

TO	T. S. Bialke	FIELD POINT OR DEPT. & BLDG. NO. Akron, D/0020 B/5-H	DATE YOUR LETTER
FROM	A. E. SirLouis	FIELD POINT OR DEPT. & BLDG. NO. Brecksville R & D Center, D/8506	DATE THIS LETTER Nov. 7, 1978
SUBJECT	<i>File - Long Beach</i> <u>Analysis of Personal Monitor Samples of Air Pollutants</u>		

The carbon tube personal monitor samples which arrived on the indicated date have been analyzed. Corporate Environmental Services Lab has measured each amount of adsorbed air pollutant. If a > symbol appears it indicates possible breakthrough when the back section contains an amount which is 25% or greater than that contained on the front section. These samples have been given the following log number or numbers: 1978-247.

Ann E. SirLouis
Ann E. SirLouis

jb

cc: P. M. Zakriski
R & D Files

25909001

PERSONAL MONITORING DATA

PLANT Long Beach
DATE 6/25/78
SAMPLED BY J.S. Bracke

TYPE OF PUMP S.S.P.M.
COLLECTOR TUBE: ☐ POLYETHYLENE
☐ MSA ☐ BENDIX ☒ SK-

NAME OF POLLUTANTS COLLECTED

Uranyl

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrator Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min)	Sample Volume (liters)	Pollutant Concent'n	
										TOTAL (mg)	PPM* IN AIR
T# 1	Poly SLDC	LARRY MASTER		CLIMASE OP	480	.057		326	18.5	.006	.1
T# 2	"	Joe Urbidez		Poly entry	200 480	.064		325	20.8	.012	.2
T# 3	"	John Hallaway		poly CHANGE OP	480	.032		325	10.4	.012	.4
T# 4	Poly 3006			G. A.	⊙	.032		326	10.4	.011	.4
T# 5	"	Ralph Boman		poly clean help		.058		324	18.8	>.223 (F. .147) (B. .076)	>4.6
BFG45198							$\bar{X}$ 1.14	var	3.		
	20060652						SD 1.94	var	75		

ice is reserved for the BFG Corporate Environmental Laboratory use.

ANALYZED BY G. E. de Louis

LOG NO. 247 DATE RECEIVED 11/3/78 DATE REPORTED 11-7-78 APPROVED BY O. J. Kuntz
The ppm value is not an 8-hour time-weighted average. It is based on the specific air volume which was sampled. g

A.W. Clements
Long Beach

The results (samples 1 thru 4) show that employees working at the compounding booths are exposed to excessive concentrations of airborne dust. During the course of these measurements, weighmen were compounding 2301X36 (styrene-acrylonitrile resin) and L-3 (calcium stearate).

The recommended allowable atmospheric concentration for materials such as 2301X36 and L-3 to which employees may be exposed continuously is 10 milligrams per cubic meter (mg/M^3) of air.

The contamination exhibited by the air samples is due almost entirely to poor utilization of the excellent ventilated booths provided for compounding activities and to the slipshod manner in which compounds are handled by the employee. It is recommended that all compounding operations be coordinated inside the ventilated exhaust booths. Employees should be instructed in pigment handling techniques to minimize the dispersal of these materials in the work environment. The ventilated booths have average face velocities approaching 175 feet per minute and these are more than adequate to control dust exposures, provided that compounding is done in the confines of the booth - not 6 to 10 feet away. It should be noted that chemicals of a more toxic nature (such as lead) are handled here and present work practices are not sufficient to guarantee proper control of airborne dust.

A dust sample was also obtained in the breathing zone of the Henschel mixer operator (Table I, No. 5). The result is far in excess of the recommended limit of $10 \text{ mg}/\text{M}^3$ for dust of this type. Local exhaust ventilation should be provided at the Henschel loading hopper to eliminate the dust inhalation health hazard to operating personnel. Until the ventilation improvements have been made, require these employees to wear dust respirators.

Noise measurements were made at the compounding booths and sustained levels of 92 dbA were found when both exhaust fans were running. A risk of hearing impairment exists for employees exposed to noise of this magnitude for more than six hours per day. It appears that the source of the noise is with the fan mechanism and it is recommended that the plant investigate to determine the cause and reduce the noise to less than 90 dbA.

Air samples were also collected to determine vinyl chloride concentrations at the Prodex line. The results of these measurements will be transmitted to you following laboratory analysis of the samples.

Please inform me as to the status of recommendations contained in this report.

E. B. Katzenmeyer
E. B. Katzenmeyer, Jr.

v

cc: R.W. Strassburg, Akron E.L. Beeler, Long Beach
E.W. Harrington, Cleveland F. C. Dilley, Long Beach
J.L. Nelson, Cleveland
H. Waltemate, Cleveland
W. C. Holbrook, Cleveland

25910002

BFG45200

TABLE I.

RESULTS OF ATMOSPHERIC DUST SAMPLING - LONG BEACH CHEMICAL PLANT
LONG BEACH, CALIFORNIA

<u>Sample Description</u>	<u>Atmospheric Dust Concentration * mg/M³</u>
1. Personnel sample in breathing zone of Johnnie Willis; Weighman, while weighing 2301X36 and L-3 43 minute sample	293
2. Repeat No. 1 above, 38 minute sample while weighing 2301X36	1383
3. Personnel sample in breathing zone of Ed Barrazza; Weighman, while handling 2301X36 and L-3 35 minute sample	47
4. Repeat No. 3 above; 47 minute sample while weighing L-3	150
5. Personnel sample in breathing zone of Pete Armijo; Henschel Operator CM line; 46 minute sample while handling 8700A022 Rigid compounds (102EPF5 PVC resin)	273

* Total dust as determined gravimetrically by collection on
millipore filters.

BFG45201

25910003

Actual - File

TO Ray Vanko	FIELD POINT OR AKRON DEPARTMENT & BLDG. NO. <u>Long Beach Plant</u>	DATE YOUR LETTER JAN 20 1975
FROM C. D. McCrosky	FIELD POINT OR AKRON DEPARTMENT & BLDG. NO. Henry Plant	DATE THIS LETTER 1-15-75
SUBJECT		

The attached sheets are the RVCN results for samples taken at your plant. The samples were sent to us by L. B. Crider.

All samples were run using the Carbon disulfide method.

A total of 50 hours laboratory was used to complete the testing.

C. D. McCrosky
C. D. McCrosky

CDMc:ar

cc/ ~~E.~~ B. Katzenmeyer
J. C. McCool
L. B. Crider
J. A. Klupar
A. W. Clemments
File

25911001

BFG45202

PLANT: Long Beach
 DATE: _____
 ANALYSIS BY: _____
 APPROVED BY: _____

MICRONAIR PUMPS (ADJUSTED TO FLOW 1 L/M THROUGH A CARBON TUBE).
 CHARCOAL TUBES: 20 ML. WESTVACO NUCHAR WV-H, 8 x 30 MESH.
 AIRFLOW RATE CALIBRATION: 1.0 LITER/MIN. ON FLOWRATER =

= _____ L/M BASED ON BUBBLEOMETER.

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrator Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min.)	Sample Vol. (liters)	Total VCM (mg)	VCM* (ppm in air)
167											BFG45203
168											
169											
170										.6420	
171										.0999	
172	No Sample										
173										.2450	

BFG45203

-14-

This space is reserved for the analytical group. *This value is not a time-weighted average. It is based on the specific air volume sampled.

LOG NO. _____ CHART NO. _____ DATE RECEIVED _____ DATE REPORTED _____

PLANT: Long Beach
 DATE: _____
 ANALYSIS BY: _____
 APPROVED BY: _____

MICRONAIR PUMPS (ADJUSTED TO FLOW 1 L/M THROUGH A CARBON TUBE).
 CHARCOAL TUBES: 20 ML. WESTVACO NUCHAR WV-H. 8 x 30 MESH.
 AIRFLOW RATE CALIBRATION: 1.0 LITER/MIN. ON FLOWRATER =

= _____ L/M BASED ON BUBBLEOMETER.

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrator Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min.)	Sample Vol. (liters)	Total VCM (mg)	VCM* (ppm in air)
174										1.3084 2.254	
175										1.2931	
176										1.1853	
177										.9962	
178										1.918	
179	No SAMPLE										
180										1.1141	

BFG45204

-14-

This space is reserved for the analytical group. *This value is not a time-weighted average. It is based on the specific air volume sampled.

LOG NO. _____ CHART NO. _____ DATE RECEIVED _____ DATE REPORTED _____

PLANT: Don't Report
 DATE: _____
 ANALYSIS BY: _____
 APPROVED BY: _____

MICRONAIR PUMPS (ADJUSTED TO FLOW 1 L/M THROUGH A CARBON TUBE).
 CHARCOAL TUBES: 20 ML. WESTVACO NUCHAR WV-H, 8 x 30 MESH.
 AIRFLOW RATE CALIBRATION: 1.0 LITER/MIN. ON FLOWRATER =

= _____ L/M BASED ON BUBBLEOMETER.

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrator Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min.)	Sample Vol. (liters)	Total VCM (mg)	VCM* (ppm in air)
181										1.3102	BFG45205
182										.1313	
183										.1762	
184										1.2145	
185										.4182	
186										.1529	
187										.1025	

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LOG NO. _____ CHART NO. _____ DATE RECEIVED _____ DATE REPORTED _____

PLANT: Long Beach Calif.
 DATE: _____
 ANALYSIS BY: _____
 APPROVED BY: _____

MICRONAIR PUMPS (ADJUSTED TO FLOW 1 L/M THROUGH A CARBON TUBE).
 CHARCOAL TUBES: 20 ML. WESTVACONCHAR WV-H, 8 x 30 MESH.
 AIRFLOW RATE CALIBRATION: 1.0 LITER/MIN. ON FLOWRATER =

= _____ L/M BASED ON BUBBLEOMETER.

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrator Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min.)	Sample Vol. (liters)	Total VCM (mg)	VCM* (ppm in air)
188										.2970	BFG45206
189										.2814	
190 189										.1939 .2814	
191										.1714	
192										.06267	
193										.0634	
194	No SAMPLE										

-14-

This space is reserved for the analytical group. *This value is not a time-weighted average. It is based on the specific air volume sampled.

LOG NO. _____ CHART NO. _____ DATE RECEIVED _____ DATE REPORTED _____

PERSONAL MONITORING DATA

PLANT: LONG BEACH, CA
 DATE: _____
 ANALYSIS BY: _____
 APPROVED BY: _____

MICRONAIR PUMPS (ADJUSTED TO FLOW 1 L/M THROUGH A CARBON TUBE).
 CHARCOAL TUBES: 20 ML. WESTVACO NUCHAR WV-H, 8 x 30 MESH.
 AIRFLOW RATE CALIBRATION: 1.0 LITER/MIN. ON FLOWRATER =

= _____ L/M BASED ON BUBBLEOMETER.

Sample No. and Date Taken	Sampling Location (Bldg., etc.)	Name of Employee	Job Class	Specific Operations	Expos. Time (min)	Flowrater Airflow Rate (liters/min)	Remarks	ANALYSIS & CALCULATIONS			
								Sample Time (min.)	Sample Vol. (liters)	Total VCM (mg)	VCM% (ppm in air)
Reg. 200 11/12/74	COMP.	J. MOORE	MILL OPER	MILL PRODEX	120	.9980	250 ML			.1925	
Reg 201 11-12-74	COMP.	J. WILLIS	WEIGHMAN		120	.9906	"			.1535	
Reg 202 11-12-74	COMP.	E. BARNES	WEIGHMAN		120	.9817	"			.1578	
Reg 203 11-12-74	Comp.	R. ROCK	WEIGHMAN		120	.9955	"			.6996	
Reg 204 11-12-74	Comp.	J. JONES	CM HENSCHEL		120	.9963	"			.0813	
Reg 205 11-13-74	HRC ROOM	AREA	—	—	120	.9860	"			.2990	
Reg 206 11-13-74	R-2 DRIVER CENTRIFUGE AREA	AREA	—	—	120	1.024	"			.1792	

BFG45207

is space is reserved for the analytical group. *This value is not a time-weighted average. It is based on the specific air volume sampled.

LOG NO.

CHART NO. _____

D.

RECEIVED _____

DATE REPORTED _____

A.R. Webber

Long Beach, California

W.E. McCormick

Akron - D/0020 - B/5-1

2/26/65

Liver Function Studies Recently Received

The following are the results of the liver function studies for three of your personnel.

Date Received	Name	Cephalin Flocculation		Thymol	Total
		24 hrs.	48 hrs.	Turbidity	Bilirubin
2/10/65	Blackburn, Joseph	neg.	neg.	3.0	0.4
"	Hodges, Paul	"	"	14.3(Chylous)	0.6
2/3/65	Watt, Robert	1+	1+	5.7 "	0.7

The blood serum specimens of Messrs. Hodges and Watt were chylous, and as a result, the thymol turbidity test is somewhat questionable. We would like to have additional specimens on these two individuals collected about mid March and sent to us. The collection of the specimens should follow the procedures I have indicated in my letter of today.

cc: Dr. H.D. Danuth
A. Vittone
W.W. Baughman

W.E. McCormick

WEM/js

25915001

BFG45244