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December 23, 1981  
LL2-81-0291

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U.S. NUCLEAR REGULATORY COMMISSION

TMI Program Office  
Attn: Mr. L. H. Barrett, Deputy Program Director  
U. S. Nuclear Regulatory Commission  
c/o Three Mile Island Nuclear Station  
Middletown, Pennsylvania 17057

Dear Sir:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)  
Operating License No. DPR-73  
Docket No. 50-320  
Containment Integrity Assessment Program

This is the seventh periodic report presenting results of our ongoing efforts to detect potential radioactive water leakage from the Containment Building. The status of the various portions of this program are discussed below.

Groundwater Monitoring

The following groundwater monitoring data is attached:

1. Individual computer graphs (Figure 1) of tritium concentrations for each monitoring station and the East Dike Catch Basin (EDCB) up to and including October 7, 1981. In order to make the graphic sections of the report more legible we have included only the 1981 data on tritium concentrations and water levels.
2. Individual computer graphs (Figure 2) indicating water levels within the monitoring stations up to and including October 7, 1981.
3. Computer tables (Tables 1 and 2) of gamma scan data up to and including November 4, 1981 for MW-2 (results for all other wells are through October 7, 1981).
4. A graph indicating gamma scan data from Monitoring Station MW-2 (Figure 3).
5. A composite drawing showing all monitoring locations with a graph of the tritium concentrations for each station.

Tritium concentrations for the reporting period of September 2, 1981 to October 7, 1981 remained within the range of values seen in previous samples. No sample was obtained from OW-10 on October 7, 1981 due to lack of sufficient water in the well.

Gamma results from all well samples (except MW-2) obtained on October 7, 1981 were less than LLD. The expedited MW-2 sample of November 4, 1981 showed a Cs-137 concentration of  $35 \pm 9.1$  pCi/l. No Cs-134 was detected in the sample. We have requested that the sample be reanalyzed. The results of this reanalysis will be reported in the next Containment Integrity Assessment Program Report. In addition, reanalysis of the October 7, 1981 MW-2 sample confirmed the Cs-137 and Cs-134 concentrations indicated in the last report.

Over the course of the last months, we have made three attempts to unblock OW-9. All of these attempts proved unsuccessful. However, we believe that the number of monitoring wells in the area of the BWST is sufficient and that the loss of OW-9 does not significantly affect our monitoring capability. We have, therefore, continued the monitoring program minus OW-9.

Also, the increase in ground water tritium levels that occurred in the vicinity of MW-4 over March and April of this year was investigated. The source of this increase was not discerned. Underground storm drain piping connects the BWST area to that surrounding MW-4, but there was not enough evidence to establish this possibility as the cause.

#### Cork Seal, Tendon Access Gallery and Containment Outer Wall Radiation Monitoring

Continued surveillance of the tendon gallery, cork seal and outer wall have shown no indication of containment leakage or significant changes.

#### Reactor Building Sump Water Level

Figure 4 presents sump level data for the period January 1, 1980 through November 22, 1981. Sump level measurements continue to correspond to predicted levels within the accuracy of the measuring technique. SDS processing continues to decrease the sump level.

Sincerely,

J. J. Barton  
Acting Director, TMI-2

JJB:JJB:djb

Attachments

cc: Dr. B. J. Snyder, Program Director, TMI Program Office

LIST OF ATTACHMENTS

- Figure 1      Graphs of Tritium Concentrations of Monitoring Station and East Dike Catch Basin samples versus Time (1981).
- Figure 2      Graphs of Water Levels in Monitoring Stations versus Time (1981).
- Figure 3      Gamma Scan Results for Monitoring Station MW-2 versus Time.
- Figure 4      TMI Unit II Reactor Building Sump Level.
- Table 1       Cesium-137 Concentrations of Monitoring Stations MW-1 to MW-8.
- Table 2       Cesium-134 Concentrations of Monitoring Stations MW-1 to MW-8.
- Drawing       \*Groundwater Tritium Concentrations at Site Liquid Monitoring Stations\*.

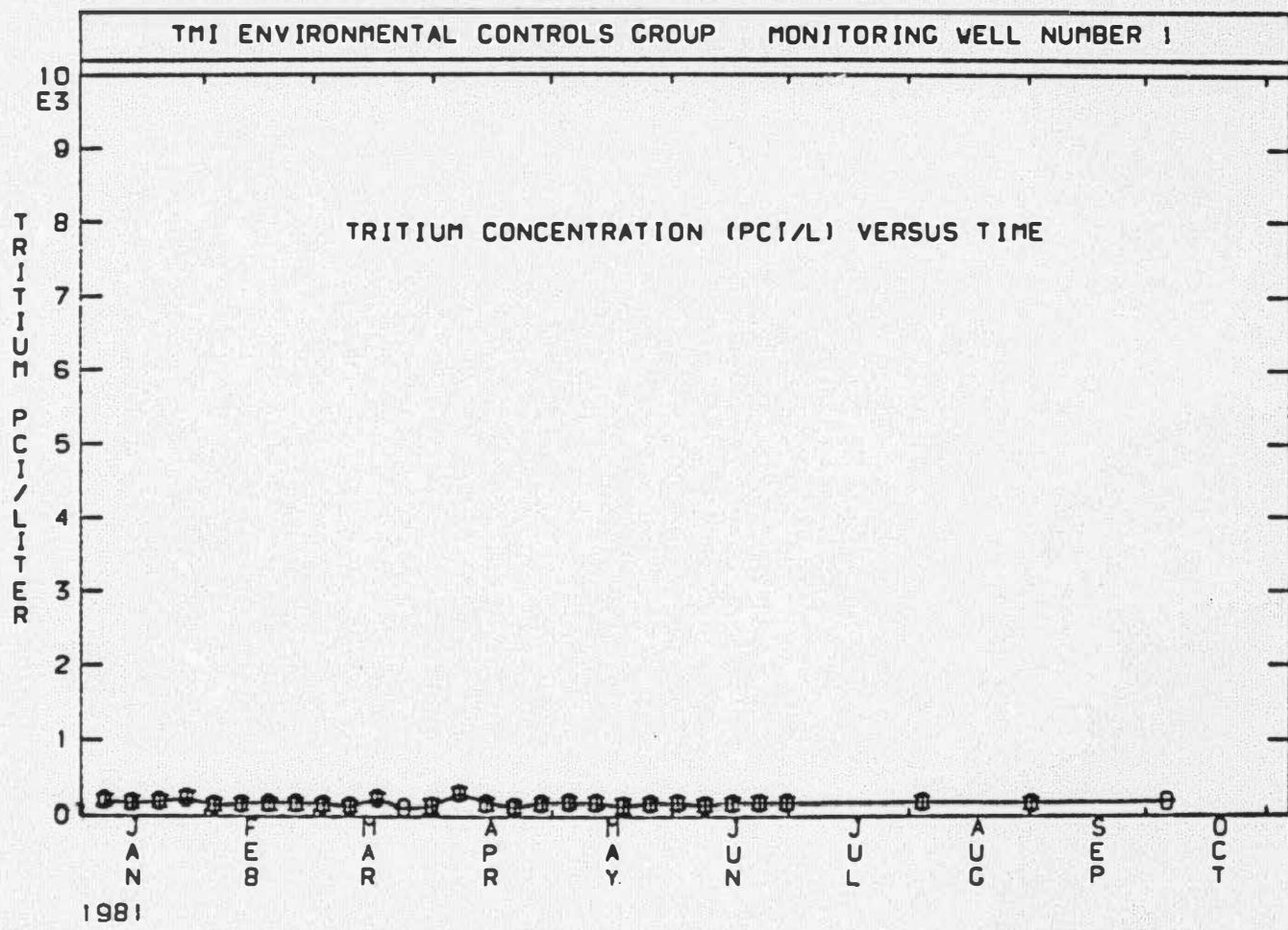


FIGURE 1, PAGE 1

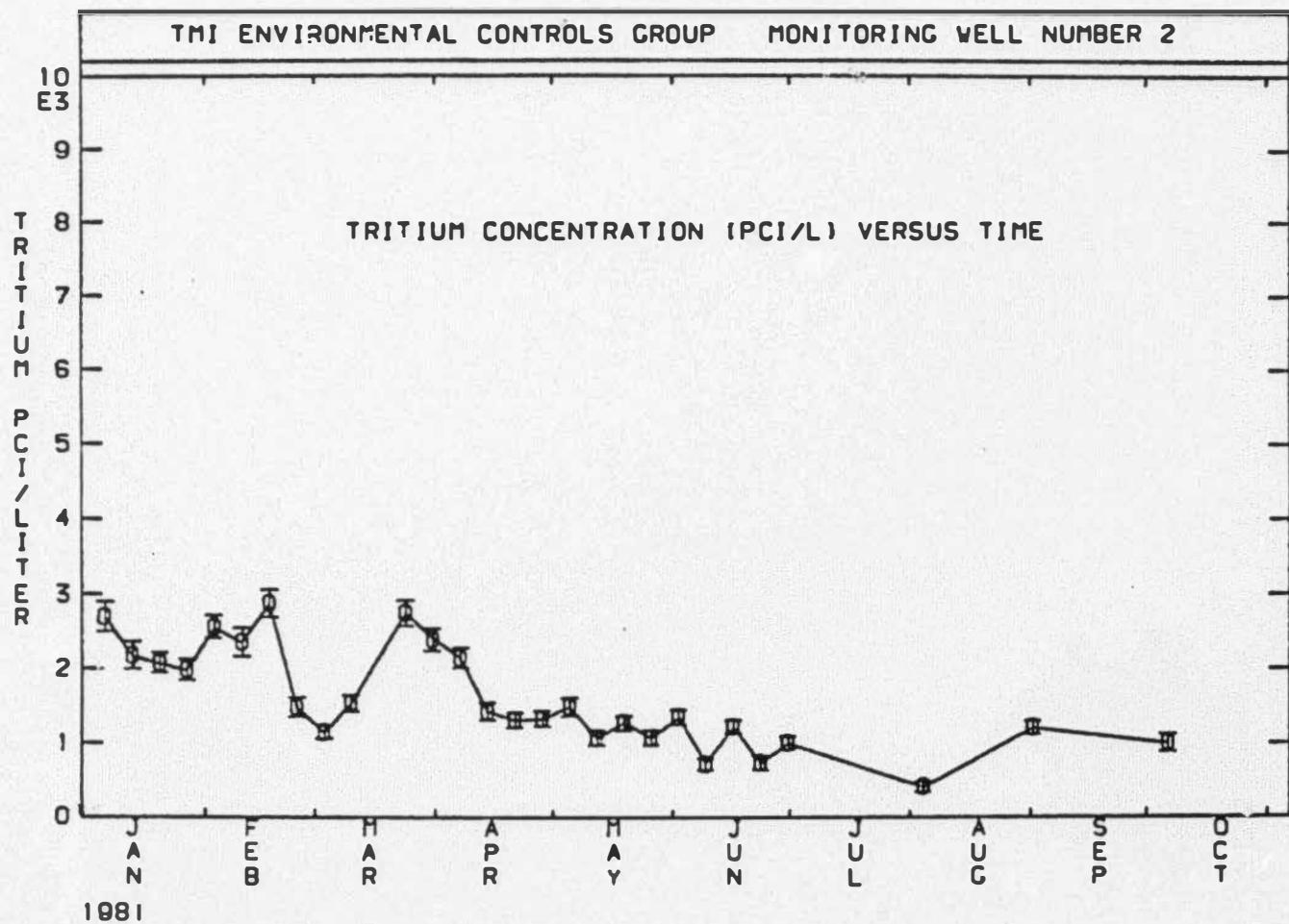


FIGURE 1, PAGE 2

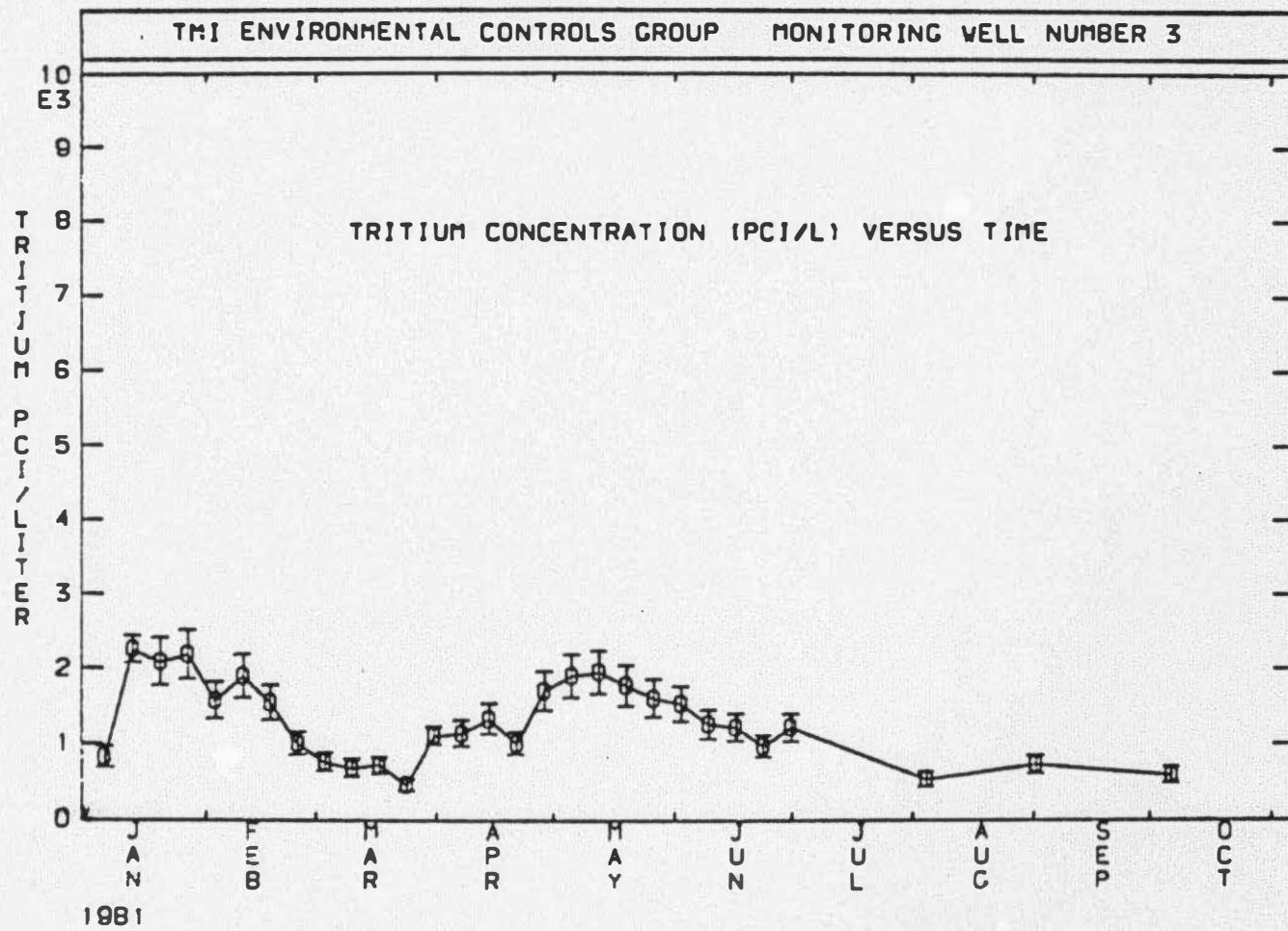


FIGURE 1, PAGE 3

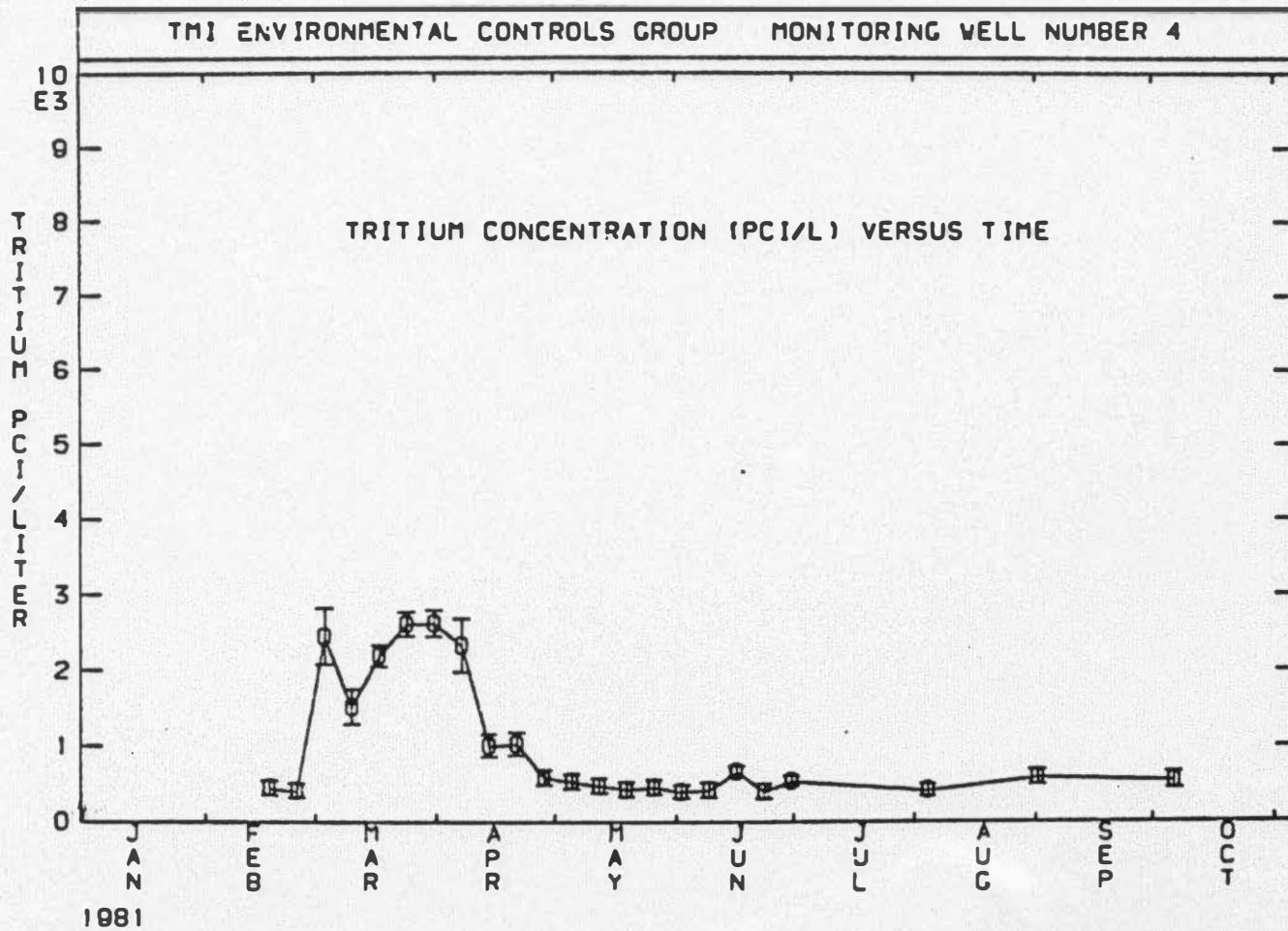


FIGURE 1. PAGE 4

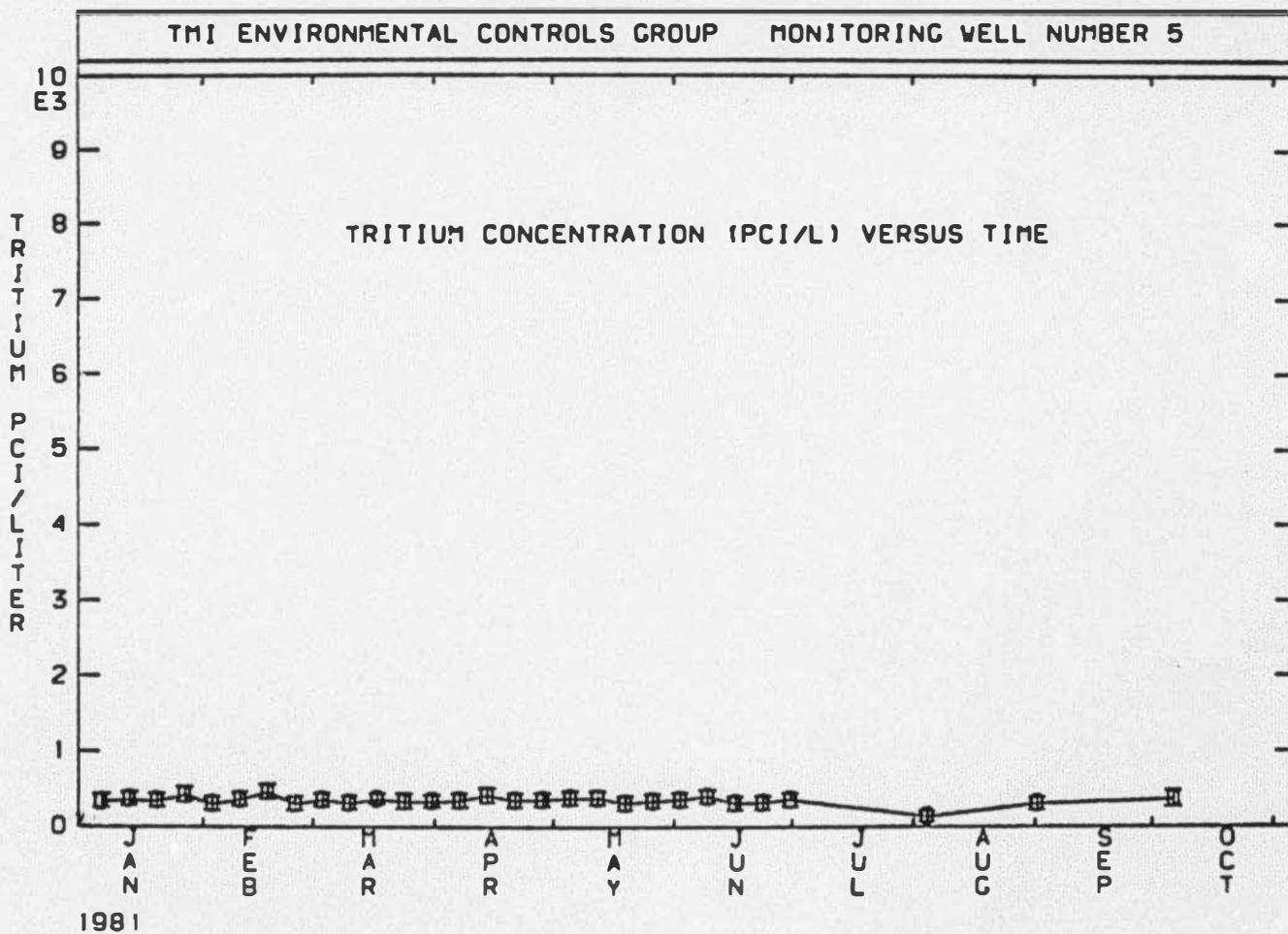


FIGURE 1, PAGE 5

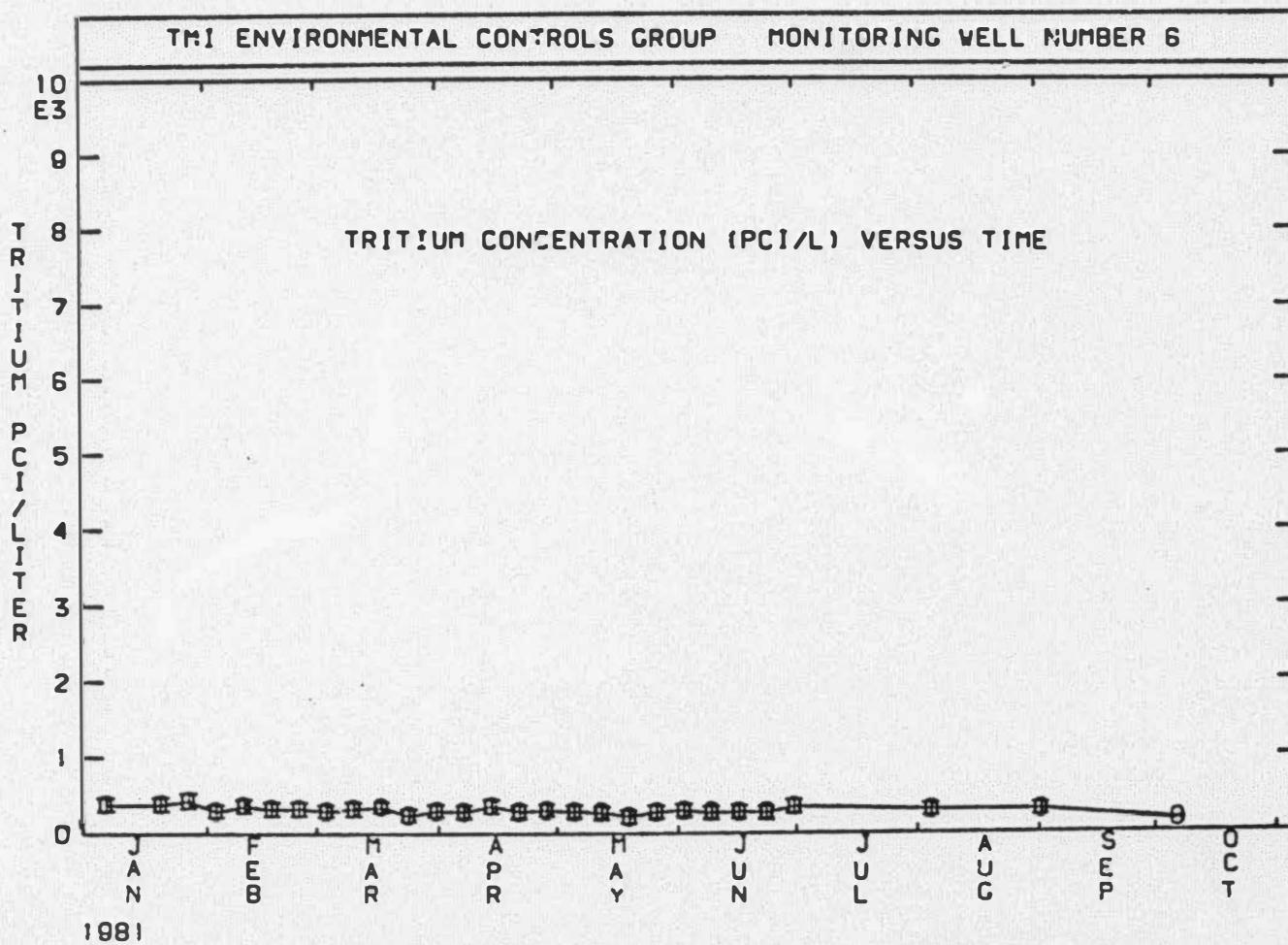


FIGURE 1, PAGE 6

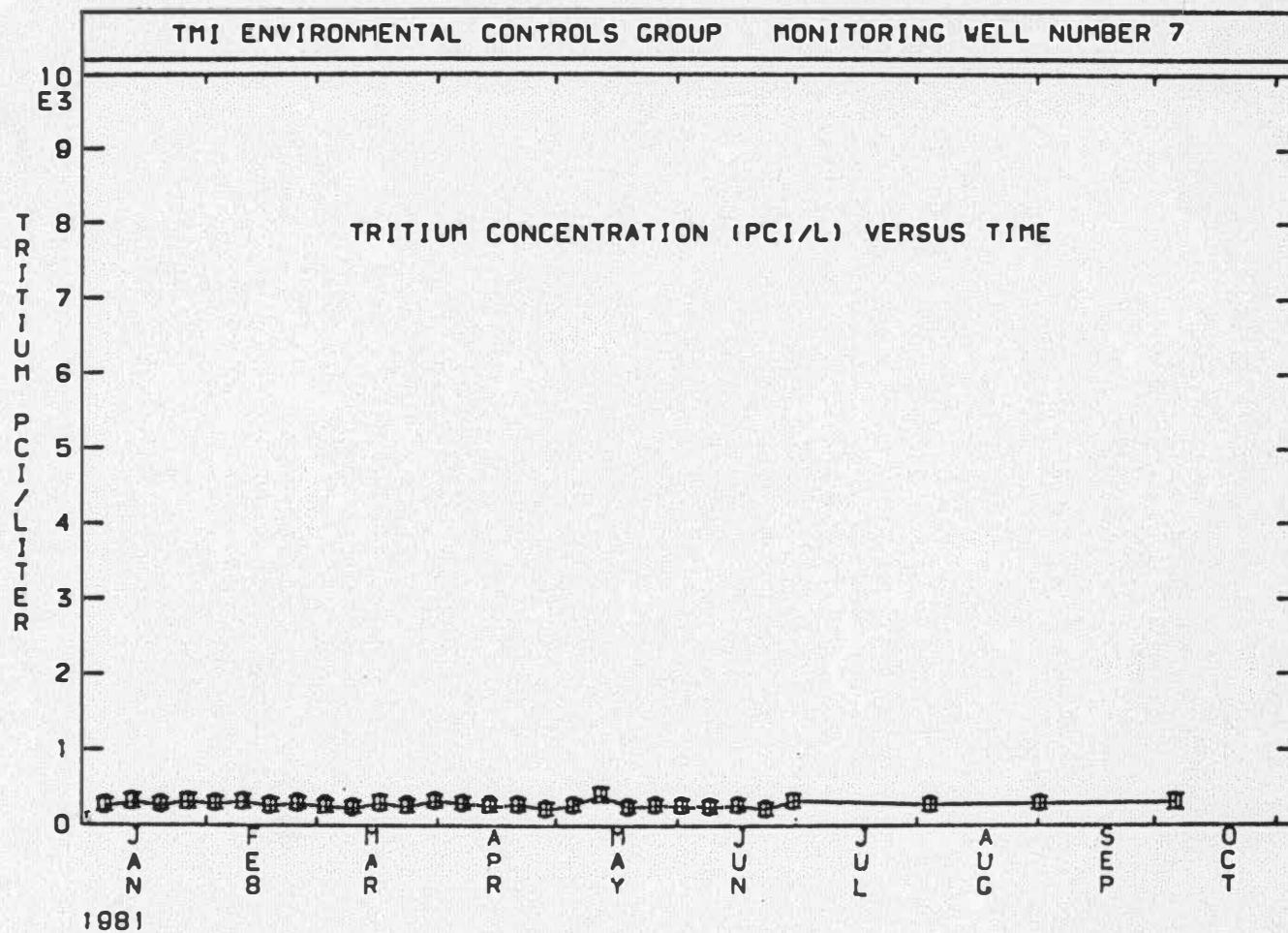


FIGURE 1, PAGE 7

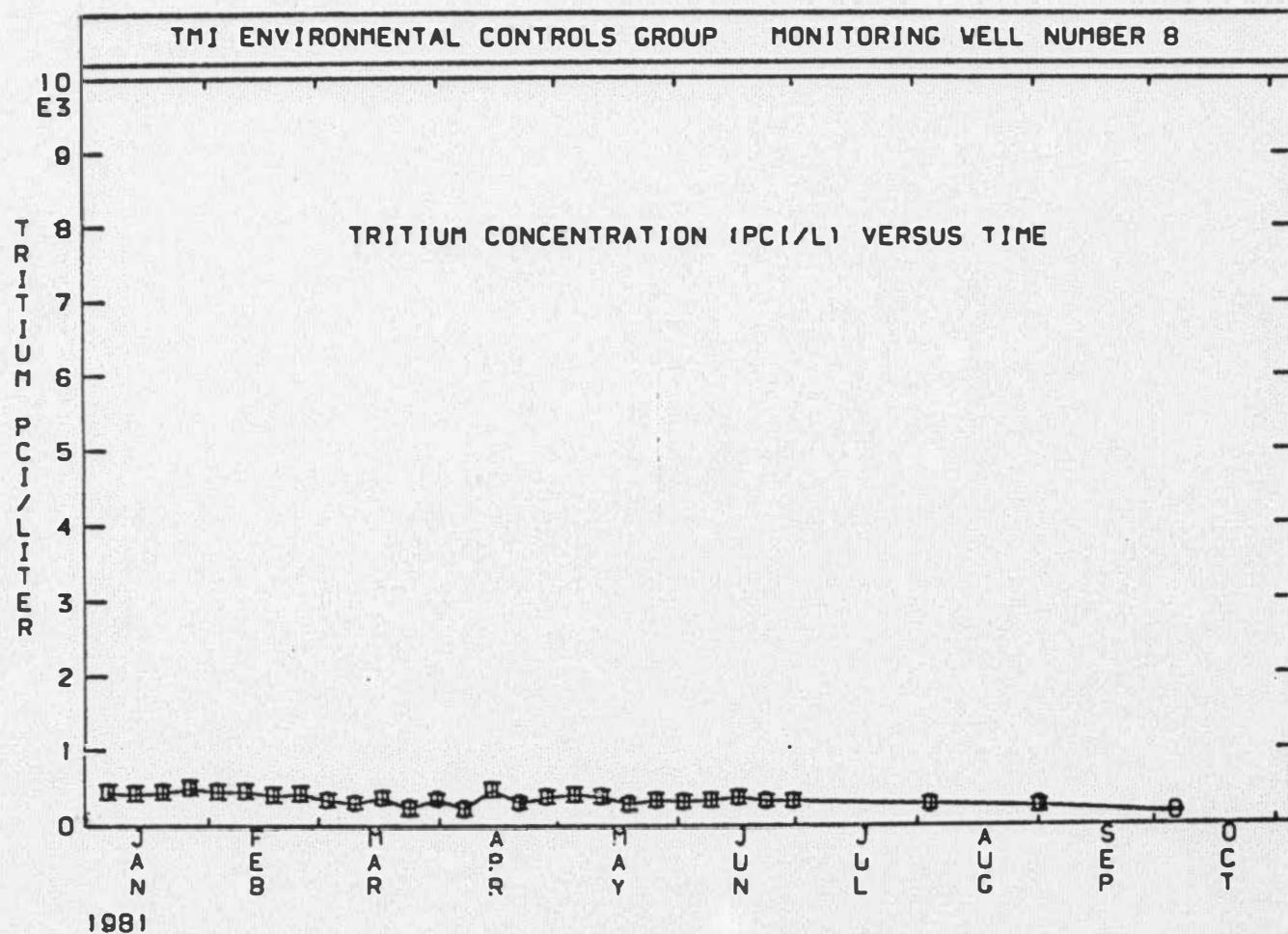


FIGURE 1, PAGE 8

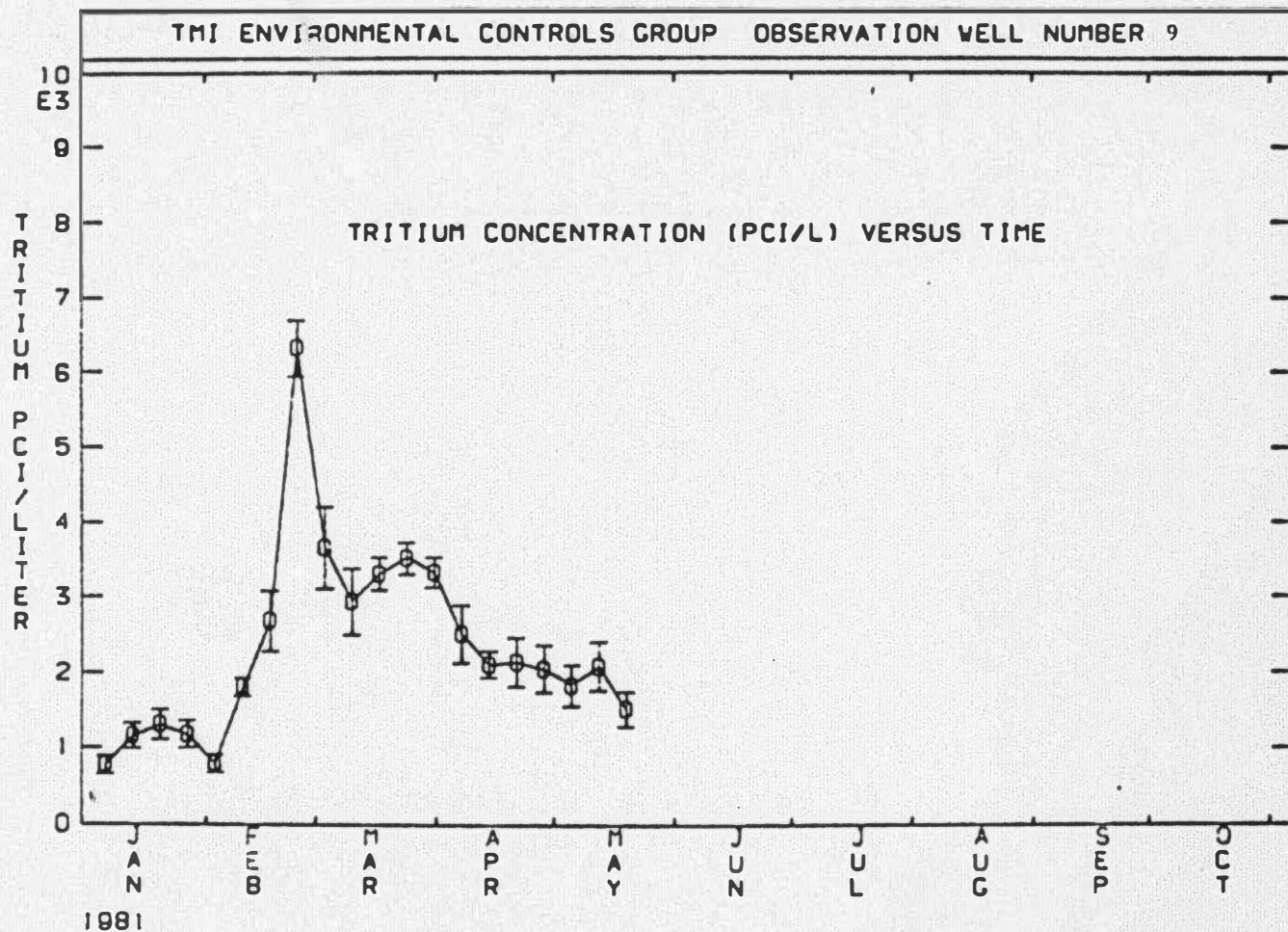


FIGURE 1, PAGE 9

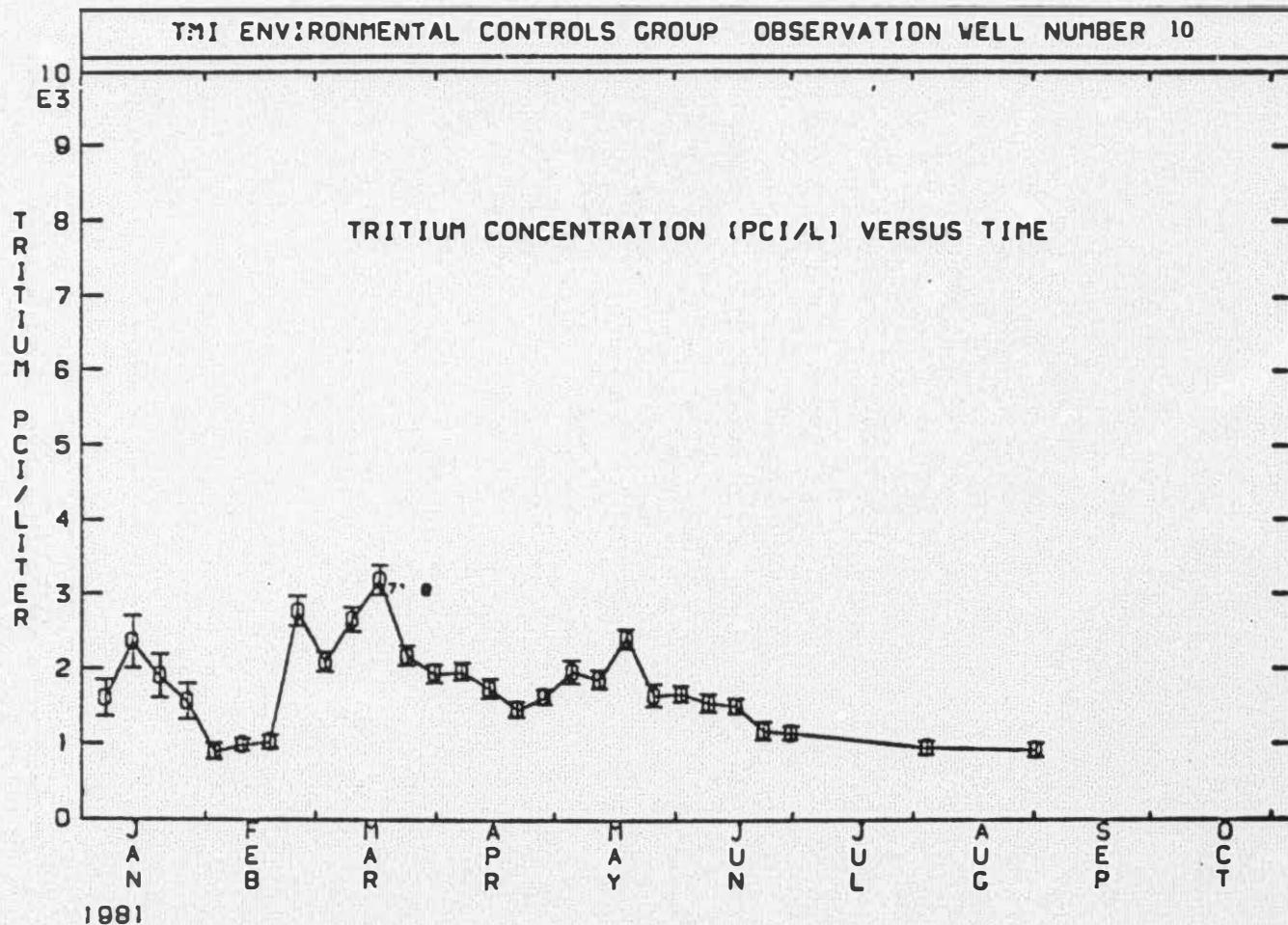


FIGURE 1. PAGE 10

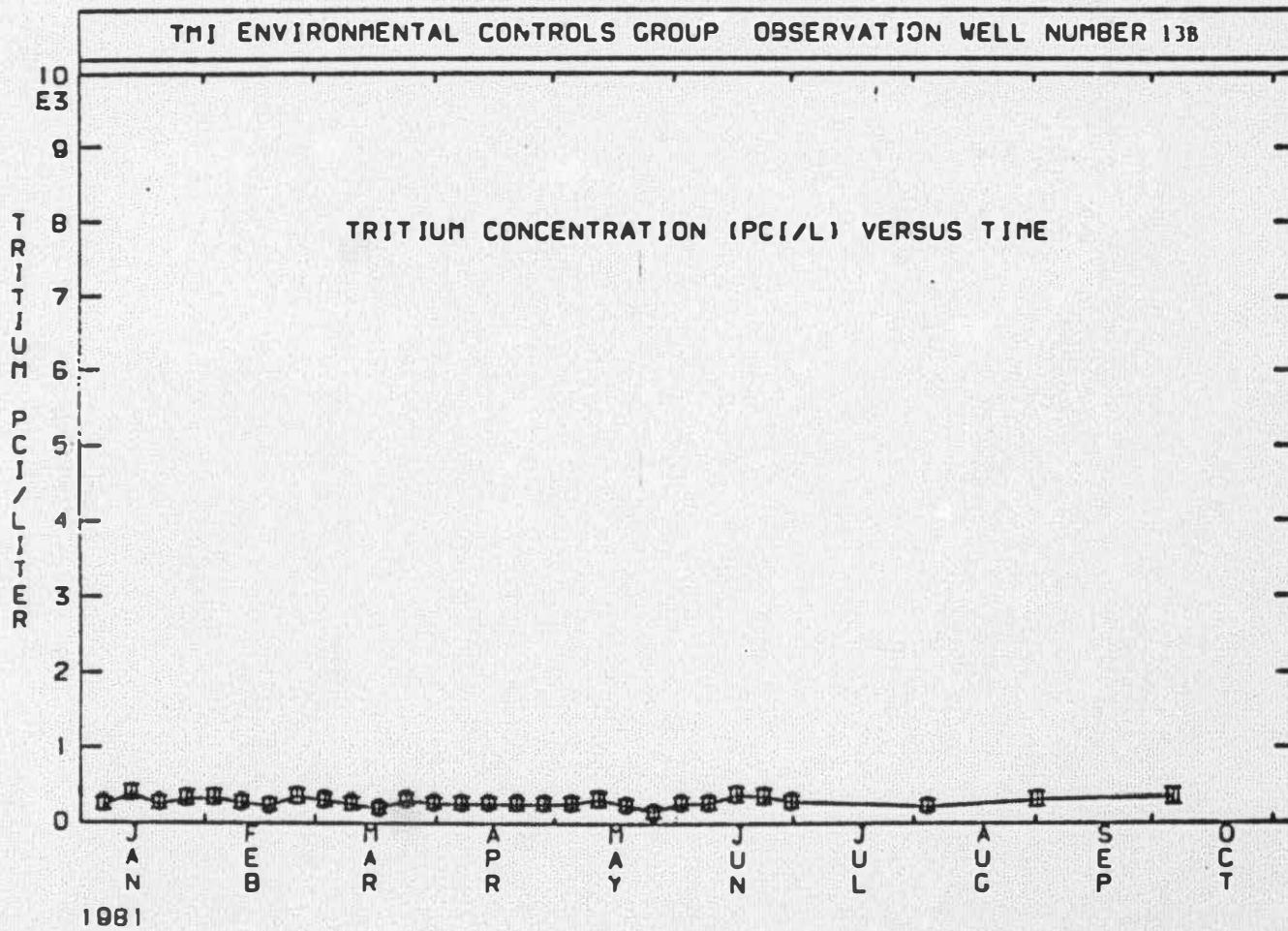


FIGURE 1, PAGE 11

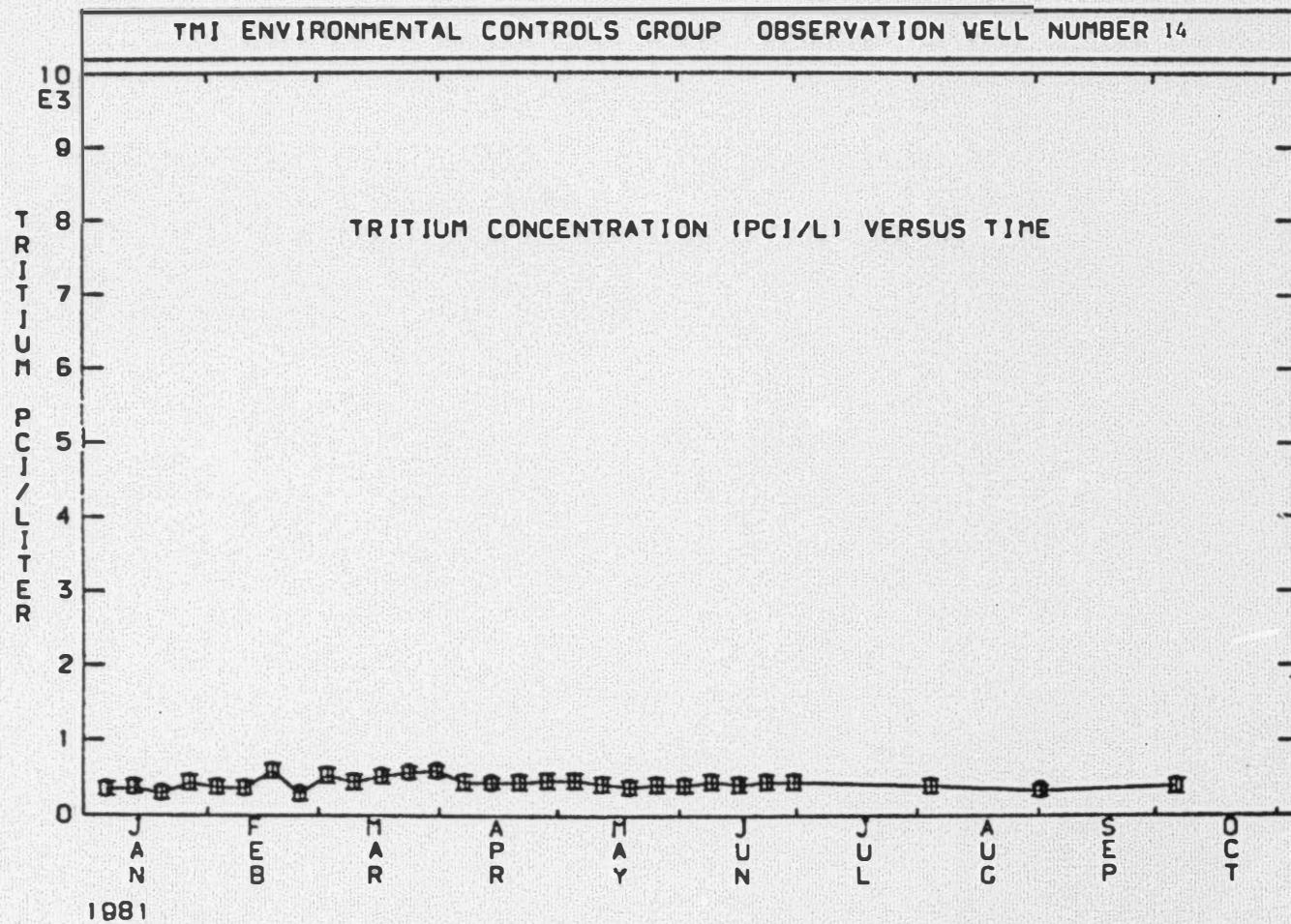


FIGURE 1. PAGE 12

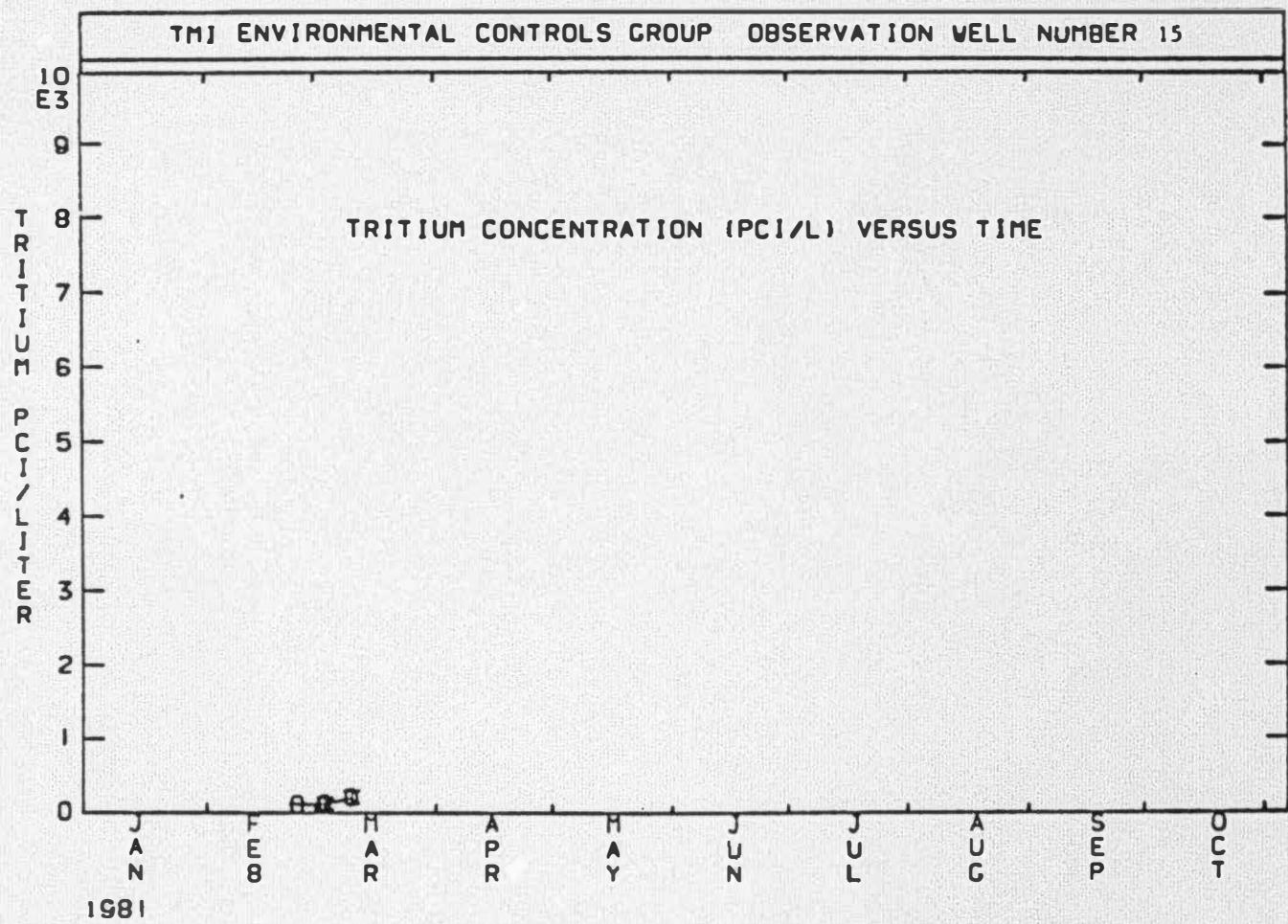


FIGURE 1. PAGE 13

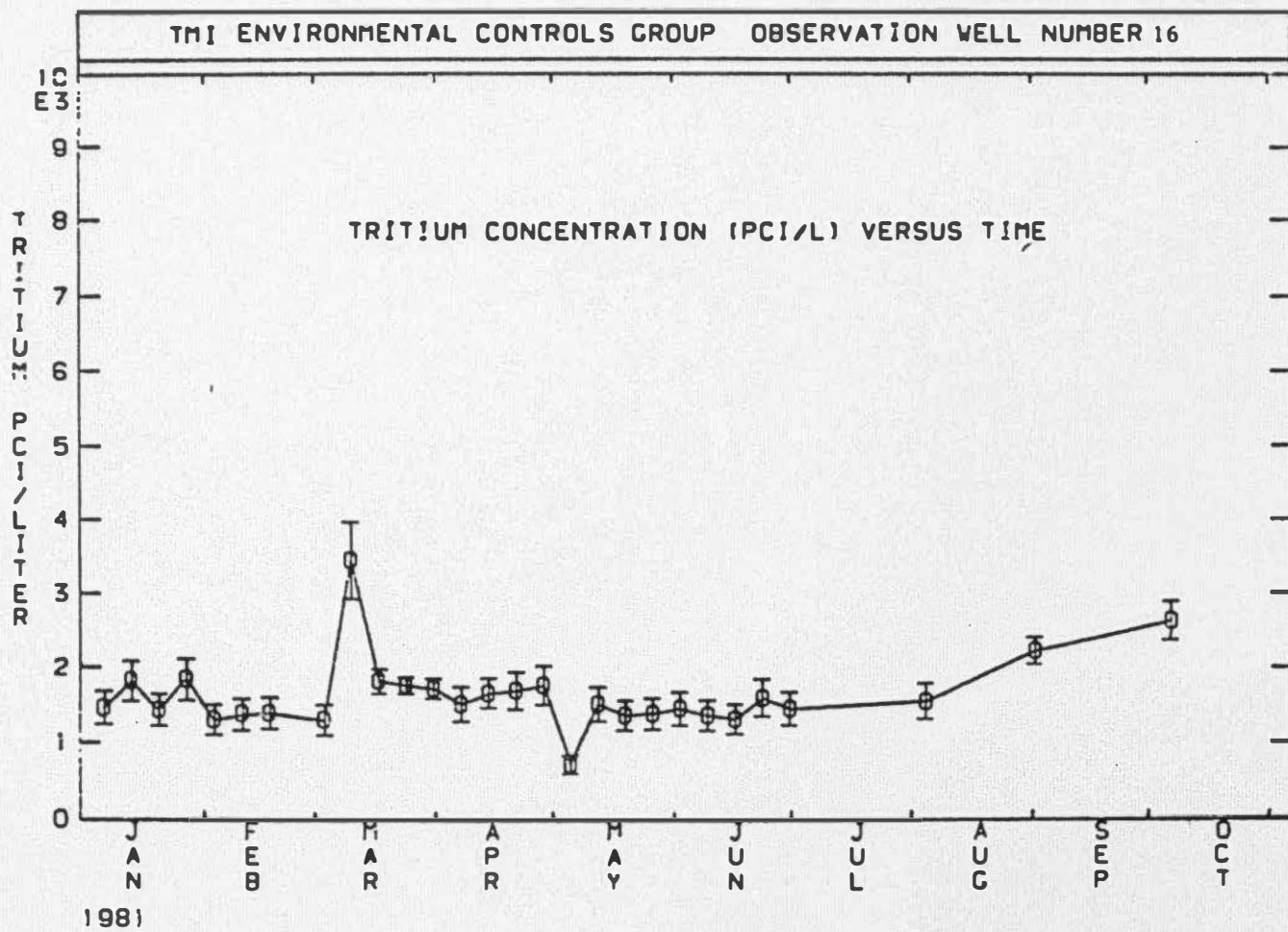


FIGURE 1, PAGE 14

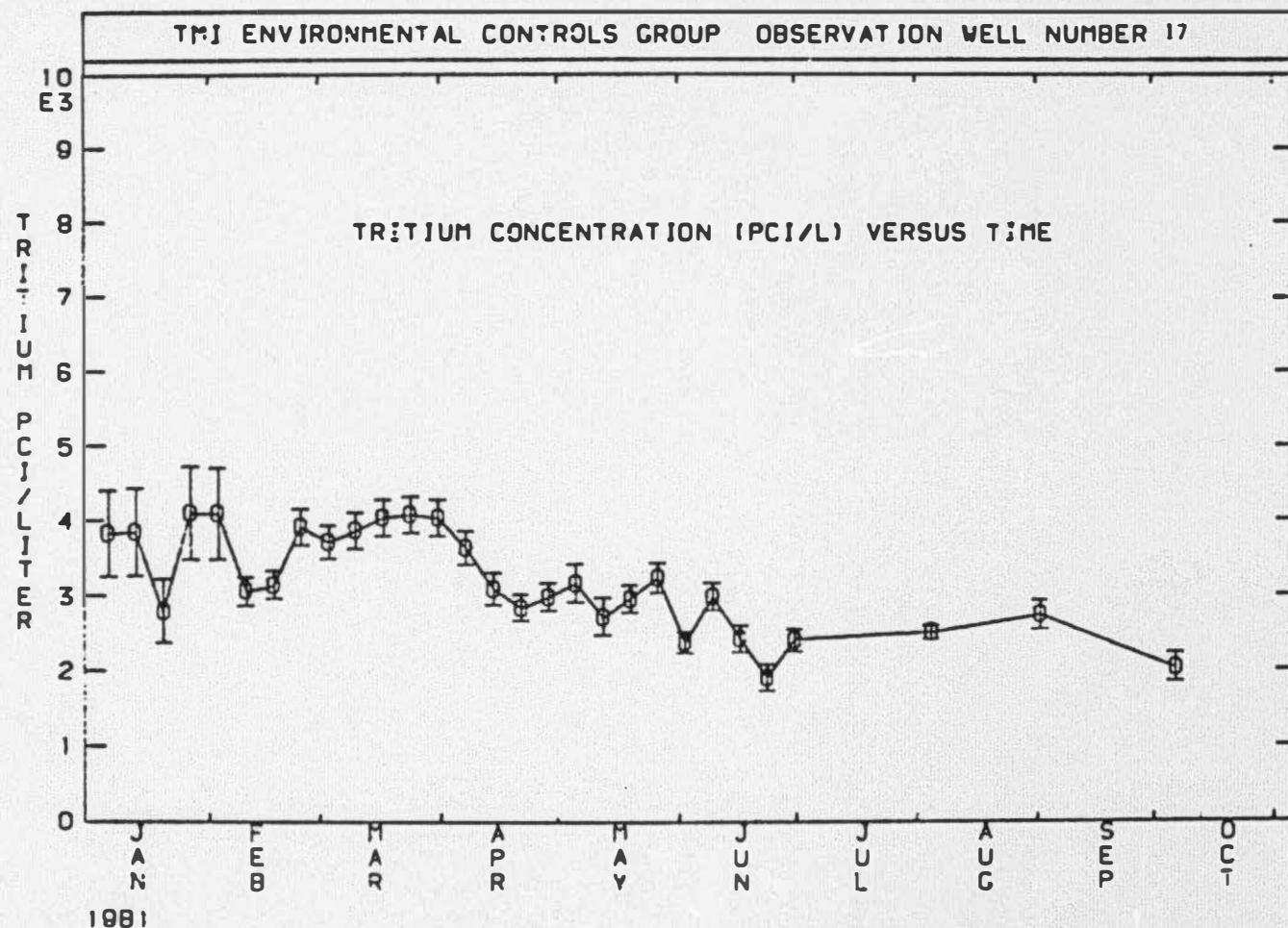


FIGURE 1, PAGE 15

A

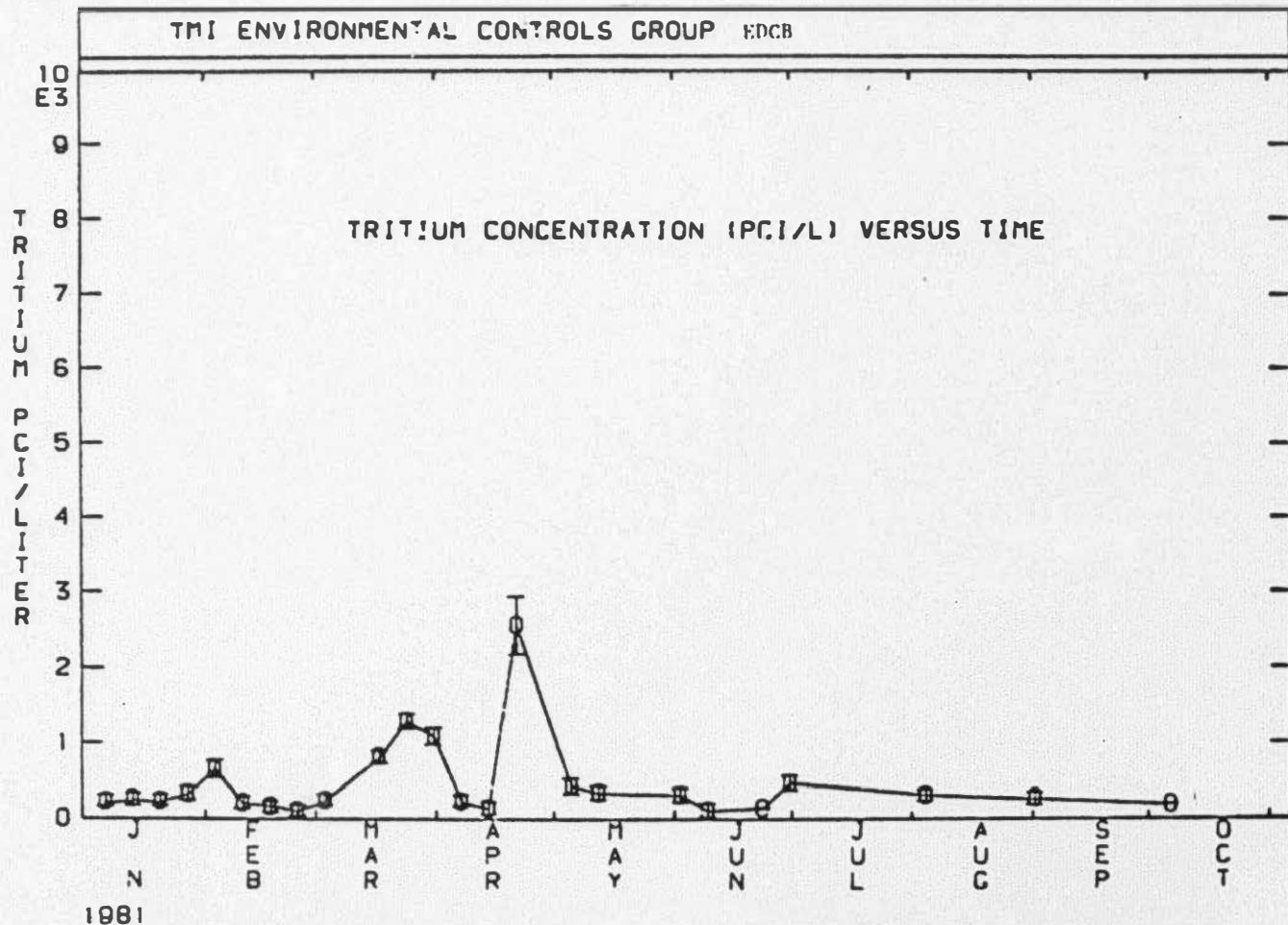


FIGURE 1, PAGE 16

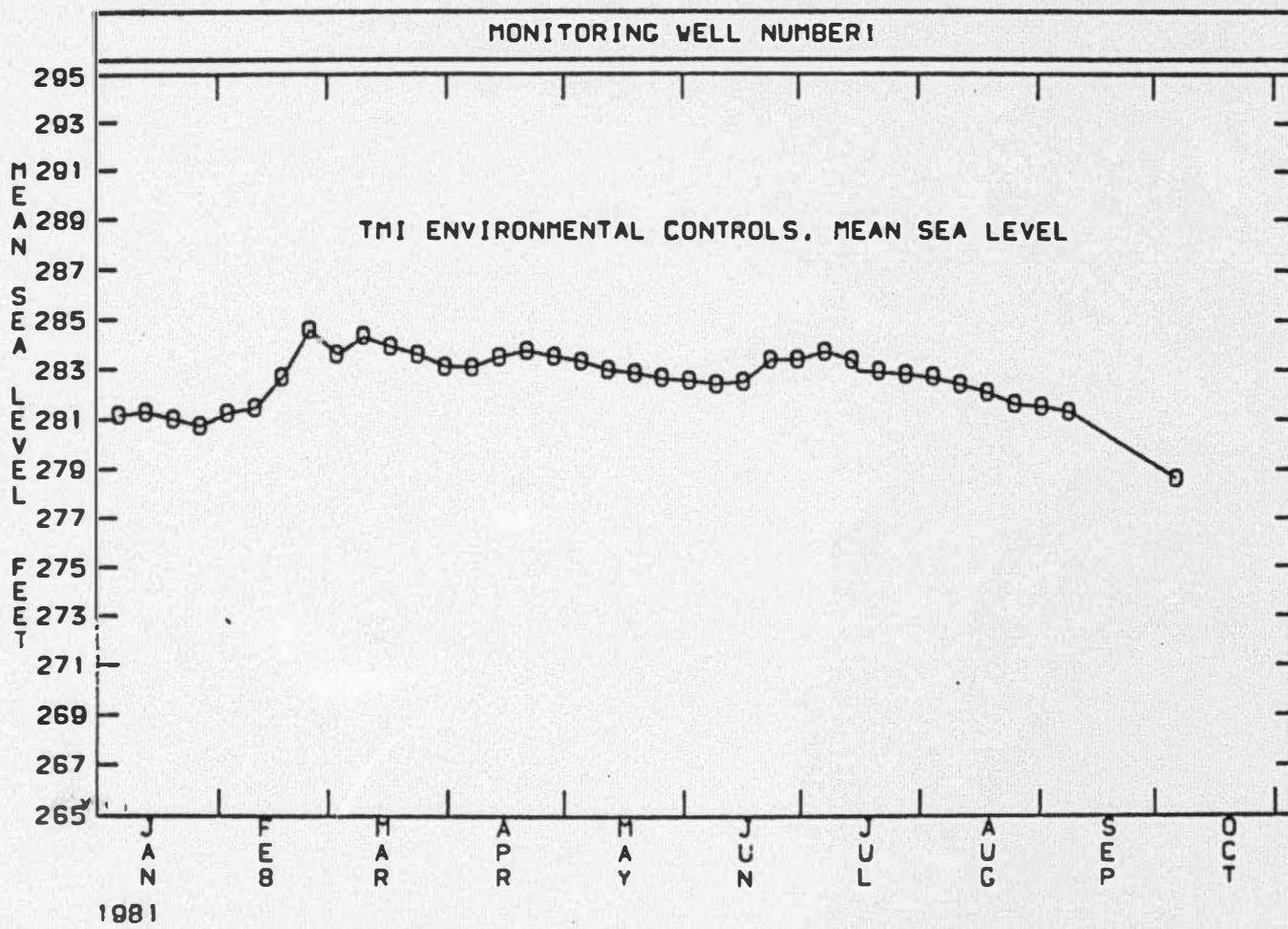


FIGURE 2, PAGE 1

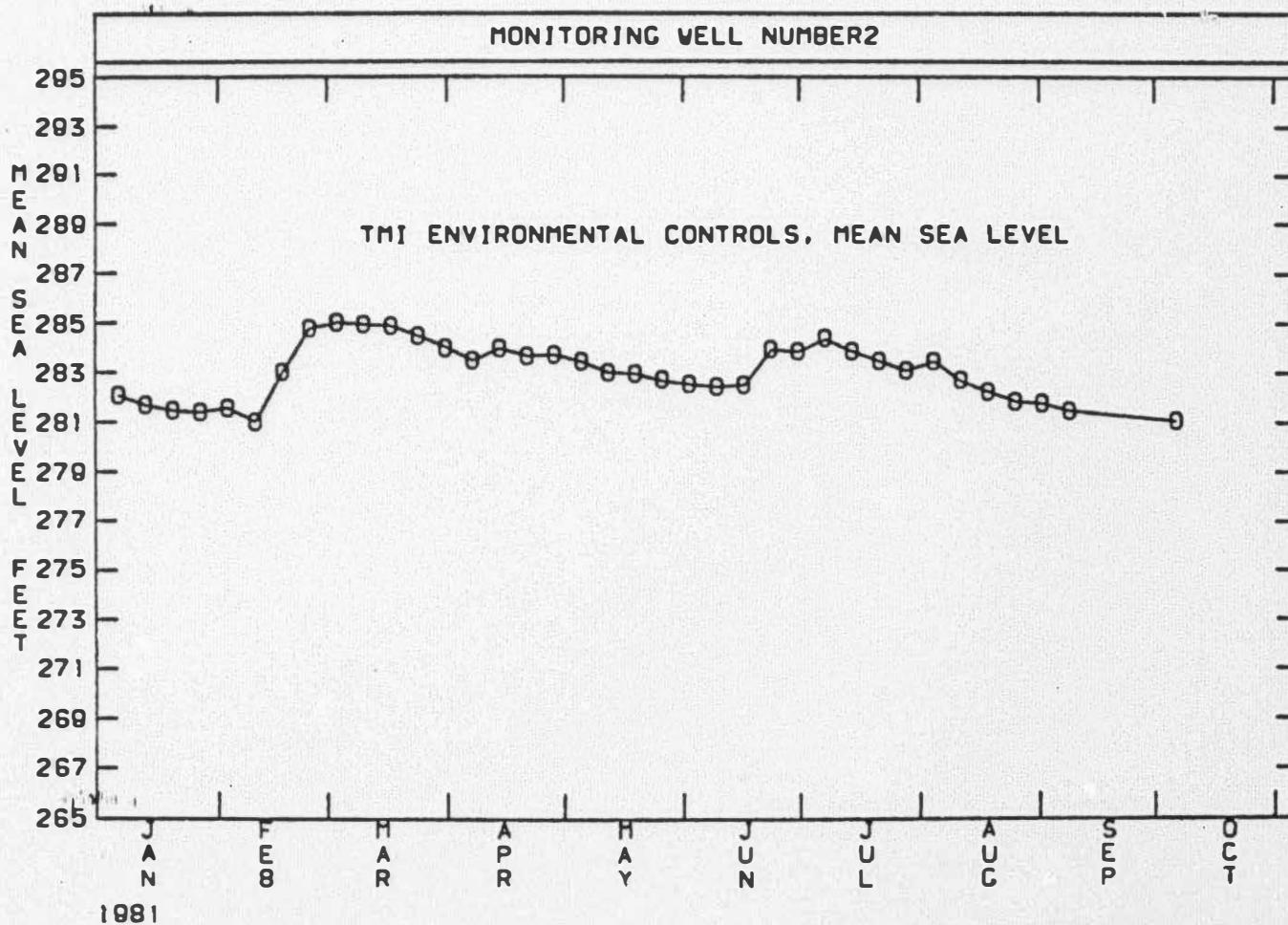


FIGURE 2, PAGE 2

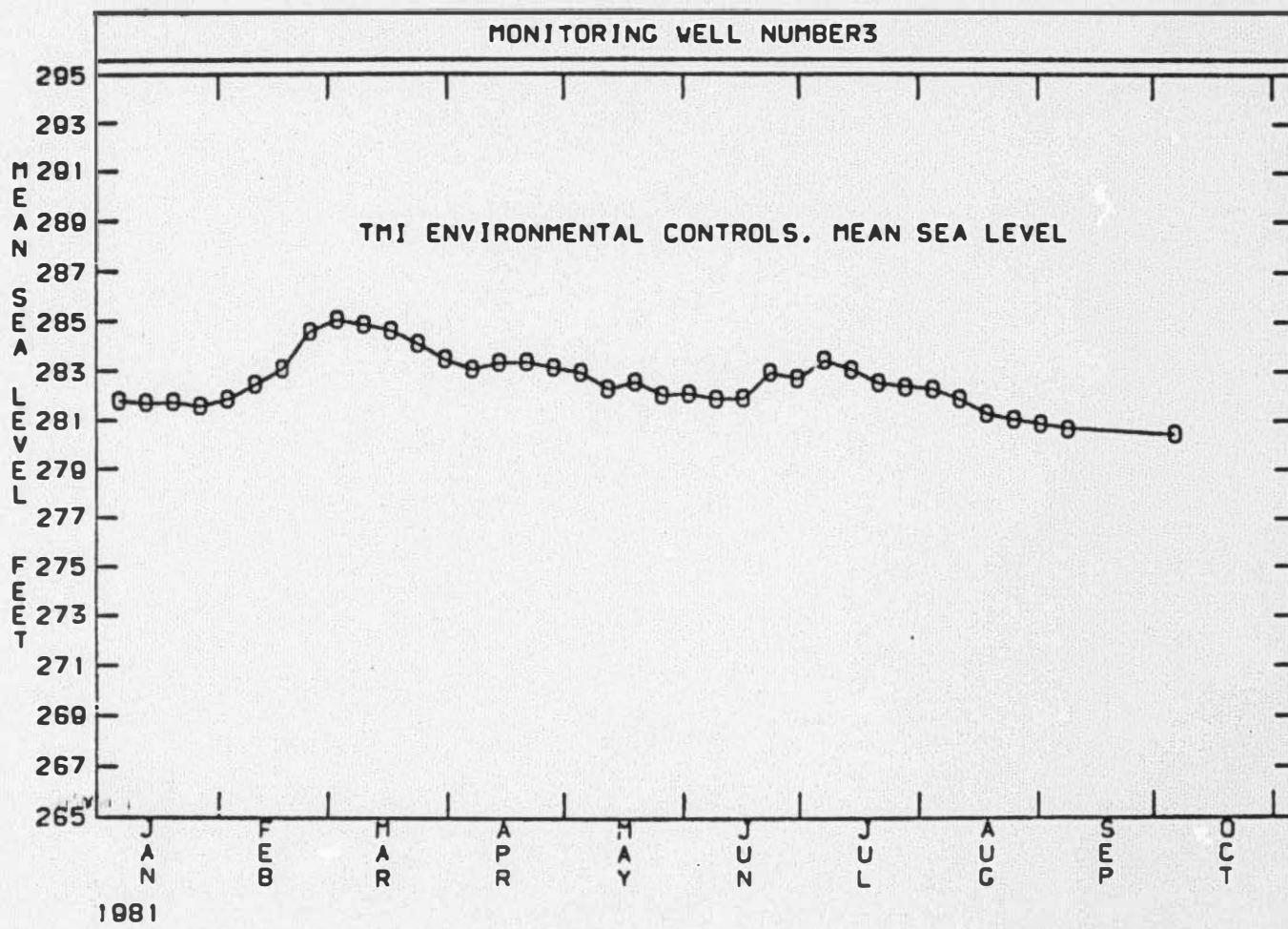


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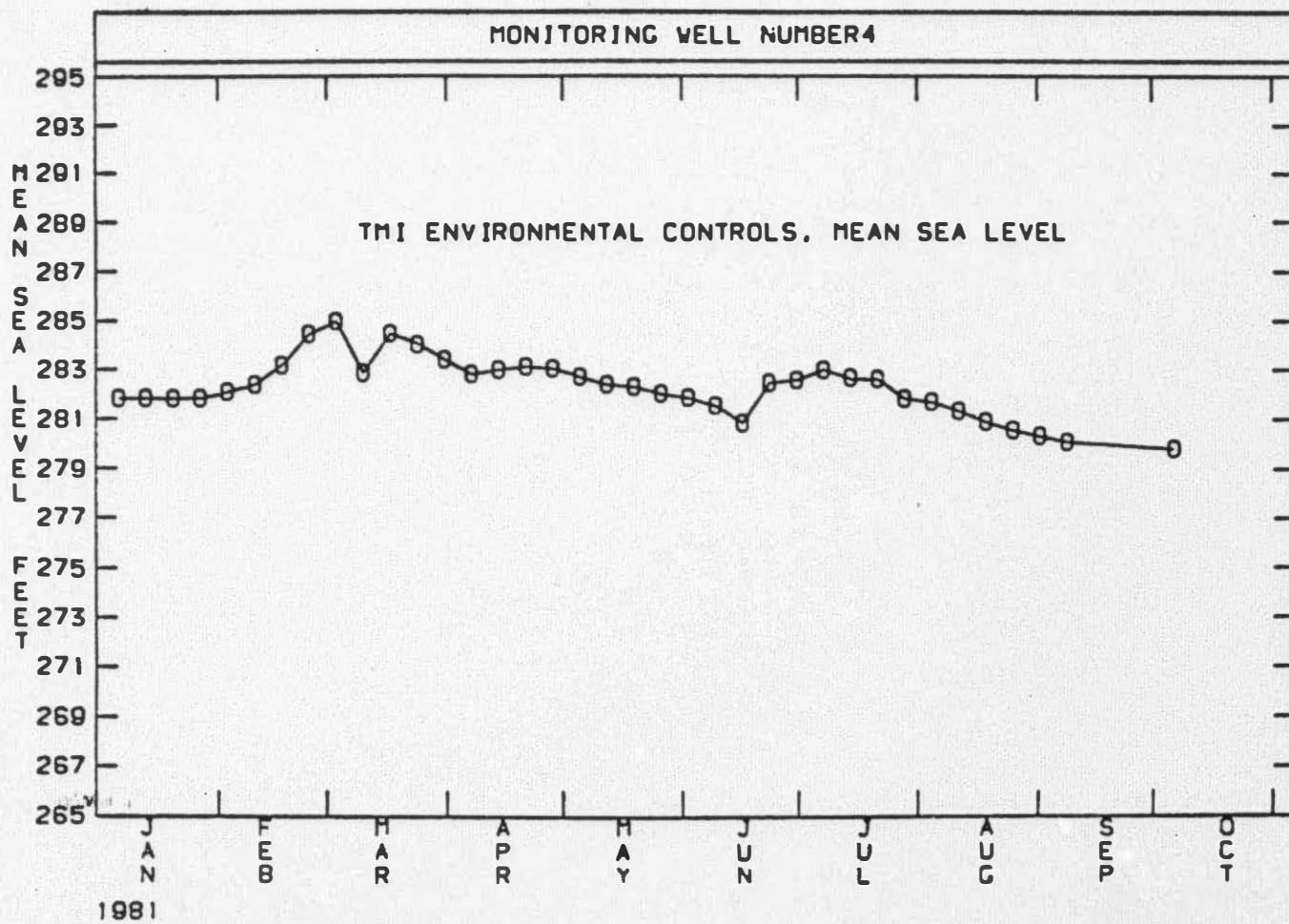


FIGURE 2, PAGE 4

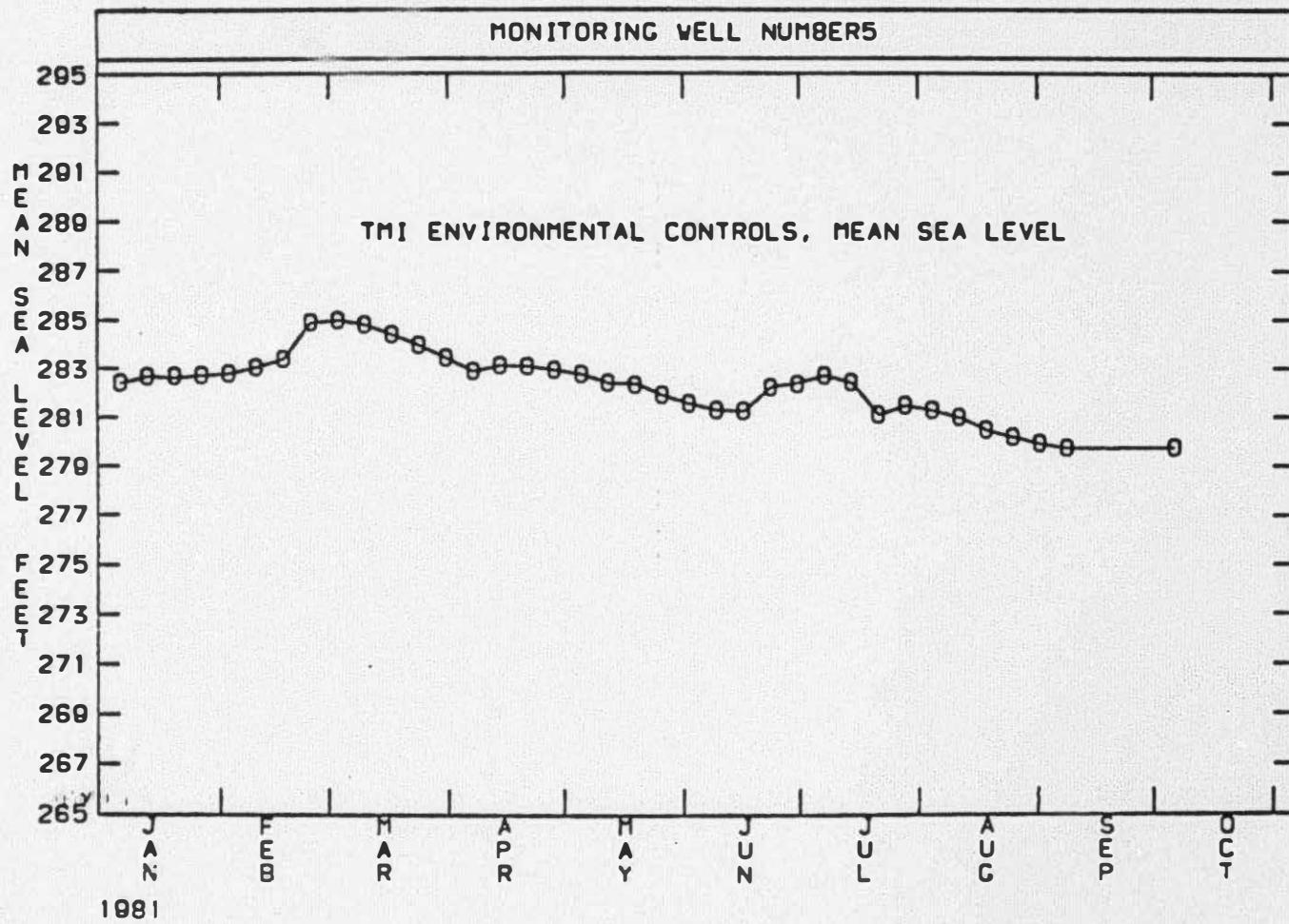


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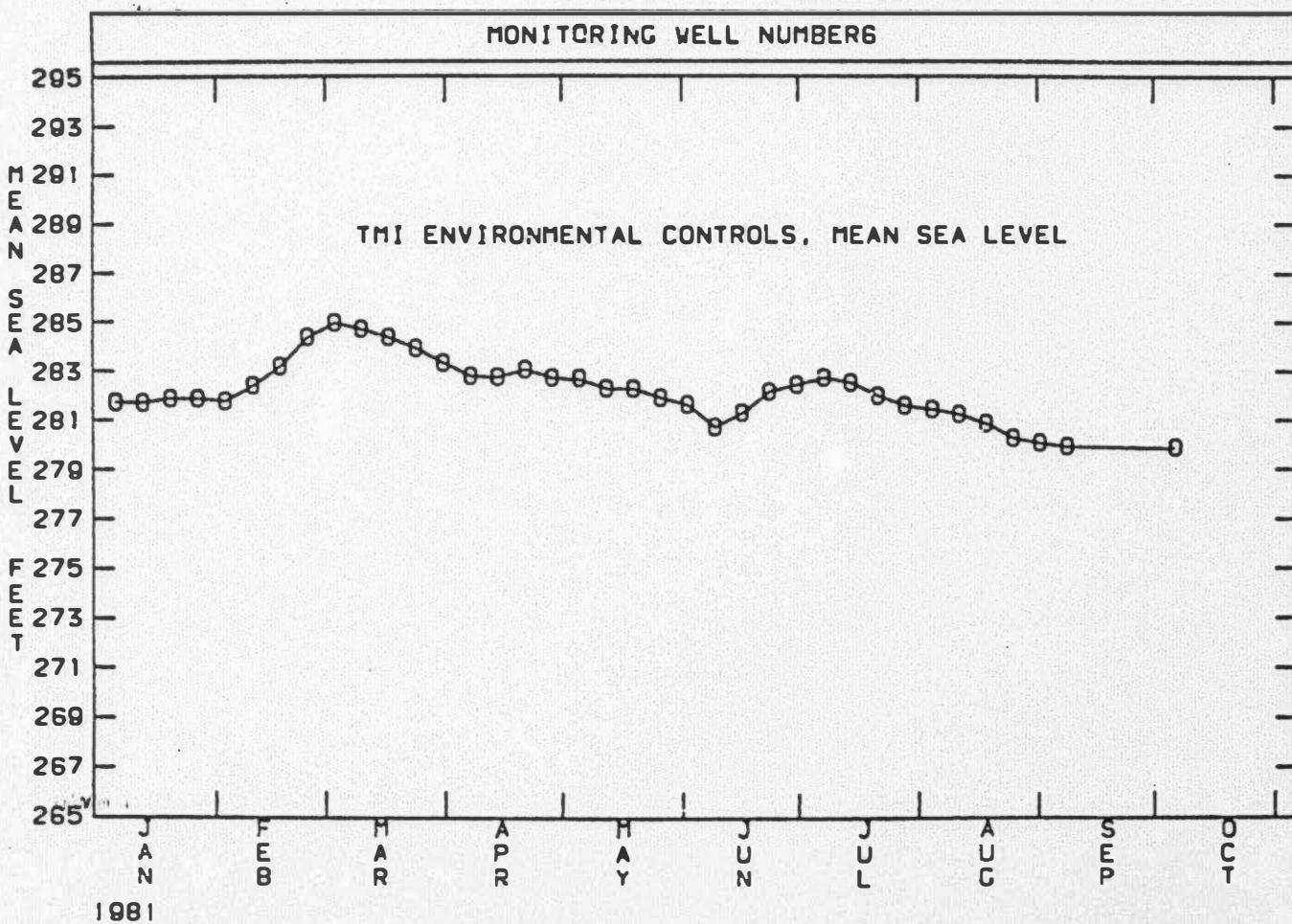


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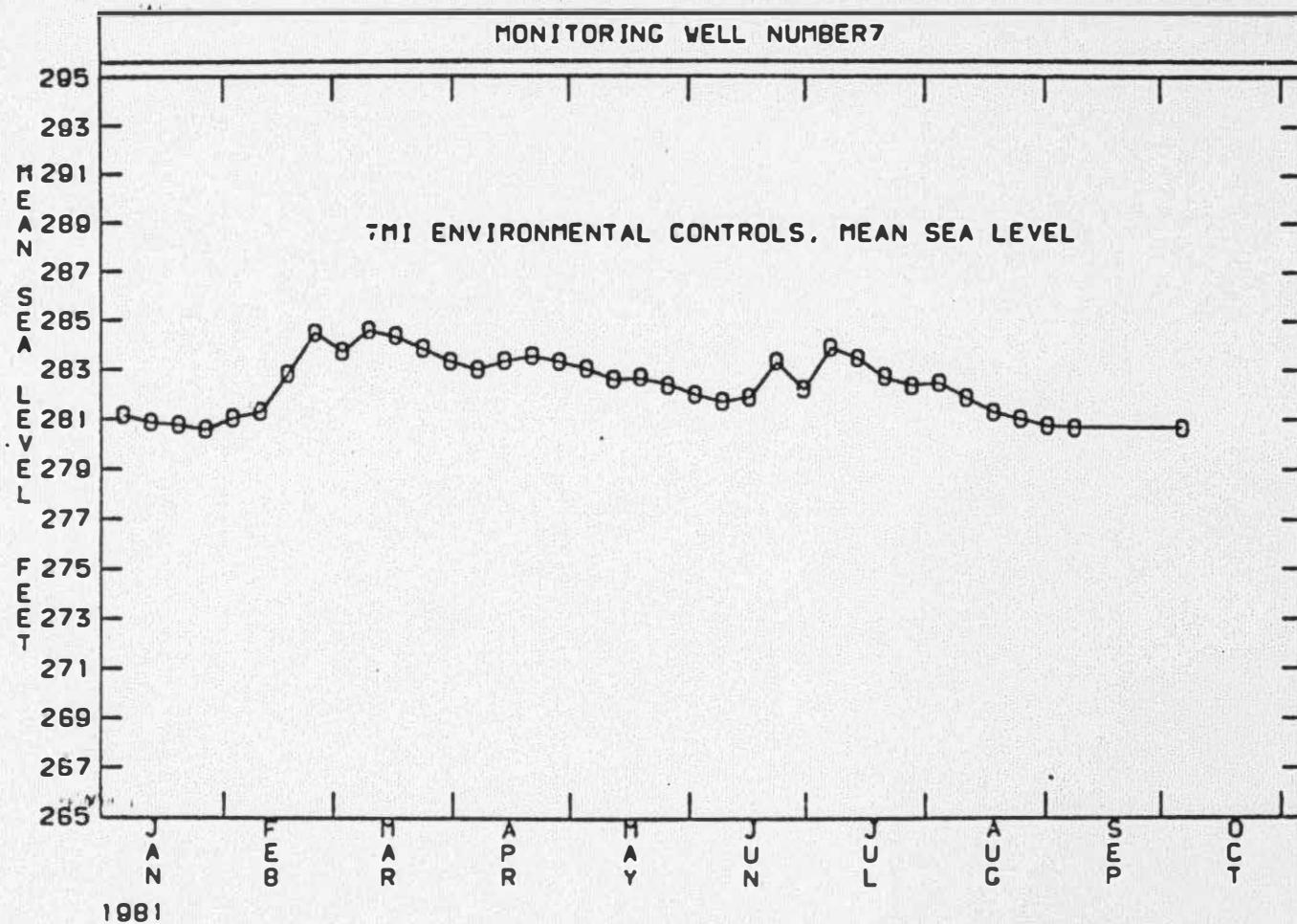


FIGURE 2, PAGE 7

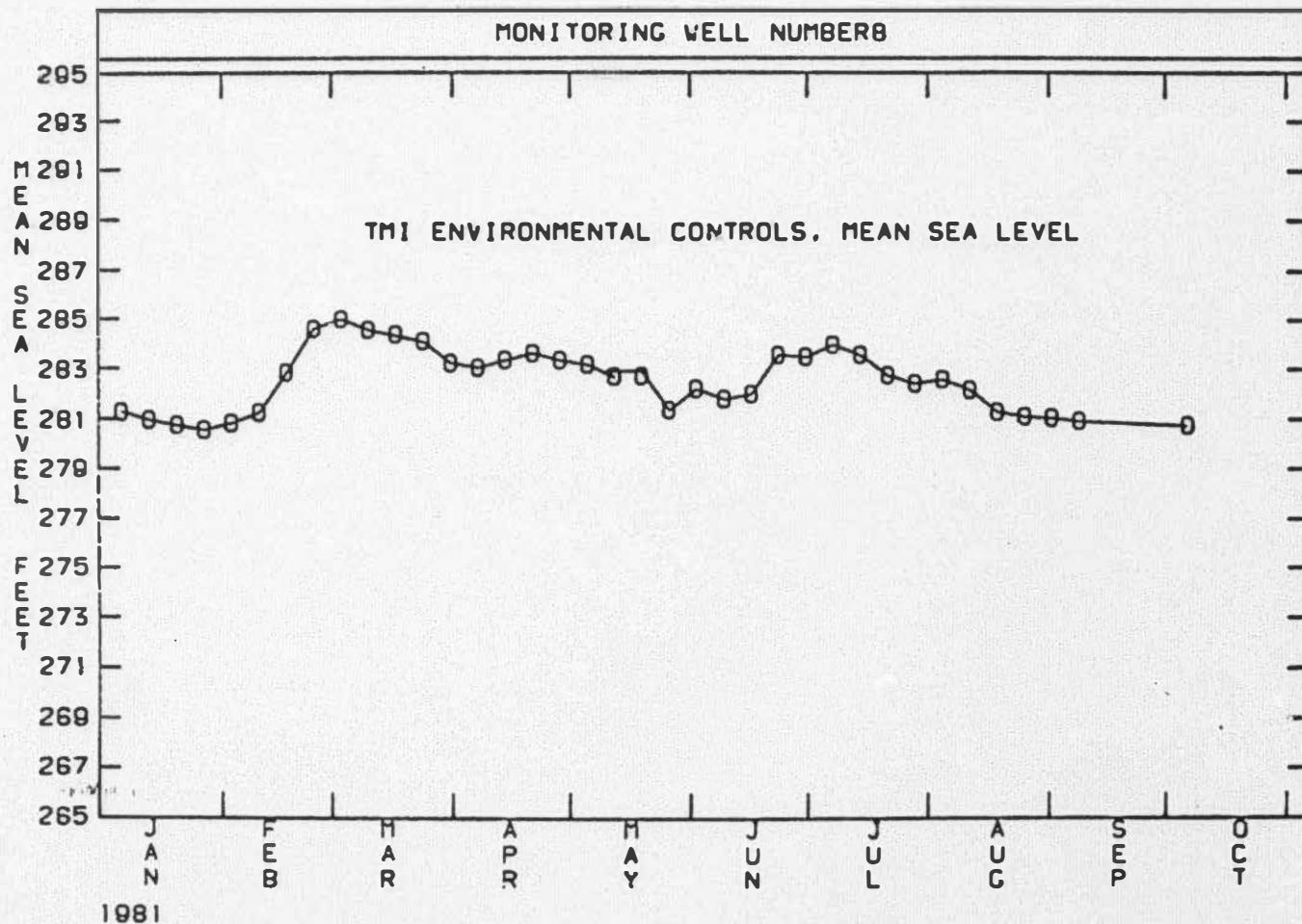


FIGURE 2, PAGE 8

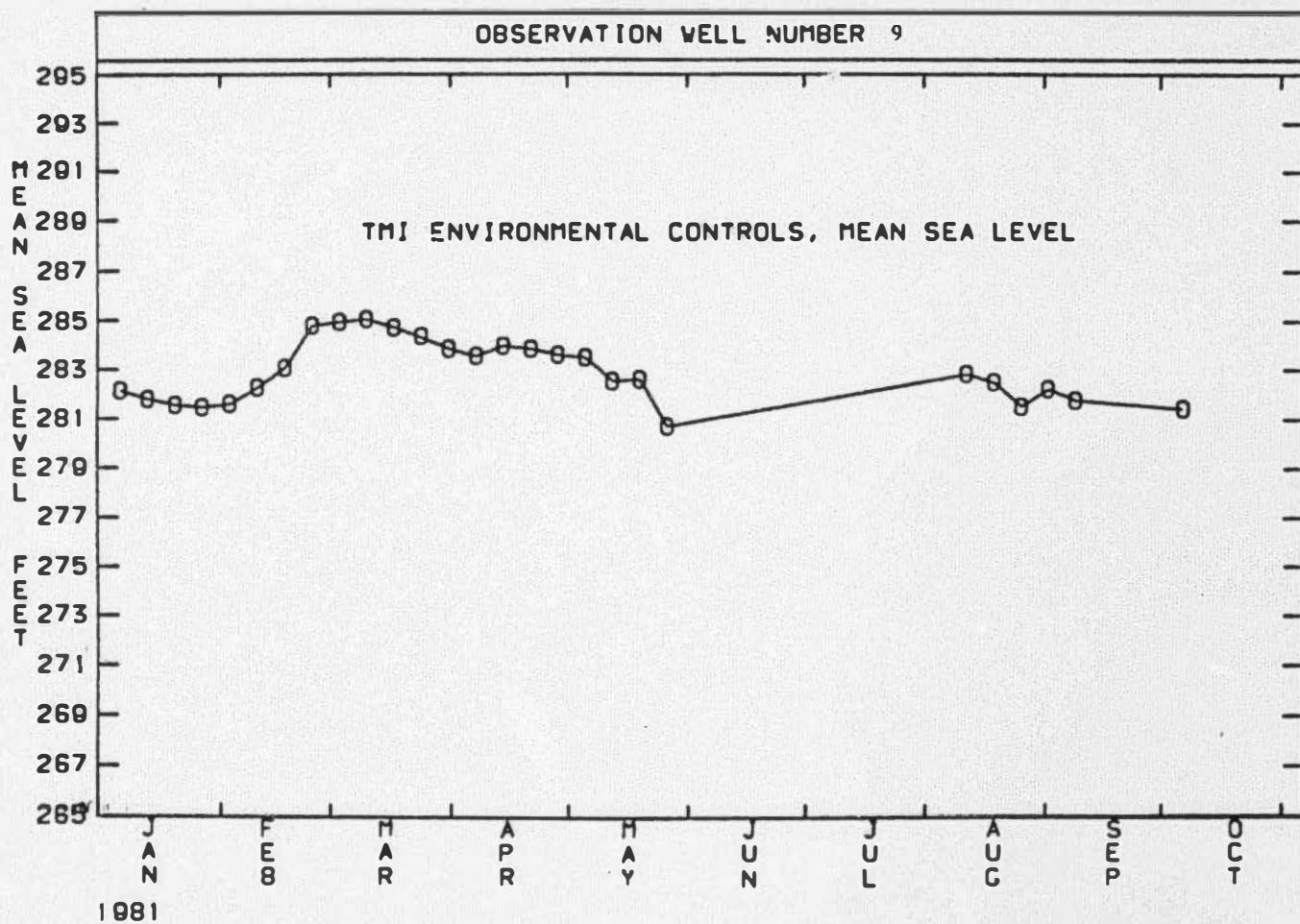


FIGURE 2, PAGE 9

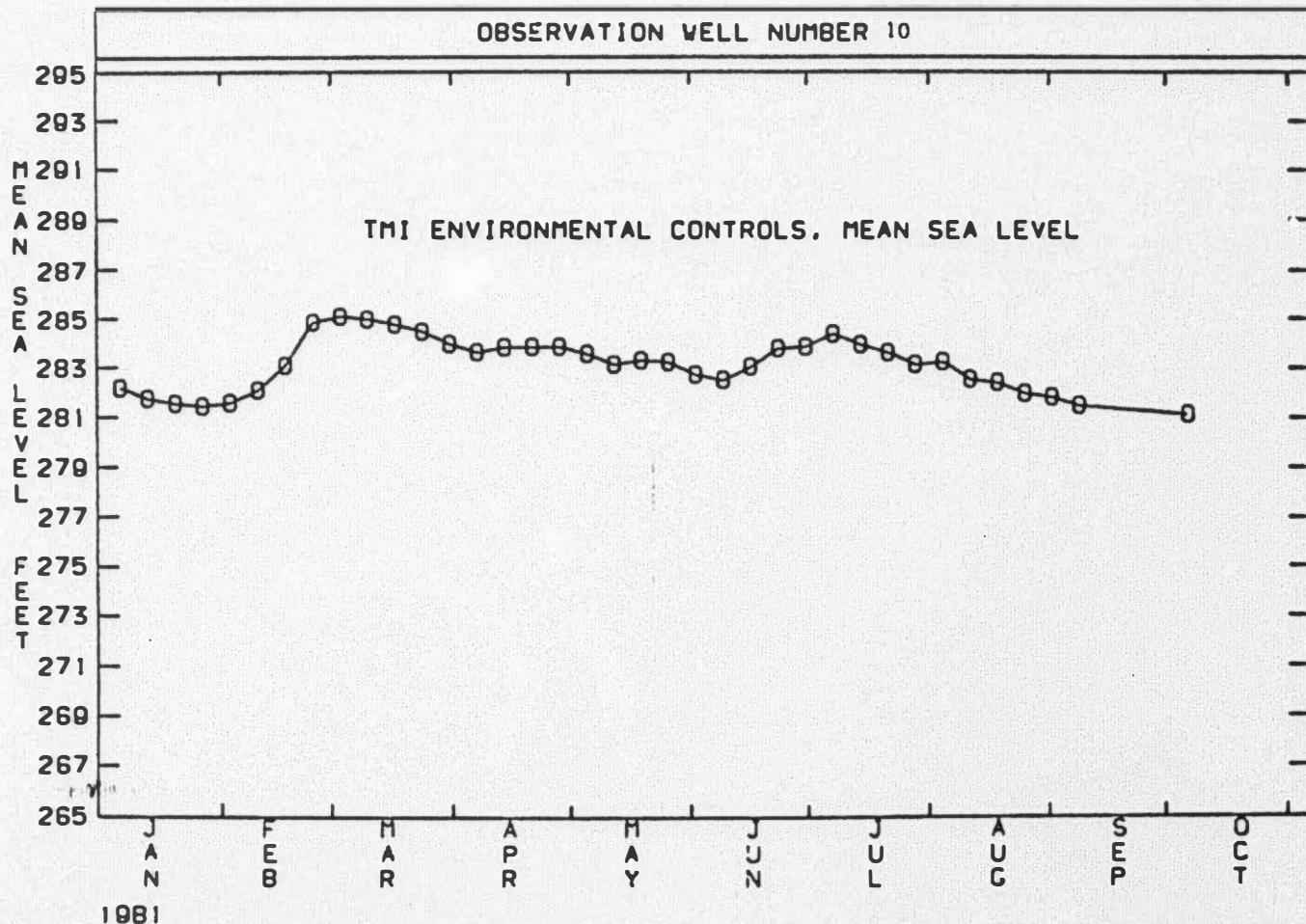


FIGURE 2, PAGE 10

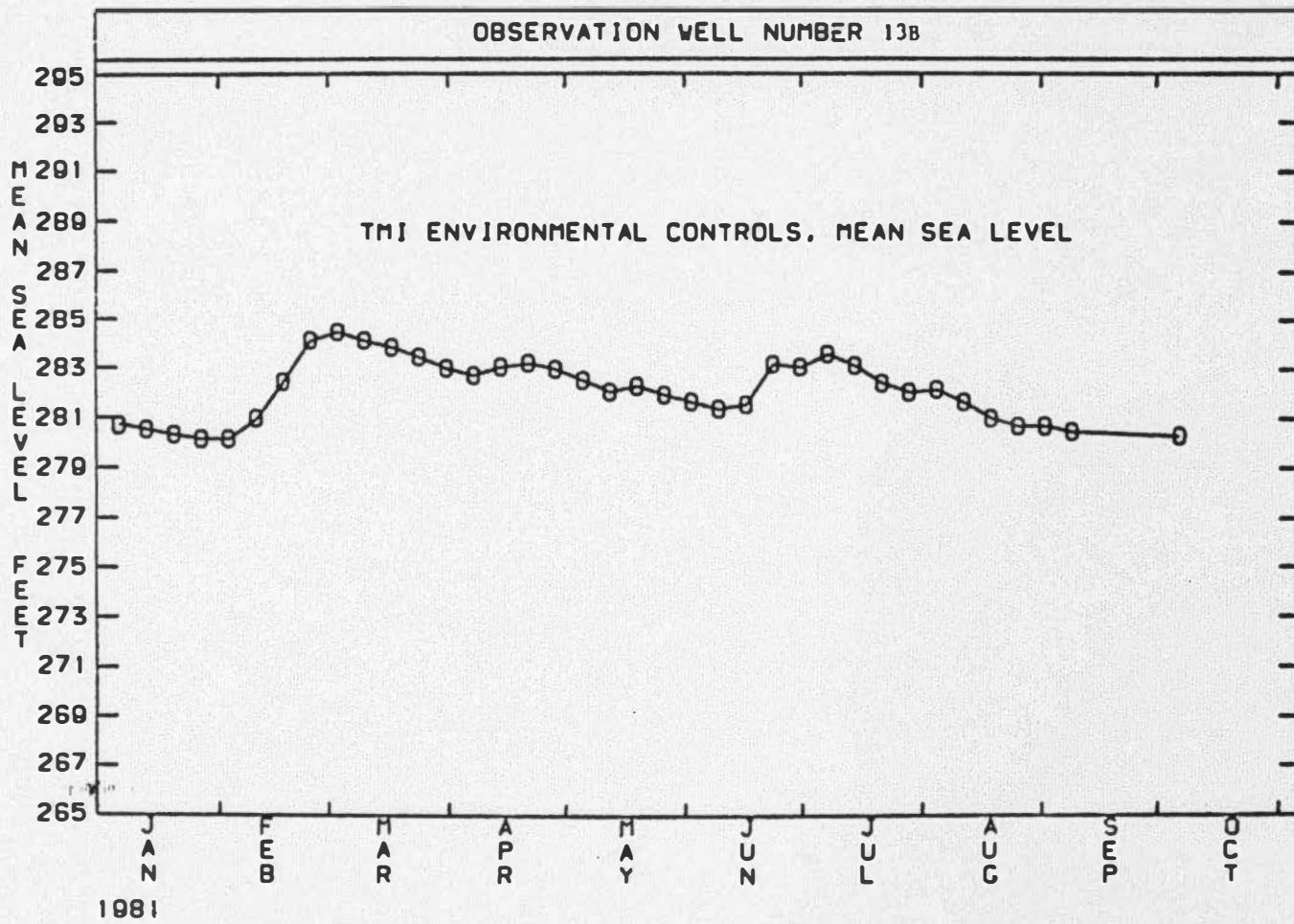


FIGURE 2, PAGE 11

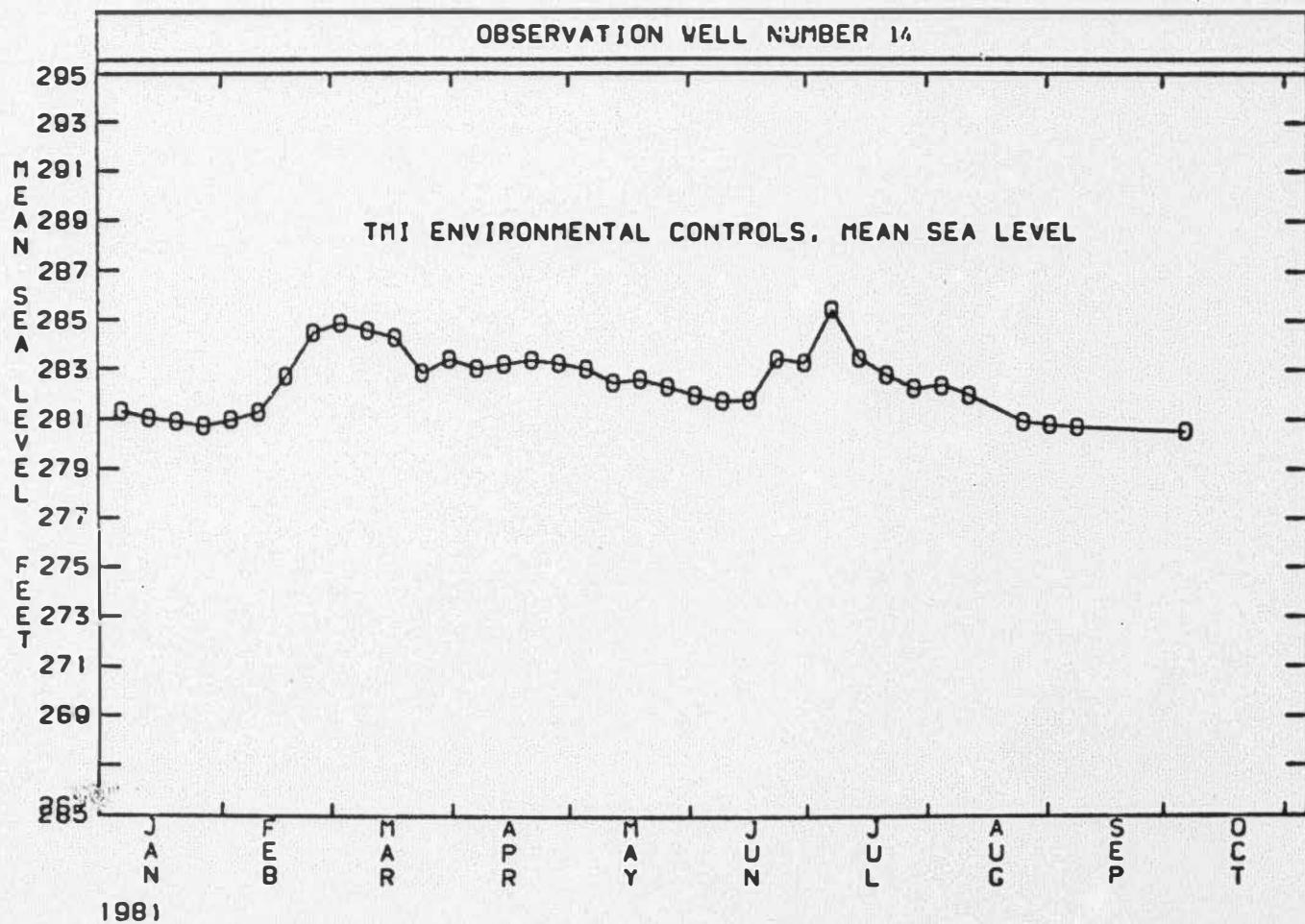


FIGURE 2, PAGE 12

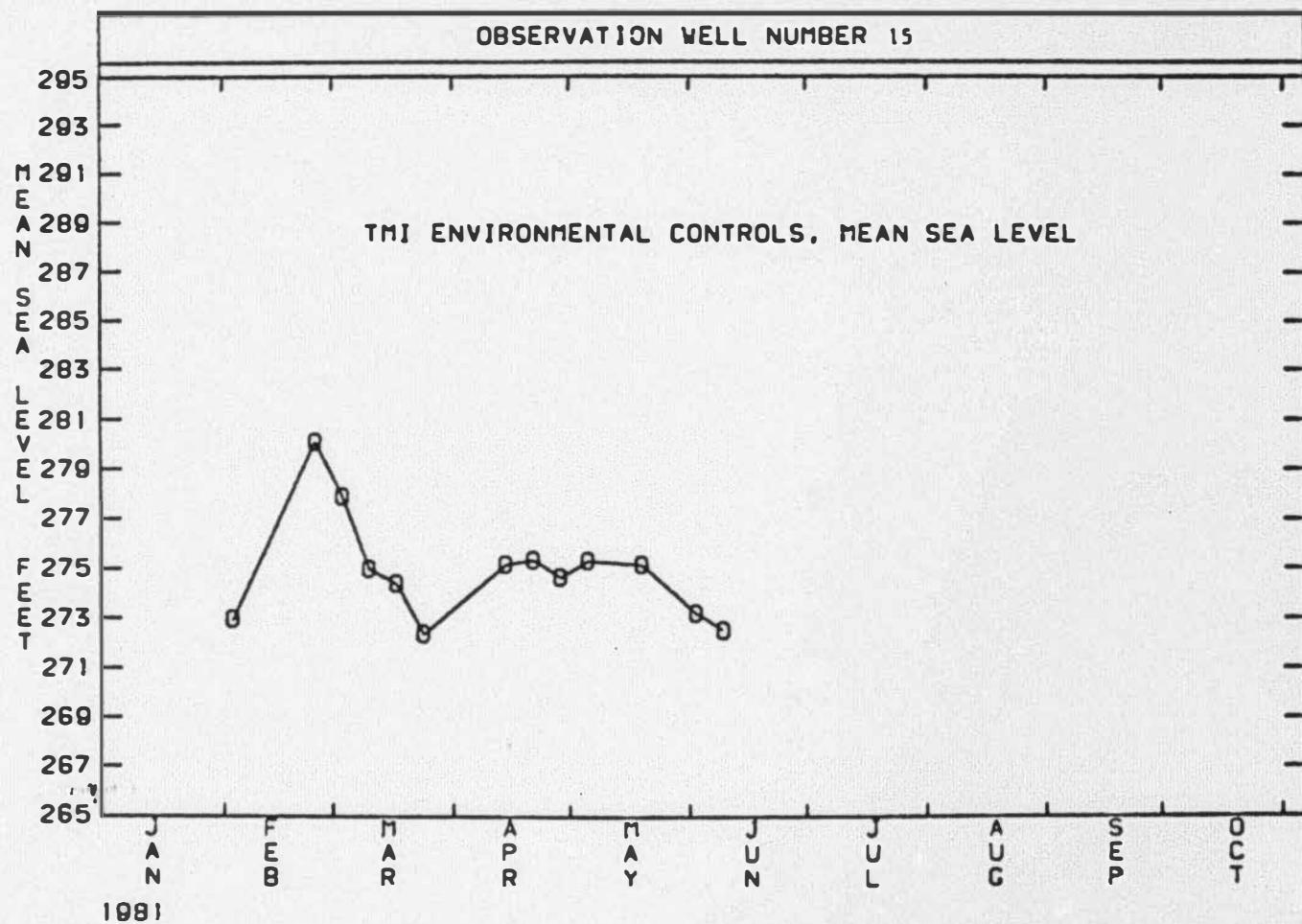


FIGURE 2, PAGE 13

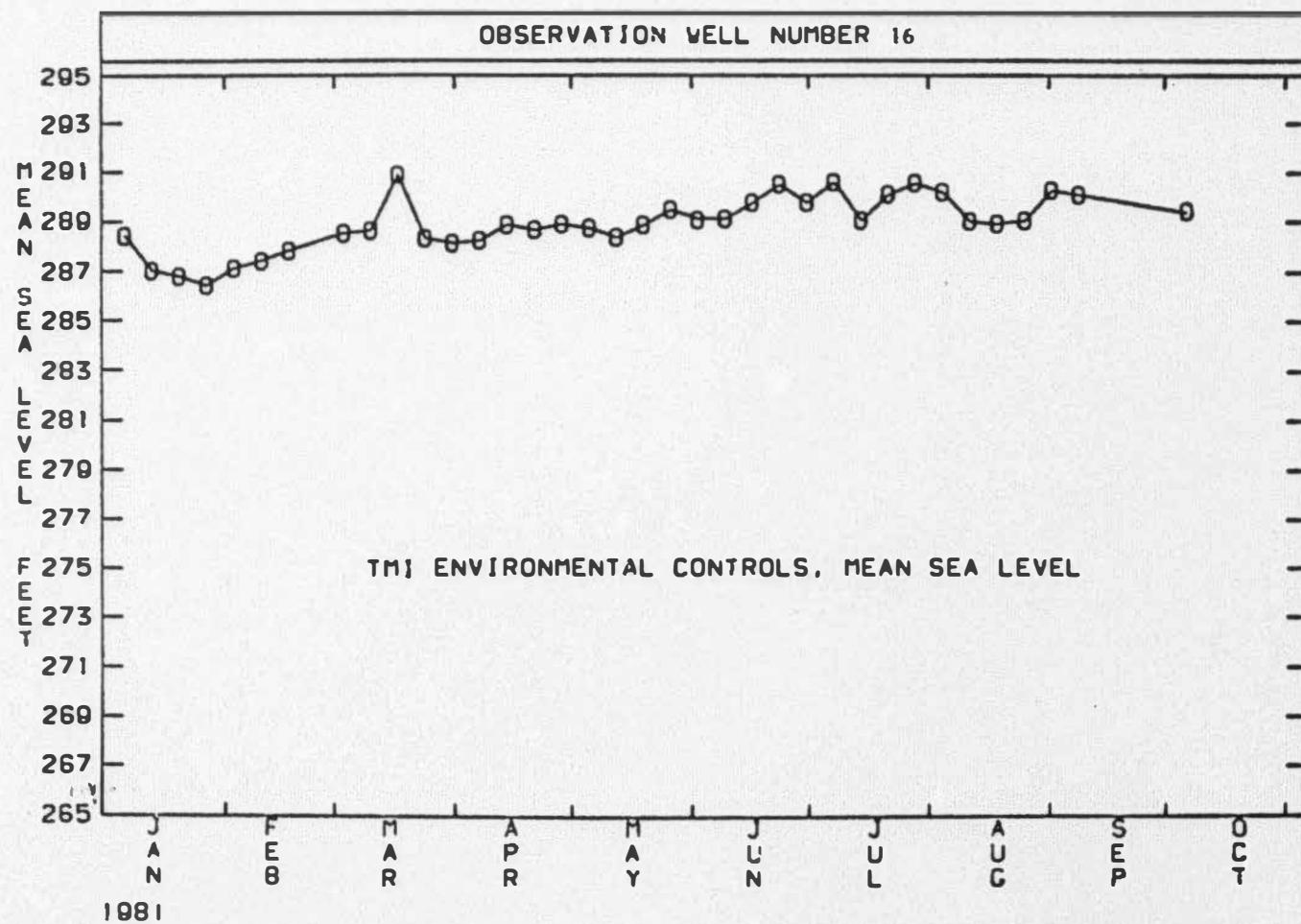


FIGURE 2. PAGE 14

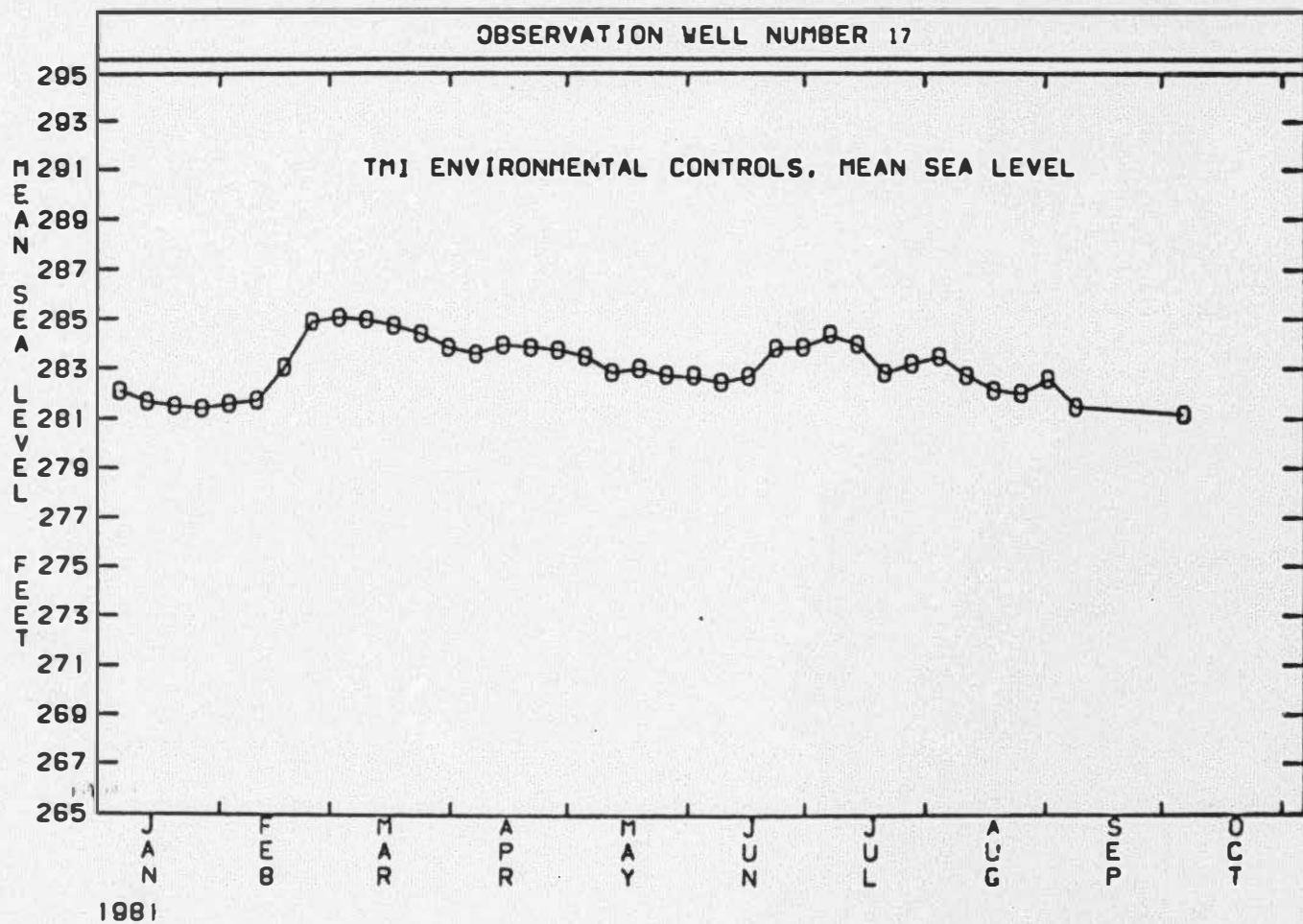


FIGURE 2, PAGE 15

CONTAINMENT INTEGRITY ASSESSMENT PROGRAM  
TMI-2 GROUNDWATER MONITORING  
GAMMA SCAN RESULTS  
FOR  
LIQUID MONITORING STATION MW-2  
SHEET 1 OF 2

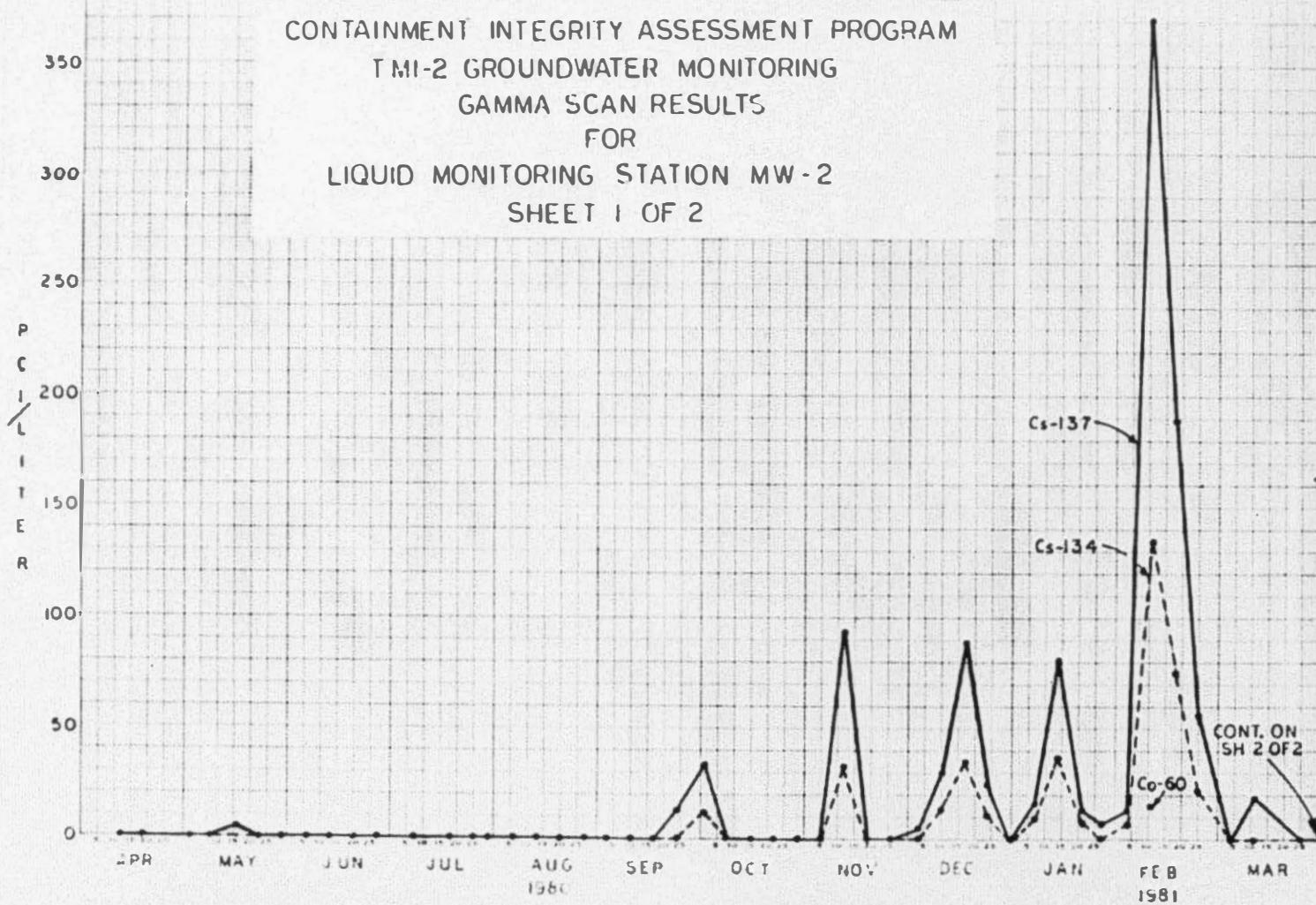


FIGURE 3, PAGE 1

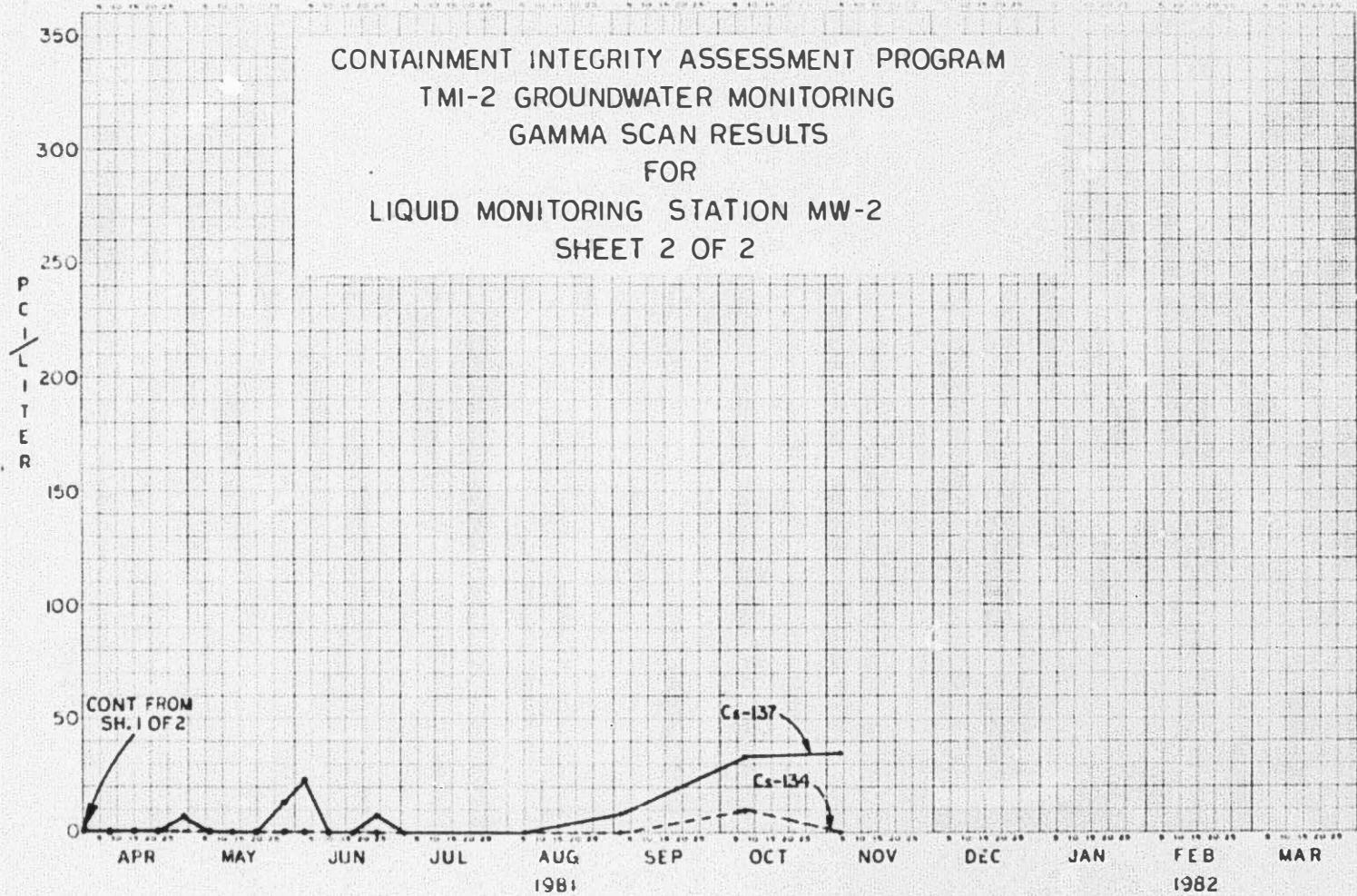
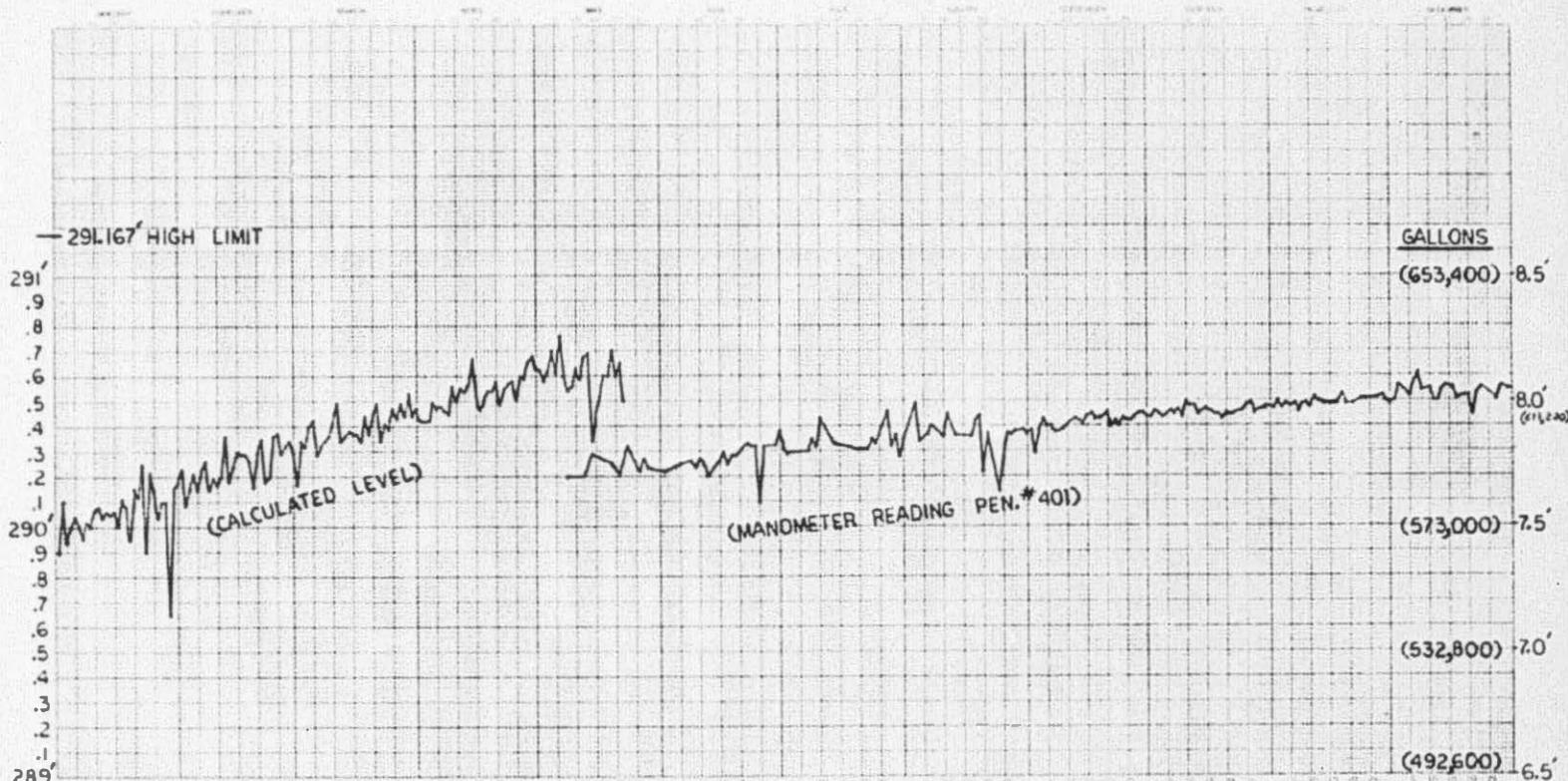


FIGURE 3, PAGE 2

TMI UNIT 2 REACTOR BUILDING SUMP LEVEL (1980)

47-2810



6,200 GAL/IN. UP TO 5.0'  
6,700 GAL/IN. BEYOND 5.0 OR 80-10 GAL/IN.

FIGURE 4, PAGE 1

J.A. Smith  
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## TMI UNIT #2 REACTOR BUILDING SUMP LEVEL (981)

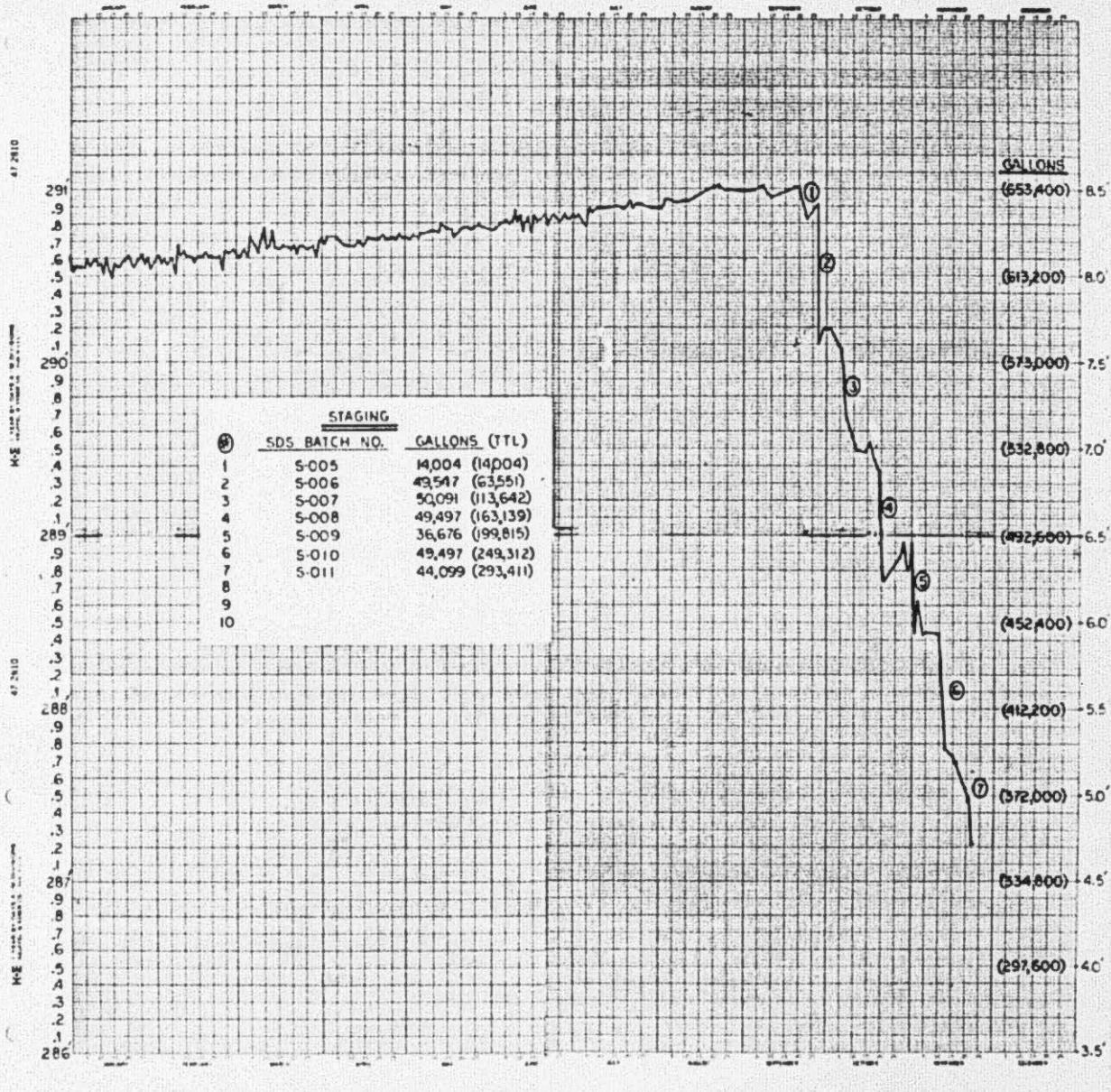


FIGURE 4, PAGE 2

CPU ENVIRONMENTAL CONTROLS GROUP  
CESIUM-137 CONCENTRATION (PCU/L)

DATE	M.V. 1	M.V. 2	M.V. 3	M.V. 4	M.V. 5	M.V. 6	M.V. 7	M.V. 8
OF SAMPLE	CS-137							
February 25, 1981								
March 28, 1981								
April 2, 1981								
April 2, 1981								
April 9, 1981								
April 11, 1981								
April 12, 1981			12.2	7				
April 13, 1981								
April 14, 1981								
April 15, 1981								
April 16, 1981								
April 17, 1981								
April 18, 1981								
April 19, 1981								
May 2, 1981								
May 8, 1981								
May 16, 1981		0.10	4.87					
May 23, 1981								
May 30, 1981	0.52	4.40						
June 6, 1981								
June 13, 1981								
June 20, 1981								
June 27, 1981								
July 7, 1981								
July 18, 1981								

TABLE 1, PAGE 2

G.C. ENVIRONMENTAL CONTROL GROUP	
CERIUM-137 CONCENTRATION (PCU)	
July 25, 1980	1.1
July 26, 1980	1.1
August 6, 1980	1.1
August 12, 1980	1.1
August 20, 1980	1.1
August 27, 1980	1.1
September 3, 1980	1.1
September 10, 1980	1.1
September 17, 1980	1.1
September 24, 1980	1.1
October 1, 1980	1.1
October 8, 1980	1.1
October 15, 1980	1.1
October 22, 1980	1.1
October 29, 1980	1.1
November 5, 1980	1.1
November 12, 1980	1.1
November 19, 1980	1.1
November 26, 1980	1.1
December 3, 1980	1.1
December 10, 1980	1.1
December 17, 1980	1.1
December 24, 1980	1.1
December 31, 1980	1.1
January 7, 1981	1.1
January 14, 1981	1.1
January 21, 1981	1.1
January 28, 1981	1.1
February 4, 1981	1.1
February 11, 1981	1.1
February 18, 1981	1.1
February 25, 1981	1.1
March 4, 1981	1.1
March 11, 1981	1.1
March 18, 1981	1.1
March 25, 1981	1.1
April 1, 1981	1.1
April 8, 1981	1.1
April 15, 1981	1.1
April 22, 1981	1.1
April 29, 1981	1.1
May 6, 1981	1.1
May 13, 1981	1.1
May 20, 1981	1.1
May 27, 1981	1.1
June 3, 1981	1.1
June 10, 1981	1.1
June 17, 1981	1.1
June 24, 1981	1.1
July 1, 1981	1.1
July 8, 1981	1.1
July 15, 1981	1.1
July 22, 1981	1.1
July 29, 1981	1.1
August 5, 1981	1.1
August 12, 1981	1.1
August 19, 1981	1.1
August 26, 1981	1.1
September 2, 1981	1.1
September 9, 1981	1.1
September 16, 1981	1.1
September 23, 1981	1.1
September 30, 1981	1.1
October 7, 1981	1.1
October 14, 1981	1.1
October 21, 1981	1.1
October 28, 1981	1.1
November 4, 1981	1.1
November 11, 1981	1.1
November 18, 1981	1.1
November 25, 1981	1.1
December 2, 1981	1.1
December 9, 1981	1.1
December 16, 1981	1.1
December 23, 1981	1.1
December 30, 1981	1.1
January 6, 1982	1.1
January 13, 1982	1.1
January 20, 1982	1.1
January 27, 1982	1.1
February 3, 1982	1.1
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February 17, 1982	1.1
February 24, 1982	1.1
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March 24, 1982	1.1
April 7, 1982	1.1
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May 5, 1982	1.1
May 12, 1982	1.1
May 19, 1982	1.1
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June 2, 1982	1.1
June 9, 1982	1.1
June 16, 1982	1.1
June 23, 1982	1.1
July 7, 1982	1.1
July 14, 1982	1.1
July 21, 1982	1.1
July 28, 1982	1.1
August 4, 1982	1.1
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May 4, 1983	1.1
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June 8, 1983	1.1
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June 29, 1983	1.1
July 6, 1983	1.1
July 13, 1983	1.1
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May 4, 1984	1.1
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June 1, 1984	1.1
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June 29, 1984	1.1
July 6, 1984	1.1
July 13, 1984	1.1
July 20, 1984	1.1
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March 2, 1985	1.1
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March 30, 1985	1.1
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June 1, 1985	1.1
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July 13, 1985	1.1
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September 22, 1986	1.1
September 29, 1986	1.1
October 6, 1986	1.1
October 13, 1986	1.1
October 20, 1986	1.1
October 27, 1986	1.1
November 3, 1986	1.1
November 10, 1986	1.1
November 17, 1986	1.1
November 24, 1986	1.1
December 1, 1986	1.1
December 8, 1986	1.1
December 15, 1986	1.1
December 22, 1986	1.1
December 29, 1986	1.1
January 5, 1987	1.1
January 12, 1987	1.1
January 19, 1987	1.1
January 26, 1987	1.1
February 2, 1987	1.1
February 9, 1987	1.1
February 16, 1987	1.1
February 23, 1987	1.1
March 2, 1987	1.1
March 9, 1987	1.1
March 16, 1987	1.1
March 23, 1987	1.1
March 30, 1987	1.1
April 6, 1987	1.1
April 13, 1987	1.1
April 20, 1987	1.1
April 27, 1987	1.1
May 4, 1987	1.1
May 11, 1987	1.1
May 18, 1987	1.1
May 25, 1987	1.1
June 1, 1987	1.1
June 8, 1987	1.1
June 15, 1987	1.1
June 22, 1987	1.1
June 29, 1987	1.1
July 6, 1987	1.1
July 13, 1987	1.1
July 20, 1987	1.1
July 27, 1987	1.1
August 3, 1987	1.1
August 10, 1987	1.1
August 17, 1987	1.1
August 24, 1987	1.1
September 1, 1987	1.1
September 8, 1987	1.1
September 15, 1987	1.1
September 22, 1987	1.1
September 29, 1987	1.1
October 6, 1987	1.1
October 13, 1987	1.1
October 20, 1987	1.1
October 27, 1987	1.1
November 3, 1987	1.1
November 10, 1987	1.1
November 17, 1987	1.1
November 24, 1987	1.1
December 1, 1987	1.1
December 8, 1987	1.1
December 15, 1987	1.1
December 22, 1987	1.1
December 29, 1987	1.1
January 5, 1988	1.1
January 12, 1988	1.1
January 19, 1988	1.1
January 26, 1988	1.1
February 2, 1988	1.1
February 9, 1988	1.1
February 16, 1988	1.1
February 23, 1988	1.1
March 2, 1988	1.1
March 9, 1988	1.1
March 16, 1988	1.1
March 23, 1988	1.1
March 30, 1988	1.1
April 6, 1988	1.1
April 13, 1988	1.1
April 20, 1988	1.1
April 27, 1988	1.1
May 4, 1988	1.1
May 11, 1988	1.1
May 18, 1988	1.1
May 25, 1988	1.1
June 1, 1988	1.1
June 8, 1988	1.1
June 15, 1988	1.1
June 22, 1988	1.1
June 29, 1988	1.1
July 6, 1988	1.1
July 13, 1988	1.1
July 20, 1988	1.1
July 27, 1988	1.1
August 3, 1988	1.1
August 10, 1988	1.1
August 17, 1988	1.1
August 24, 1988	1.1
September 1, 1988	1.1
September 8, 1988	1.1
September 15, 1988	1.1
September 22, 1988	1.1
September 29, 1988	1.1
October 6, 1988	1.1
October 13, 1988	1.1
October 20, 1988	1.1
October 27, 1988	1.1
November 3, 1988	1.1
November 10, 1988	1.1
November 17, 1988	1.1
November 24, 1988	1.1
December 1, 1988	1.1
December 8, 1988	1.1
December 15, 1988	1.1
December 22, 1988	1.1
December 29, 1988	1.1
January 5, 1989	1.1
January 12, 1989	1.1
January 19, 1989	1.1
January 26, 1989	1.1
February 2, 1989	1.1
February 9, 1989	1.1
February 16, 1989	1.1
February 23, 1989	1.1
March 2, 1989	1.1
March 9, 1989	1.1
March 16, 1989	1.1
March 23, 1989	1.1
March 30, 1989	1.1
April 6,	

DATE	GPU ENVIRONMENTAL CONTROLS GROUP CESIUM-137 CONCENTRATION (PCU/L)							
	M.V. 1	M.V. 2	M.V. 3	M.V. 4	M.V. 5	M.V. 6	M.V. 7	M.V. 8
DF SAMPLE	CS-137	CS-137	CS-137	CS-137	CS-137	CS-137	CS-137	CS-137
January 14, 1981		81.4	7.8					
January 21, 1981		13.7	4.5					
January 29, 1981		7.7	4.36					
February 4, 1981		12.7	3.0					
February 11, 1981		371	37					
February 18, 1981		180	16.0					
February 25, 1981		58.2	6.8					
March 4, 1981		<						
March 11, 1981		10.5	4.5					
March 18, 1981		NO SAMPLE						
March 25, 1981		<						
April 1, 1981		<						
April 8, 1981		<						
April 15, 1981		<						
April 22, 1981		<						
April 29, 1981		7.68	4.43					
May 6, 1981		<						
May 13, 1981		<						
May 20, 1981		<						
May 28, 1981		12.87	4.11					
June 3, 1981		22.4	4.3					
June 10, 1981		<						
June 17, 1981		<						
June 24, 1981		7.68	3.73					
July 1, 1981		<						

REPORT NO. 28

DATE, December 7, 1981

CPU ENVIRONMENTAL CONTROLS GROUP  
CERIUM-137 CONCENTRATION (PPM/L)

DATE	M.V. 1	M.V. 2	M.V. 3	M.V. 4	M.V. 5	M.V. 6	M.V. 7	M.V. 8
OF SAMPLE	CE-137							
August 5, 1981								
September 2, 1981		0.12	4.41		0.43	4.43		
October 7, 1981		33	7.1					
November 4, 1981		35	0.1					

## OBU ENVIRONMENTAL CONTROLS GROUP

CC-TU-134 CONCENTRATION (PC/L)

DATE	N.U.	N.U.	N.U.	A.U.
OF SAMPLE				
NUMBER	CG-134	✓/✓/ CG-134	✓/✓/ CG-134	✓/✓/ CG-134
AMOUNT	8000	8000	8000	8000
UNITS	8000	8000	8000	8000
February 25, 1980				
March 28, 1980				
April 2, 1980				
April 8, 1980				
April 9, 1980				
April 11, 1980				
April 12, 1980				
April 13, 1980				
April 14, 1980				
April 15, 1980				
April 16, 1980				
April 17, 1980				
April 18, 1980				
April 19, 1980				
May 2, 1980				
May 8, 1980				
May 16, 1980				
May 23, 1980				
May 30, 1980				
June 6, 1980				
June 13, 1980				
June 20, 1980				
June 27, 1980				
July 4, 1980				
July 11, 1980				
July 7, 1980				

## OPJ ENVIRONMENTAL CONTRACT GROUP

CCLM-124 CONCENTRATION (PPV)

X	DATE	N.U.	N.U.	N.U.	N.U.	N.U.
X	OF SAMPLE	C5-124	C5-124	C5-124	C5-124	C5-124
X	STATION	Barney	Kudu	Barney	Kudu	Kudu
X	TIME	0000	0000	0000	0000	0000
X	July 26, 1980					
X	July 26, 1980					
X	August 6, 1980					
X	August 13, 1980					
X	August 20, 1980					
X	August 27, 1980					
X	September 3, 1980					
X	September 10, 1980					
X	September 17, 1980					
X	September 24, 1980					
X	October 1, 1980			12.3	5.5	
X	October 8, 1980					
X	October 15, 1980					
X	October 22, 1980					
X	October 29, 1980					
X	November 5, 1980					
X	November 12, 1980			13	6.9	
X	November 19, 1980					
X	November 26, 1980					
X	December 3, 1980					
X	December 10, 1980			18.0	6.2	
X	December 17, 1980			35	4.0	
X	December 24, 1980			16.8	3.9	
X	December 31, 1980					
X	January 7, 1981			7.6	4.2	

CPU ENVIRONMENTAL CONTROLS GROUP  
CESIUM-134 CONCENTRATION (PCU/L)

DATE OF SAMPLE	M.V. 1 CS-134	M.V. 2 CS-134	M.V. 3 CS-134	M.V. 4 CS-134	M.V. 5 CS-134	M.V. 6 CS-134	M.V. 7 CS-134	M.V. 8 CS-134
January 14, 1981	38.6	3						
January 21, 1981		7.71	3.62					
January 28, 1981		4						
February 4, 1981		6.2	3.67					
February 11, 1981		134	13					
February 18, 1981		75.0	7.6					
February 25, 1981		21.8	4.1					
March 4, 1981		<						
March 11, 1981		<						
March 18, 1981		NO SAMPLE						
March 25, 1981		<						
April 1, 1981		<						
April 8, 1981		<						
April 15, 1981		<						
April 22, 1981		<						
April 29, 1981		<						
May 6, 1981		<						
May 13, 1981		<						
May 20, 1981		<						
May 28, 1981		<						
June 3, 1981		<						
June 10, 1981		<						
June 17, 1981		<						
June 24, 1981		<						
July 1, 1981		<						

REPORT NO. 26

DATE, December 7, 1981

CPU ENVIRONMENTAL CONTROLS GROUP  
CEBILF-134 CONCENTRATION (PCU/L)

DATE	N.V. 1	N.V. 2	N.V. 3	N.V. 4	N.V. 5	N.V. 6	N.V. 7	N.V. 8				
OF SAMPLE	CE-134	/-/-	CE-134	/-/-	CE-134	/-/-	CE-134	/-/-	CE-134	/-/-	CE-134	/-/-
August 8, 1981												
September 2, 1981												
October 7, 1981		0.7	3.6									
November 4, 1981												

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