

SOUTHWESTERN REFINING COMPANY, INC.

INTER OFFICE MEMORANDUM

February 3, 1983

PLAINTIFF'S
EXHIBIT
KRC-240

MEMO TO: V. W. Litton

FROM: R. A. Watson *R.W.*

SUBJECT: Crude I Turnaround Asbestos Monitoring

The results from Ctek (attached) show that the asbestos removal during the Crude I turnaround was very low.

Very good cooperation was given by the Insulation Department during the turnaround to do sampling for asbestos. Also, the safety procedure for asbestos removal was well followed.

RAW:dl
Attachment
xc: R. Utesch

survey sheet complete



Continental Technical Services

A Facility of The Continental Insurance Companies

THE ENVIRONMENTAL HEALTH LABORATORY
of
CONTINENTAL TECHNICAL SERVICES
9742 SKILLMAN • DALLAS, TEXAS 75243 • 214/343-2025

LABORATORY REPORT 83-0049

83/01/28

SOUTHWESTERN REFINING CO., INC

P. O. BOX 9217

CORPUS CHRISTI TX 78469

Attn: RICHARD A. WATSON,

ENVIRONMENTAL CONTROL

EHL NO.	FIELD NO.	SAMPLE MEDIA	SAMPLE VOL.	ANALYSIS	RESULTS
D3256	#1	CEF	78 L	ASBESTOS	0.34 f/cc
D3257	#2	CEF	68 L	ASBESTOS	0.39 f/cc
D3258	#3	CEF	120 L	ASBESTOS	0.22 f/cc
D3259	#4	CEF	930 L	ASBESTOS	0.03 f/cc
D3260	#5	CEF	72 L	ASBESTOS	0.37 f/cc
D3261		CEF	BLANK	ASBESTOS	

COMMENTS:

THANK YOU !

Roger E. Hallstein
ROGER HALLSTEIN, Ph.D.
LABORATORY MANAGER

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING

KM-4293

FACILITY

OPERATION/JOB TITLE

DEPARTMENT

DATE

983006.1

1-11-83

EMPLOYEE

SURVEYOR

SAMPLE NUMBER

FILTER TYPE

IMPINGER

CONTAMINANT

TIME ON

TIME OFF

Minutes 39 X 2 Flowrate = Sample Volume 78 L

SAMPLING CONDITIONS

TEMPERATURE

72°F

HUMIDITY

50%

AIR VELOCITY

ENE 10-12 MPH

BAROMETRIC PRESSURE

30.20

CONTROL MEASURES

SURCO Safety Procedure # 65 (Asbestos) used by
Insulation Dept

JOB DESCRIPTION

CRI T/A: stripped line for welding repair: area marked off by
safety tape and sign: wetted area down before removing: clean up
after removal: put in wetted approved plastic bag with asbestos
warning on it: removed to designated storage area for commercial
disposal

ANALYTICAL TECHNIQUE

Phase contrast microscopy: record results in f/cc

EXPOSURE CONCENTRATION CALCULATION

Cite results: 0.34 f/cc Standard: 2.0 f/cc

39 min sample

8 Hour TWA

$$\frac{0.34 \text{ f/cc} \times 39 \text{ min}}{480 \text{ min}} = 0.03 \text{ f/cc}$$

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING

KM-4293

FACILITY

Southwestern Refining Co. Inc.

DEPARTMENT

Crude I Unit

DATE

9/3002.1 1-11-83

OPERATION/JOB TITLE

NUMBER OF SHIFTS

1 (8 hrs)

EMPLOYEE

SURVEYOR

SAMPLE NUMBER

#2

SAMPLE TYPE

☐ Breathing Zone☒ General Air

SPECIAL

FILTER TYPE

8.0 Millipore

☐ Resp. SOLUTION☐ Total

TUBE

☐ Detector☐ Silgel☐ Charcoal

IMPINGER

☐ Midget☐ Bubbler

CONTAMINANT

Asbestos

PUMP NUMBER

#2 Bendix 44 SS

CALIBRATION DATE

1-10-83

TIME ON

0849 hrs

FLOWRATE

2.0 l/min

TIME OFF

0923 hrs

FLOWRATE

2.0 l/min

Minutes 34 X 2 Flowrate = Sample Volume

68 l

SAMPLING CONDITIONS

TEMPERATURE

72.6°F

HUMIDITY

50%

AIR VELOCITY

ENE 10-12 MPH

BAROMETRIC PRESSURE

30.20

CONTROL MEASURES

SWR Co Safety Procedure #65 (Asbestos) used by Insulation Dept

JOB DESCRIPTION

CRJ T/A: stripped line for welding repair: area marked off by safety tape and signs: wetted area down before removing: clean up after removal: put in wetted approved plastic bag with asbestos warning on it: removed to designated storage area for commercial disposal

ANALYTICAL TECHNIQUE

Phase contrast microscopy: record results in f/cc

EXPOSURE CONCENTRATION CALCULATION

Ctek results: 0.39 f/cc Standard: 2.0 f/cc

34 min sample

8 Hour TWA

$$\frac{0.39 \text{ f/cc} \times 34 \text{ min}}{480 \text{ min}} = 0.03 \text{ f/cc}$$

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING KM-4293

FACILITY: Sand Western Refining Co. Inc. DEPARTMENT: Crude I Unit DATE: 993003.1 1-11-83

OPERATION/JOB TITLE: Area Sample: pipe overhead in alley way NW of control room NUMBER OF SHIFTS: 1

EMPLOYEE: B. Watson EMPLOYEE NUMBER:

SAMPLE NUMBER: #3 SAMPLE TYPE: ☐ Breathing Zone ☒ General Air SPECIAL:

FILTER TYPE: 8W Millipore ☐ Resp. SOLUTION ☐ Total ☐ Detector ☐ Silgel ☐ Charcoal

IMPINGER: ☐ Midget ☐ Bubbler

CONTAMINANT: Asbestos PUMP NUMBER: #2 Bendix 44 SS CALIBRATION DATE: 1-10-83

TIME ON: 1020 hrs FLOWRATE: 2 l/min

TIME OFF: 1120 hrs FLOWRATE: 2 l/min

Minutes: 60 X 2 Flowrate = Sample Volume 120.0

SAMPLING CONDITIONS

TEMPERATURE: 72°F HUMIDITY: 50% AIR VELOCITY: ENE 10-12 MPH BAROMETRIC PRESSURE: 30.20

CONTROL MEASURES: SWR Co. Safety Procedure #65 (Asbestos) used by

Insulation Dept.

JOB DESCRIPTION

CRI THA: stripped line for welding repair: area marked off by safety tape and signs: wetted area down before removing: clean up after removal: put in wetted approved plastic bag with asbestos warning on it: removed to ~~designated~~ storage area for commercial disposal

ANALYTICAL TECHNIQUE: Phase contrast microscopy: record results in f/cc

EXPOSURE CONCENTRATION CALCULATION: Cele. results: 0.22 f/cc Standard: 2.0 f/cc

60 min sample

8 Hour TWA

$$\frac{0.22 \text{ f/cc} \times 60}{480} = 0.03 \text{ f/cc}$$

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING

KM-4293

983004.1

DATE

1-11-83

FACILITY

Southwestern Refining Co. Inc.

DEPARTMENT

Alky Unit

NUMBER OF SHIFTS

2

EMPLOYEE

Area Sample: Alky control room

SURVEYOR

D. Watson

SAMPLE NUMBER

#4

SAMPLE TYPE

☐ Breathing Zone☒ General Air

SPECIAL

FILTER TYPE

8 in Millipore

☐ Resp. SOLUTION☐ Total

TUBE

☐ Detector☐ Silgel☐ Charcoal

IMPINGER

☐ Midget☐ Bubbler

CONTAMINANT

Asbestos

PUMP NUMBER

#4 Bendix 44 SP

CALIBRATION DATE

1-10-83

TIME ON

0748 hrs

FLOWRATE

2.0 l/min

TIME OFF

1533 hrs

FLOWRATE

2.0 l/min

Minutes 465 x 2 Flowrate = Sample Volume 930 l

SAMPLING CONDITIONS

TEMPERATURE

72 °F

HUMIDITY

50%

AIR VELOCITY

Air conditioning

BAROMETRIC PRESSURE

30.20

CONTROL MEASURES

No control measures: operator was concerned on what was seen coming out of air vents and wrote it up in the safety meeting minutes going to Safety Office

JOB DESCRIPTION

Control of process for Alky Unit and Motor Plat. by use of instruments

ANALYTICAL TECHNIQUE

Phase contrast microscopy: record results in f/cc

EXPOSURE CONCENTRATION CALCULATION

Chalk results: 0.03 f/cc Standard: 2.0 f/cc

465 min sample

8 Hour TWA

$$\frac{0.03 \text{ f/cc} \times 465 \text{ min}}{480 \text{ min}} = 0.03 \text{ f/cc}$$

INDUSTRIAL HYGIENE SURVEY DATA - WORKPLACE AIR MONITORING

KM-4293

99300501

DATE

1-12-83

FACILITY
Southwestern Refining Co. Inc.

DEPARTMENT

Crude I Unit

OPERATION/JOB TITLE

NUMBER OF SHIFTS

1

EMPLOYEE

EMPLOYEE NUMBER

SURVEYOR

SAMPLE NUMBER

#5

SAMPLE TYPE

☐ Breathing Zone☒ General Air

SPECIAL

FILTER TYPE

IMPINGER

☐ Midget☐ Bubbler☐ Resp. SOLUTION☐ Total

TUBE

☐ Detector☐ Silgel☐ Charcoal

CONTAMINANT

Asbestos

PUMP NUMBER

#2 Bendix 44 SS.

CALIBRATION DATE

1-12-83

TIME ON

1257 hrs

FLOWRATE

2 l/min

TIME OFF

1333 hrs

FLOWRATE

2 l/min

Minutes 36 X 2 Flowrate = Sample Volume 72 l

SAMPLING CONDITIONS

TEMPERATURE

68°F

HUMIDITY

40%

AIR VELOCITY

NE 15 mph

BAROMETRIC PRESSURE

29.28

CONTROL MEASURES

SWRC Safety Procedure #65 (Asbestos) used by Insulation Dept.

JOB DESCRIPTION

CRI T/A: stopped line for welding repair: area marked off by safety tape and signs: wetted area down before removing: clean up after removal: put in wetted plastic bag with asbestos warning on it: removed to designated storage area for commercial disposal

ANALYTICAL TECHNIQUE

EXPOSURE CONCENTRATION CALCULATION

Ctek results: 0.37 f/cc Standard: 2.0 f/cc

36 min sample

8-Hour TWA

$$\frac{0.37 \text{ f/cc} \times 36 \text{ min}}{480 \text{ min}} = 0.03 \text{ f/cc}$$