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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303.694.4159 FX. 303.694.7367

AIR SAMPLING DATA FORM

Client: EPA Date: 6/12/03 Job Code:

Employee: Tad SSN #: Job Title:

Work Description: Air Cycle Device - Real World
LEFT shoulder, entire 2 drums

Work Location:

Respirators/PPE:

Controls:

Sample #: 3705-Ash-6/0-117 -118 Pump #: 11308 Media: Hydrex MCEF

Calibration: 0.202 for 200 Time: 10:05 11:24 79

Pre: 204 cc/min Post: [illegible] cc/min On: 12:25 Off: 1:17 52 131 Volume: 26.5 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

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description Air Cycle Dena - Real World
LEFT Shoulder - 1st DRUM

ork Location

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-119 -120 Pump # 11249 Media Hydrm MCEF

Calibration: 0.200 lpm Time: 7:9

Pre 203cc/min Post 197 On 10:05 Off 11:24 Volume 15.8 l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

lient EPA Date 6/12/03 Job Code

mployee Ted SSN # Job Title

ork Description Air Cycle Device - Real World
RIGHT Shoulder - 1st Drum

ork Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-121 -122 Pump # ~~13911~~ 112711 Media Hydrum MCEF

Calibration: 0.211 lpm Time: 79

Pre ~~204 cc/min~~ Post 211 On 10:05 Off 11:24 Volume 16.7 l

212 cc/min

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

lient EPA Date 6/12/03 Job Code

mployee [illegible] SSN # Job Title

ork Description Air Cycle Device - Real World
~~CLEPT~~ Inside Containment - Exhaust

ork Location

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-123 Pump # R2992 Media ~~MCEF~~ Hydrion MCEF
-124

Calibration: 0.200 lpm Time: 10:05 11:24 79
Pre 202 cc/min Post 199 cc/min On 12:25 Off 1:18 53 Volume 26.4 l
132

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

lient EPA Date 6/12/03 Job Code

mployee Tud SSN # Job Title

ork Description Air Cycle - Real World
Inside Containment - Feed Tube

ork Location

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-125 Pump # 13914 Media Hydrar
-126 MCEF

Calibration: 0.201 Time: 10:05 11:24 79
Pre 204 cc/mn Post 199 cc/mn On 12:25 Off 1:18 53 Volume 26.5 l
132

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

lient EPA Date 6/13/03 Job Code

mployee Tad SSN # Job Title

ork Description AV Cycle - Real World
Filter Change #1

ork Location

espirators/PPE

ontrols

Sample #3705-A-A-6/12-127-128 Pump # 12708 Media Hydra MCEF

Calibration: 0-255 lpm Time: 12
Pre 256 cc/mn Post 255 cc/min On 10:30 Off 10:42 Volume 3.10

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

lient EPA Date 6/13/03 Job Code

mployee Tad SSN # Job Title

ork Description Air Cycle - Real World
Filter Change #2/ Drum D#1

ork Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-129-130 Pump # 12708 Media Hydrox
MCEF

Calibration: 0.255 lpm Time: 12

Pre 256cc/min Post 255cc/min On 11:12 Off 11:24 Volume 3.1l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description Air cycle Device - Real world
Ceiling #1

ork Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-131 Pump # 12664 Media Hydrum
MCEF

Calibration: 0.260 lpm -132 Time: 4

Pre 261 cc/min Post 259 cc/min On 11:12 Off 11:16 Volume 1.0 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

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description Air cycle Device - Real World
Ceiling H2

ork Location

espirators/PPE

ontrols

Sample # 3205-AA-6/12-133 -134 Pump # 12664 4 Media Hydrar MCEF

Calibration: 0.200 lpm Time:
Pre 261 cc/min Post 259 cc/min On 11:17 Off 11:21 Volume 1.0 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 EPA Date 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description Air Cycle Device - Real World
LEFT Shalder - 2nd drum

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-135 -136 Pump # 11249 Media Hydrar MCEF

Calibration: 0.198 lpm Time: 52
Pre 197cc/min Post 199cc/min On 12:25 Off 1:17 Volume 10-3.8

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

lient EPA Date 6/12/07 Job Code

mployee Tad SSN # Job Title

ork Description Air Cycle Device - Real world
RIGHT SHOULDER, 2nd drum

Work Location

Respirators/PPE

Controls

Sample # 3705-AA-6/12-137 Pump # 11271 Media
-138

Calibration: 0.2120 Time:
Pre 211 cc/min Post 214 cc/min On 12:25 Off 1:17 Volume 160 l

Substance	OSHA PEL	Concentration	8 Hour TWA

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description @ AN Cycle Dentc - Real World
Overnight Sample - placed near exhaust on

Work Location fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-139 -140 Pump # R 2992 Media Hydrar mCEF

Calibration: 0.144 liter
Pre 146 cc/min Post 142 cc/min Time: 5:49 pm 6/12 On 7:30 Am Off 6/13 821 Volume 1182 l

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

COMMENTS: 11 + 340 + 420 + 36

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description ~~[illegible]~~ AirCycle DeviceReal World Overnight Sample - placed near feed tube

Work Location on fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-141 -142 Pump # 11249 Media Hydar MCEF

Calibration: 0.157 lpm Time: 5:49 PM 6/12 Pre 157cc/min Post 158cc/min On 7:30 AM Off 6/13 821 Volume 128.9 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 EIA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle Devie - Real world
overnight sample placed on floor down

Work Location outside of containment

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-143 -144 Pump # 13914 Media Hydrar MCEF

Calibration: 0.150 l/m Time: 5:49 pm 6/12
Pre 150cc/mn Post 50cc/mn On 7:30 AOff 6/13 Volume 123.1l
821

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description air cycle Device - Equipment Comparison Phase II
on Tad's RIGHT Shoulder

ork Location

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-145 -146 Pump # 12664 Media Hydar MCEF

Calibration: 0.199 lpm Time: 37 min

Pre 200cc/min Post 199 cc/min On 4:30 Off 5:07 Volume 740

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 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description Aircycle Device Equip Comp. Phase II
On Tad's LEFT shoulder

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-147 -148 Pump # 11308 Media Hydrar MCEF

Calibration: 0.203 Lpm Time: 37 min

Pre 203 cc/min Post 203 cc/Min On 4:30 Off 5:07 Volume 7.5 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 E/A Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle Device - Equip Comparison Phase II
Inside Containment near Exhaust

Work Location on fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-412-149 -150 Pump # 13681 Media Hydrar MCEF

Calibration: 0.200 [illegible] Time: 31 [illegible]

Pre 201 cc/min Post 199 cc/min On [illegible] Off [illegible] Volume 7.4 l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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RAND

AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle Device - Equip Comparison Phase II

Work Location Inside containment near Exhaust on fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-151 -152 Pump # 11177 Media Hydrion MCE F

Calibration: 0.206 l/min Time: 31 min

Pre 203 cc/min Post 209 cc/min On 4:30 Off 5:07 Volume 7.6 l

Substance	OSHA PEL	Concentration	8 Hour TWA

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description Air cycle Device - Equip Comparison Phase II
Inside Containment near feed inlet tube

Work Location on fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-153 -154 Pump # 11152 Media Hydrar MCEF

Calibration: 0.209 dpm Time: 37

Pre 209cc/min Post ~~0.01~~ 209 cc/min On 4:30 Off 5:07 Volume 7.7 l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description Air Cycle Equip Comparison Phase II
Inside containment near feed tube inlet on

Work Location fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-155 -156 Pump # 11254 Media Hydrar MCEF

Calibration: 0.205 lpm Time: 37

Pre 206 cc/min Post 201 cc/min On 4:30 Off 5:07 Volume 7.5 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

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description air Cycle Denize - Equipment Comparison Phase II
on Tadshoulder for Interchange #1

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-157 -158 Pump # 12708 Media Hydrar mCEF

Calibration: 0.255 lpm Time: 12
Pre 258 Post 255 cc/min On 4:55 Off 507 Volume 3.1 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 EPA Date 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description Air cycle Verie - Equip Comparison Phase II
on Tads shoulder for Filter Δ #2 & Drum Δ #1

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-159-160 Pump # 12708 Media Hydrar MCEF

Calibration: 0.255 lpm Time: 14

Pre 256 Post 255 cc/mm On 7:46 Off 8:00 Volume 3.6 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 EPA Date 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description ~~Ceiling~~ An Cycle Equip. Comparison Phase II

Work Location Ceiling #1 - driving drive Δ

Respirators/PPE 4 min personal sample

Controls

Sample # 3705-A-A-6/6-161 -162 Pump # 112711 Media Hydrogen MCEP

Calibration: Pre ~~[illegible]~~ 253 ml/min Post 0.254 lpm 256 ml/min Time: On 7:46 4 Off 7:51 Volume 1.0 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 EPA Date 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description Qr Cycle Equip Comparison Phase II
Ceiling #2 - during drum Δ

Work Location
4 min personal sample

Respirators/PPE

Controls

Sample # 3705-A-A-6/11-163 -164 Pump # 112711 Media Hydrar mcEF

Calibration: Pre 253 cc/min Post 0.254 lpm 254 cc/min Time: On 7:51 Off 7:55 4 Volume 1.0 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

lient EPA Date 6/13/03 Job Code

mployee Tal SSN # Job Title

ork Description Air Cycle - Real WMA
Filter Change #3

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-165 Pump # 12708 Media Hydran
-166 mCEF

Calibration: 0.255 lpm Time: 12
Pre 256cc/min Post 255cc/min On 12:50 Off 1:02 Volume 3.1

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 S.P.A Date 6/13/07 Job Code

Employee Tal SSN # Job Title

Work Description Air Cycle - Real Wood
Drum Δ#2

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-167 Pump # 12708 Media Hydrar MCEF

Calibration: 0.255 lbf Time: 13
Pre 25 cc/min Post 255 cc/min On 1:52 Off 2:15 Volume 3.3 l

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

COMMENTS

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AIR SAMPLING DATA FORM

lient EPA Date 6/13/03 Job Code

mployee Tu SSN # Job Title

ork Description Air Cycle - Real World
Drum Δ #2

ork Location

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-167 Pump # 12708 Media Hydrar mCEF

Calibration: 0.255 168 hrs Time: 13

Pre 256 cc/min Post 255 cc/min On 1:52 Off 2:05 Volume 3.3 l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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1-A

AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee SSN # Job Title

Work Description BOX TEST in Air Cycle Containment
West containment on fiber drum

Work Location

Respirators/PPE

Controls

Sample # 3705-T-A-6/12-169 Pump # 11308 Media Hydrar mCEF
-170

Calibration: 0.201pm Time: (45 min) 3:17
Pre 200cc/min Post 203cc/min On 2:32 Off 3:75 Volume 9.0 L

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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AIR SAMPLING DATA FORM

Client EPA Date 6/12/03 Job Code

Employee Tad SSN # Job Title

Work Description UTUBES – Av Cycle
processing UTubes – on Tad's LEFT shoulder

Work Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-~~#5~~ 171 - ~~#6~~ 172 Pump # 11152 Media Hydrar MCEF

Calibration: 0.209 Lpm Time: 14 min

Pre 209 cc/min Post 209 cc/min On 1:21 Off 1:35 Volume 298

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

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description U TUBES Air Cycle
processing UTubes - on Tad's RIGHT Shoulder

ork Location

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-~~14~~ 173 Pump # 11254 Media Hydrex MCEF
-~~148~~ 174

Calibration: .207 lpm Time: 14 min

Pre 209 cc/min Post 206 cc/min On 1:21 Off 1:35 Volume 2.9 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

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description U TUBES IAV Cycle

Inside Containment - near exhaust on

ork Location fiber drum

Respirators/PPE

Controls

Sample # 3705-A-A-6/12-HG 175 - HG 176 Pump # 11177 Media Hydrar mCEF

Calibration: 0.205 Open Time: 14 min

Pre 208 cc/min Post 203 cc/min On 1:21 Off 1:55 Volume 2.8 l

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

COMMENTS:

Industrial Hygienist: Reviewed By:

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Rand

AIR SAMPLING DATA FORM

lient EPA Date 6/12/03 Job Code

mployee Tad SSN # Job Title

ork Description U TUBES Air Cycle
Inside containment - near feed tube on

ork Location fiber drum

espirators/PPE

ontrols

Sample # 3705-A-A-6/12-~~151~~ 177 Pump # 13681 Media Hydrar
-~~162~~ 178 MCEF

Calibration: 0.201 lpm Time: 14 min

Pre 202cc/min Post 201cc/min On 1:21 Off 1:35 Volume 2.8 l

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

COMMENTS:

Industrial Hygienist: Reviewed By: