

B.F. GOODRICH CHEMICAL COMPANY MEETING REPORT

SUBJECT January Environmental Meeting		DATE 1/6/81
OUTSIDE ORGANIZATION INVOLVED		
MEETING PLACE		MEETING DATE 1/13/81
BFG PARTICIPANTS D. O'Keefe J. Moran A. Matyger C. McCann B. Prusinoski J. Kiel C. Battle R. Hollis J. Fletcher J. Smith D. Erbe C. Nosal W. Reed	OTHER PARTICIPANTS (NO DISTRIBUTION)	ADDITIONAL COPIES TO: C.T.F. J. Lewis/J. Fannin/R. Hall R. Harrison Environmental Committee File

RESULTS AND COMMITMENTS: PERSON RESPONSIBLE:

1. Reviewed OSHA attainment and personnel monitoring for December 1980. Only one VCl personnel monitoring result greater than 1 ppm in Mass Resin Department. Average personnel monitoring result in Mass Resin for 1980 is 0.44 ppm. Mass Building monitoring for December showed a slight increase in the average ambient VCl concentration. This may be associated with experimental production and non-repetitive maintenance items.

Average VCl personnel monitoring exposure in Pearl/Paste is 0.76 ppm for 1980. Building monitoring results for Pearl/Paste continue to show improvement.

Personnel monitoring for Acrylonitrile for regulated employees in the Latex Department show an average of 0.54 ppm for 1980.

Compound lead personnel monitoring results show 7 out of 10 samples below the 50 $\mu\text{g}/\text{m}^3$ standard.

2. Reviewed EPA-NESHAP attainment for December 1980. There were three instances of non-attainment for the month; 2 paste reactors were out of compliance on reactor opening loss and the paste stripping column was out of compliance for one day.
3. Summarized 1981 Environmental goals for the plant.
4. Discussed incinerator operational problems. More training in trouble shooting the unit is planned.

NGC 14873

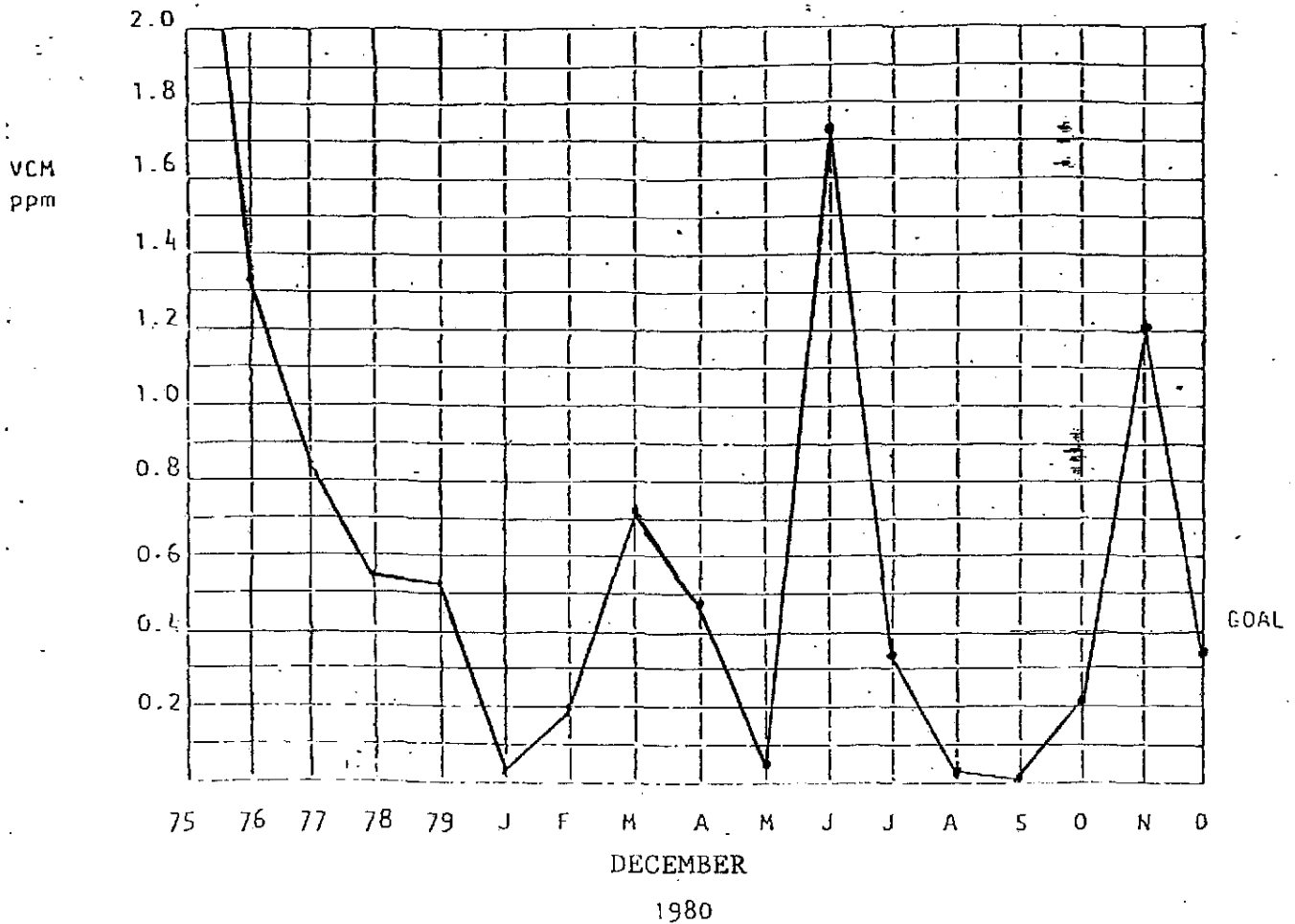
REPORTED BY

C.W. Battle/re

PERSONAL MONITORING RESULTS

VINYL CHLORIDE

MASS RESIN POLYMERIZATION - BLDG. 512

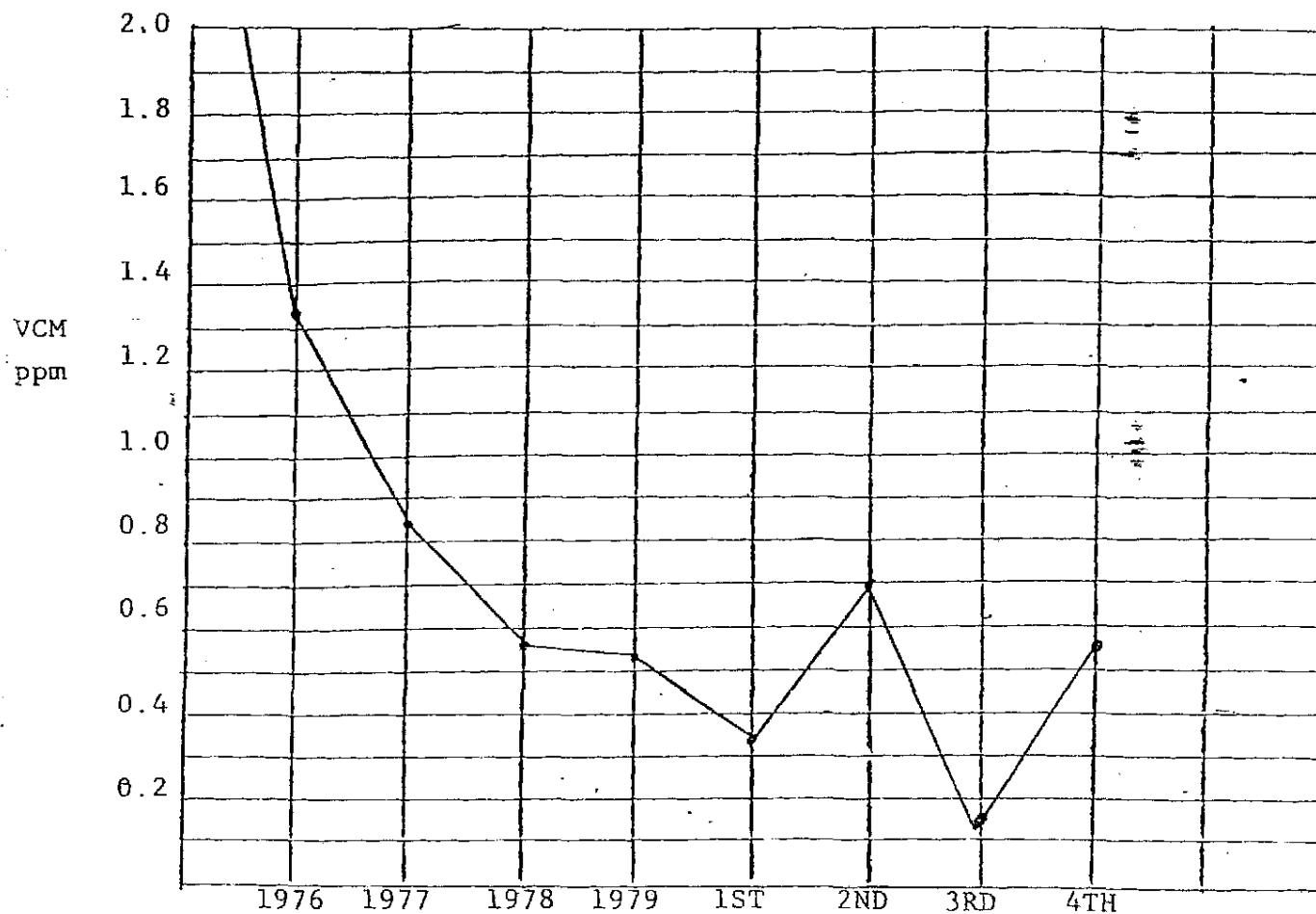


No. Samples	No.			Range ppm	Average ppm		% ≤ 1.0 ppm	
	No. ≤ 0.5	0.5 < No. ≤ 1.0	No. > 1.0		Month	YTD	Month	YTD
14	12	1	1	.00-1.34	.32	.44	92.9	91.8

12/12 1.34ppm - Unknown-Possibly Methyl Acrylate related - Respirator worn

NGC 14874

PERSONAL MONITORING RESULTS
VINYL CHLORIDE
MASS RESIN POLYMERIZATION - BLDG. 512

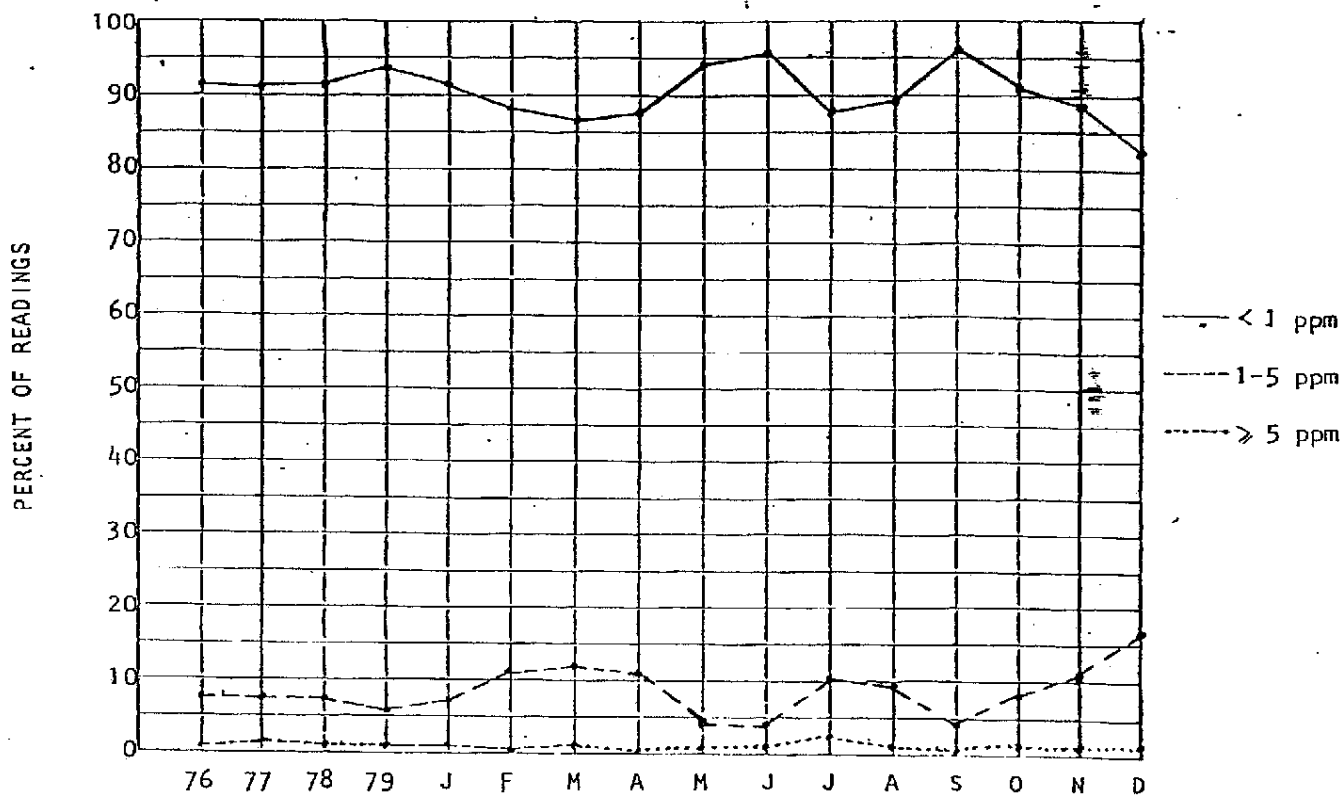


1980 (QUARTERLY)

QTR	NO. SAMPLES	NUMBER/AVERAGE			RANGE ppm	AVERAGE ppm		% ≤ 1.0 ppm	
		NO ≤ 0.5	0.5 < NO. ≤ 1.0	NO. > 1.0		QTR	YTD	QTR	YTD
1	36	29/0.10	5/0.78	2/2.86	.00-3.98	.34	.34	94.4	94.4
2	34	28/0.08	1/0.72	5/4.19	.00-8.46	.70	.52	85.3	90.0
3	35	33/.03	0	2/2.17	.00-3.11	.15	.40	94.3	91.4
4	42	36/.16	3.65	3.5.35	.00-12.85	.56	.44	92.9	91.8

NGC 14875

BUILDING MONITORING RESULTS
VINYL CHLORIDE
MASS RESIN POLYMERIZATION - BLDG 512



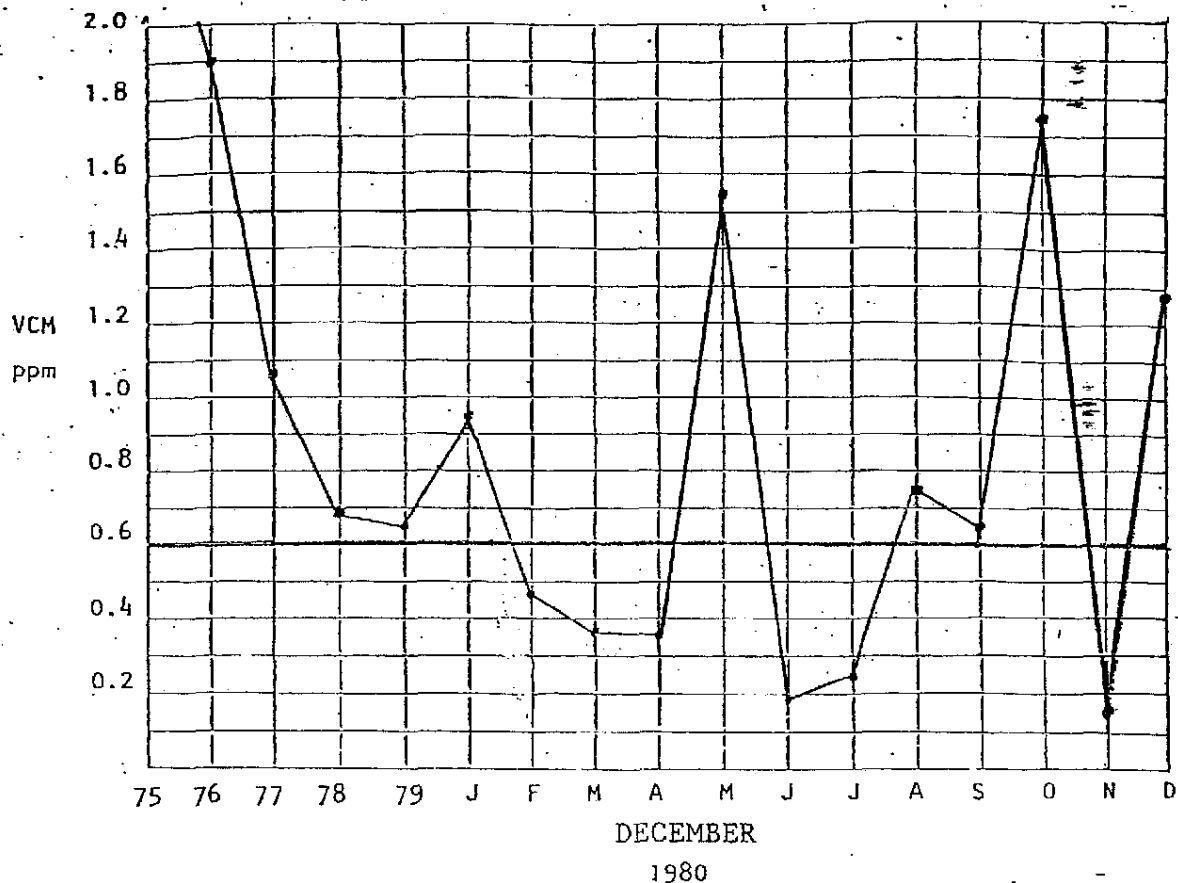
DECEMBER 1980

	MONTHLY AVERAGE	YEAR TO DATE	GOALS
< 1 ppm	82.54	89.87	95.00%
1- < 5 ppm	15.70	9.08	4.49%
5- < 100 ppm	1.72	1.00	0.50%
≥ 100 ppm	0.04	0.06	0.01%
* average ppm in building	0.90	0.73	

* Average ppm in building is calculated using the following assumptions:
Any point less than 1 ppm = 0.2 ppm, any point between 1 and 5 ppm =
2.0 ppm, any point between 5 and 100 ppm = 17 ppm, and any point greater
than 100 ppm = 330 ppm. These assumptions are based on actual levels
for a one week period.

NGC 14876

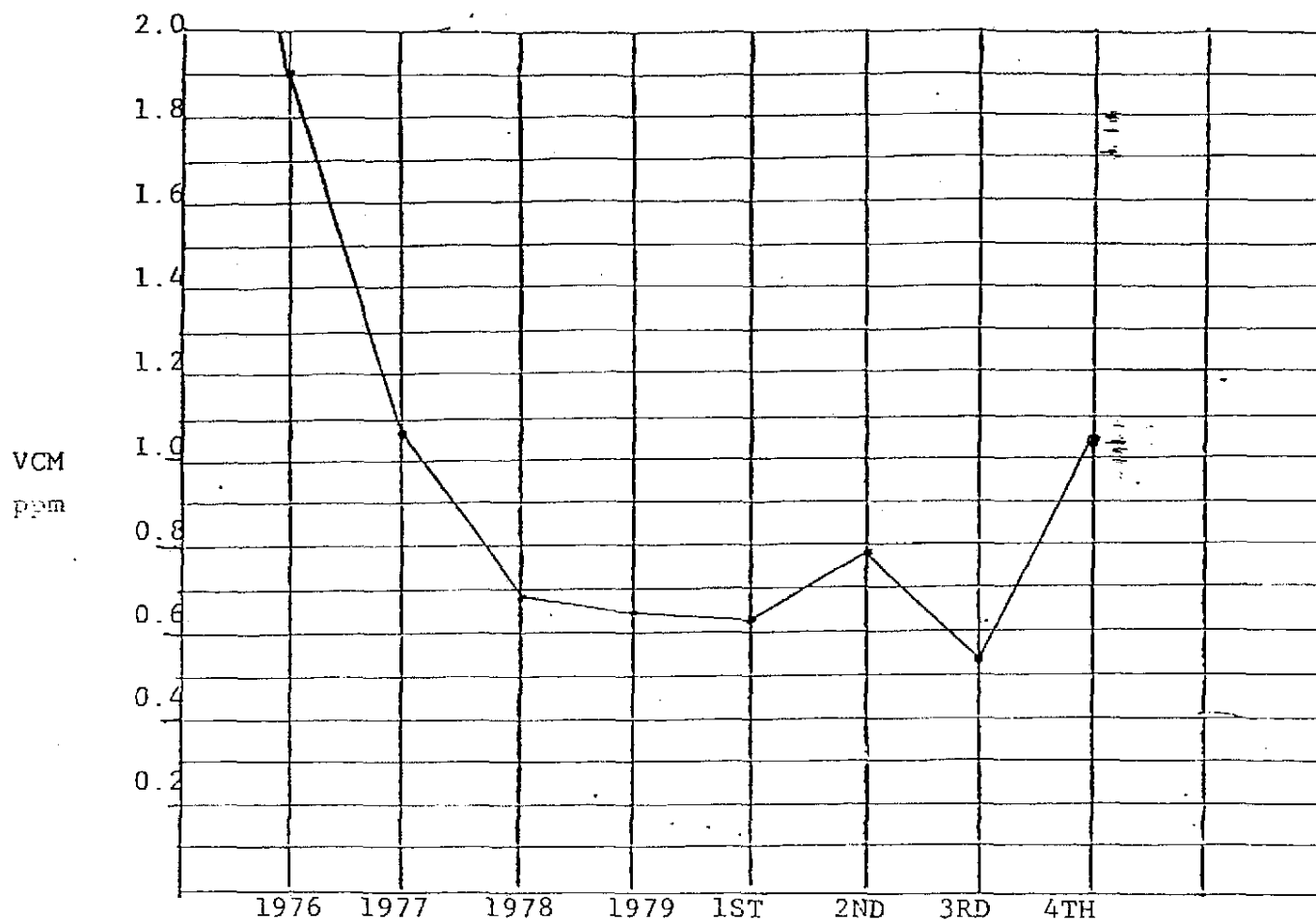
PERSONAL MONITORING RESULTS
VINYL CHLORIDE
SUSPENSION/DISPERSION POLYMERIZATION - BLDG. 513



No. Samples	No.≤0.5	0.5< No. ≤ 1.0	No. >1.0	Range ppm	Average ppm		% ≤ 1.0 ppm	
					Month	YTD	Month	YTD
21	10	3	8	.00-10.75	1.29	.76	61.9	83.4

12/1 2.00 ppm Blanked poly - respirator worn
 12/1 1.09 ppm Blanked poly - respirator worn
 12/1 2.03 ppm No reason given - respirator worn
 12/4 10.75 ppm Poly cleaning - respirator worn
 12/4 1.95 ppm Standby for poly entry - respirator worn
 12/12 1.55 ppm Wash out blowdown tank - respirator worn
 12/16 2.34 ppm Pull strainer - respirator worn
 12/22 2.21 ppm Pull strainer - respirator worn

PERSONAL MONITORING RESULTS
VINYL CHLORIDE
SUSPENSION/DISPERSION - POLYMERIZATION - BLDG. 513



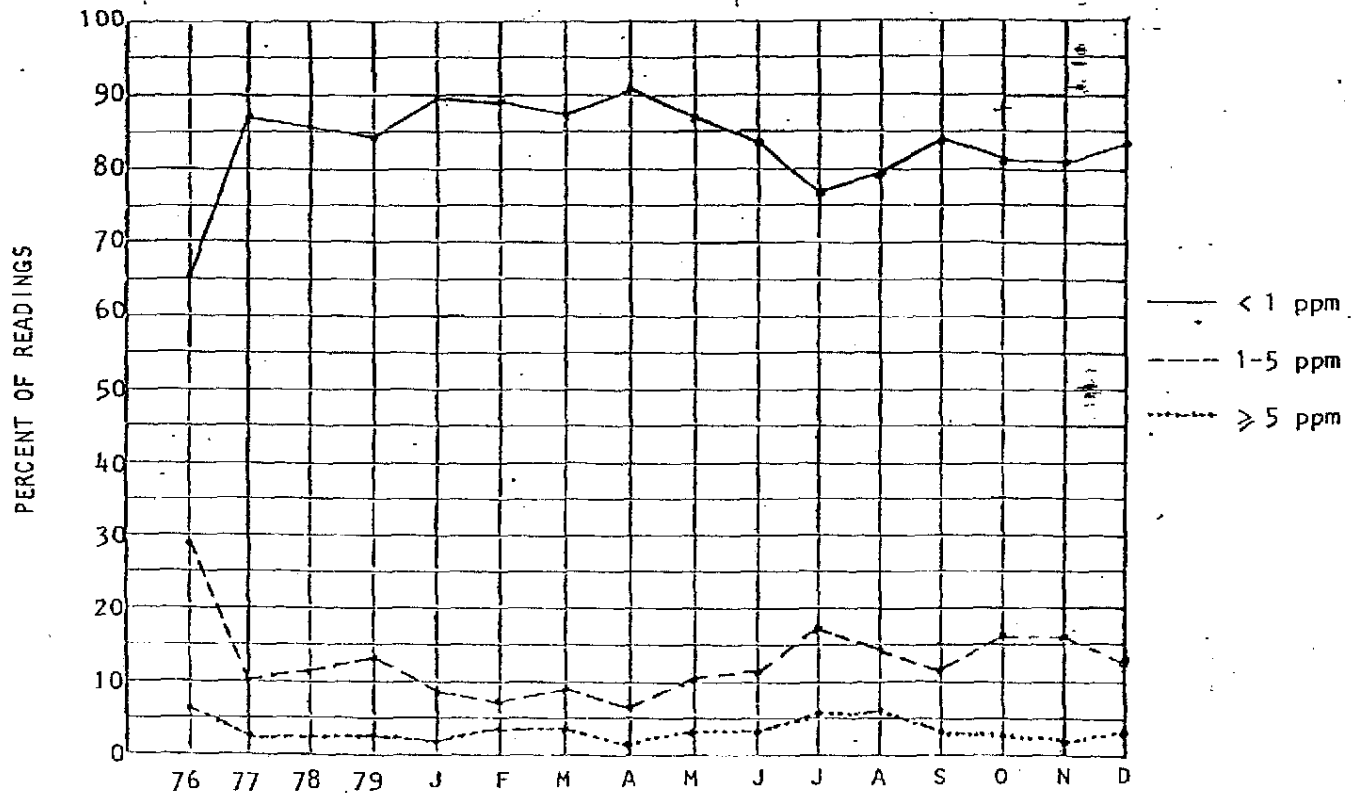
QTR	NO. SAMPLES	NO ≤ 0.5	NUMBER/AVERAGE		1980 (QUARTERLY)		Avg. ppm		% 1.0 ppm	
			0.5 < NO. ≤ 1.0	NO. > 1.0	RANGE ppm		QTR	YTD	QTR	YTD
1	54	47/0.08	7/0.66	11/2.90	.00-7.97		.62	.62	83.1	83.1
2	56	42/0.09	6/0.77	8/4.45	.00-11.12		.79	.70	85.7	84.3
3	64	55/.04	1/.52	8/3.95	.00-7.61		.54	.64	87.5	85.4
4	68	45/.10	8/.65	15/4.09	.03-14.84		1.05	.76	77.9	83.4

NGC 14878

BUILDING MONITORING RESULTS

VINYL CHLORIDE

SUSPENSION/DISPERSION POLYMERIZATION - BLDG 513



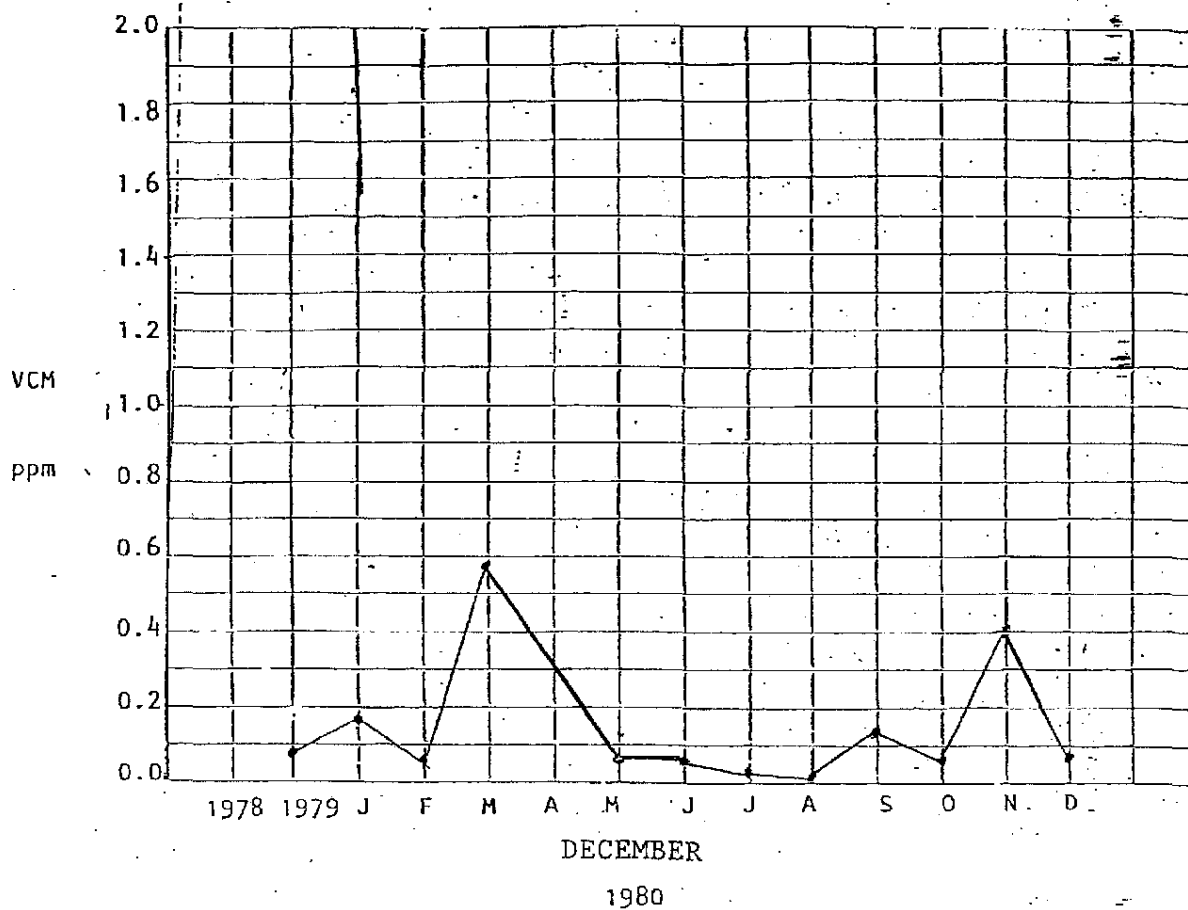
DECEMBER 1980

	MONTHLY AVERAGE	YEAR TO DATE	GOALS
< 1 ppm	83.66	84.22	90.00%
1-5 ppm	12.94	12.05	8.00%
5- < 100 ppm	3.11	3.43	1.90%
≥ 100 ppm	0.31	0.31	0.10%
average ppm in building	1.89	2.02	

PERSONAL MONITORING RESULTS

VINYL CHLORIDE

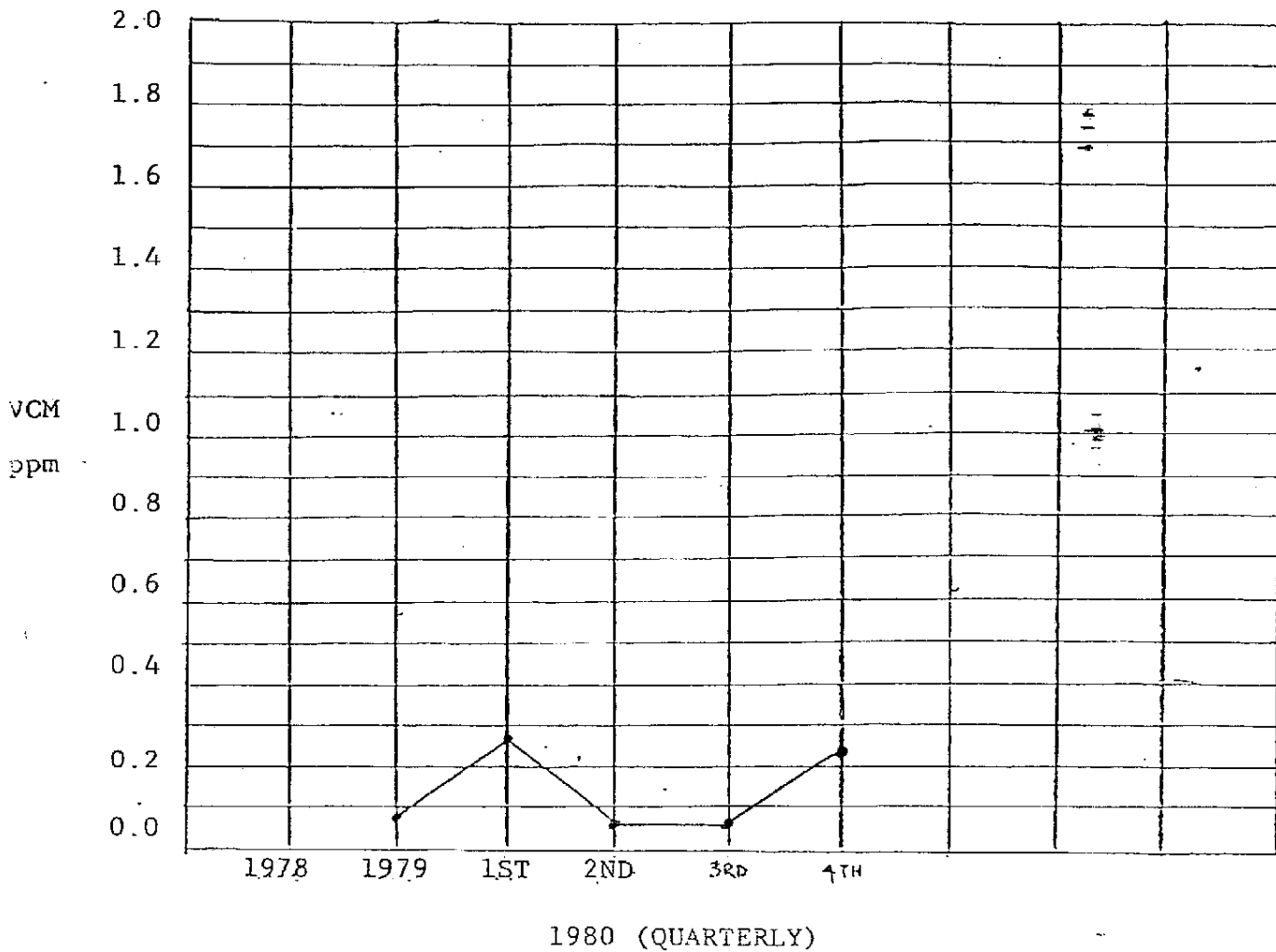
MAINTENANCE EMPLOYEES



NO. Samples				Range ppm	Average ppm		% ≤ 1.0 ppm	
	No. ≤ 0.5	0.5 < No. ≤ 1.0	No. > 1.0		Month	YTD	Month	YTD
9	9	0	0	.00-.47	.07	.16	100.0	96.0

NGC 14880

PERSONAL MONITORING RESULTS
VINYL CHLORIDE
MAINTENANCE EMPLOYEES



QTR	NO. SAMPLES	NO. ≤ 0.5	NUMBER/AVERAGE		RANGE ppm	AVG. ppm		% ≤ 1.0 ppm	
			$0.5 < \text{NO.} \leq 1.0$	$\text{NO.} > 1.0$		QTR	YTD	QTR	YTD
1	35	31/0.05	0	4/2.04	.00-2.60	.28	.28	88.6	88.6
2	37	36/0.05	1/0.52	0	.00-0.52	.06	.17	100.0	94.6
3	42	41/.03	0	1/1.72	.00-1.72	.07	.13	97.6	95.6
4	35	33/.08	1/.52	1/5.03	.00-5.03	.23	.16	97.1	96.0

NGC 14881

NON REGULATED AREA

VINYL CHLORIDE MONITORING - 4TH QUARTER

	<u>1980</u>			
<u>PERSONNEL MONITORING</u>	<u>NO. OF SAMPLES</u>	<u>RANGE</u>	<u>AVERAGE</u> ⁴ <u>ppm</u>	<u>AVERAGE YTD</u>
Dryer	15	.00-.24	.07	.05
Computer	16	.00-.21	.04	.03
New Professionals	10	.00-.29	.08	.08
Catalyst	2	.01-.16	.09	.14
Tank Farm	1	.01	.01	.08
Lab	0	-	-	.06
Safety	0	-	-	.01
Distribution Center	4	.01-.17	.08	.08

AREA MONITORING

Distribution	18	.00-.26	.06	.65
Fenceline	8	.0030-.0805	.0368	.0229
Landfill	8	.0000-.0860	.0016	.0073
Compound	2	.04-.05	.05	.07
Warehouse	2	.01-.02	.02	.07
Latex	2	.01	.01	.01
Maintenance	2	.01-.02	.02	.05
Boiler	1	.00	.00	.01
Lab	1	.02	.02	.08
Personnel	0	-	-	.00
Administration	0	-	-	.01
Waste Treatment	1	.05	.05	.03

EPA - NESHP VCI ATTAINMENT

<u>REACTOR OPENING</u>	<u>DECEMBER 1980</u>	<u>SEMI-ANNUAL REPORT TO DATE</u>	<u>2/1/80- 7/31/80</u>
<u>PEARL</u>			
NO. REACTORS OPENED	56	199	215
NO. NON-ATTAINMENTS	0	0	0
% ATTAINMENT	100%	100%	100%
<u>PASTE</u>			
NO. REACTORS OPENED	135	778	828
NO. NON-ATTAINMENTS	2	4	0
% ATTAINMENT	98.5%	99.5%	100%
<u>MASS</u>			
NO. REACTORS OPENED	229	1048	1302
NO. NON-ATTAINMENTS	0	0	0
% ATTAINMENT	100%	100%	100%
<u>RESIN STRIPPING</u>			
PEARL - % ATTAINMENT	100%	100%	100%
PASTE - % ATTAINMENT	96.2%	98.7%	100%
MASS - % ATTAINMENT	100%	100%	100%
<u>VENT GAS ABSORBER</u>			
% ATTAINMENT	100%	99.9%	99.4%
HOURS OUT OF COMPLIANCE	0	1	25
<u>WASTEWATER STRIPPER</u>			
% ATTAINMENT	100%	100%	100%
<u>UNUSUAL RELEASES</u>			
NO. EPA REPORTABLE	0	0	3

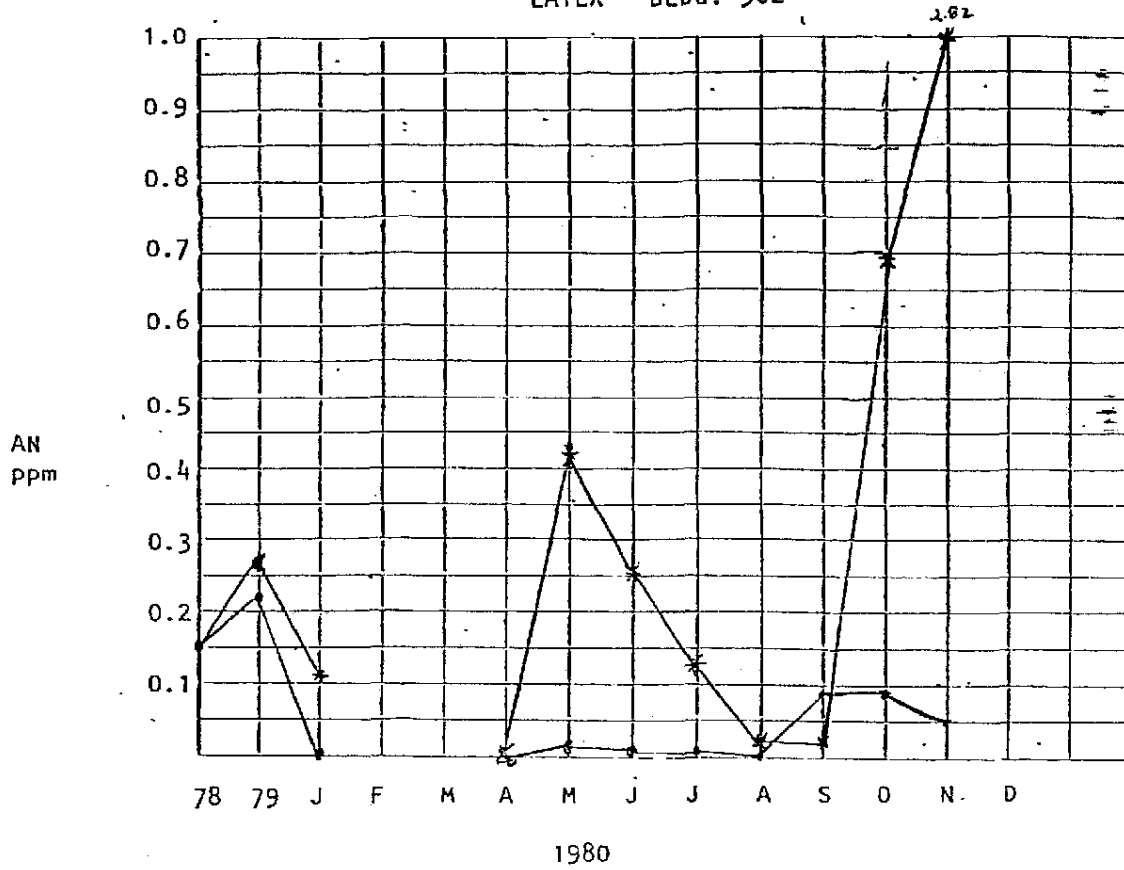
CWB/re

NGC 14883

PERSONNEL MONITORING RESULTS

ACRYLONITRILE

LATEX - BLDG. 502



NO.							
SAMPLES	NO ≤ 1.0	1.0 < NO ≤ 2.0	NO > 2.0	Range ppm	Average Month	ppm YTD	YTD % ≤ 1.0 ppm

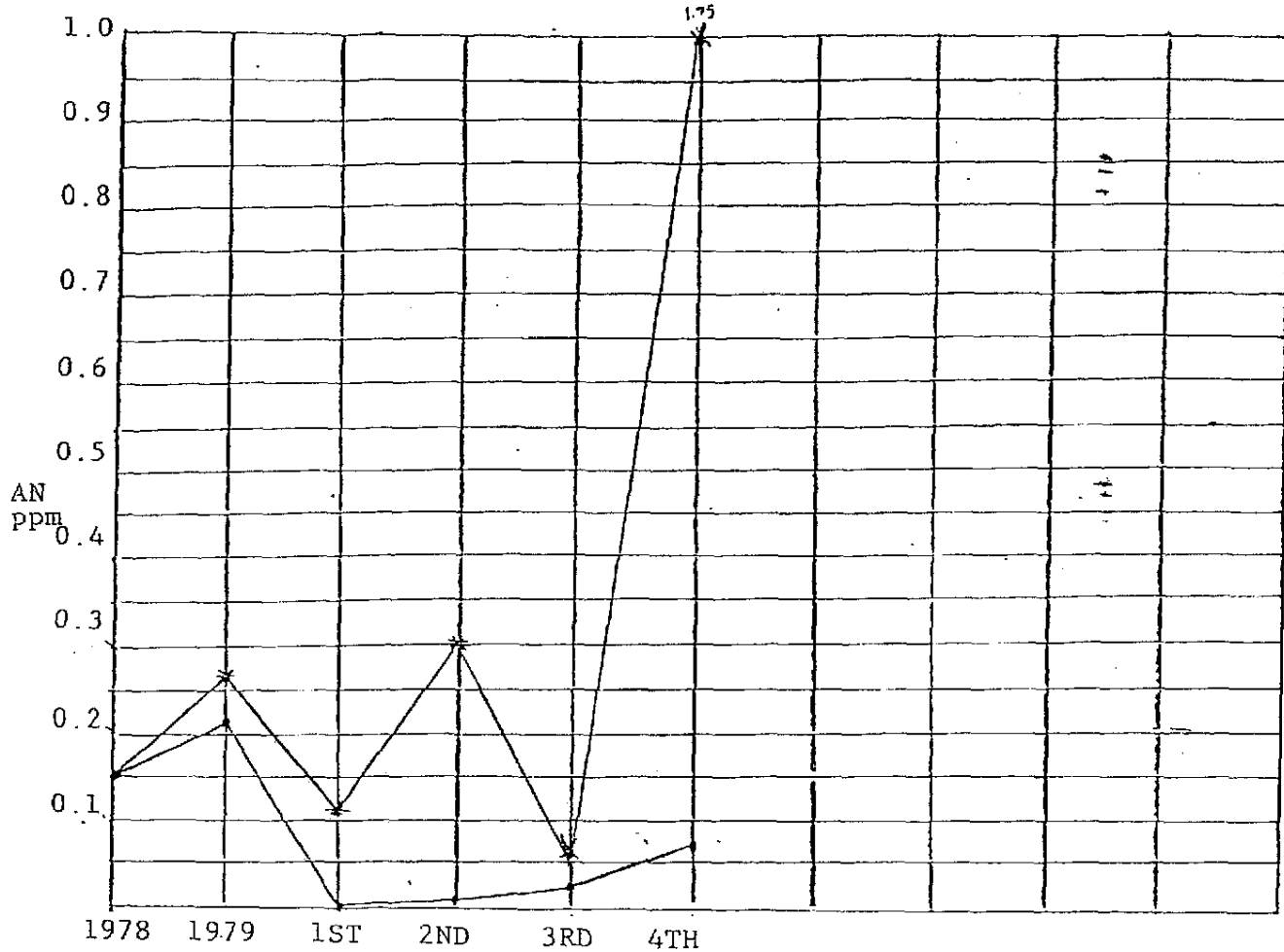
*REG

O NON-REG

NGC 14884

PERSONAL MONITORING RESULTS

ACRYLONITRILE
LATEX BLDG. - 502



1980 (QUARTERLY)

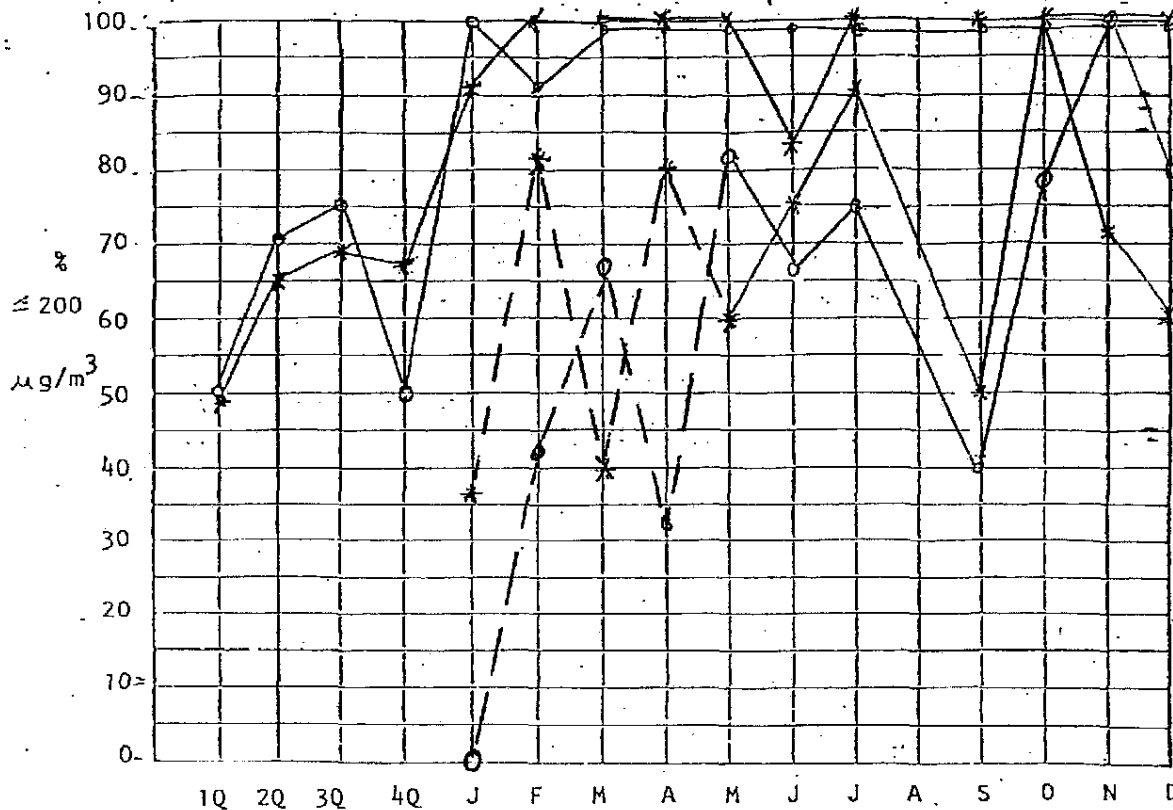
QTR	NO. SAMPLES	NUMBER/AVERAGE			RANGE ppm	AVERAGE ppm		$\frac{1}{2} \leq 1.0$ ppm	
		NO < 1.0	1.0 <= NO <= 2.0	NO > 2.0		QTR	YTD	QTR	YTD
1	4	4/0.11	0	0	.00-.44	.11	.11	100.0	100.0
2	7	6/0.15	1/1.22	0	.00-1.22	.30	.26	85.7	90.9
3	3	3/.06	0	0	.02-.13	.06	.19	100.0	92.9
4	4	2/.13	1/1.28	1/5.47	.09-5.47	1.75	.54	50.0	83.3
1	4	4/00	0	0	.00-.00	.00	.00	100.0	100.0
2	12	12/0.01	0	0	.00-.12	.01	.01	100.0	100.0
3	10	10/.03	0	0	.00-.13	.03	.02	100.0	100.0
4	6	6/.07	0	0	.00-.09	.07	.03	100.0	100.0

NGC 14885

PERSONNEL MONITORING RESULTS

LEAD

COMPOUNDING - BLDG. 541



1979

1980

	No. of Samples	<50 $\frac{\mu g}{m^3}$	50-200	>200 $\frac{\mu g}{m^3}$	% < 50 M YTD	% < 200 M YTD
* Weighman	5	3	2	0	60	72.1
O Mixer	5	4	1	0	80	50.5

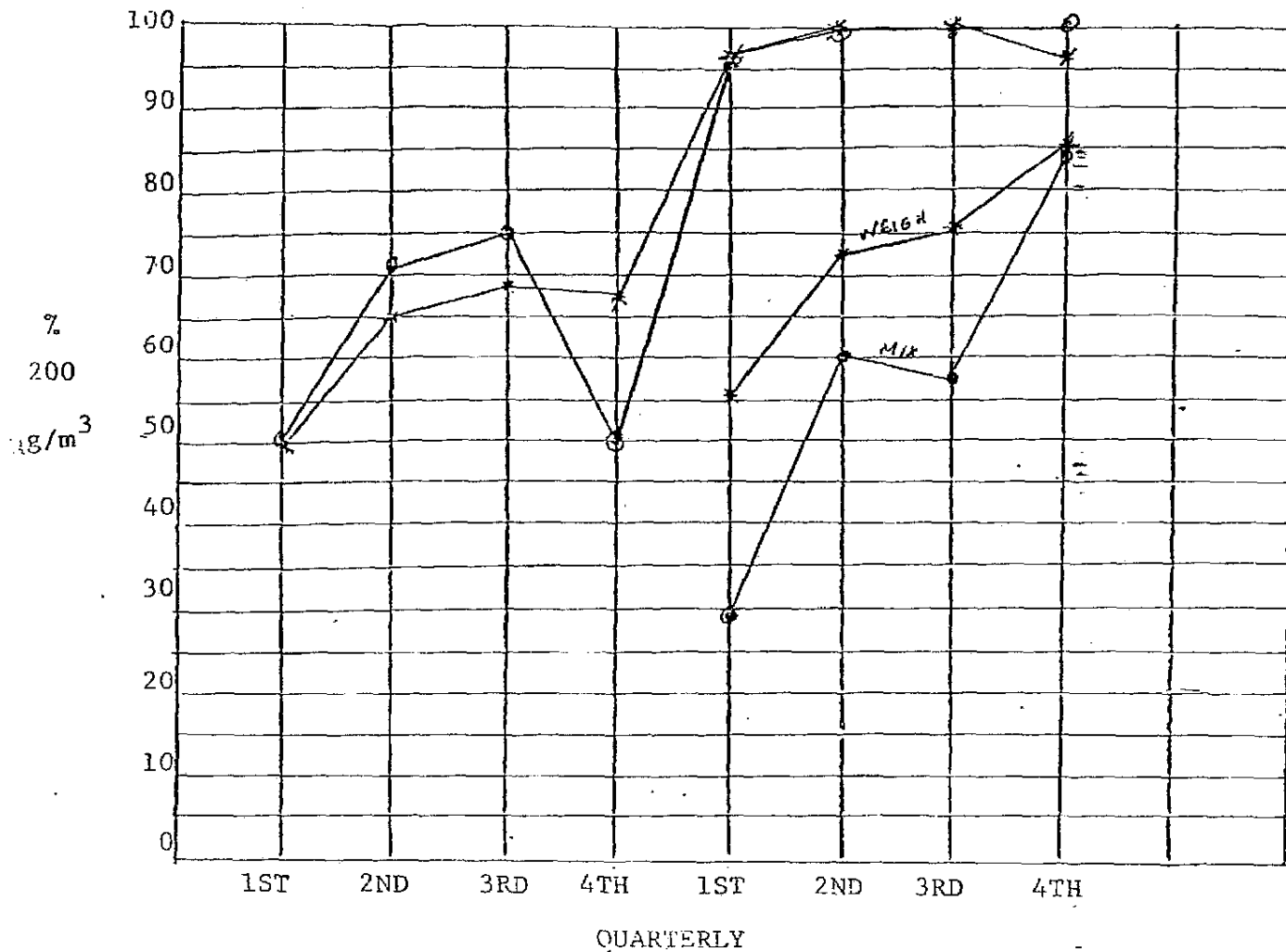
12/12 Mixer 150.36 $\mu g/m^3$
 12/12 Weighman 134.75 $\mu g/m^3$
 12/22 Weighman 167.83 $\mu g/m^3$

NGC 14886

PERSONAL MONITORING RESULTS

LEAD

COMPOUNDING - BLDG. 541



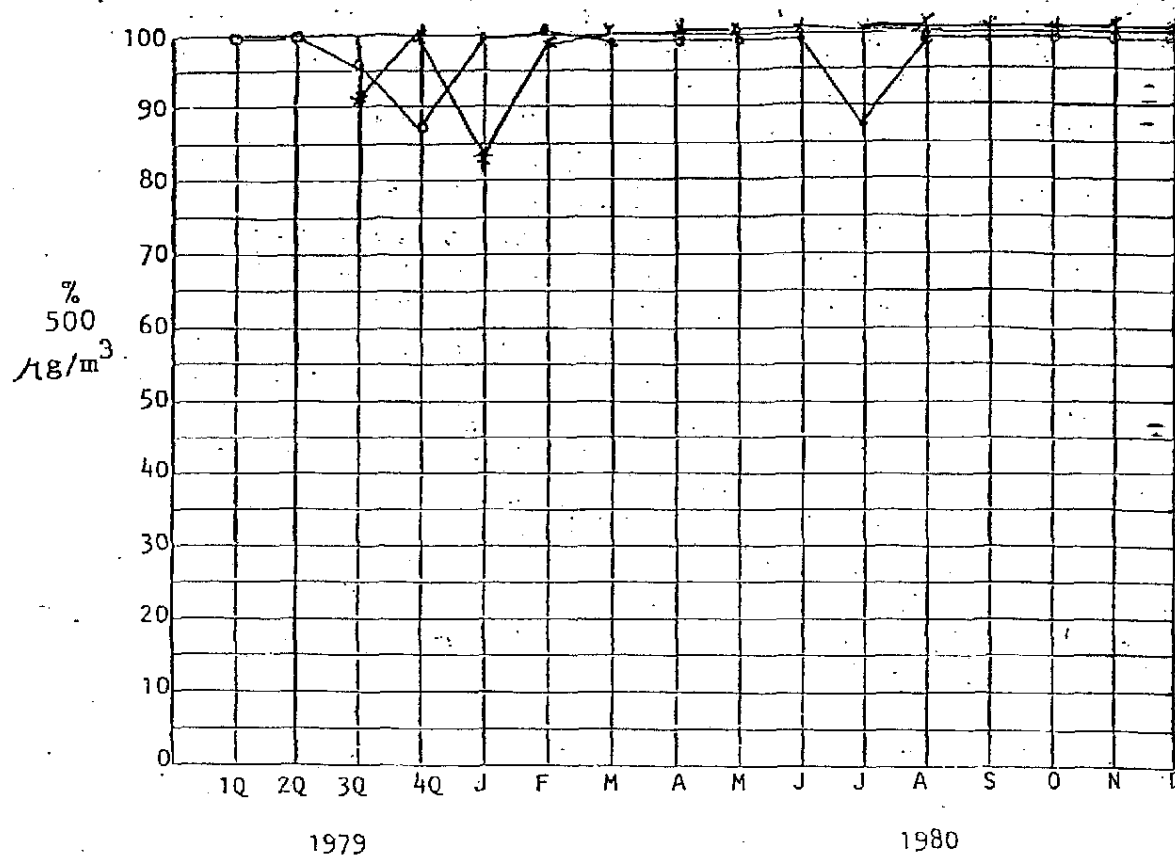
		1979				1980			
		NUMBER/AVERAGE							
QTR	NO. OF SAMPLES	< 50 $\frac{\mu g}{m^3}$	50-200	200 $\frac{\mu g}{m^3}$	% < 50 Q	% < 50 YTD	% < 200 Q	% < 200 YTD	
EIGH-MAN	1	27	15/21	11/121	1/337	55.6	55.6	96.3	96.3
	2	15	11/13	4/108	0	73.3	61.9	100.0	97.6
	3	17	13/13	4/125	0	76.5	66.1	100.0	98.3
	4	27	23/16	3/118	1/229	85.1	72.1	96.3	97.7
MIXER	1	27	18/17	18/110	1/300	29.6	29.6	96.3	96.3
	2	15	9/34	6/82	0	60.0	40.5	100.0	97.6
	3	13	8/26	5/87	0	57.1	45.5	100.0	98.5
	4	27	23/20	4/86	0	85.1	58.5	100.0	98.8

NGC 14887

PERSONNEL MONITORING RESULTS

ANTIMONY

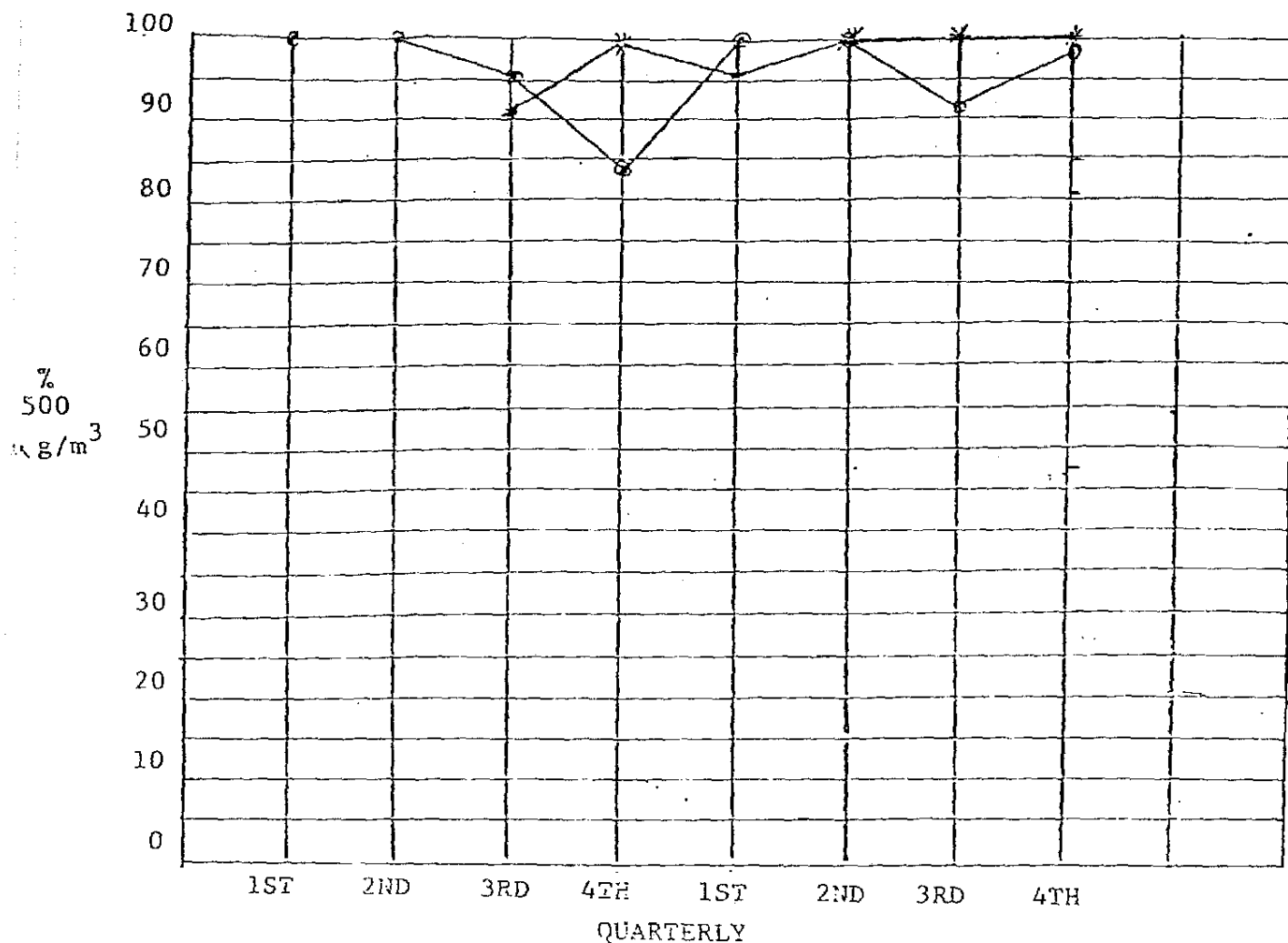
COMPOUNDING - BLDG. 541



	NO. SAMPLES	$\leq 500 \mu\text{g}/\text{m}^3$	$> 500 \mu\text{g}/\text{m}^3$	Month%	YTD
* WEIGHMAN	5	5	0	100	98.8
O MIXER	5	5	0	100	98.6

NGC 14888

PERSONAL MONITORING
ANTIMONY
COMPOUNDING - BLDG. 541

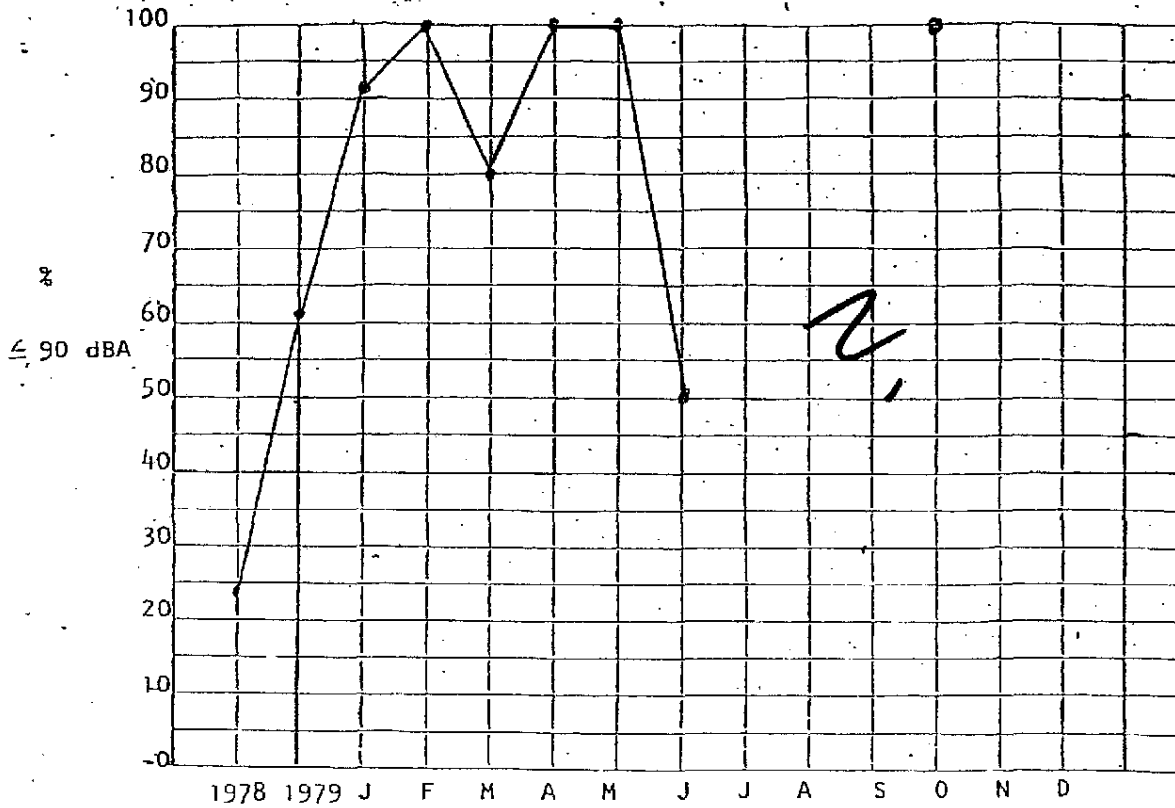


		1979		1980			
		QTR	NO. SAMPLES	NUMBER/AVERAGE		% ≤ 500	YTD
				$\leq 500 \mu\text{g}/\text{m}^3$	$\geq 500 \mu\text{g}/\text{m}^3$		
FEIGMAN	*	1	21	20/84	1/654	95.2	95.2
		2	15	15/50	0	100.0	97.1
		3	17	17/63	0	100.0	98.1
		4	27	27/61	0	100.0	98.1
MIXER	O	1	17	17/70	0	100.0	100.0
		2	15	15/107	0	100.0	100.0
		3	13	12/42	1/501	92.3	97.3
		4	27	27/35	0	100.0	98.1

PERSONNEL MONITORING RESULTS

NOISE

9" MILL OPERATOR - COMPOUND



1980

NO. SAMPLES

≤ 90 dBA

> 90 dBA

% $\leq$ dBA

MONTH

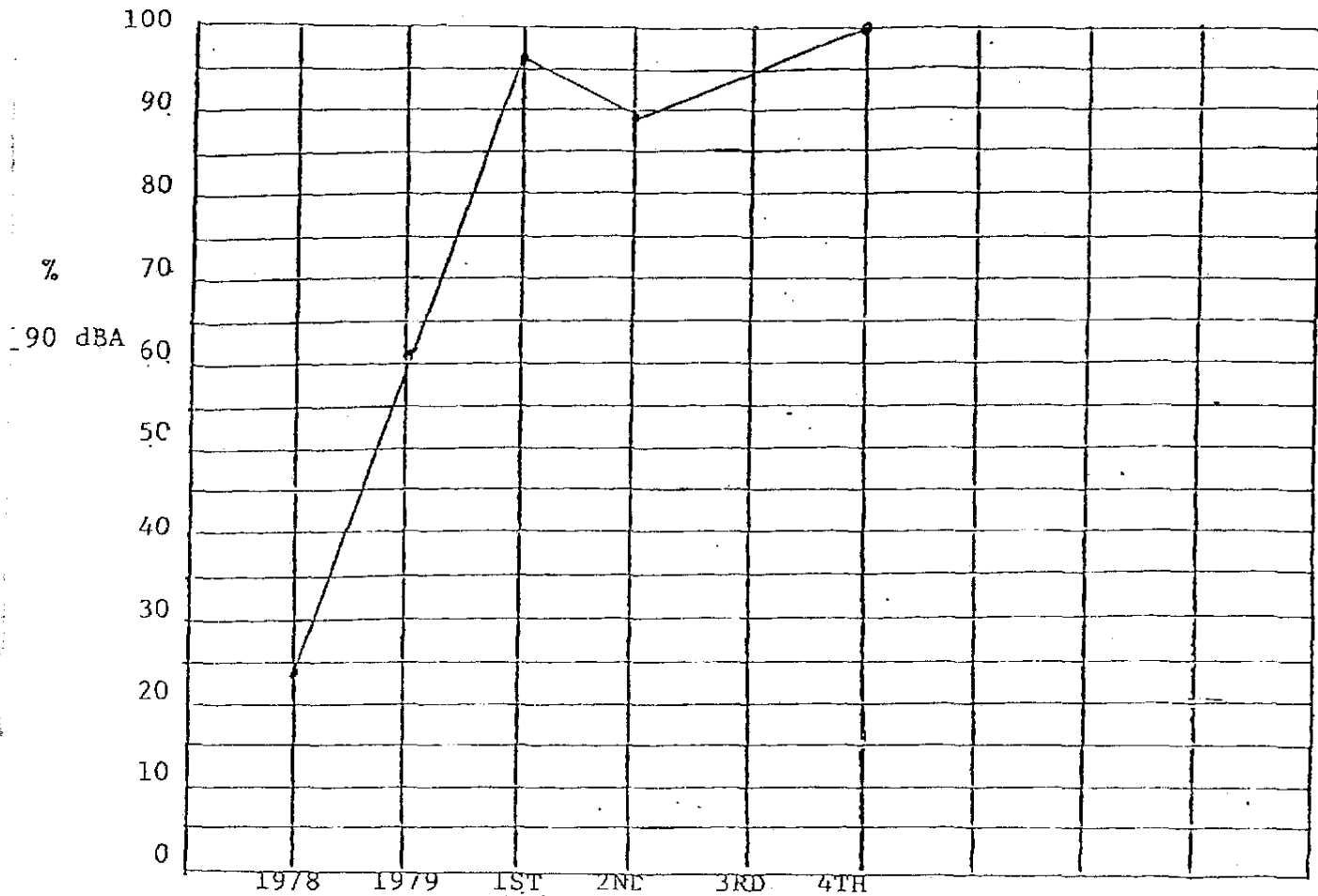
YEAR

NGC 14890

PERSONAL MONITORING RESULTS

NOISE

9" MILL OPERATOR - COMPOUND



1980 (QUARTERLY)

QTR	NO. SAMPLES	# ≤ 90 dBA	# > 90 dBA	% ≤ dBA QTR	YEAR
1	56	54	2	96.4	96.4
2	5	4	1	80.0	95.1
3	2, 0	0	0	-	-
4	7	7	0	100.0	95.6

NGC 14891