

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING KM-4293

DATE 9-25-86

FACILITY South Western Refinery		DEPARTMENT Maint	
OPERATION/JOB TITLE Insulator			NUMBER OF SHIFTS
EMPLOYEE Roy Wolford			EMPLOYEE NUMBER
SURVEYOR C. Tuttle			
SAMPLE NUMBER 86-54	SAMPLE TYPE ☒ Breathing Zone ☐ General Air	SPECIAL	
FILTER TYPE 0.8 μ	☐ Resp. ☐ Total	TUBE ☐ Detector ☐ Silgel ☐ Charcoal	
IMPINGER ☐ Midget ☐ Bubbler	SOLUTION		
CONTAMINANT Asbestos	PUMP NUMBER 60X#4	CALIBRATION DATE 9-18-86	
TIME ON 10:55	FLOWRATE 2.0 lpm		
TIME OFF 11:22	FLOWRATE		

Minutes 27 x 2 Flowrate = Sample Volume 54 L

SAMPLING CONDITIONS

TEMPERATURE 88°	HUMIDITY 63%	AIR VELOCITY 5 20-25 mph	BAROMETRIC PRESSURE 29.91
CONTROL MEASURES Handled wet, disposable gloves, coveralls, rubber boots, half face resp. w/ H cartridge, Hard hat, safety glasses			

JOB DESCRIPTION

Remove asbestos from piping in scrapyard

ANALYTICAL TECHNIQUE

EXPOSURE CONCENTRATION CALCULATION

Lab Result < .5 f/cc

$$\frac{.5 \times 27}{480} = < .03 \text{ f/cc T.W.A.}$$

SWRf/Asbestos 1336

1B 000470

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING KM-4293

DATE 9-25-86

FACILITY Southwestern Refinery		DEPARTMENT Maint.	
OPERATION/JOB TITLE Insulator		NUMBER OF SHIFTS 1	
EMPLOYEE Victor Vallego		EMPLOYEE NUMBER	
SURVEYOR C Tuttle			
SAMPLE NUMBER 86-55	SAMPLE TYPE ☒ Breathing Zone ☐ General Air	SPECIAL	
FILTER TYPE 0.8 μ	☐ Resp. ☐ Total	TUBE ☐ Detector ☐ Silgel ☐ Charcoal	
IMPINGER ☐ Midget ☐ Bubbler	SOLUTION		
CONTAMINANT Asbestos		PUMP NUMBER BOX #3	CALIBRATION DATE 9-18-86
TIME ON 10:58		FLOWRATE 2.0 lpm	
TIME OFF 11:22		FLOWRATE	
Minutes 24 x 2 Flowrate = Sample Volume 48 l			

SAMPLING CONDITIONS

TEMPERATURE 88°	HUMIDITY 63%	AIR VELOCITY 5 20-25 mph	BAROMETRIC PRESSURE 29.91 -
CONTROL MEASURES Handled wet, Disposable gloves, coveralls, rubber boots, half-face res w/ H cartridge. Hard hat, safety glasses			

JOB DESCRIPTION

Remove asbestos from pipe in scrap yard

ANALYTICAL TECHNIQUE

EXPOSURE CONCENTRATION CALCULATION

Lab Result 4.5 f/cc

$$\frac{.5 \times 24}{480} = 4.025 \text{ f/cc}$$

SWRf/Asbestos 1337

1B 000471

**NATLSCO**

National Loss Control Service Corporation

ENVIRONMENTAL SCIENCES LABORATORY, K-2

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Nº 44342

ANALYSIS REQUEST

FIELD NUMBER	SAMPLING VOLUME	ANALYZE FOR—	LABORATORY NO.	RESULTS
86-54	54L	Asbestos		
86-55	48L	Asbestos		
86-56	54L	methyl Tert. Butyl Ether		
86-57	1060L	Hydrogen Fluoride		
86-58	54L	Benzene, Xylene, Toluene		
86-59	340L	Hydrogen Fluoride		
86-60	17L	unknown		
86-61	.5L	Benzene		
86-62	6L	Benzene		
Blank		Asbestos		
Blank		Benzene, Xylene, Toluene		
Blank		HF		

COMMENTS:

DATE SAMPLES TAKEN

DATE RECEIVED BY
LABORATORY

DATE COMPLETED

ANALYTICAL METHOD:

SWRf/Asbestos 1342

1B 000476