



PLAINTIFF'S EXHIBIT

RMC-713

REYNOLDS METALS COMPANY
SHERWIN ALUMINA PLANT

INDUSTRIAL HYGIENE MONITORING
January 27, 1997-June 30, 1997

RMC080014010020712

EXPOSURE MONITORING SUMMARY

DATE: June 18, 1997
TO: Al Withers
FROM: *AK* Craig Kimmel, CIH
RE: Asbestos Air Monitoring-Equipment Cleaner Helpers
CC: A. Boatman, J. Bryant, J. Garrison, R. Hesseltine,
A. Posas, J. Revell, R. Villarreal

Air sampling for Asbestos Fibers was conducted on the Equipment Cleaner Helpers (ECHs) while completing the following operations:

1. Removing and replacing heater bottoms
2. Removing and replacing evaporator effects bottoms
3. Rolling slurry blinds

Twenty-six (26) samples were collected and analyzed for asbestos fiber concentration using the NIOSH 7400 "Asbestos and other fibers by PCM" Analytical Method. One (1) sample was reanalyzed by the NIOSH 7402 method "Asbestos by TEM". The samples were analyzed by two independent AIHA accredited laboratories.

The results indicated that **100% of the samples were below the adjusted Permissible Exposure Limit (PEL) established by OSHA**. The OSHA PEL for asbestos is 0.1 f/cc for an 8 hour time weighted average (TWA₈). The adjusted PEL is .067f/cc for a TWA₁₂. The PEL is the average allowable exposure over a 12 hour Time Weighted Average (TWA₁₂). The attached table 1 contains a summary of the information. There were also four (4) area samples collected in the regulated area during the tasks. All of the area samples were also below the PEL. The information for the area samples is on the attached table 2.

Forty-five (45) Equipment Cleaner Helpers, Maintenance Mechanics and Team Leaders completed task training and a qualitative fit test. The workers were instructed on asbestos health hazards, work practice procedures, decontamination procedures and personal protective equipment. Below is a summary of the specific projects that were monitored during the industrial hygiene evaluation.

Project Details:

1. Locations:
 - facility 30-heaters 1-16, 2-15, 2-16, 3-11, 3-18 and 5-10
 - facility 42-#9 evaporator 3rd, 4th and 5th effects
 - facility 30-slurry lines on 3-11 heater
2. Tasks: Removing and replacing heater and evaporator bottoms with impact wrenches. Rolling slurring blinds on heaters.

3. Personal Protective Equipment (PPE): 1/2 air purifying respirators and disposable coveralls
4. Additional Controls: HEPA vacuum, amended water, regulated area and asbestos task training.

Conclusion:

100% of the samples collected were below the PEL established by OSHA of 0.067 f/cc. Based on work practice observations, exposure monitoring and preparation of the area the workers are no longer required to use the PPE and work practices established for the temporary control measures. The following parameters shall be established:

- If suspect asbestos containing insulation may be disturbed it is essential that the asbestos coordinator is notified prior to the job. This includes work on any heaters, evaporators, slurry lines or any other equipment which contains asbestos insulation material.
- Protective clothing, HEPA vacuum, amended water, barricade tape and danger asbestos signs shall be maintained by the team leaders for voluntary use for all shifts. Respirators shall be maintained by the workers.
- The data collected while rolling slurry blinds is limited; therefore additional data will be collected by the IH Department. The IH Department shall be notified by the team leaders prior to removing & replacing effects bottoms and rolling slurry blinds. PPE is not required for these operations.
- Team leaders shall review this information with all the employees on each shift.

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

Asbestos Exposure Monitoring

Table 1

Name and Badge Number	Date Sampled	Team Leader and Shift	Sample Time (on / off)	Concentration in air (fibers/cc)	Location
T. Lauderdale #2591	5-17-97	A. Posas B Shift	1035-1112	<0.04 f/cc	2-15 Heater
E. Martinez #2392	5-17-97	A. Posas B Shift	1037-1112	<0.05 f/cc	2-15 Heater
I. Jaramillo #3200	5-17-97	A. Posas B Shift	1250-1403	<0.03 f/cc	3-18 Heater
J. Lopez #2944	5-17-97	A. Posas B Shift	1249-1402	<0.03 f/cc	3-18 Heater
A. Trevino #2378	5-16-97	J. Garrison A Shift	2112-2157	<0.04 f/cc	5-10 Heater
R. Sanchez #3034	5-16-97	J. Garrison A Shift	2107-2157	<0.03 f/cc	5-10 Heater
E. Morin #2913	5-27-97	R. Hesselline C shift	0845-0914 1026-1058	<0.04 f/cc	2-16 Heater
J. Lopez #2944	5-27-97	R. Hesselline C shift	0843-0915 1028-1057	<0.04 f/cc	2-16 Heater
E. Morin #2913	5-26-97	R. Hesselline C shift	1320-1425	0.02 f/cc	1-16 Heater
J. Lopez #2944	5-26-97	R. Hesselline C shift	1320-1425	0.03 f/cc	1-16 Heater
J. Garcia #3203	5-15-97	A. Posas B Shift	1400-1600	<0.01 f/cc	1-16 Heater

Name and Badge Number	Date Sampled	Team Leader and Shift	Sample Time (on / off)	Concentration in air (fibers/cc)	Location
E. Martinez #2392	5-15-97	A. Posas B shift	1410-1600	<0.01 f/cc	1-16 Heater
R. Gonzalez #2924	5-23-97	J. Garrison A shift	0920-1400	<0.01 f/cc	3-16 Heater
A. Trevino #2378	5-23-97	J. Garrison A shift	0920-1400	<0.01 f/cc	3-16 Heater
K. Pyatte #3237	5-13-97	R. Hesselline C shift	1520-1635	<0.02 f/cc	9 evaporator effects
E. Morin #2913	5-13-97	R. Hesselline C shift	1515-1635	<0.02 f/cc	9 evaporator effects
R. Richardson #3284	5-13-97	R. Hesselline C shift	1500-1640	<0.02 f/cc	9 evaporator effects
J. Garcia #1091	5-13-97	R. Hesselline C shift	1525-1645	<0.02 f/cc	9 evaporator effects
B. Davis #3270	5-19-97	J. Revell D shift	1115-1215	<0.03 f/cc	3-11 Heater
R. Martinez #3190	5-19-97	J. Revell D shift	1115-1215	<0.03 f/cc	3-11 Heater
T. Lauderdale #2591	5-16-97	A. Posas B shift	1317-1419	<0.03 f/cc	5-7 Heater
L. Sandojo #2184	5-16-97	A. Posas B shift	1320-1417	<0.03 f/cc	5-7 Heater
E. Martinez #2392	5-16-97	A. Posas B shift	1153-1240	<0.04 f/cc	1-14 Heater

Name and Badge Number	Date Sampled	Team Leader and Shift	Sample Time (on / off)	Concentration in air (fibers/cc)	Location
D. Salinas #2928	5-16-97	A. Posas B shift	1150-1244	<0.03 f/cc	1-14 Heater
B. Davis #3270	5-19-97	J. Revell D shift	1610-1652	<0.04 f/cc	3-11 Heater (slurry blinds)
R. Martinez #3190	5-19-97	J. Revell D shift	1612-1653	0.04 f/cc*	3-11 Heater (slurry blinds)

* Initial sample was .089 f/cc by Phase Contrast Microscopy (PCM). PCM analysis counts non-asbestos and asbestos fibers. The sample was reanalyzed by Transmission Electron Microscopy (TEM), to determine concentration of asbestos fibers. The reported concentration was determined by TEM analysis.

Asbestos Monitoring

Area Samples

Location	Date	Team Leader/Shift	Time on/off	Concentration
5-10 Heater	5-16-97	J. Garrison-A shift	2119/2305	<0.01 f/cc
5-10 Heater	5-16-97	J. Garrison-A shift	2120/2306	<0.01 f/cc
Between 3-16 and 3-17 Heaters	5-23-97	J. Garrison-A shift	0920/1400	<0.01 f/cc
Between 1-15 and 1-16 Heaters	5-15-97	A. Posas-B shift	1400/1600	<0.01 f/cc

EXPOSURE MONITORING SUMMARY

DATE: March 20, 1997
TO: Al Withers
FROM: ^{AK} Craig Kimmel, CIH
RE: Asbestos Air Monitoring
CC: J. Bryant, M. Faust, R. Hesseltine, R. Villarreal,
Medical

Air sampling for Asbestos Fibers was conducted on three (3) Equipment Cleaner Helpers (ECHs), one (1) Digestion Operator Assistant (DOA) and one (1) DOA Trainee on March 3, 1997. They were on the C shift, working days. The samples were analyzed for fiber concentration with the NIOSH 7400 Analytical Method (PCM).

The results indicated that 100% of the samples were below the Permissible Exposure Limit (PEL) established by OSHA. The PEL is adjusted to the average exposure over a 12 hour Time Weighted Average (TWA₁₂). The following table contains a summary of the results:

Name & Badge #	Job Class	Date Sampled	Exposure Limit (TWA ₁₂)	Employee Exposure (TWA)
R. Brodie #3394	DOA Trainee	3-7-97	0.067 f/cc	<0.01 f/cc
M. Trevino #2744	ECH	3-7-97	0.067 f/cc	0.01 f/cc
K. Pyatte #3237	ECH	3-7-97	0.067 f/cc	0.01 f/cc
J. Lopez #2944	ECH	3-7-97	0.067 f/cc	<0.01 f/cc
I. Perez #3283	DOA	3-7-97	0.067 f/cc	0.01 f/cc

Project Details:

1. Locations: facility 30, digestion units 1, 2, 3 and 4
2. Tasks: Routine tasks including: drilling heaters, unfastening heater piping, setting up drills, visual inspections of drilling equipment, hosing down pad, transporting samples, working on vapor valves, pulling heater heads and seating valves
3. Personal Protective Equipment (PPE): hard hats, safety glasses, rubber boots and work gloves.

4. Additional Controls: Asbestos Awareness Training, Emergency Decontamination Procedure and On sight asbestos contractors for asbestos abatement
5. Comments: n/a

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

EXPOSURE MONITORING SUMMARY

DATE: May 16, 1997
TO: Al Withers
FROM:  Craig Kimmel, CIH
RE: Asbestos Air Monitoring
(Area III, maintenance mechanics)
CC: J. Bryant, T. Frazier, M. McWhorter, R. Villarreal,
Medical

Air sampling for Asbestos Fibers was conducted on four (4) Maintenance Mechanics (MMs) on April 30, 1997. The samples were analyzed for asbestos fiber concentration with the NIOSH 7402 Analytical Method (TEM).

The results indicated that two (2) of the samples were below the Permissible Exposure Limit (PEL) established by OSHA and two (2) were overloaded. The samples were determined overloaded because of excessive debris on the filter media. The PEL is the average exposure over an 8 hour Time Weighted Average (TWA₈). The following table contains a summary of the results:

Name & Badge #	Job Class.	OSHA Exposure Limit (TWA ₈)	Employee Exposure (TWA)	Comments
H. Rendon #3290	MM	.1 f/cc (fibers per cubic centimeter)	overloaded	excessive debris on filter, laboratory could not analyze
R. Henderson #3205	MM	.1 f/cc	<0.01 f/cc	
P. Featherling #3146	MM	.1 f/cc	overloaded	excessive debris on filter, laboratory could not analyze
W. Kerr #2444	MM	.1 f/cc	< 0.01 f/cc	

Project Details:

1. Locations: facilities 33 and 35
2. Tasks: cutting & welding on #11 washer, filter press floor and #3 lime tank
3. Respiratory protection: none observed

4. Additional Controls: Asbestos Awareness Training (through salaried safety meeting)

5. Comments:

- The samples were initially analyzed by PCM for total fiber concentration. Fibers were detected and the samples were reanalyzed by TEM, specifically for asbestos fibers. The TEM samples, that were analyzed, are the recorded values and are below OSHA exposure limits.

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

EXPOSURE MONITORING SUMMARY

DATE: April 22, 1997
TO: Tommy Frazier
FROM:  Craig Kimmel, CIH
RE: Asbestos Air Monitoring
CC: J. Bryant, L. Solis, R. Villarreal, Medical

Air sampling for Asbestos Fibers was conducted on seven (7) Building Trades Mechanics (BTMs) on April 8, 1997. The samples were analyzed for asbestos fiber concentration with the NIOSH 7402 Analytical Method (TEM).

The results indicated that six (6) of the seven (7) samples were below the Permissible Exposure Limit (PEL) established by OSHA and one (1) was voided. The sample was voided because it was abandoned by the worker. The PEL is the average exposure over an 8 hour Time Weighted Average (TWA₈). The following table contains a summary of the results:

Name & Badge #	Job Class.	OSHA Exposure Limit (TWA ₈)	Employee Exposure (TWA)	Comments
D. Polasek #3062	BTM	.1 f/cc (fibers per cubic centimeter)	< 0.001 f/cc	
W. Enriquez #2377	BTM	.1 f/cc	<0.001 f/cc	
L. Weatherford #3082	BTM	.1 f/cc	0.001 f/cc	
R. Menchaca #3253	BTM	.1 f/cc	< 0.001 f/cc	
G. Gamez #3071	BTM	.1 f/cc	voided	sample removed from breathing zone by worker
J. Cruz #3170	BTM	.1 f/cc	< 0.001 f/cc	
A. Garcia #2775	BTM	.1 f/cc	<0.001 f/cc	

Project Details:

1. Locations: facilities 22, 30, 33, 51 and 141
2. Tasks: wrecking & erecting scaffolding, hanging ceiling tiles and completing paperwork
3. Personal Protective Equipment (PPE): hard hats, safety glasses and steel toed shoes
4. Additional Controls: Asbestos Awareness Training (through salaried safety meeting)
5. Comments: The samples were initially analyzed by PCM for total fiber concentration. Fibers were detected and the samples were reanalyzed by TEM, specifically for asbestos fibers. The TEM samples are the recorded values and are below OSHA exposure limits.

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

EXPOSURE MONITORING REPORT

DATE: June 10, 1997
TO: Ernest Gonzales, #2914
FROM:  Craig Kimmel, CIH
RE: Asbestos Air Monitoring
(Garage, Brake Job)
CC: J. Bryant, T. Frazier, L. Jahn, R. Villarreal, D. Ulke

Thank you for participating in the Sherwin Plant's Industrial Hygiene Air Monitoring Program. The purpose of the monitoring is to determine what personal exposure levels could be expected during your work activities.

You were monitored for potential Asbestos exposure on May 15, 1997. The results of the air monitoring data indicate your exposure was **below the Excursion Limit established by OSHA**. The excursion limit is the maximum concentration a worker can be exposed to for a 30 minute interval during the work day. The following table contains a summary of the results:

Job Classification or Location	Sampling and Analytical Method	OSHA Excursion Limit	Your Exposure	Comments
Maintenance Mechanic (MM) Garage	NIOSH 7400	1.0 f/cc	<0.06 f/cc	
Area sample placed on scooter	NIOSH 7400	0.1 f/cc (OSHA PEL)	<0.03 f/cc	

Project Details:

Location: Fac 145A (Garage)

Task: Removing presumed asbestos containing brake pads from Cushman "scooter"

Personal Protective Equipment: 1/2 face air purifying respirator with HEPA filters and disposable coveralls

Additional Controls: Wet methods, HEPA vacuum, regulated area and worker training

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

EXPOSURE MONITORING REPORT

DATE: July 1, 1997
TO: R. Snapka, #3230
FROM:  Craig Kimmel, CIH
RE: Asbestos Air Monitoring
(Garage, Clutch Job)
CC: J. Bryant, T. Frazier, L. Jahn, R. Villarreal, D. Ulke

Thank you for participating in the Sherwin Plant's Industrial Hygiene Air Monitoring Program. The purpose of the monitoring is to determine what personal exposure levels could be expected during your work activities.

You were monitored for potential Asbestos exposure on June 12, 1997. The results of the air monitoring data indicate your exposure was ***below the Permissible Exposure Limit (PEL) established by OSHA***. The PEL is the average concentration a worker can be exposed to over an 8 hour work day (TWA₈). The following table contains a summary of the results:

Job Classification or Location	Sampling and Analytical Method	OSHA PEL	Your Exposure	Comments
Maintenance Mechanic (MM) Garage	NIOSH 7400	0.1 f/cc	<0.02 f/cc	
Area sample placed at forklift	NIOSH 7400	0.1 f/cc	<0.02 f/cc	

Project Details:

Location: Fac 145A (Garage)

Task: Removing presumed asbestos containing clutch from a forklift

Personal Protective Equipment: 1/2 face air purifying respirator with HEPA filters and disposable coveralls

Additional Controls: Wet methods, HEPA vacuum, regulated area and worker training

If you have any questions regarding the air monitoring results or any other industrial hygiene issues please contact me at 777-2574.

RMC080014010020725

ASBESTOS AREA

AIR SAMPLES

TABLE OF CONTENTS

- I. ASSESSMENT OF 225 ESP
- II. AREA SAMPLE SUMMARY
- III. ASBESTOS AREA AIR ANALYSIS
BY DATE
- IV. ASBESTOS AREA AIR ANALYSIS BY
LOCATION
- V. REYNOLDS METALS COMPANY PLOT
PLAN AIR SAMPLE LOCATIONS

**REYNOLDS METALS COMPANY
SHERWIN PLANT
ASSESSMENT OF 225 ESP**

As requested at our meeting on June 03, 1994, I inspected the ESP for suspect asbestos containing materials and general conditions of these suspect materials. The inspection was performed by myself on June 06, 1994.

SUSPECT MATERIALS:

Siding and thermal insulation located on the kiln, ducting, cones, pipes, roofs, and walls. These suspect materials are located throughout this area.

OBSERVATIONS:

The overall condition of these materials range from fair to poor. Significant portions of the material are missing weatherproofing and have the potential to become dislodged. There were serious signs of delamination of suspect materials. Some areas of debris were also noted during the walk through.

This area has had bars welded across several stairways restricting access to many areas. It is important to note that the grating on the catwalks and stairs are in a very deteriorated condition and entry should not be granted until such time that the integrity of all walkways is verified.

RECOMMENDATIONS:

I would recommend that this area be considered as a priority area for asbestos abatement due to the overall condition of suspect materials and gratings. Continue to restrict access to this area and require appropriate personal protective equipment and do not allow individuals to enter the area without an escort.

Steven J. Farnham, Project Administrator
Northwest Envirocon, Inc.

CC: PAUL MATULA
JACK OATS
ARLON BOATMAN
TOM BALLON

NORTHWEST ENVIROCON, INC.
REYNOLDS METALS COMPANY
SHERWIN PLANT

AREA SAMPLES

Sample's have been collected and analyzed at Reynolds Metals Sherwin Plant from April 1990 to June 1994. None of the samples analyzed during this time frame have been above the action level of .1 f/cc. The majority of these samples represent fiber counts outside of an abatement project, ~~within~~ ^{outside} the regulated area.

For the purpose of this study these samples provide two points of information:

1. That fibers did not migrate out of the regulated area during the abatement, and.
2. The ambient environment of these area's had very low fiber concentration.

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Apr 2, 1990		110	23-A5	#6 TURBINE INLET	.002	Y
Apr 4, 1990	2	30	32-A4	CLEANUP AT SEPERATOR & 4-9 FLASH TANK ABATEMENT	.005-.0116	Y
Apr 8, 1990	2	30	52-A6	1-1 STRONG LIQ. BOOSTER PUMP SUCTION LINE	.025	Y
Apr 9, 1990	2	30	58-A5	CLEANUP WESTSIDE 5 DIGESTER	.023	Y
Apr 9, 1990	2	30	56-A3	CLEANUP TOP LEVEL 5 DIGESTER	.004	Y
Apr 10, 1990	3	33	68-A10	#1 SETTLER / TOP LEVEL 5 DIGESTER	.016	Y
Apr 10, 1990	3	33	64-A6	#1 SETTLER / TOP LEVEL #5 DIGASTER	.0023	Y
Apr 11, 1990	2	30	74-A6	5 DIGESTER CLEANUP / POWERHOUSE	.0031	Y
Apr 12, 1990	2	30	80-A3	5 DIGESTER CLEANUP	<LOQ / .00086	Y
Apr 17, 1990	2	30	90-A4	4-9 FLASH TANK	<LOQ / .0032	Y
Apr 18, 1990	2	30	95-A3	DIGESTER AREA / CLEANUP	.0008	Y
Apr 18, 1990	2	30	100-A8	CLEANUP 5 DIGESTER & PIPEWRAP REMOVAL DIS. 26	.0038	Y
Apr 18, 1990	2	30	98-A6	5 DIGESTER AREA / CLEANUP	.0021	Y
Apr 18, 1990	2	30	106-A5	CLEANUP AT 5 DIGESTER	.022	Y
Apr 20, 1990	2	30	111-A3	INSTRUMENT SHACK/ 5 DIGESTER/ 1-6 HEATERS	.0043	Y
Apr 23, 1990	2	30	124-A3	5 DIGESTER / CLEANUP	<LOQ / .0016	Y
Apr 24, 1990	2	30	134-A3	5 DIGESTER / CLEANUP	<LOQ / .00133	Y
Apr 25, 1990	2	30	148-A1 0	GLOVE BAG REMOVAL 4-3 FLASH TANK	<LOQ / .007	Y
Apr 25, 1990	2	30	147-A9	5 DIGESTER, 1-6 HEATERS	<LOQ	Y
Apr 25, 1990	2	30	142-A4	5 DIGESTER / CLEANUP	<LOQ	Y
Apr 26, 1990	3	35	156-A7	PRESS AREA CLEANUP & 1-6 HEATERS	<LOQ	Y
Apr 27, 1990	2	42	164-A3	4&5 EVAPORATOR	<LOQ	Y
Apr 28, 1990		110	A4	OUTSIDE BAGOUT RM110 PREHEATER	.0010	Y
May 2, 1990	3	35	197-A9	#38 PRESS	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
May 9, 1990	3	35	237-A3	#40 PRESS	<LOQ	Y
May 10, 1990		110	250-A6	POWERHOUSE COOLING TOWER	.0376	Y
May 15, 1990		110	260-A6	#8 BOILER CONTROL ROOM	<LOQ	Y
May 17, 1990	2	30	266-AP 3	20" LINE 4-8 FLASH TANK	<LOQ	Y
May 18, 1990	2	30	269-A3	20" LINE 4-8 FLASH TANK	.0024	Y
May 21, 1990	3	35	286-A3	#33 PRESS	<LOQ	Y
May 22, 1990	3	35	290-A3	#33 PRESS	<LOQ	Y
May 23, 1990	3	35	308-A8	#33 PRESS	<LOQ	Y
May 24, 1990	3	35	314-A4	#33 PRESS	.0052	Y
May 30, 1990	4	50	320-A4	KILNS	<LOQ	Y
Jun 6, 1990	4	50	315-A17	#8 ESP	<LOQ	Y
Jun 7, 1990	4	50	361-A9	#8 ESP HOPPER	<LOQ	Y
Jun 8, 1990	4	50	375 - A7	#8 ESP HOPPER	<LOQ	Y
Jun 12, 1990	2	30	379-A3	5-5 FLASH TANK DISCHARGE LINE	<LOQ	Y
Jun 12, 1990	2	30	381-AP 5	4-8 FLASH TANK DISCHARGE LINE	<LOQ	N
Jun 15, 1990		141	384-AP 3 a&b	141 LAB TRANSITE REMOVAL	.0083	N
Jun 15, 1990		141	399-A1 8	141 LAB TRANSITE REMOVAL	.0064	Y
Jun 18, 1990	2	30	PA3	3-4 HEATER	.0003	Y
Jun 21, 1990		141	409-A4	141 LAB	.004	Y
Jun 22, 1990		141	415-A3	141 LAB	.0065	Y
Jun 23, 1990	2	30	422-A8	2-9 FLASH TANK VAPOR LINE	<LOQ	Y
Jun 25, 1990	2	30	432-A8	3-4 HEATER	<LOQ	Y
Jun 28, 1990			A10	MAINTENANCE SHOP STEAMLINE	.0057	Y
Jun 28, 1990		155	A4	BLDG. 155	.0047	Y
Jun 28, 1990	2	30	A10	2-1 DIGESTER COND. SUC. LINE	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Jul 2, 1990		155	AP5	BLDG. 155	<LOQ	N
Jul 2, 1990	2	30	AP6	1-7 HEATER	<LOQ	N
Jul 3, 1990		155	A8	BLDG. 155	.004	Y
Jul 3, 1990	2	30	A4	1-7 HEATER	<LOQ	Y
Jul 6, 1990		155	A6	BLDG. 155	<LOQ	Y
Jul 6, 1990	2	30	A15	1-7 HEATER	<LOQ	Y
Jul 9, 1990	3	35	PA3	#4 FILTER FEED TANK	<LOQ	N
Jul 9, 1990		155	A5	BUILDING 155	.003	Y
Jul 9, 1990	3	35	PA6	#4 FILTER FEED TANK	<LOQ	N
Jul 9, 1990		155	A10	BUILDING 155	.008	Y
Jul 10, 1990		155	A4	BUILDING 155	.004	Y
Jul 10, 1990		155	A5	BUILDING 155	<LOQ	Y
Jul 11, 1990	3	35	A4	#4 FILTER FEED TANK	<LOQ	Y
Jul 12, 1990	3	35	A13	#4 FILTER FEED TANK	<LOQ	Y
Jul 12, 1990	3	35	A14	#4 FILTER FEED TANK	.003	Y
Jul 16, 1990	4	45	AP3	HEADER LINE AT 68 PRECIP.	<LOQ	N
Jul 17, 1990		110	A9	4 BOILER ID FAN TURBINE	<LOQ	Y
Jul 18, 1990		110	A10	4 BOILER ID FAN TURBINE	<LOQ	Y
Jul 18, 1990	3	35	A6	#4 FILTER FEED TANK	<LOQ	Y
Jul 23, 1990	2	35	A3	BLDG. 35	<LOQ	Y
Jul 25, 1990	4	40	A11	PRECIP. 10" HEADER	.008	Y
Jul 30, 1990	2	30	A5	5-1 FLASH TANK CONE	<LOQ	Y
Jul 31, 1990	2	30	AP9	5-1 FLASH TANK CONE	<LOQ	Y
Aug 1, 1990	2	30	A8	5 DIGESTER ENCAPSULATION	<LOQ	Y
Aug 2, 1990	3	35	A9	4 FILTER FEED TANK	<LOQ	Y
Aug 16, 1990	3	33	A14	#2 DILUTER	<LOQ	Y
Aug 20, 1990	2	30	AD9	2728 HEATER UNIT / 3 WASHER WASH WATERLINE	<LOQ	Y
Aug 20, 1990	3	33	A6	#3 WASHER WASH WATER LINE	.084	Y
Aug 20, 1990	3	35	A11	4 FILTER FEED TANK	<LOQ	Y
Aug 25, 1990	2	42	AD4	4 EVAP EFFECT HEATER DOME	<LOQ	Y
Aug 28, 1990	3	35	A4	#4 FILTER FEED TANK	.003	Y
Sep 4, 1990	3	35		4 FILTER FEED TANK 9-4-90 TO 10-7-90	<LOQ TO .007	Y

KINGOLDS SHEKWIA PLANT
ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Sep 4, 1990	3	35		#1 CLEAR FILTRATE TANK 9-4-90 TO 10-4-90	<LOQ TO .0045	Y
Sep 11, 1990	2	30	A4	4-1,4-2 HEATER UNITS	<LOQ	Y
Sep 24, 1990	2	30	A11	#2-6 HEATER	<LOQ	Y
Sep 24, 1990	3	35	A11	#1 CLEAR FILTRATE TANK	<LOQ	Y
Oct 7, 1990	3	35		4 FILTER FEED TANK 10-7-90 TO 12-5-90	<LOQ TO .033	Y
Oct 23, 1990	2	30	A19	2-9 & 2-10 HEATER UNITS	<LOQ	Y
Oct 24, 1990	2	30	A-34	4 DIGESTER TRAIN MANWAYS	<LOQ	Y
Oct 31, 1990		110	A13	#2 BOILER WIND BOX	<LOQ	Y
Nov 1, 1990		110	A9	#2 BOILER WIND BOX	<LOQ	Y
Nov 6, 1990	2	30	A13	4-9 & 4-10 HEATERS	<LOQ	Y
Nov 8, 1990	2	30	A5	4-9 & 4-10 HEATERS	.0014	Y
Nov 20, 1990	2	30	A20	2-3 & 2-4 HEATERS	.003	Y
Nov 21, 1990	2	30	A7	2-3 & 2-4 HEATERS	<LOQ	Y
Dec 4, 1990	2	30	A7	3-7 & 3-6 HEATERS	<LOQ	Y
Dec 11, 1990	2	30	AD14	3-7 & 3-6 HEATERS	<LOQ	Y
Dec 13, 1990	2	30	AD6	3-7 & 3-6 HEATERS	<LOQ	Y
Dec 18, 1990	2	30	A6	2-2 HEATER	<LOQ	Y
Dec 19, 1990	2	30	A6	2-2 HEATER	<LOQ	Y
Dec 27, 1990		110	A6	#8 BOILER STEAM DRUM	<LOQ	Y
Dec 28, 1990	2	30	A6	2-10 HEATER STM LINE 10"	.008	Y
Jan 2, 1991	2	30	A5	3-8 HEATER	<LOQ	Y
Jan 3, 1991	2	30	A4	3-8 HEATER	<LOQ	Y
Jan 4, 1991	2	30	A4	3-8 HEATER	<LOQ	Y
Jan 14, 1991	2	30	A5	4-6 HEATER	.0033	Y
Jan 15, 1991	2	30	A6	4-6 HEATER	.0052	Y
Jan 23, 1991	2	30	A7	3-1 HEATER UNIT	<LOQ	Y
Jan 24, 1991	2	30	A9	2 DIGESTER TRAIN MANWAYS	<LOQ	Y
Jan 24, 1991	2	30	A6	3-1 HEATER UNIT	<LOQ	Y
Feb 7, 1991	2	30	A5	1-10 HEATER UNIT	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Feb 28, 1991	2	30	A8	4-7 FLASH TANK	.001	Y
Mar 4, 1991	2	30	A9	4-7 FLASH TANK	<LOQ	Y
Mar 13, 1991		110	A7	#1 TURBINE	<LOQ	Y
Apr 8, 1991	3	33	AP6	11 SETTLER	<LOQ	Y
Apr 9, 1991	3	33	AD12	11 SETTLER	<LOQ	Y
Apr 15, 1991	2	42	AD8	#2 EVAPORATOR	<LOQ	Y
Apr 16, 1991	2	42	AD3	#2 EVAPORATOR	<LOQ	Y
Apr 18, 1991	2	42	AD2	#2 EVAPORATOR	.003	Y
May 6, 1991	2	42	A8	8 & 9 EVAPORATOR	.01	Y
Jun 19, 1991		110	A5	4 BOILER PREHEATER BEARING	<LOQ	Y
Jul 3, 1991	2	30	A12	8&9 EVAPORATOR 4th & 5th EFFECT CONES	.0436	Y
Jul 25, 1991		110	A4	8 BOILER DOME	<LOQ	Y
Sep 18, 1991		110	A204	1 BOILER I.D. FAN TURBINE	<LOQ	Y
Oct 1, 1991	3	35		#1 CLEAR FILTRATE TANK 10-1-91 TO 11-25-91	<LOQ TO .0048	Y
Oct 2, 1991		110	A-204	1 BOILER PENTHOUSE	.008	Y
Oct 8, 1991	2	30	A-204	1-8 FLASH TANK	<LOQ	Y
Nov 12, 1991	2	30	A-08	3-6 FLASH TANK	.00458	Y
Nov 13, 1991	2	30	A-016	3-6 FLASH TANK	<LOQ	Y
Feb 24, 1992		110	A-205	#2 BOILER	<LOQ	Y
Mar 5, 1992	3	33	A-03	#12 WASHER	<LOQ	Y
Mar 9, 1992	3	33	A-206	#12 WASHER	<LOQ	Y
Mar 10, 1992	3	33	A-204	#12 WASHER	<LOQ	Y
Mar 11, 1992	3	33	A-203	#12 WASHER	<LOQ	Y
Mar 12, 1992	3	33	A-209	#12 WASHER	<LOQ	Y
Apr 15, 1992	2	30	A-201	3-2 FLASH TANK CONE	<LOQ	Y
Apr 16, 1992		110	A-209	#3 BOILER	<LOQ	Y
Apr 21, 1992		110	A-206	#3 BOILER	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
May 18, 1992	3	35		OLD MEDICAL BLDG. 5-18-92 TO 7-9-92	<LOQ	Y
May 28, 1992	4	45	A-303	PRECIPITATOR	<LOQ	Y
Jun 4, 1992	3	33		12 WASHER 6-4-92 TO 7-27-92	<LOQ TO .006	Y
Jun 11, 1992		110	A-04	4 BOILER PENTHOUSE SOUTHSIDE	<LOQ	Y
Jun 16, 1992		110	A-201	4 BOILER PENTHOUSE SOUTHSIDE	<LOQ	Y
Jun 17, 1992		110	A-201	4 BOILER PENTHOUSE SOUTHSIDE	<LOQ	Y
Jul 2, 1992	4	50	A-205	8 ESP KILN N.W. HOPPER	<LOQ	Y
Aug 3, 1992	3	35	A-202	SAN PAT BUILDING	<LOQ	Y
Aug 4, 1992	3	35	A-203	SAN PAT BUILDING	<LOQ	Y
Aug 12, 1992	2	30	A-212	1-1 FLASH TANK	<LOQ	Y
Aug 13, 1992	2	30	A-210	1-1 FLASH TANK	<LOQ	Y
Sep 24, 1992	2	30	A-11	2-9 FLASH TANK	.005	Y
Sep 26, 1992	3	33	AO-14	#2 COND CONTROLLERS	.0039	Y
Mar 1, 1993	3	33	AO-05	11 SETTLER	<LOQ	Y
Mar 3, 1993	3	33	AO-06	11 SETTLER	<LOQ	Y
Mar 4, 1993	3	33	AO-05	11 SETTLER	<LOQ	Y
Mar 8, 1993	3	33	AO-03	11 SETTLER	<LOQ	Y
Sep 14, 1993	4	50	AO-06	9 ESP KILN	<LOQ	Y
Sep 15, 1993	4	50	AO-05	9 ESP KILN	.082	Y
Sep 16, 1993		110	A-104	#6 TG ENCLOSURE	<LOQ	Y
Sep 27, 1993		110	AO-04	300/50 PRV WEST POWERHOUSE	<LOQ	Y
Sep 27, 1993	4	50	AO-207	1/2 & 3/4 ESP	.005	Y
Sep 28, 1993	4	50	AO-206	1/2 & 3/4 ESP	.005	Y
Sep 29, 1993	4	50	AO-206	1/2 & 3/4 ESP	.002	Y
Sep 30, 1993	4	50	AO-206	1/2 & 3/4 ESP	<LOQ	Y
Oct 4, 1993	4	50	AO-205	1/2 & 3/4 ESP	.0069	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Oct 5, 1993	4	50	AO-206	1/2 & 3/4 ESP	.005	Y
Oct 5, 1993	3	35	AO-13	41 PRESS	<LOQ	Y
Oct 6, 1993	4	50	AO-206	1/2 & 3/4 ESP	.021	Y
Oct 6, 1993	3	35	AO-14	41 PRESS	<LOQ	Y
Oct 7, 1993	4	50	AD-07	9 ESP KILN ENCLOSURE	.01	Y
Oct 12, 1993	2	30	AO-103	1-8 & 1-9 HEATERS	<LOQ	Y
Oct 13, 1993	4	50	AO-209	9 ESP KILN HOPPERS	<LOQ	Y
Oct 14, 1993	4	50	AO-012	9 ESP KILN HOPPERS	<LOQ	Y
Oct 18, 1993	4	50	AO-012	9 ESP	.001	Y
Oct 19, 1993	4	50	AO-03	6&7 KILN CLEANUP	<LOQ	Y
Oct 19, 1993	2	30	A-206	1-8 & 1-9 HEATER	<LOQ	Y
Oct 20, 1993	2	30	A-208	1-8 & 1-9 HEATER	<LOQ	Y
Oct 22, 1993	4	50	AO-205	1/2 & 3/4 ESP	.002	Y
Oct 23, 1993	4	50	AO-205	1/2 & 3/4 ESP	.0006	Y
Oct 23, 1993	4	50	AO-211	1/2 & 3/4 ESP	.0008	Y
Oct 24, 1993	4	50	AO-205	1/2 & 3/4 ESP	.0012	Y
Oct 26, 1993	4	50	AO-13	1/2 & 3/4 ESP	<LOQ	Y
Oct 28, 1993	4	50	AO-103	6&7 KILN CLEANUP	<LOQ	Y
Oct 29, 1993	4	50	AO-206	1/2 & 3/4 ESP	.0006	Y
Oct 30, 1993	4	50	AO-07	1/2 & 3/4 ESP	.0003	Y
Nov 1, 1993	3	35	AO-04	14 PRESS	<LOQ	Y
Nov 1, 1993		148		MACHINE SHOP STM LINE 11-1-93 TO 11-30-93	<LOQ TO .0007	Y
Nov 2, 1993	3	35	AO-04	14 PRESS	<LOQ	Y
Nov 8, 1993	4	50	AO-217	3/4 ESP	<LOQ	Y
Nov 9, 1993	4	50	AO-214	1/2 & 3/4 ESP	<LOQ	Y
Nov 10, 1993	4	50	AO-214	1/2 & 3/4 ESP	<LOQ	Y
Nov 15, 1993	3	35	AO-203	19 PRESS	<LOQ	Y
Nov 16, 1993	3	35		35 PRESSHOUSE 11-16-93 TO 12-27-93	<LOQ TO .006	Y
Dec 1, 1993	4	50		1/2 & 3/4 ESP 12-1-93 TO 2-23-94	<LOQ TO .003	Y
Dec 29, 1993	3	33		5 WASHER S.E. SIDE	<LOQ TO	Y

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
				12-29-93 TO 1-6-94	.001	
Jan 24, 1994	3	33		#2 WASHER 1-24-94 TO 3-10-94	<LOQ	Y
Jan 31, 1994	2	30		3-11 & 4-11 FLASH TANKS 1-31-94 TO 2-7-94	<LOQ TO .001	Y
Mar 8, 1994	4	50		1/2 ESP WEST DUCT 3-8-94 TO 3-15-94	<LOQ TO .0016	Y
Mar 15, 1994	3	33	AO-205	2 WASHER OVERFLOW TANK	<LOQ	Y
Mar 22, 1994	2	42	AO-206	6 EVAP 3rd EFFECT EXTERNAL SEPARATOR	<LOQ	Y
Mar 23, 1994	2	30	A-202	5 DIGESTER CLEANUP	<LOQ	Y
Apr 12, 1994	4	45		CAUSTIC CLEANING LINE 4-12-94 TO 4-28-94	<LOQ	Y
May 2, 1994	3	33		#1 SETTLER 5-2-94 TO 5-17-94	<LOQ	Y
May 11, 1994		110	AO-103	300/100 PRV POWERHOUSE	<LOQ	Y
May 17, 1994	3	33		5 SETTLER 5-9-94 TO 5-17-94	<LOQ TO .0005	Y
May 31, 1994	3	33		#2 SETTLER 5-31-94 TO 6-6-94	.0002 TO .001	Y
Jun 6, 1994	2	30	AO-504	4 DIGESTER 2nd DECK ALONG STAIRWAY	<LOQ	N
Jun 6, 1994	2	30	AO-502	3 DIGESTER 2nd DECK EAST RAILING	<LOQ	N
Jun 6, 1994	2	30	AO-505	4 DIGESTER 2nd DECK ALONG RAILING	<LOQ	N
Jun 6, 1994	1	225	AO-500	225 ESP 1st LEVEL CAT WALK SOUTH END	<LOQ	N
Jun 6, 1994	1	225	AO-501	225 ESP ON THE GROUND SOUTH END	<LOQ	N
Jun 7, 1994	2	30	AO-504	5 DIGESTER 1 st LEVEL 7.5' HIGH RIGHTSIDE STAIRWAY	<LOQ	N
Jun 7, 1994	2	30	AO-505	5 DIGESTER 1st LEVEL ALONG STAIRWAY	<LOQ	N
Jun 7, 1994	2	30	AO-503	2 DIGESTER ALONG STAIRWAY	<.003	N
Jun 7, 1994	2	26	AO-506	DIGESTER FEED PUMPS WESTSIDE	<.003	N
Jun 7, 1994	2	26	AO-507	DIGESTER FEED PUMPS NEAR MIDDLE	<LOQ	N
Jun 7, 1994	2	30	AO-502	2 DIGESTER 2nd DECK 8.2' FROM DECK	<LOQ	N
Jun 7, 1994	2	30	AO-500	1 DIGESTER 2nd DECK 5.5'	<LOQ	N

ASBESTOS AREA AIR ANALYSIS

DATE SAMPLED	AREA	FAC	SAMPLE I.D.#	SAMPLE LOCATION	FIBER COUNT IN F/CC	DURING ABATEMENT
Jun 7, 1994	2	30	AO-501	FROM DECK 1 DIGESTER 2nd NEAR RAILING	<LOQ	N
Jun 8, 1994	4	50	AO-505	HEAD HOUSE S. 2 KILN TOP DECK	<LOQ	N
Jun 8, 1994	4	50	AO-504	HEAD HOUSE S. 1 KILN TOP DECK	<LOQ	N
Jun 8, 1994	4	50	AO-506	HEAD HOUSE S. 3 KILN TOP DECK	<LOQ	N
Jun 8, 1994	4	50	AO-507	HEAD HOUSE S. 4 KILN TOP DECK	<.005	N
Jun 8, 1994	4	50	AO-502	8 KILN ESP HOPPER DECK	<.004	N
Jun 8, 1994	4	50	AO-501	3/4 KILN ESP 1st LEVEL	<.007	N
Jun 8, 1994	4	50	AO-500	3/4 KILN ESP 1st LEVEL	<LOQ	N
Jun 9, 1994	4	50	A-505	COOLER BUILDING NORTH END (3 ESP)	<LOQ	N
Jun 9, 1994	4	50	A-506	COOLER BUILDING NORTH END (5 ESP)	<.004	N
Jun 9, 1994	4	50	A-504	COOLER BUILDING NORTH END (1 ESP)	<.004	N
Jun 9, 1994	4	50	A-507	9 KILN HEADHOUSE SOUTHSIDE FAR RIGHT	<LOQ	N
Jun 9, 1994	4	50	A-508	9 KILN HEADHOUSE SOUTHSIDE FAR RIGHT	<LOQ	N
Jun 9, 1994	4	50	A-503	9 KILN HEADHOUSE 2nd LEVEL NW. SIDE	<LOQ	N
Jun 9, 1994	4	50	A-502	9 KILN HEADHOUSE 2nd LEVEL NW. SIDE	<LOQ	N
Jun 9, 1994	4	50	A-501	9 KILN HEADHOUSE 2nd LEVEL SE. SIDE	<LOQ	N
Jun 9, 1994	4	50	A-500	9 KILN HEADHOUSE 2nd LEVEL SE. SIDE	<.004	N
Jun 13, 1994	2	30	A-504	5 DIGESTER EXTERNAL SEPERATOR DECK NORTHEAST CORNER	<.004	N
Jun 13, 1994	2	30	A-503	4 DIGESTER EXTERNAL SEPERATOR DECK NORTHSIDE	<LOQ	N
Jun 13, 1994	2	30	A-104	2-1 /2-7 FLASH TANK DISCHARGE LINES	<LOQ	Y
Jun 13, 1994	2	30	A-501	2 DIGESTER EXTERNAL SEPERATOR DECK NE. SIDE	<.006	N
Jun 13, 1994	2	30	A-500	1 DIGESTER EXTERNAL SEPERATOR DECK N.END	<LOQ	N

all below action level
.1 action level

.2 - permiss. ex. Level

.08 - highest.

.01 = clean air after abatement
(inside)

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
#6 TURBINE INLET	Apr 2, 1990	23-A5		110	.002	Y
CLEANUP AT SEPERATOR & 4-9 FLASH TANK ABATEMENT	Apr 4, 1990	32-A4	2	30	.005-.0116	Y
1-1 STRONG LIQ. BOASTER PUMP SUCTION LINE	Apr 8, 1990	52-A6	2	30	.025	Y
CLEANUP WESTSIDE 5 DIGESTER	Apr 9, 1990	58-A5	2	30	.023	Y
CLEANUP TOP LEVEL 5 DIGESTER	Apr 9, 1990	56-A3	2	30	.004	Y
#1 SETTLER / TOP LEVEL 5 DIGESTER	Apr 10, 1990	68-A10	3	33	.016	Y
#1 SETTLER / TOP LEVEL #5 DIGASTER	Apr 10, 1990	64-A6	3	33	.0023	Y
5 DIGESTER CLEANUP / POWERHOUSE	Apr 11, 1990	74-A6	2	30	.0031	Y
5 DIGESTER CLEANUP	Apr 12, 1990	80-A3	2	30	<LOQ / .00086	Y
4-9 FLASH TANK	Apr 17, 1990	90-A4	2	30	<LOQ / .0032	Y
DIGESTER AREA / CLEANUP	Apr 18, 1990	95-A3	2	30	.0008	Y
CLEANUP 5 DIGESTER & PIPEWRAP REMOVAL DIS. 26	Apr 18, 1990	100-A8	2	30	.0038	Y
5 DIGESTER AREA / CLEANUP	Apr 18, 1990	98-A6	2	30	.0021	Y
CLEANUP AT 5 DIGESTER	Apr 18, 1990	106-A5	2	30	.022	Y
INSTRUMENT SHACK/ 5 DIGESTER/ 1-6 HEATERS	Apr 20, 1990	111-A3	2	30	.0043	Y
5 DIGESTER / CLEANUP	Apr 23, 1990	124-A3	2	30	<LOQ / .0016	Y
5 DIGESTER / CLEANUP	Apr 24, 1990	134-A3	2	30	<LOQ / .00133	Y
GLOVE BAG REMOVAL 4-3 FLASH TANK	Apr 25, 1990	148-A1 0	2	30	<LOQ / .007	Y
5 DIGESTER, 1-6 HEATERS	Apr 25, 1990	147-A9	2	30	<LOQ	Y
5 DIGESTER / CLEANUP	Apr 25, 1990	142-A4	2	30	<LOQ	Y
PRESS AREA CLEANUP & 1-6 HEATERS	Apr 26, 1990	156-A7	3	35	<LOQ	Y
4&5 EVAPORATOR	Apr 27, 1990	164-A3	2	42	<LOQ	Y
OUTSIDE BAGOUT RM110 PREHEATER	Apr 28, 1990	A4		110	.0010	Y
#38 PRESS	May 2, 1990	197-A9	3	35	<LOQ	Y

REINOLDS STEELWORKS PLANT
ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
#40 PRESS	May 9, 1990	237-A3	3	35	<LOQ	Y
POWERHOUSE COOLING TOWER	May 10, 1990	250-A6		110	.0376	Y
#8 BOILER CONTROL ROOM	May 15, 1990	260-A6		110	<LOQ	Y
20" LINE 4-8 FLASH TANK	May 17, 1990	266-AP 3	2	30	<LOQ	Y
20" LINE 4-8 FLASH TANK	May 18, 1990	269-A3	2	30	.0024	Y
#33 PRESS	May 21, 1990	286-A3	3	35	<LOQ	Y
#33 PRESS	May 22, 1990	290-A3	3	35	<LOQ	Y
#33 PRESS	May 23, 1990	308-A8	3	35	<LOQ	Y
#33 PRESS	May 24, 1990	314-A4	3	35	.0052	Y
KILNS	May 30, 1990	320-A4	4	50	<LOQ	Y
#8 ESP	Jun 6, 1990	315-A17	4	50	<LOQ	Y
#8 ESP HOPPER	Jun 7, 1990	361-A9	4	50	<LOQ	Y
#8 ESP HOPPER	Jun 8, 1990	375 - A7	4	50	<LOQ	Y
5-5 FLASH TANK DISCHARGE LINE	Jun 12, 1990	379-A3	2	30	<LOQ	Y
4-8 FLASH TANK DISCHARGE LINE	Jun 12, 1990	381-AP 5	2	30	<LOQ	N
141 LAB TRANSITE REMOVAL	Jun 15, 1990	384-AP 3 a&b		141	.0083	N
141 LAB TRANSITE REMOVAL	Jun 15, 1990	399-A1 8		141	.0064	Y
3-4 HEATER	Jun 18, 1990	PA3	2	30	.0003	Y
141 LAB	Jun 21, 1990	409-A4		141	.004	Y
141 LAB	Jun 22, 1990	415-A3		141	.0065	Y
2-9 FLASH TANK VAPOR LINE	Jun 23, 1990	422-A8	2	30	<LOQ	Y
3-4 HEATER	Jun 25, 1990	432-A8	2	30	<LOQ	Y
MAINTENANCE SHOP STEAMLINE	Jun 28, 1990	A10			.0057	Y
BLDG. 155	Jun 28, 1990	A4		155	.0047	Y
2-1 DIGESTER COND. SUC. LINE	Jun 28, 1990	A10	2	30	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	PAC	FIBER COUNT IN F/CC	DURING ABATEMENT
BLDG. 155	Jul 2, 1990	AP5		155	<LOQ	N
1-7 HEATER	Jul 2, 1990	AP6	2	30	<LOQ	N
BLDG. 155	Jul 3, 1990	A8		155	.004	Y
1-7 HEATER	Jul 3, 1990	A4	2	30	<LOQ	Y
BLDG. 155	Jul 6, 1990	A6		155	<LOQ	Y
1-7 HEATER	Jul 6, 1990	A15	2	30	<LOQ	Y
#4 FILTER FEED TANK	Jul 9, 1990	PA3	3	35	<LOQ	N
BUILDING 155	Jul 9, 1990	A5		155	.003	Y
#4 FILTER FEED TANK	Jul 9, 1990	PA6	3	35	<LOQ	N
BUILDING 155	Jul 9, 1990	A10		155	.008	Y
BUILDING 155	Jul 10, 1990	A4		155	.004	Y
BUILDING 155	Jul 10, 1990	A5		155	<LOQ	Y
#4 FILTER FEED TANK	Jul 11, 1990	A4	3	35	<LOQ	Y
#4 FILTER FEED TANK	Jul 12, 1990	A13	3	35	<LOQ	Y
#4 FILTER FEED TANK	Jul 12, 1990	A14	3	35	.003	Y
HEADER LINE AT 68 PRECIP.	Jul 16, 1990	AP3	4	45	<LOQ	N
4 BOILER ID FAN TURBINE	Jul 17, 1990	A9		110	<LOQ	Y
4 BOILER ID FAN TURBINE	Jul 18, 1990	A10		110	<LOQ	Y
#4 FILTER FEED TANK	Jul 18, 1990	A6	3	35	<LOQ	Y
BLDG. 35	Jul 23, 1990	A3	2	35	<LOQ	Y
PRECIP. 10" HEADER	Jul 25, 1990	A11	4	40	.008	Y
5-1 FLASH TANK CONE	Jul 30, 1990	A5	2	30	<LOQ	Y
5-1 FLASH TANK CONE	Jul 31, 1990	AP9	2	30	<LOQ	Y
5 DIGESTER ENCAPSULATION	Aug 1, 1990	A8	2	30	<LOQ	Y
4 FILTER FEED TANK	Aug 2, 1990	A9	3	35	<LOQ	Y
#2 DILUTER	Aug 16, 1990	A14	3	33	<LOQ	Y
2728 HEATER UNIT / 3 WASHER WASH WATERLINE	Aug 20, 1990	AD9	2	30	<LOQ	Y
#3 WASHER WASH WATER LINE	Aug 20, 1990	A6	3	33	.084	Y
4 FILTER FEED TANK	Aug 20, 1990	A11	3	35	<LOQ	Y
4 EVAP EFFECT HEATER DOME	Aug 25, 1990	AD4	2	42	<LOQ	Y
#4 FILTER FEED TANK	Aug 28, 1990	A4	3	35	.003	Y
4 FILTER FEED TANK 9-4-90 TO 10-7-90	Sep 4, 1990		3	35	<LOQ TO .007	Y

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
#1 CLEAR FILTRATE TANK 9-4-90 TO 10-4-90	Sep 4, 1990		3	35	<LOQ TO .0045	Y
4-1,4-2 HEATER UNITS	Sep 11, 1990	A4	2	30	<LOQ	Y
#2-6 HEATER	Sep 24, 1990	A11	2	30	<LOQ	Y
#1 CLEAR FILTRATE TANK	Sep 24, 1990	A11	3	35	<LOQ	Y
4 FILTER FEED TANK 10-7-90 TO 12-5-90	Oct 7, 1990		3	35	<LOQ TO .033	Y
2-9 & 2-10 HEATER UNITS	Oct 23, 1990	A19	2	30	<LOQ	Y
4 DIGESTER TRAIN MANWAYS	Oct 24, 1990	A-34	2	30	<LOQ	Y
#2 BOILER WIND BOX	Oct 31, 1990	A13		110	<LOQ	Y
#2 BOILER WIND BOX	Nov 1, 1990	A9		110	<LOQ	Y
4-9 & 4-10 HEATERS	Nov 6, 1990	A13	2	30	<LOQ	Y
4-9 & 4-10 HEATERS	Nov 8, 1990	A5	2	30	.0014	Y
2-3 & 2-4 HEATERS	Nov 20, 1990	A20	2	30	.003	Y
2-3 & 2-4 HEATERS	Nov 21, 1990	A7	2	30	<LOQ	Y
3-7 & 3-6 HEATERS	Dec 4, 1990	A7	2	30	<LOQ	Y
3-7 & 3-6 HEATERS	Dec 11, 1990	AD14	2	30	<LOQ	Y
3-7 & 3-6 HEATERS	Dec 13, 1990	AD6	2	30	<LOQ	Y
2-2 HEATER	Dec 18, 1990	A6	2	30	<LOQ	Y
2-2 HEATER	Dec 19, 1990	A6	2	30	<LOQ	Y
#8 BOILER STEAM DRUM	Dec 27, 1990	A6		110	<LOQ	Y
2-10 HEATER STM LINE 10"	Dec 28, 1990	A6	2	30	.008	Y
3-8 HEATER	Jan 2, 1991	A5	2	30	<LOQ	Y
3-8 HEATER	Jan 3, 1991	A4	2	30	<LOQ	Y
3-8 HEATER	Jan 4, 1991	A4	2	30	<LOQ	Y
4-6 HEATER	Jan 14, 1991	A5	2	30	.0033	Y
4-6 HEATER	Jan 15, 1991	A6	2	30	.0052	Y
3-1 HEATER UNIT	Jan 23, 1991	A7	2	30	<LOQ	Y
2 DIGESTER TRAIN MANWAYS	Jan 24, 1991	A9	2	30	<LOQ	Y
3-1 HEATER UNIT	Jan 24, 1991	A6	2	30	<LOQ	Y
1-10 HEATER UNIT	Feb 7, 1991	A5	2	30	<LOQ	Y

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
4-7 FLASH TANK	Feb 28, 1991	A8	2	30	.001	Y
4-7 FLASH TANK	Mar 4, 1991	A9	2	30	<LOQ	Y
#1 TURBINE	Mar 13, 1991	A7		110	<LOQ	Y
11 SETTLER	Apr 8, 1991	AP6	3	33	<LOQ	Y
11 SETTLER	Apr 9, 1991	AD12	3	33	<LOQ	Y
#2 EVAPORATOR	Apr 15, 1991	AD8	2	42	<LOQ	Y
#2 EVAPORATOR	Apr 16, 1991	AD3	2	42	<LOQ	Y
#2 EVAPORATOR	Apr 18, 1991	AD2	2	42	.003	Y
8 & 9 EVAPORATOR	May 6, 1991	A8	2	42	.01	Y
4 BOILER PREHEATER BEARING	Jun 19, 1991	A5		110	<LOQ	Y
8&9 EVAPORATOR 4th & 5th EFFECT CONES	Jul 3, 1991	A12	2	30	.0436	Y
8 BOILER DOME	Jul 25, 1991	A4		110	<LOQ	Y
1 BOILER I.D. FAN TURBINE	Sep 18, 1991	A204		110	<LOQ	Y
#1 CLEAR FILTRATE TANK 10-1-91 TO 11-25-91	Oct 1, 1991		3	35	<LOQ TO .0048	Y
1 BOILER PENTHOUSE	Oct 2, 1991	A-204		110	.008	Y
1-8 FLASH TANK	Oct 8, 1991	A-204	2	30	<LOQ	Y
3-6 FLASH TANK	Nov 12, 1991	A-08	2	30	.00458	Y
3-6 FLASH TANK	Nov 13, 1991	A-016	2	30	<LOQ	Y
#2 BOILER	Feb 24, 1992	A-205		110	<LOQ	Y
#12 WASHER	Mar 5, 1992	A-03	3	33	<LOQ	Y
#12 WASHER	Mar 9, 1992	A-206	3	33	<LOQ	Y
#12 WASHER	Mar 10, 1992	A-204	3	33	<LOQ	Y
#12 WASHER	Mar 11, 1992	A-203	3	33	<LOQ	Y
#12 WASHER	Mar 12, 1992	A-209	3	33	<LOQ	Y
3-2 FLASH TANK CONE	Apr 15, 1992	A-201	2	30	<LOQ	Y
#3 BOILER	Apr 16, 1992	A-209		110	<LOQ	Y
#3 BOILER	Apr 21, 1992	A-206		110	<LOQ	Y

RELINQUISHED DRAINAGE FLARE
ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
OLD MEDICAL BLDG. 5-18-92 TO 7-9-92	May 18, 1992		3	35	<LOQ	Y
PRECIPITATOR	May 28, 1992	A-303	4	45	<LOQ	Y
12 WASHER 6-4-92 TO 7-27-92	Jun 4, 1992		3	33	<LOQ TO .006	Y
4 BOILER PENTHOUSE SOUTHSIDE	Jun 11, 1992	A-04		110	<LOQ	Y
4 BOILER PENTHOUSE SOUTHSIDE	Jun 16, 1992	A-201		110	<LOQ	Y
4 BOILER PENTHOUSE SOUTHSIDE	Jun 17, 1992	A-201		110	<LOQ	Y
8 ESP KILN H.W. HOPPER	Jul 2, 1992	A-205	4	50	<LOQ	Y
SAN PAT BUILDING	Aug 3, 1992	A-202	3	35	<LOQ	Y
SAN PAT BUILDING	Aug 4, 1992	A-203	3	35	<LOQ	Y
1-1 FLASH TANK	Aug 12, 1992	A-212	2	30	<LOQ	Y
1-1 FLASH TANK	Aug 13, 1992	A-210	2	30	<LOQ	Y
2-9 FLASH TANK	Sep 24, 1992	A-11	2	30	.005	Y
#2 COND CONTROLLERS	Sep 26, 1992	AO-14	3	33	.0039	Y
11 SETTLER	Mar 1, 1993	AO-05	3	33	<LOQ	Y
11 SETTLER	Mar 3, 1993	AO-06	3	33	<LOQ	Y
11 SETTLER	Mar 4, 1993	AO-05	3	33	<LOQ	Y
11 SETTLER	Mar 8, 1993	AO-03	3	33	<LOQ	Y
9 ESP KILN	Sep 14, 1993	AO-06	4	50	<LOQ	Y
9 ESP KILN	Sep 15, 1993	AO-05	4	50	.082	Y
#6 TG ENCLOSURE	Sep 16, 1993	A-104		110	<LOQ	Y
300/50 PRV WEST POWERHOUSE	Sep 27, 1993	AO-04		110	<LOQ	Y
1/2 & 3/4 ESP	Sep 27, 1993	AO-207	4	50	.005	Y
1/2 & 3/4 ESP	Sep 28, 1993	AO-206	4	50	.005	Y
1/2 & 3/4 ESP	Sep 29, 1993	AO-206	4	50	.002	Y
1/2 & 3/4 ESP	Sep 30, 1993	AO-206	4	50	<LOQ	Y
1/2 & 3/4 ESP	Oct 4, 1993	AO-205	4	50	.0069	Y

KILNOLDS SHEKWIA PLANT
ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	PAC	FIBER COUNT IN F/CC	DURING ABATEMENT
1/2 & 3/4 ESP	Oct 5, 1993	AO-206	4	50	.005	Y
41 PRESS	Oct 5, 1993	AO-13	3	35	<LOQ	Y
1/2 & 3/4 ESP	Oct 6, 1993	AO-206	4	50	.021	Y
41 PRESS	Oct 6, 1993	AO-14	3	35	<LOQ	Y
9 ESP KILN ENCLOSURE	Oct 7, 1993	AD-07	4	50	.01	Y
1-8 & 1-9 HEATERS	Oct 12, 1993	AO-103	2	30	<LOQ	Y
9 ESP KILN HOPPERS	Oct 13, 1993	AO-209	4	50	<LOQ	Y
9 ESP KILN HOPPERS	Oct 14, 1993	AO-012	4	50	<LOQ	Y
9 ESP	Oct 18, 1993	AO-012	4	50	.001	Y
6&7 KILN CLEANUP	Oct 19, 1993	AO-03	4	50	<LOQ	Y
1-8 & 1-9 HEATER	Oct 19, 1993	A-206	2	30	<LOQ	Y
1-8 & 1-9 HEATER	Oct 20, 1993	A-208	2	30	<LOQ	Y
1/2 & 3/4 ESP	Oct 22, 1993	AO-205	4	50	.002	Y
1/2 & 3/4 ESP	Oct 23, 1993	AO-205	4	50	.0006	Y
1/2 & 3/4 ESP	Oct 23, 1993	AO-211	4	50	.0008	Y
1/2 & 3/4 ESP	Oct 24, 1993	AO-205	4	50	.0012	Y
1/2 & 3/4 ESP	Oct 26, 1993	AO-13	4	50	<LOQ	Y
6&7 KILN CLEANUP	Oct 28, 1993	AO-103	4	50	<LOQ	Y
1/2 & 3/4 ESP	Oct 29, 1993	AO-206	4	50	.0006	Y
1/2 & 3/4 ESP	Oct 30, 1993	AO-07	4	50	.0003	Y
14 PRESS	Nov 1, 1993	AO-04	3	35	<LOQ	Y
MACHINE SHOP STM LINE 11-1-93 TO 11-30-93	Nov 1, 1993			148	<LOQ TO .0007	Y
14 PRESS	Nov 2, 1993	AO-04	3	35	<LOQ	Y
3/4 ESP	Nov 8, 1993	AO-217	4	50	<LOQ	Y
1/2 & 3/4 ESP	Nov 9, 1993	AO-214	4	50	<LOQ	Y
1/2 & 3/4 ESP	Nov 10, 1993	AO-214	4	50	<LOQ	Y
19 PRESS	Nov 15, 1993	AO-203	3	35	<LOQ	Y
35 PRESSHOUSE 11-16-93 TO 12-27-93	Nov 16, 1993		3	35	<LOQ TO .006	Y
1/2 & 3/4 ESP 12-1-93 TO 2-23-94	Dec 1, 1993		4	50	<LOQ TO .003	Y
5 WASHER S.E. SIDE	Dec 29, 1993		3	33	<LOQ TO	Y

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
12-29-93 TO 1-6-94					.001	
#2 WASHER 1-24-94 TO 3-10-94	Jan 24, 1994		3	33	<LOQ	Y
3-11 & 4-11 FLASH TANKS 1-31-94 TO 2-7-94	Jan 31, 1994		2	30	<LOQ TO .001	Y
1/2 ESP WEST DUCT 3-8-94 TO 3-15-94	Mar 8, 1994		4	50	<LOQ TO .0016	Y
2 WASHER OVERFLOW TANK	Mar 15, 1994	AO-205	3	33	<LOQ	Y
6 EVAP 3rd EFFECT EXTERNAL SEPARATOR	Mar 22, 1994	AO-206	2	42	<LOQ	Y
5 DIGESTER CLEANUP	Mar 23, 1994	A-202	2	30	<LOQ	Y
CAUSTIC CLEANING LINE 4-12-94 TO 4-28-94	Apr 12, 1994		4	45	<LOQ	Y
#1 SETTLER 5-2-94 TO 5-17-94	May 2, 1994		3	33	<LOQ	Y
300/100 PRV POWERHOUSE	May 11, 1994	AO-103		110	<LOQ	Y
5 SETTLER 5-9-94 TO 5-17-94	May 17, 1994		3	33	<LOQ TO .0005	Y
#2 SETTLER 5-31-94 TO 6-6-94	May 31, 1994		3	33	.0002 TO .001	Y
4 DIGESTER 2nd DECK ALONG STAIRWAY	Jun 6, 1994	AO-504	2	30	<LOQ	N
3 DIGESTER 2nd DECK EAST RAILING	Jun 6, 1994	AO-502	2	30	<LOQ	N
4 DIGESTER 2nd DECK ALONG RAILING	Jun 6, 1994	AO-505	2	30	<LOQ	N
225 ESP 1st LEVEL CAT WALK SOUTH END	Jun 6, 1994	AO-500	1	225	<LOQ	N
225 ESP ON THE GROUND SOUTH END	Jun 6, 1994	AO-501	1	225	<LOQ	N
5 DIGESTER 1 st LEVEL 7.5' HIGH RIGHTSIDE STAIRWAY	Jun 7, 1994	AO-504	2	30	<LOQ	N
5 DIGESTER 1st LEVEL ALONG STAIRWAY	Jun 7, 1994	AO-505	2	30	<LOQ	N
2 DIGESTER ALONG STAIRWAY	Jun 7, 1994	AO-503	2	30	<.003	N
DIGESTER FEED PUMPS WESTSIDE	Jun 7, 1994	AO-506	2	26	<.003	N
DIGESTER FEED PUMPS NEAR MIDDLE	Jun 7, 1994	AO-507	2	26	<LOQ	N
2 DIGESTER 2nd DECK 8.2' FROM DECK	Jun 7, 1994	AO-502	2	30	<LOQ	N
1 DIGESTER 2nd DECK 5.5'	Jun 7, 1994	AO-500	2	30	<LOQ	N

ASBESTOS AREA AIR ANALYSIS

SAMPLE LOCATION	DATE SAMPLED	SAMPLE I.D.#	AREA	FAC	FIBER COUNT IN F/CC	DURING ABATEMENT
FROM DECK						
1 DIGESTER 2nd NEAR RAILING	Jun 7, 1994	AO-501	2	30	<LOQ	N
HEAD HOUSE S. 2 KILN TOP DECK	Jun 8, 1994	AO-505	4	50	<LOQ	N
HEAD HOUSE S. 1 KILN TOP DECK	Jun 8, 1994	AO-504	4	50	<LOQ	N
HEAD HOUSE S. 3 KILN TOP DECK	Jun 8, 1994	AO-506	4	50	<LOQ	N
HEAD HOUSE S. 4 KILN TOP DECK	Jun 8, 1994	AO-507	4	50	<.005	N
8 KILN ESP HOPPER DECK	Jun 8, 1994	AO-502	4	50	<.004	N
3/4 KILN ESP 1st LEVEL	Jun 8, 1994	AO-501	4	50	<.007	N
3/4 KILN ESP 1st LEVEL	Jun 8, 1994	AO-500	4	50	<LOQ	N
COOLER BUILDING NORTH END (3 ESP)	Jun 9, 1994	A-505	4	50	<LOQ	N
COOLER BUILDING NORTH END (5 ESP)	Jun 9, 1994	A-506	4	50	<.004	N
COOLER BUILDING NORTH END (1 ESP)	Jun 9, 1994	A-504	4	50	<.004	N
9 KILN HEADHOUSE SOUTHSIDE FAR RIGHT	Jun 9, 1994	A-507	4	50	<LOQ	N
9 KILN HEADHOUSE SOUTHSIDE FAR RIGHT	Jun 9, 1994	A-508	4	50	<LOQ	N
9 KILN HEADHOUSE 2nd LEVEL NW. SIDE	Jun 9, 1994	A-503	4	50	<LOQ	N
9 KILN HEADHOUSE 2nd LEVEL NW. SIDE	Jun 9, 1994	A-502	4	50	<LOQ	N
9 KILN HEADHOUSE 2nd LEVEL SE. SIDE	Jun 9, 1994	A-501	4	50	<LOQ	N
9 KILN HEADHOUSE 2nd LEVEL SE. SIDE	Jun 9, 1994	A-500	4	50	<.004	N
5 DIGESTER EXTERNAL SEPERATOR DECK NORTHEAST CORNER	Jun 13, 1994	A-504	2	30	<.004	N
4 DIGESTER EXTERNAL SEPERATOR DECK NORTHSIDE	Jun 13, 1994	A-503	2	30	<LOQ	N
2-1 /2-7 FLASH TANK DISCHARGE LINES	Jun 13, 1994	A-104	2	30	<LOQ	Y
2 DIGESTER EXTERNAL SEPERATOR DECK NE. SIDE	Jun 13, 1994	A-501	2	30	<.006	N
1 DIGESTER EXTERNAL SEPERATOR DECK N.END	Jun 13, 1994	A-500	2	30	<LOQ	N