3/26/03 Job Code

Employee SSN # Job Title

Work Description Hg + MS Inside containment - on fiber drum vac exhaust

Work Location

Respirators/PPE

Controls

Sample # 3705-H-A-2h6-89 -40 Pump # 2018 Media Hydar mCEF

Calibration: Pre 158 cc/min Post 153 cc/min Time: On 8:13 Off 11:19 Volume 28.92 L

155 186

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

COMMENTS: 186 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/26/03 Job Code

Employee SSN # Job Title

Work Description HMS Inside containment - on fiber drum near inlet tube

Work Location

Respirators/PPE

Controls

Sample # 3705-H-A 3/26-41 -42 Pump # 3715 Media Hydrar MCEF

Calibration: Pre 141 cc/min Post 160 cc/min Time: On 5:13 Off 11:19 Volume 29.85 L

140.5 180

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

COMMENTS: 144 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Personal - Aircycle

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-3/27-43 -44-Filter Pump # 80885 tube Media Hydrar MCEP

Calibration: Time:
Pre 158 cc/min Post 145 cc/min On 10:21 Off 10:42 Volume 29.69 L
151.5 1310 1503
1650 1752

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: ~~196~~ min.

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Personal - Air Cycle

Work Location

Respirators/PPE

Controls

Sample # 3705-A-Ar-3/27-45 -46 Pump # 2517 Media Hydrar MCEF

Calibration: Pre 162 cc/min 162 Post 162 cc/min Time: On 1021 1310 1650 Off 1042 1503 1752 Volume 31.75L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: ~~Hydrar~~

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle - Inside containment - On floor drain near exhaust

Work Location

Respirators/PPE

Controls

Sample # ~~3705-A-A-01~~ #2 Pump # 3714 Media Hydrar MCEF

3705-A-A-3/27-47 -48

Calibration: Time:

Pre 155 cc/min Post 143 cc/min On 1021 Off 1042 Volume 29.20 L

149 1310 1503

1650 1752

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: 1440 min

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description AN Cycle - Inside containment - on fiberdam near inlet feed tube

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-3/27-49 -50 Pump # 14959 Media Hydrar MCEF

Calibration: Pre 147 cc/mn 139.5 Post 132 cc/mn

Time: On 1021 1310 1650 Off 1042 1503 1752 Volume 27,34 L

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m³	196	

COMMENTS: 186 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Filter / Drum change #1 Aircycle
Drum #1

Work Location

Respirators/PPE Respirators, Tyvek, Goggles, Gloves

Controls Jerome

Sample # 3705-A-A-3/27-51 -52 Pump # 2018 Media Hydar MCEF

Calibration: Pre 251 cc/min Post 240 cc/min 245.5

Time: On 1350 Off 1412 22 Volume ~~48.12~~ 5.401 L

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

COMMENTS: 22 min.

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Filter / Drum Change #2 Aircycle
drum #1

Work Location

Respirators/PPE Respirators, Tyvek, Goggles, Gloves

Controls J Crone

Sample # 3705-A-A-3/27-53-54 Pump # 3715 Media Hydrar MCEF

Calibration: Time:
Pre 243 cc/min Post 242 cc/min On 1444 Off 1503 Volume 3.40 L
242.5 14

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m^3		

COMMENTS: 14 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Aircycle - overnight in containment
Let samples run throughout night. ↓ airflow,

Work Location because could not get in facility to turn off in middle of night.

Respirators/PPE

Controls Exhaust

Sample # 3705-A-A-3/27-55 -56 Pump # 2018 Media Hydar MCEF

Calibration: Time:
Pre 105 cc/min Post 95 cc/min On 7:24 pm on 3/27/03 Off 8:20 am on 3/28/03 Volume 77.6 L
1-0 - 776

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

COMMENTS: 7½ min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description air cycle - overnight in containment
let samples run throughout night. ↓

Work Location air flow, because could not get in facility to
turn off in middle of night.

Respirators/PPE

Controls feed tube

Sample # 3705-A-A-3/27-57 -58 Pump # 3715 Media Hydrov MCEF

Calibration: Time: on 3/27/03

Pre 106 cc/min Post ~~x~~ 96.4 cc/min On 7:24 Off 8:20 am on 8/28/03 Volume 78.53 L

101.2 77C

Substance	OSHA PEL	Concentration	8 Hour TWA
Hg	0.1 mg/m^3		

COMMENTS: 714 min

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 3/27/03 Job Code

Employee SSN # Job Title

Work Description Filter Change #3 - Air Cycle
Drum #2

Work Location

Respirators/PPE

Controls

Sample # 3NS-A-A-3/27-59 Pump # 2018 Media Hydar mCEE
·60

Calibration: Time:
Pre 248 cc/m. Post 261 cc/min On 1749 Off 1801 Volume 3.05 L
254.5 12

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

COMMENTS: 12 min

Industrial Hygienist: Reviewed By: