

APPENDIX B

FACILITY EXPOSURE INDEX

MAXIMUM YEARLY %OEL VALUES FOR EACH SET

FACILITY A FEI = 6.9

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Sample Vials	Sample Prep	Loading	Hexane	Bench Top	250	5.9
Column, Na ₂ SO ₄	Sample Prep	Addition	Dichloromethane	Fume Hood	600	1.0

FACILITY B FEI = 76.9

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Spinning Band Still	Distillation	Load/Unload	Dichloromethane	Bench Top	75	21.2
Separatory Funnel	Extraction	Load/Shake/Unload	Dichloromethane	Bench Top	750	12.8
Separatory Funnel	Extraction	Disposal	Dichloromethane	Bench Top	150	10.2
S-Evap	Concentration	Load/Unload	Dichloromethane	Fume Hood	500	7.9
S-Evap	Concentration	Solvent Rinse	Dichloromethane	Fume Hood	250	5.1
Steam Bath	Concentration	Load/Unload	Dichloromethane	Fume Hood	500	7.4
Soxhlet	Extraction	Load/Unload	Dichloromethane	Fume Hood	250	7.2
Snyder Column	Sample Prep	Solvent Rinse	Dichloromethane	Fume Hood	125	5.1

FACILITY C **FEI = 63.0**

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Spinning Band	Distillation	Load/Unload	Dichloromethane	Bench Top	50	21.6
Soxhlet, Mini	Extraction	Unload	Dichloromethane	Bench Top	400	16.8
Soxhlet, Mini	Extraction	Load	Dichloromethane	Bench Top	250	7.2
Reservoir, Eluent	Analysis	Purge	Acetonitrile	Bench Top	500	9.5
Reservoir, Eluent	Analysis	Purge	Methanol	Bench Top	500	1.2
Bottles, 4-liter	Bulking	Transfer	Dichloromethane	Bench Top	50	4.7
Hot Plate	Acid Digestion	Load/Unload	Sulfuric Acid	Fume Hood	200	2.0

FACILITY D **FEI = 95.9**

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Field Apparatus	Pressure Spraying	Solvent Rinse	Isopropanol	Bench Top	800	50.6
S-Evap	Concentration	Load/Unload	Dichloromethane	Bench Top	150	28.4
Cylinder, Graduated	Extraction	Addition	Hexane	Bench Top	450	8.4
Tub. Plastic	Glassware	Solvent Rinse	Hexane	Bench Top	150	6.1
Continuous 1-Step	Extraction	Unload	Dichloromethane	Bench Top	15-	2.4

FACILITY E FEI = 194.5

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Continuous 1-Step	Extraction	Load/Unload	Dichloromethane	Bench Top	1200	75.1
Microscope	Analysis, Removal	Counting	Formaldehyde	Bench Top	1500	47.0
AA, Cold Vapor	Analysis	Operation	Organomercury	Vented	50	37.0
S-Evap	Concentration	Load/Unload	Dichloromethane	Bench Top	300	14.2
S-Evap	Concentration	Load/Unload	Hexane	Bench Top	300	6.5
Turbo-Evap	Concentration	Load/Unload	Dichloromethane	Bench Top	75	8.3
NA	Shipping/ Removal	Log-in	TVOC	Bench Top	300	6.4

FACILITY F FEI = 142.1

APPARATUS	PROCEDURE	TASK	CHEMICAL	CONTROL	CONTACT TIME	YEARLY %OEL
Acc. Continuous 1-Step	Extraction	Load	Dichloromethane	Bench Top	200	43.4
Acc. Continuous 1-Step	Extraction	Set-up	Dichloromethane	Bench Top	200	30.3
Acc. Continuous 1-Step	Extraction	Breakdown	Dichloromethane	Bench Top	50	6.4
Acc. Continuous 1-Step	Extraction	Unload	Dichloromethane	Bench Top	100	5.0
Acc. Continuous 1-Step	Extraction	Solvent Rinse	Dichloromethane	Bench Top	25	4.0
Separatory Funnel	Extraction	Load/Unload	Dichloromethane	Bench Top	60	2.0
Sample Vials	Extraction	Load/Unload	Dichloromethane	Bench Top	300	23.0
Sample Vials	Extraction	Load/Unload	Hexane	Bench Top	300	6.8
Sample Vials	Extraction	Solvent Rinse	Dichloromethane	Bench Top	50	16.3
Sample Vials	Extraction	Solvent Rinse	Hexane	Bench Top	50	4.9