

TO SEE DISTRIBUTION FIELD POINT OR DEPT. & BLDG. NO. DATE YOUR LETTER
FROM STEVE WILLIAMS FIELD POINT OR DEPT. & BLDG. NO. DATE THIS LETTER
ALTC - B/418 10/28/88
SUBJECT

MONITORING RESULTS ON VINYL CHLORIDE MONOMER (VCM) - B/414

SUMMARY

Twenty-two of twenty-four samples for VCM were below 0.5 ppm, the "Action Level." One sample was above 0.5 ppm, the "Action Level." One sample was over the 8 hour TLV of 1.0 ppm.

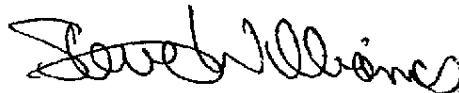
DISCUSSION

On September 13, 14, 15, 26, 27, and 28, 1988, twenty-four personal samples were taken in Building 414, the Mass Poly Area, the Hydrin Star-Rite Pilot Plant, the Latex Loop Reactor Area, the 55-Liter Area and the Dispersion Pilot Plant to measure the operators exposure levels to VCM.

The Vinyl Chloride OSHA Standard 1910.1017 states that the Permissible Exposure Limit for employees shall not be exposed to vinyl chloride at concentrations greater than 1 ppm averaged over an 8-hour period nor at concentrations greater than 5 ppm averaged over 15 minutes. Also, no employee may be exposed to vinyl chloride by direct contact with liquid vinyl chloride.

The sampling results were obtained by means of a Mini Monitor called a Reiszner Badge. The Reiszner Badge is two inches in diameter and a quarter inch thick. The badge weighs 35 grams and contains 1.35-gram loadings of the Reiszner activated coconut-based charcoal to collect the VCM. The badge is easily placed near the breathing zone without restricting the movements of the wearer.

The VCM analysis was performed in the Brecksville Department 8506 Lab. The attached data sheets show the results.



Steve Williams

SW:jm
(SW/24-88)

DISTRIBUTION:

T.S. Bialke
R.D. Hardesty
R.F. Kissling
E.J. Leeson
B.K. Mikofalvy

K.L. Gardner
J.C. Carr
D.J. Poledna
J. Bialko

A.E. Basile
M. Woods
M. Otterson
Process Foremen (1)

INDUSTRIAL HYGIENE LABORATORY REQUEST

Page 1 of 2 Page

PLANT LOCATION: **ATC 306**
 DATE: **9-13/1588**
 REPORT DISTRIBUTION:
 T.S. BIALKE
 P.M. ZAKRISKI

RESULTS REPORTED:
☐ mg/m³
☐ ppm
☐ ft³/min

ANALYSIS REQUIRED:
 0.25 ppm
 1.00

LECTOR: **S. E. Williams**
 ANALYST: **WCM**
 ANALYSIS REQUIRED:
 1. ☐ CHARTERED
 2. ☐ FILTER
 3. ☐ OTHER
 4. ☐ SAMPLE DESCRIPTION
 5. ☐ AREA

REDACTED

NGC 16953

854

ABID NO.	SAMPLE DESCRIPTION	TIME (MIN)	RESULTS	COMMENTS	DATE	APPROVAL	DATE
1	BAGGE NO. 1494	0718	< 0.25	K = .79 9-13-88	9-13-88		10/3/88
2	BAGGE NO. 1495	0718	< 0.25	K = .78 9-13-88	9-13-88		
3	BAGGE NO. 1487	0752	< 0.25	K = .75 9-13-88	9-13-88		
4	BAGGE NO. 1493	1600	< 0.25	K = 1.05 9-13-88	9-13-88		
5	BAGGE NO. 1499	2400	0.68	K = .84 9-14-88	9-14-88		
6	BAGGE NO. 1488	0715	< 0.25	K = .68 9-14-88	9-14-88		
7	BAGGE NO. 1491	0715	< 0.25	K = .83 9-14-88	9-14-88		
8	BAGGE NO. 1496	0800	< 0.25	K = .79 9-14-88	9-14-88		
9	BAGGE NO. 1480	0715	< 0.25	K = .68 9-14-88	9-14-88		
10	BAGGE NO. 1494	0718	< 0.25	K = .79 9-13-88	9-13-88		

INDUSTRIAL HYGIENE LABORATORY REQUEST

ANALYSIS REQUIRED		DETECT LIMIT	ANALYTICAL DESCRIPTION	PLANT LOCATION	DATE
1	NCM	0.25 PPM	1.00	ALTR	9-13-88
2		2.0 PPM			
3					
4					
5					

LAB ID NO	REPORT DISTRIBUTION	RESULTS
REDACTED	☒ MG ☒ UG	
	ITEM	
	FROM	
	BACK	
	TOTAL	
	RESULTS	

LAB ID NO	DATE REC'D	ANALYST	DATE

NGC 16954

INDUSTRIAL HYGIENE LABORATORY REQUEST

ANALYST: **S.S. Williams**

COLLECTOR: ☒ CHARCOAN TUBE ☐ FILTER

OTHER: **REISNER BADGE**

SAMPLE NO.

SAMPLE DESCRIPTION

☒ BZ AREA ☐ BULK

ANALYSIS REQUIRED

1 **NCM**

ANALYST'S INITIALS
DATE: 9-26-88

IDENTIFICATION
ALTC.

DEPT.
3266

DATE
9-26, 27, 28-88

REPORT DISTRIBUTION

T.S. BIALKE

P.M. ZAMRISKI

RESULTS OF ANALYSIS
☒ ppmv ☐ mg/m³
☐ mg/m³ ☐ mg/m³

☐ MG.

☐ JIG

☐

COMMENTS	TIME (MIN.)	RATE (L/M)	VOLUME (L)	ITEM NO.	FRONT	BACK	TOTAL	RESULTS
☒ BADGE NO. 1487 K=.75 9-26-88	0707 1412 425'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1488 K=.68 9-26-88	0707 1414 427'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1493 K=.76 9-26-88	1450 2215 445'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1491 K=.83 9-26-88	1450 2215 445'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1493 K=1.05 9-27-88	0100 0630 330'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1494 K=.79 9-27-88	0100 0630 330'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1495 K=.78 9-27, 28-88	2010 0712 662'							< 0.25
☐ VIAL # 288047								
☒ BADGE NO. 1496 K=.79 9-27, 28-88	0710 0710 662'							1.09
☐ VIAL # 388088								

REDACTED

NGC 16935

ANALYZED BY: **Paul J. A...**

DATE: **9-30-88**

APPROVED BY: **John H. Brown**

DATE: **10-3-88**

INDUSTRIAL HYGIENE LABORATORY REQUEST

Page 2 of 2 Pages

PLANT LOCATION **NR** DEPT. **3246** DATE **9-26-88**

LECTED BY **S E WILLIAMS**
 SAMPLE COLLECTOR ☒ CHARCOAL TUBE ☐ FILTER
 OTHER **REISSNER BADGE**

ANALYSIS REQUIRED		DETECT LIMIT	ANALYTICAL CORRECTION
1	TCM	0.25 PPM	1.00
2		2.0 PPM	
3			
4			
5			

REPORT DISTRIBUTION
 RESULTS REPORTED
☒ ppmv ☐ ppbv
☐ mg/m³ ☐ mg/m³

AB ID NO.	SAMPLE DESCRIPTION	BZ AREA BULK	COMMENTS	TIME (MIN.)	RATE LPM	VOLUME L	MG	µg	FRONT	BACK	TOTAL	RESULTS
		☒	BADGE NO. 1498	S	0704							< 0.25
		☐	K = .84 9-28-88	F	1411							
		☐	VIAL #388088		427							
		☒	BADGE NO. 1499	S	0704							< 0.25
		☐	K = .84 9-28-88	F	1411							
		☐	VIAL #388088		427							
		☒	BADGE NO. 1487	S	0710							< 0.25
		☐	K = .75 9-28-88	F	1413							
		☐	VIAL #388088		423							
		☒	BADGE NO. 1488	S	1450							< 0.25
		☐	K = .68 9-28-88	F	2155							
		☐	VIAL #388047		425							
		☒	BADGE NO. 1490	S	1450							< 0.25
		☐	K = .76 9-28-88	F	2155							
		☐	VIAL #388047		425							
		☐									< 2.0	-
		☐	VIAL #388047									
		☐									< 2.0	-
		☐	VIAL #388088									

REDACTED

NGC 16936

855 DATE REC'D 9-29-88 ANALYZED BY John H. Born DATE 9-30-88 APPROVED BY John H. Born DATE 10-3-88

RETENTION CODE 701-015