

CMHC KITCHENER TOWNHOUSE
STUDY OF SUB-SLAB
VENTING TECHNOLOGY
PHASE II

Appendix A
METHANE SPOTCHECKS IN AMBIENT
AND SUB-SLAB FLOOR SPACES

Prepared for:
THE RESEARCH DIVISION
CANADA MORTGAGE AND HOUSING CORPORATION

Prepared by:
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Waterloo, Ontario

July 1990

Appendix A

**METHANE SPOTCHECKS IN AMBIENT
AND SUB-SLAB FLOOR SPACES**

METHANE SPOTCHECKS

METHANE CONCENTRATIONS (ppm)

Feb.5.6 Feb.13.14 Feb.19 Mar.1 Mar.13.14 Mar.21 Mar.27 Mar.30 Apr.5.6 Apr.9 Apr.20.23.24 Apr.26/27 May.2.3 May.9 May.19 May.22 May.28 May.29 May.30 June.7
(15:00) (20:30)

UNIT#	Feb.5.6	Feb.13.14	Feb.19	Mar.1	Mar.13.14	Mar.21	Mar.27	Mar.30	Apr.5.6	Apr.9	Apr.20.23.24	Apr.26/27	May.2.3	May.9	May.19	May.22	May.28	May.29	May.30	June.7
UNIT#1 Ambient	1	3	2	5	8	2	4	1	2	1	1	1	3	1						
A	1	2	2	3	3	3	3	3	2	2	0	2	2	2						
B	1	2	2	3	3	3	3	3	2	2	0	0	0	2						
C	1	2	2	4	4	3	3	3	2	2	0	0	3	3						
UNIT#2 Ambient	26	24	22	24	42	15	16	12	14	5	1	1	3	1						
A	20	26	6	9	7	9	7	2	0	2	0	2	2	2						
B	24	20	3	6	6	6	12	8	3	1	1	1	2	2						
C	24	14	2	16	16	10	10	3	1	2	2	2	2	2						
UNIT#3 Ambient	4	4	3	3	7	1	3	2	2	1	1	2	3	2						
A	2	3	3	5	5	2	2	2	2	1	1	2	2	2						
B	2	3	3	5	5	3	3	3	2	2	1	2	2	2						
C	2	3	3	7	7	2	2	2	2	2	1	3	3	2						
UNIT#4 Ambient	3	3	3	3	8	3	2	3	2	1	2	3	4	3						
A	3	3	3	8	8	2	2	2	2	1	1	3	4	3						
B	3	3	3	7	7	2	2	2	3	1	1	4	4	4						
C	3	3	3	7	7	2	2	2	2	2	1	4	4	4						
UNIT#5 Ambient	3	1	3	2	9	2	3	2	2	1	1	3	4	4						
A	2	2	2	7	3	3	3	3	2	1	1	3	4	4						
B	2	1	3	3	3	3	3	3	2	2	1	3	3	3						
C	3	1	3	3	8	3	3	3	2	2	1	3	3	3						
UNIT#6 Ambient	9	4	5	3	22	5	7	6	6	4	8	8	7	9						
A	7	3	3	5	5	7	7	6	6	4	8	8	4	4						
B	6	3	3	6	6	4	4	4	2	2	6	6	3	3						
UNIT#7 Ambient	5	1	3	2	8	2	3	2	2	1	3	3	3	3						
A	2	1	1	7	7	3	3	3	2	1	22	2	3	2						
B	88	100	180	>1000.0	18	24	18	24	18	600	120	40	120	2						
C	600	100	920	>1000.0	14	18	12	50	780	660	900	900	3	3						
UNIT#8 Ambient	3	1	3	2	8	2	3	3	3	1	1	2	3	3						
A	2	1	1	7	7	3	3	3	2	2	1	2	2	2						
B	3	1	1	8	8	3	3	3	3	3	3	3	5	5						
C	3	1	1	7	7	3	3	3	2	2	1	3	3	3						
UNIT#9 Ambient	4	1	2	2	6	2	3	2	3	1	1	2	3	2						
A	2	1	3	3	3	3	3	3	2	1	1	2	2	2						
B	3	1	3	3	3	3	3	3	2	2	1	2	2	2						
C	2	1	3	5	5	3	3	3	3	3	1	3	3	3						
UNIT#10 Ambient	5	1	3	3	9	3	4	3	3	3	2	4	5	5						
A	4	1	6	6	6	3	3	3	1	1	3	3	3	3						
B	3	1	6	6	6	4	4	4	3	3	3	2	2	2						
C	3	1	6	6	6	4	4	4	3	3	3	3	4	4						
UNIT#11 Ambient	5	2	2	3	8	4	4	3	3	1	1	3	4	2						
A	3	1	5	5	5	3	3	2	2	2	2	2	2	2						
B	3	1	4	4	4	4	4	3	3	3	3	3	3	3						
C	4	1	6	6	6	3	3	3	3	3	3	3	3	3						

		METHANE SPOTCHECKS																			
		METHANE CONCENTRATIONS (ppm)																			
		Feb.5,6	Feb.13,14	Feb.19	Mar.1	Mar.13,14	Mar.21	Mar.27	Mar.30	Apr.5,6	Apr.9	Apr.20,23,24	Apr.26,27	May.2,3	May.9	May.19	May.22	May.28	May.28	May.30	June 7
																			(15:00)	(20:30)	
UNIT#12	Ambient	3	1	3	3	5	2	3	1	2	2	1	2	3	2						
	A	2	1	1	4	4	3	3	1	1	0	1	1	3							
	B	2	1	1	4	4	3	3	1	1	1	1	1	2							
	C	2	1	1	5	5	3	3	2	2	1	1	1	3							
UNIT#13	Ambient	4	3	3	3	8	3	4	3	3	2	1	4	4	3						
	A	2	1	1	2	2	4	4	3	3	1	1	2	2							
	B	2	1	1	4	4	3	4	3	1	2	2	2	2							
	C	2	1	1	3	3	4	4	3	1	1	1	3	3							
UNIT#14	Ambient	3	1	2	2	6	1	3	1	2	1	1	2	3	1						
	A	3	1	1	4	4	2	2	1	1	1	1	2	2							
	B	3	1	1	3	3	2	3	2	2	2	2	2	2							
	C	3	1	1	3	3	2	2	2	2	2	2	2	2							
UNIT#15	Ambient	4	1	2	2	4	2	3	2	2	1	1	2	3	2						
	A	3	1	1	1	1	3	3	2	2	1	1	2	2							
	B	3	1	1	0	0	3	3	2	2	1	1	2	2							
	C	3	1	1	0	0	3	3	2	2	1	1	2	2							
UNIT#16	Ambient	5	2	3	2	4	2	4	2	2	1	2	3	3	2						
	A	4	1	1	0	0	4	4	2	2	1	2	2	2							
	B	4	1	1	0	0	3	3	2	2	1	2	2	2							
	C	5	1	1	0	0	3	3	2	2	1	2	2	2							
UNIT#17	Ambient	3	1	2	3	4	3	3	2	2	1	2	2	3	2						
	A	2	1	1	0	0	3	3	2	2	1	2	2	2							
	B	2	0	0	0	0	3	3	2	2	1	2	2	2							
	C	2	1	1	0	0	3	3	2	2	1	2	2	2							
UNIT#18	Ambient	5	3	4	2	5	3	4	3	3	2	2	3	4	3						
	A	5	1	1	1	1	3	3	3	3	2	2	3	3							
	B	5	1	1	0	0	4	4	2	2	1	3	3	2							
	C	5	1	1	3	3	4	4	2	2	1	2	2	4							
UNIT#19	Ambient	1	3	3	3	10	3	4	3	3	2	1	4	4	3						
	A	1	3	3	7	7	4	4	2	2	1	2	1	2							
	B	1	3	3	4	4	4	4	3	3	1	1	1	2							
	C	1	3	3	6	6	3	3	3	3	1	1	1	2							
UNIT#20	Ambient	1	3	2	3	12	5	4	5	3	3	3	8	5	6						
	A	1	3	4	4	12	4	4	3	4	3	4	5	2	4						
	B	1	3	0	0	4	4	4	2	2	5	5	5	2	2						
	C	1	3	4	4	12	4	4	3	4	4	4	7	2	3						
UNIT#21	Ambient	4	5	4	2	16	6	3	6	5	4	6	9	7	7						
	A	2	4	4	5	5	3	4	4	0	5	2	5	2							
	B	2	4	4	5	5	1	3	3	0	4	4	4	2							
	C	3	4	4	8	8	2	3	2	3	1	4	3	3							
UNIT#22	Ambient	1	2	2	2	8	2	1	2	2	1	1	3	2	2						
	A	1	2	2	0	6	0	0	1	1	1	1	1	1							
	B	1	2	2	0	2	0	0	2	2	1	1	2	2							
	C	1	2	2	0	7	0	0	2	2	1	1	2	2							
UNIT#23	Ambient	1	3	3	3	7	3	1	3	2	2	1	5	5	3						
	A	1	3	4	4	4	2	2	1	2	1	2	2	2							
	B	0	2	2	4	4	1	1	2	2	2	2	2	2							
	C	1	2	2	5	5	1	1	2	2	1	2	2	2							

		METHANE SPOTCHECKS																							
		METHANE CONCENTRATIONS (ppm)																							
		Feb.5.6	Feb.13.14	Feb.19	Mar.1	Mar.13.14	Mar.21	Mar.27	Mar.30	Apr.5.6	Apr.9	Apr.20.23.24	Apr.20.27	May.2.3	May.9	May.19	May.22	May.28	May.28	May.29	May.30	June.7			
																		(15:00)	(20:30)						
UNIT#36	Ambient	9	2	3	2	3	1	3	2	2	2	1	1	3	3	2									
	A	7	1	1	2	2	1	2	1	1	1	1	1	3	3										
	B	7	1	1	0	2	1	2	1	1	1	1	1	5	5										
	C	8	0	0	0	2	1	2	1	2	1	2	140												
UNIT#37	Ambient	8	2	4	2	14	7	4	3	6	6	12	12	9	8	6	3	6	4	2	1	3			
	A	8	1	1	3	10	3	3	1	1	12	9	9	9	8	3	4	5	3	2	1	1			
	B	8	1	1	6	6	2	2	1	1	18	10	10	10	3	4	4	4	2	3	1	4			
	C	7	0	0	0	0	2	2	1	1	9	9	10	10	10	6	6	600	3	120	45				
UNIT#38	Ambient	6	1	3	2	10	2	4	3	3	2	12	4	5	2	3	4	5	3	2	1	4			
	A	6	0	0	10	4	4	4	3	2	10	4	5	5	4	4	4	4							
	B	6	1	1	12	4	4	4	2	2	11	4	4	4	4	4	4	4	2	2	1	4			
	C	6	1	1	9	9	2	940	1	1300	840	1300	840	840	2100	7000	2950	460	860						
UNIT#39	Ambient	4	1	3	2	4	2	4	3	2	2	12	3	4	2	3	3	4	3	2	1	3			
	A	3	1	1	3	3	3	2	2	2	11	5	5	5	4	2	3	4	3	2	1				
	B	3	1	1	3	3	3	3	2	2	64	18	18	18	190	18	82								
	C	3	1	1	3	3	3	3	2	2	260	14	14	14	500	22	150								
UNIT#40	Ambient	3	1	3	2	3	2	4	3	2	1	9	3	5	2	2	3	3	3	2	1	3			
	A	2	1	1	2	2	1	2	1	1	8	3	4	4	4	2	2	2	2	2	1				
	B	3	1	1	3	3	3	3	2	2	9	3	4	4	4	3	3	3	3	3	2	1			
	C	2	1	1	0	0	2	1	1	1	300	3	650	1900	2550	2600	480	700							
UNIT#41	Ambient	4	2	5	2	6	5	6	8	5	4	12	5	5	2	3	5	5	3	3	2	3			
	A	4	2	2	6	5	6	6	6	5	4	12	5	5	2	3	5	5	3	3	2	3			
	B	4	2	2	6	5	6	6	6	5	4	12	5	5	2	3	5	5	3	3	2	3			
	C	4	1	1	6	5	5	4	4	4	10	6	3	3	3	3	3	3	3	3	2	3			
UNIT#42	Ambient	2	1	3	2	3	3	3	2	2	1	12	4	4	2	2	3	2	2	2	1	2			
	A	2	1	1	2	2	1	2	1	1	8	4	4	4	2	2	2	2	2	2	1	2			
	B	2	1	1	3	3	3	2	2	2	8	4	4	4	2	2	2	2	2	2	1	2			
	C	2	1	1	0	0	2	1	1	1	8	4	4	4	2	2	2	2	2	2	1	2			
UNIT#43	Ambient	1	1	2	2	2	2	3	2	2	1	12	7	6	3	2	4	2	4	2	1	2			
	A	1	1	1	0	0	2	2	0	0	12	6	6	6	6	6	6	6	6	6	6	6			
	B	1	1	1	0	0	2	2	0	0	7	4	4	4	4	4	4	4	4	4	4	4			
	C	1	1	1	0	0	2	2	1	1	12	6	6	6	6	6	6	6	6	6	6	6			
UNIT#44	Ambient	2	1	4	2	3	4	4	3	4	3	18	9	6	3	2									
	A	1	2	2	2	2	2	2	2	2	1	1	2	2	2										
	B	1	1	1	3	3	3	3	3	3	14	8	8	8	8										
	C	1	1	1	2	2	2	2	2	2	1	2	2	2	2										
UNIT#45	Ambient	2	3	4	1	4	4	4	4	4	5	4	12	11	5	5	2								
	A	1	3	3	3	3	2	2	2	2	0	0	0	0	2	2									
	B	1	2	2	1	2	2	2	2	2	0	0	0	0	2	2									
	C	1	3	3	3	3	2	2	2	2	0	0	0	0	2	2									
	D	1	1	3	2	3	2	2	2	2	0	0	0	0	2	2									
UNIT#46	Ambient	1	1	2	1	1	2	3	2	3	1	18	8	3	3										
	A	1	0	1	1	1	2	2	2	2	2	2	2	2	2										
	B	1	1	1	1	1	2	2	2	2	0	0	0	0	2	2									
	C	1	0	0	0	0	2	2	2	2	0	0	0	0	2	2									
	D	1	1	1	1	1	2	2	2	2	0	0	0	0	2	2									

		METHANE SPOTCHECKS																					
		METHANE CONCENTRATIONS (ppm)																					
		Feb.5.6	Feb.13.14	Feb.19	Mar.1	Mar.13.14	Mar.21	Mar.27	Mar.30	Apr.5.6	Apr.9	Apr.20.23.24	Apr.26.27	May.2.3	May.9	May.19	May.22	May.28	May.28	May.29	May.30	June 7	
																		(15:00)	(15:00)	(20:30)			
UNIT#67	Ambient	1	1	2	2	8	3	3	3	2	1	2	4	3	2								
	A	1	1	2	2	6	1	1	1	0	2	2	2	2	2								
	B	1	1	8	0	8	0	0	0	0	0	1	8	2	2								
	C	0	1	5	1	5	1	1	1	0	2	2	1	1	1								
	D	1	1	7	0	7	0	0	0	0	1	1	2	2	2								
UNIT#68	Ambient	1	1	2	3	7	1	2	3	2	1	1	3	3	1								
	A	1	1	3	0	3	0	1	1	1	2	2	2	2	2								
	B	1	1	6	1	6	1	1	1	1	1	1	1	2	2								
	C	1	1	7	1	7	1	2	2	2	2	2	2	2	2								
	D	1	1	7	0	7	0	1	1	1	1	1	2	2	2								
UNIT#69	Ambient	1	1	2	4	6	2	1	4	3	2	2	4	3	1								
	A	1	1	4	1	4	1	2	2	12	2	2	2	2	2								
	B	2	1	3	0	3	0	1	1	2	2	2	2	2	2								
	C	1	1	5	0	5	0	1	1	3	3	3	3	3	3								
UNIT#70	Ambient	1	1	2	2	7	2	2	3	2	2	1	4	3	1								
	A	48	1	2	0	2	0	1	0	1	0	1	3	1	0								
	B	1	1	8	0	8	0	1	1	1	1	0	4	2	0								
	C	1	1	10	1	10	1	1	1	2	2	3	2	2	1								
	D	1	1	6	0	6	0	2	2	2	2	4	1	0	0								
UNIT#71	Ambient	120	3	18	550	6	520	7	900	280	1600	14	6	2	4								
	A	>1000	5	>1000	4	18	18	220000	520000	66	>1000	66	>1000	66	>1000								
	B	>1000	2	20	22	120	11	410000	120000	42	8	42	8	8	8								
	C	135	2	16	2	1	140	30	2150	3	6	3	6	6	6								
UNIT#72	Ambient	18	5	2	2	11	100	2	440	18	28	3	260	4	2								
	A	>1000	120	3	11	48	2	6	48	6	12	6	12	6	6								
	B	>1000	5	2	9	160	1	2	2	2	2	2	2	2	2								
	C	18	11	3	8	3	1	3	3	3	3	3	3	3	3								
UNIT#73	Ambient	8	7	2	2	10	12	1	94	9	7	4	22	3	2								
	A	9	>1000	1	5	0	0	4	1400	4	4	4	4	4	4								
	B	8	300	3	12	1	1	9	3	3	3	3	3	3	3								
	C	10	8	3	8	1	1	8	4	4	4	4	4	4	4								
UNIT#74	Ambient	5	16	2	2	7	2	2	120	3	3	2	12	2	2								
	A	6	>1000	2	7	1	1	5	2	2	2	2	2	2	2								
	B	8	20	2	5	20	1	1	20	1	1	1	1	1	1								
	C	6	12	2	5	1	1	60	2	2	2	2	2	2	2								
UNIT#75	Ambient	1	3	3	2	14	4	4	5	4	3	3	6	5	6								
	A	1	3	1	1	1	3	3	3	3	3	3	3	3	3								
	B	1	1	16	1	16	4	3	3	3	3	3	3	3	3								
	C	1	2	14	3	14	3	3	3	3	3	3	3	3	3								
	D	2	2	3	2	3	2	4	4	4	4	4	4	4	4								
UNIT#76	Ambient	1	1	2	2	11	2	2	2	2	1	2	3	3	3								
	A	0	0	3	3	3	3	3	3	3	3	3	3	3	3								
	B	0	0	17	0	17	3	3	3	3	3	3	3	3	3								
	C	0	0	7	2	7	2	2	2	2	2	2	2	2	2								
UNIT#77	Ambient	1	1	2	3	9	3	2	3	3	2	3	7	5	7								
	A	1	0	1	1	1	1	2	3	3	3	4	4	2	2								
	B	1	0	1	1	1	1	2	3	3	3	3	3	3	3								

Appendix B
SUB-SLAB PRESSURES

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.8	Apr.23	May 3	May 29
UNIT#1	A			-7	-5			
	B			-4	-3			
	C			-2	-2			
UNIT#2	A			-9	-11			
	B			-4	-4			
	C			-2	-2			
UNIT#3	A			-14	-18			
	B			-6	-7			
	C			-6	-5			
UNIT#4	A			-11	-15			
	B			-7	-12			
	C			-9	-10			
UNIT#5	A			-11	-15			
	B			-9	-12			
	C			-5	-6			
UNIT#6	A			-12	-16			
	B			-10	-14			
	C			-6	0			
UNIT#7	A			-1	-1			
	B			-1	-1			
	C			0	-0			
UNIT#8	A			-5	-4			
	B			-2	-1			
	C			-1	-1			
UNIT#9	A			-12	-11			
	B			-9	-7			
	C			-4	-3			
UNIT#10	A			-9	-4			
	B			-15	-12			
	C			-14	-11			
UNIT#11	A			-4	-2			
	B			-6	-4			
	C			-2	-2			
UNIT#12	A			-4	-2			
	B			-2	-3			
	C			-1	-2			
UNIT#13	A			-4	-3			
	B			-2	-2			
	C			-2	-1			
UNIT#14	A			-4	-1			
	B			-4	-3			
	C			-2	-2			
UNIT#15	A			-7	-5			
	B			-7	-5			
	C			-6	-4			
UNIT#16	A			-2	-3			
	B			-4	-4			
	C			-1	-1			

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.6	Apr.23	May 3	May 29
UNIT#17	A			-16	-10			
	B			-4	-2			
	C			-5	-3			
UNIT#18	A			-2	-4			
	B			-1	-1			
	C			-1	-1			
UNIT#19	A			-5	-3			
	B			-4	-3			
	C			-1	-1			
UNIT#20	A			-4	-2			
	B			-1	-1			
	C			-1	-0			
UNIT#21	A			-4	-4			
	B			-2	-2			
	C			-1	-1			
UNIT#22	A			-10	-8			
	B			-5	-4			
	C			-2	-2			
UNIT#23	A			-10	-6			
	B			-5	-4			
	C			-5	-4			
UNIT#24	A					-17	-18	
	B					-15	-15	
	C					-13	-14	
UNIT#25	A					-2	-2	
	B					-4	-3	
	C					-3	-3	
UNIT#26	A					-4	-4	
	B					-12	-13	
	C					-9	-10	
UNIT#27	A					-10	-9	
	B					-14	-12	
	C					-12	-11	
UNIT#28	A					-5	-4	
	B					-3	-3	
	C					-3	-3	
UNIT#29	A					-7	-6	
	B					-6	-6	
	C					-6	-5	
UNIT#30	A					-3	-4	
	B					-2	-4	
	C					-2	-3	
UNIT#31	A					-13	-12	
	B					-14	-13	
	C					-15	-14	
UNIT#32	A					-9	-14	
	B					-7	-12	
	C					-6	-10	

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.6	Apr.23	May 3	May 29
UNIT#33	A					-6	-7	
	B					-7	-7	
	C					-6	-6	
UNIT#34	A					-7	-8	
	B					-6	-6	
	C					-4	-5	
UNIT#35	A					-3	-3	
	B					-2	-1	
	C					-1	-1	
UNIT#36	A					-2	-2	
	B					-1	-1	
	C					-1	-1	
UNIT#37	A					-4	-7	-15
	B					-3	-5	-10
	C					-3	-4	-10
UNIT#38	A					-4	-4	-7
	B					-2	-2	-7
	C					-3	-4	-10
UNIT#39	A					-2	-3	-5
	B					-2	-4	-5
	C					-2	-4	-5
UNIT#40	A					-5	-6	-7
	B					-3	-4	-5
	C					-4	-5	-7
UNIT#41	A					-5	-5	-7
	B					-3	-2	-5
	C					-4	-3	-5
UNIT#42	A					-6	-7	-10
	B					-1	-1	-2
	C					-3	-3	-5
UNIT#43	A					-1	-2	-2
	B					-1	-1	-2
	C					-2	-1	-2
UNIT#44	A	-72	-64					
	B	-7	-5					
	C	-75	0					
UNIT#45	A	-7	-5					
	B	-7	-5					
	C	-6	-2					
	D	-21	-18					
UNIT#46	A	-12	-12					
	B	-9	-7					
	C	-4	-4					
	D	-19	-18					
UNIT#47	A	-30	-10					
	B	-15	-5					
	C	-11	-3					
	D	-35	0					

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.6	Apr.23	May 3	May 29
UNIT#48	A	-11	-4				-18	-24
	B	-4	-2				-6	-10
	C	-1	-2				-3	-5
UNIT#49	A	-2	-2					
	B	-2	-1					
	C	-1	-1					
	D	-31	-7					
UNIT#50	A	-22	-6					
	B	-19	-4					
	C	-19	-4					
	D	-44	-11					
UNIT#51	A	-7	-3					
	B	-7	-1					
	C	-6	-1					
	D	-25	-5					
UNIT#52	A	-4	-1					
	B	-26	-1					
	C	-19	-1					
	D	-6	-1					
UNIT#53	A	-7	-4					
	B	-9	-1					
	C	-4	-1					
	D	-15	-2					
UNIT#54	A	-14	-2					
	B	-11	-1					
	C	10	-8					
UNIT#55	A	-15	-3					
	B	-15	-3					
	C	-14	-2					
UNIT#56	A	-4	-1					
	B	-4	-2					
	C	-2	-1					
	D	-10	-2					
UNIT#57	A	-11	-9					
	B	-14	-8					
	C	-10	-6					
	D	-39	-26					
UNIT#58	A	-11	-10					
	B	-7	-7					
	C	-5	-4					
	D	-37	-26					
UNIT#59	A	-1	-3					
	B	-1	-2					
	C	0	-1					
	D	-6	-5					
UNIT#60	A			-14	-10			
	B			-16	-12			
	C			-16	-11			
	D			-45	-35			

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.6	Apr.23	May 3	May 29
UNIT#61	A			-6	-8			
	B			-5	-6			
	C			-4	-4			
	D			-9	-12			
UNIT#62	A			-14	-11			
	B			-11	-7			
	C			-9	-6			
UNIT#63	A			-10	-6			
	B			-2	-2			
	C			-2	-1			
UNIT#64	A			-4	-2			
	B			-2	-1			
	C			-1	-0			
UNIT#65	A	-1	-3					
	B	-1	-3					
	C	-1	-2					
	D	-2	-4					
UNIT#66	A	-1	-0					
	B	-5	-1					
	C	-1	0					
	D	-10	-7					
UNIT#67	A	-4	-2					
	B	-5	-2					
	C	-4	-1					
	D	-11	-6					
UNIT#68	A	-4	-3					
	B	-5	3					
	C	-4	-2					
	D	-10	-6					
UNIT#69	A	-7	-6					
	B	-7	-1					
	C	-16	-11					
UNIT#70	A	-6	-3					
	B	-1	-2					
	C	-1	-1					
	D	-11	-6					
UNIT#71	A	-36	-35				-28	
	B	-19	-16				-14	
	C	-25	-23				-21	
UNIT#72	A	-12	-8				-12	
	B	-20	-13				-14	
	C	-25	-19				-19	
UNIT#73	A	-15	-12				-7	
	B	-35	-24				-19	
	C	-39	-24				-21	
UNIT#74	A	-10	-8				-6	
	B	-5	-6				-3	
	C	-2	-1				-1	

SLAB PRESSURES								
(Pa)								
		Feb.13	Mar.1	Mar. 22	Apr.6	Apr.23	May 3	May 29
UNIT#75	A			-10	-7			
	B			-7	-5			
	C			-5	-4			
	D			-19	-16			
UNIT#76	A			-24	-21			
	B			-11	-8			
	C			-10	-7			
UNIT#77	A			-10	-8			
	B			-6	-6			
UNIT#78	A			-14	-11			
	B			-5	-4			
	C			-4	-2			
	D			-5	-4			
UNIT#79	A			-12	-10			
	B			-6	-4			
	C			-6	-3			
	D			-7	-7			
UNIT#80	A			-12	-4			
	B			-4	-4			
	C			-2	-2			
	D			0	-6			
UNIT#81	A			-6				
	B			-6				
	C			-4				
	D			-10				

Appendix C
DATA ON SOIL PROBES

SOIL PROBE DATA												
DATE:	Apr. 19, 1990		Apr. 25, 1990		May 4, 1990		May 11, 1990		May 29, 1990		May 30, 1990	
LOCATION:	Methane Conc.	Pressure inches of water	Methane Conc.	Pressure inches of water	Methane Conc.	Pressure inches of water	Methane Conc.	Pressure inches of water	Methane Conc.	Pressure inches of water	Methane Conc.	Pressure inches of water
M70F	2.2%LEL	-0.280	61%GAS	0.025	41%GAS	0.280	26%GAS	-0.420	65%GAS	-0.010	76%GAS	
M68R	64%GAS	0.036	80%GAS	0.075	76%GAS	0.176	75%GAS	0.000	69%GAS	0.060	74%GAS	
M52F	13%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	8.1%LEL	0.000	40%LEL	0.010	7.2%LEL	
M53S	51%GAS	0.011	51%GAS	0.000	50%GAS	0.041	52%GAS	0.000	50%GAS	0.010	47%GAS	
M45R	0.0%LEL	0.000	1.0%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	1.0%LEL	
M26F	0.0%LEL	-0.005	1.2%LEL	-0.010	1.7%LEL	-0.008	0.0%LEL	0.000	0.0%LEL	0.000	0.0%LEL	
M32R	4.2%LEL	-0.022	50%GAS	0.071	56%GAS	0.115	0.0%LEL	-0.020	48%GAS	0.060	50%GAS	
M34R	1.2%LEL	-0.102	6.0%LEL	0.000	0.0%LEL	-0.007	0.0%LEL	-0.020	0.0%LEL	0.000	1.0%LEL	
M42R	0.0%LEL	-0.025	67%LEL	-0.011	11%GAS	-0.018	0.0%LEL	0.000	85%LEL	-0.010	74%LEL	
M23F	3.0%LEL	0.010	2.3%LEL	0.000	1.5%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.010	0.5%LEL	
M23S	0.0%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	15%LEL	0.000	12%LEL	
M71F	32%GAS	0.000	61%GAS	0.059	50%GAS	0.087	36%GAS	-0.120	22%GAS	-0.030	19%GAS	
M56R	0.5%LEL	0.000	0.0%LEL	0.000	0.0%LEL	0.000	4.7%LEL	0.000	17%LEL	0.000	7.2%LEL	
M68F A			63%GAS	0.055	65%GAS	0.108	64%GAS	-0.120	60%GAS	0.000	59%GAS	
M68F B			37%GAS	0.000	45%GAS	0.013	44%GAS	-0.040	3.7%LEL	0.000	9.2%LEL	

Appendix D
EMISSION POINT DATA

EMISSION POINT DATA										
DATE:	Feb. 14, 1990	Feb. 20, 1990	Mar. 1, 1990	Mar. 12, 1990		Mar. 14, 1990	Feb. 20, 1990	Mar. 5, 1990	Apr. 9, 1990	
LOCATION:	Velocity I/s	Methane %L.E.L.	Velocity I/s	Methane %L.E.L.	Velocity I/s	Methane %L.E.L.	Velocity I/s	Methane %L.E.L.	Velocity I/s	Methane %L.E.L.
V71F	35	11	46	0	41	8.9	43	5.8		
V67F	35	0	46	0	39	0	34	6ppm		
V56F	34	0	48	0	29	0.3	42	20ppm		
V57F	30	0	29	0	26	0.4	30	6ppm		
V49F	45	0	43	0	28	0.4	42	3ppm		
V46F	49	0	45	0	68	0.4	40	3ppm		
DATE:	Mar. 21, 1990	Mar. 28, 1990	Apr. 5, 1990	Apr. 9, 1990						
LOCATION:	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM
V78F		2	31	2	38	2	35	3		
V77F		2	34	3	33	2	37	3		
V61F		2	>51	2	>51	2	>51	2		
V13F		2	41	1	49	3	38	3		
V18F		2	45	2	55	3	43	3		
V23F		3	41	2	43	3	41	5		
V10F		9	42	6	29	6	29	6		
V4F		5	51	4	29	4	24	3		
DATE:	Apr. 19, 1990	Apr. 23, 1990	May 2, 1990	May 10, 1990						
LOCATION:	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM	Velocity I/s	Methane PPM
V27F	28		40	3	35	3	4	37		
V31F			41	2	40	3	5	45		
V32F	42		73	80	61	28	100	71		
V39F	30		34	50	32	18		32		

Appendix E
NATURAL GAS CONSUMPTION DATA

GAS METER READINGS												
cubic ft x 1000												
UNIT#	Feb.6	Feb.14	Feb.23	Mar.2	Mar.14	Mar.26	Apr.6	Apr.12	Apr.20	Apr.27	May 4	May 11
1	4222	4233	4251	4268	4286	4297	4310	4318	4322	4323	4325	4327
2	1800	1812	1817	1823	1830	1834	1838	1840	1841	1841	1841	1841
3	3273	3283	3310	3335	3364	3378	3388	3393	3398	3400	3402	3404
4	6980	6991	6994	6996	6999	7002	7005	7008	7008	7010	7012	7014
5	1514	1518	1526	1536	1544	1549	1553	1555	1557	1559	1561	1563
6	5703	5712	5728	5743	5769	5770	5780	5785	5790	5791	5793	5794
7	6735	6747	6756	6776	6797	6811	6826	6838	6840	6842	6844	6846
8	8210	8223	8233	8243	8251	8256	8261	8263	8265	8266	8267	8269
9	8205	8214	8220	8236	8254	8265	8278	8285	8291	8293	8295	8297
10	1452	1463	1481	1500	1529	1533	1547	1554	1561	1562	1564	1565
11	9118	9123	9145	9166	9186	9202	9217	9225	9232	9234	9236	9238
12	5693	5698	5707	5718	5726	5731	5736	5738	5741	5743	5745	5747
13	3685	3672	3694	3715	3737	3755	3774	3783	3792	3794	3795	3797
14	2956	2956	2956	2956	2956	2956	2956	2956	2956	2956	2956	2956
15	461	472	491	510	539	542	556	563	570	572	574	576
16	7814	7822	7837	7853	7866	7876	7885	7890	7894	7895	7897	7899
17	2019	2030	2056	2082	2111	2134	2150	2172	2186	2188	2190	2193
18	5626	5637	5656	5676	5696	5713	5729	5736	5744	5746	5746	5749
19	9584	9591	9605	9619	9633	9641	9648	9652	9656	9657	9659	9661
20	956	962	968	974	983	992	1000	1004	1010	1015	1020	1025
21	2047	2061	2095	2131	2161	2179	2195	2203	2210	2216	2221	2228
22	7176	7184	7198	7213	7227	7237	7248	7253	7258	7260	7262	7264
23	675	686	713	740	778	793	821	834	847	850	852	854
24	3076	3085	3088	3090	3093	3096	3099	3101	3103	3104	3106	3109
25	2509	2518	2534	2552	2577	2577	2589	2595	2600	2602	2604	2606
26	4824	4834	4841	4858	4875	4888	4901	4908	4914	4918	4921	4925
27	3580	3590	3605	3620	3635	3645	3655	3660	3666	3668	3670	3672
28	2775	2788	2807	2826	2848	2861	2876	2883	2890	2892	2894	2895
29	4713	4722	4734	4748	4764	4774	4784	4790	4796	4802	4806	4811
30	2522	2531	2546	2561	2576	2585	2594	2599	2604	2605	2607	2609
31	5093	5103	5120	5137	5155	5165	5175	5181	5186	5188	5190	5192
32	6237	6248	6265	6282	6300	6312	6324	6331	6354	6356	6358	6360
33	8117	8126	8130	8145	8158	8166	8175	8180	8183	8185	8187	8189
34	5718	5722	5728	5736	5743	5746	5750	5752	5754	5756	5758	5760
35	2699	2709	2724	2749	2754	2764	2774	2779	2784	2786	2788	2790
36	2651	2658	2661	2684	2697	2705	2712	2716	2720	2722	2724	2725
37	3155	3161	3182	3203	3226	3242	3261	3270	3280	3282	3284	3286
38	4535	4541	4551	4562	4572	4577	4582	4585	4587	4589	4591	4593
39	2484	2493	2506	2520	2533	2540	2548	2552	2556	2558	2560	2561
40	2571	2580	2595	2610	2625	2635	2646	2651	2656	2658	2660	2662
41	2839	2846	2859	2872	2884	2891	2898	2902	2905	2907	2909	2911
42	9214	9228	9248	9266	9288	9304	9322	9331	9341	9343	9345	9347
43	4505	4514	4528	4544	4557	4565	4571	4574	4578	4579	4581	4583
44	9971	9987	10	33	56	73	92	101	110	112	114	116
45	6890	6898	6913	6926	6940	6948	6957	6961	6965	6967	6969	6971
46	5598	5610	5630	5650	5660	5670	5681	5696	5702	5703	5705	5706
47	459	469	485	501	516	525	535	539	544	546	547	549
48	7401	7409	7423	7436	7449	7456	7461	7464	7469	7469	7469	7469
49	1386	1398	1427	1436	1456	1468	1481	1487	1494	1496	1498	1499
50	8273	8281	8294	8307	8320	8327	8333	8337	8340	8342	8343	8345
51	6592	6602	6611	6639	6648	6659	6671	6673	6682	6684	6685	6687
52	4066	4074	4106	4128	4152	4168	4186	4194	4203	4205	4207	4209
53	387	398	405	423	449	450	462	467	474	476	477	479
54	7154	7162	7176	7189	7202	7210	7221	7225	7230	7232	7234	7235
55	9905	9914	9937	9941	9954	9959	9964	9967	9969	9972	9974	9974
56	2031	2043	2062	2081	2100	2114	2128	2135	2142	2144	2146	2148
57	2799	2805	2833	2857	2891	2910	2934	2945	2962	2963	2965	2966
58	2937	2950	2972	2991	3001	3006	3010	3013	3015	3016	3018	3020
59	3644	3657	3671	3703	3739	3746	3765	3774	3783	3785	3787	3789
60	8508	8522	8533	8555	8575	8599	8608	8616	8624	8626	8628	8630

GAS METER READINGS												
cubic ft x 1000												
UNIT#	Feb.6	Feb.14	Feb.23	Mar.2	Mar.14	Mar.26	Apr.6	Apr.12	Apr.20	Apr.27	May 4	May 11
61	7185	7193	7204	7215	7227	7236	7244	7248	7253	7255	7257	7259
62	7124	7135	7140	7156	7173	7185	7198	7204	7211	7213	7215	7216
63	509	518	533	558	565	574	584	589	594	596	597	599
64	8486	8487	8490	8491	8494	8497	8500	8502	8503	8505	8506	8508
65	5758	5758	5758	5758	5758	5758	5758	5758	5758	5758	5758	5758
66	7289	7300	7318	7338	7356	7367	7379	7385	7391	7392	7394	7396
67	2324	2332	2346	2362	2376	2383	2390	2394	2397	2399	2401	2403
68	7180	7190	7190	7190	7190	7190	7190	7190	7190	7190	7190	7190
69	1521	1553	1597	1636	1683	1723	1765	1791	1818	1825	1830	1841
70	3891	3906	3920	3934	3945	3952	3957	3960	3963	3964	3966	3968
71	808	826	842	866	895	912	933	942	952	954	956	958
72	442	444	445	447	450	453	456	458	460	463	464	465
73	9221	9232	9249	9272	9293	9303	9314	9328	9334	9336	9337	9339
74	9036	9048	9058	9078	9120	9141	9169	9182	9196	9198	9200	9204
75	7513	7519	7530	7542	7553	7559	7564	7567	7570	7572	7574	7575
76	9675	9684	9700	9714	9729	9738	9747	9751	9755	9757	9759	9761
77	5754	5768	5801	5831	5865	5894	5923	5949	5956	5959	5961	5964
78	8588	8592	8596	8603	8609	8612	8616	8617	8619	8621	8623	8625
79	3870	3879	3895	3911	3927	3935	3944	3948	3951	3953	3955	3957
80	6826	6828	6830	6832	6835	6839	6842	6844	6846	6848	6850	6852
81	3636	3644	3669	3694	3721	3740	3761	3771	3782	3784	3785	3787

- * Measured in cubic metres (Unit 19)
- * Measured in cubic metres (Unit 20)
- * As meter repaired April 5, 1990 (Unit 68)

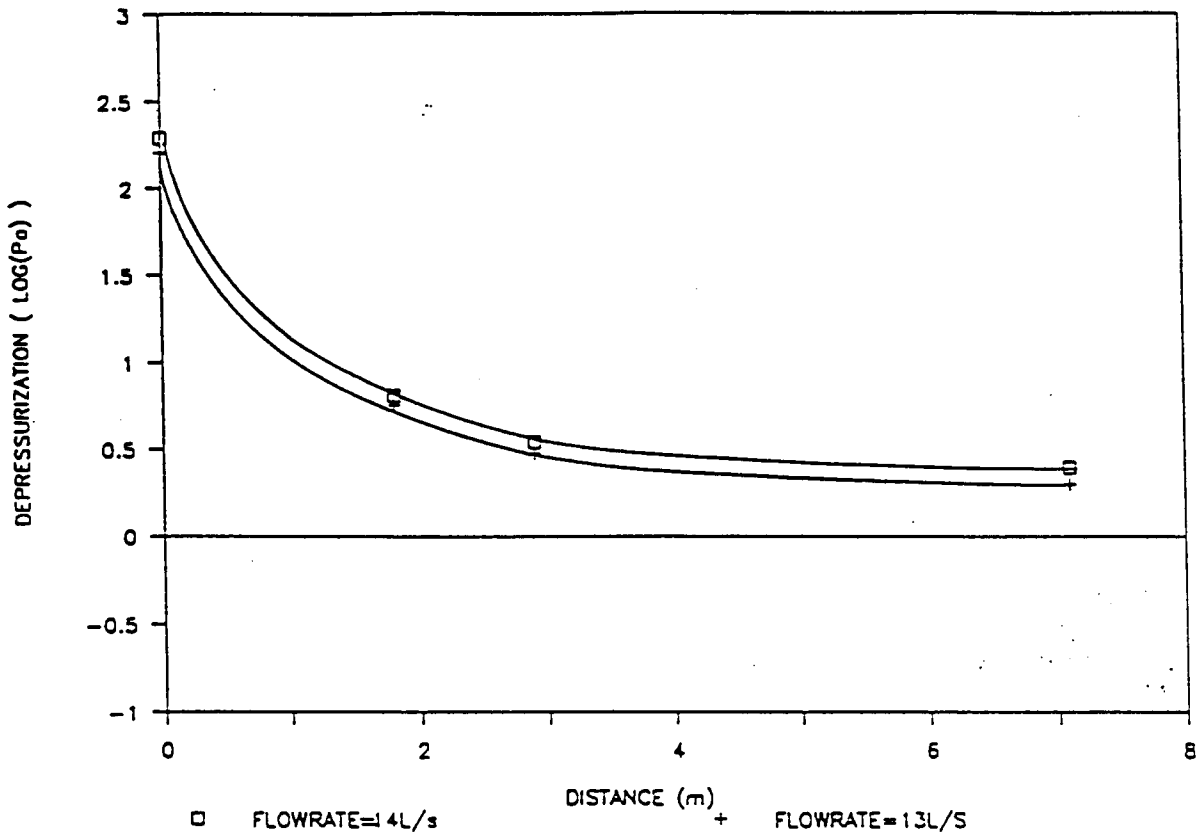
AVERAGE CONSUMPTION/DAY FOR PERIODS BETWEEN MEASUREMENTS
cubic ft x 1000

UNIT#											
1	1.38	2.00	2.43	1.50	0.92	1.18	1.00	0.75	0.14	0.33	0.57
2	1.50	0.56	0.86	0.58	0.33	0.36	0.33	0.13	0.00	0.00	0.00
3	1.25	3.00	3.57	2.42	1.17	0.91	0.83	0.63	0.29	0.33	0.57
4	1.38	0.33	0.29	0.25	0.25	0.27	0.17	0.25	0.29	0.33	0.57
5	0.50	0.89	1.43	0.67	0.42	0.36	0.33	0.25	0.29	0.33	0.57
6	1.13	1.78	2.14	2.17	0.08	0.91	0.83	0.63	0.14	0.33	0.43
7	1.50	1.00	2.86	1.75	1.17	1.36	2.00	0.25	0.29	0.33	0.57
8	1.63	1.11	1.43	0.67	0.42	0.45	0.33	0.25	0.14	0.17	0.43
9	1.13	0.67	2.29	1.50	0.92	1.18	1.17	0.75	0.29	0.33	0.57
10	1.38	2.00	2.71	2.42	0.33	1.27	1.17	0.88	0.14	0.33	0.43
11	0.63	2.44	3.00	1.67	1.33	1.36	1.33	0.88	0.29	0.33	0.57
12	0.63	1.00	1.57	0.67	0.42	0.45	0.33	0.38	0.29	0.33	0.57
13	0.88	2.44	3.00	1.83	1.50	1.73	1.50	1.13	0.29	0.17	0.43
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	1.38	2.11	2.71	2.42	0.25	1.27	1.17	0.88	0.29	0.33	0.57
16	1.00	1.67	2.29	1.08	0.83	0.82	0.83	0.50	0.14	0.33	0.57
17	1.38	2.89	3.71	2.42	1.92	1.45	3.67	1.75	0.29	0.33	0.71
18	1.38	2.11	2.86	1.67	1.42	1.45	1.17	1.00	0.29	0.00	0.43
19	0.88	1.56	2.00	1.17	0.67	0.64	0.67	0.50	0.14	0.33	0.57
20	0.75	0.67	0.86	0.75	0.75	0.73	0.67	0.75	0.71	0.83	1.43
21	1.75	3.78	5.14	2.50	1.50	1.45	1.33	0.88	0.86	0.83	1.71
22	1.00	1.56	2.14	1.17	0.83	1.00	0.83	0.63	0.29	0.33	0.57
23	1.38	3.00	3.86	3.17	1.25	2.55	2.17	1.63	0.43	0.33	0.57
24	1.13	0.33	0.29	0.25	0.25	0.27	0.33	0.25	0.14	0.33	0.71
25	1.13	1.78	2.57	2.08	0.00	1.09	1.00	0.63	0.29	0.33	0.57
26	1.25	0.78	2.43	1.42	1.08	1.18	1.17	0.75	0.57	0.50	1.00
27	1.25	1.67	2.14	1.25	0.83	0.91	0.83	0.75	0.29	0.33	0.57
28	1.63	2.11	2.71	1.83	1.08	1.36	1.17	0.88	0.29	0.33	0.43
29	1.13	1.33	2.00	1.33	0.83	0.91	1.00	0.75	0.86	0.67	1.29
30	1.13	1.67	2.14	1.25	0.75	0.82	0.83	0.63	0.14	0.33	0.57
31	1.25	1.89	2.43	1.50	0.83	0.91	1.00	0.63	0.29	0.33	0.57
32	1.38	1.89	2.43	1.50	1.00	1.09	1.17	2.88	0.29	0.33	0.57
33	1.13	0.44	2.14	1.08	0.67	0.82	0.83	0.38	0.29	0.33	0.57
34	0.50	0.67	1.14	0.58	0.25	0.36	0.33	0.25	0.29	0.33	0.57
35	1.25	1.67	3.57	0.42	0.83	0.91	0.83	0.63	0.29	0.33	0.57
36	0.88	0.33	3.29	1.08	0.67	0.64	0.67	0.50	0.29	0.33	0.43
37	0.75	2.33	3.00	1.92	1.33	1.73	1.50	1.25	0.29	0.33	0.57
38	0.75	1.11	1.57	0.83	0.42	0.45	0.50	0.25	0.29	0.33	0.57
39	1.13	1.44	2.00	1.08	0.58	0.73	0.67	0.50	0.29	0.33	0.43
40	1.13	1.67	2.14	1.25	0.83	1.00	0.83	0.63	0.29	0.33	0.57
41	0.88	1.44	1.86	1.00	0.58	0.64	0.67	0.38	0.29	0.33	0.57
42	1.75	2.22	2.57	1.83	1.33	1.64	1.50	1.25	0.29	0.33	0.57
43	1.13	1.56	2.29	1.08	0.67	0.55	0.50	0.50	0.14	0.33	0.57
44	2.00	2.56	3.29	1.92	1.42	1.73	1.50	1.13	0.29	0.33	0.57
45	1.00	1.67	1.86	1.17	0.67	0.82	0.67	0.50	0.29	0.33	0.57
46	1.50	2.22	2.86	0.83	0.83	1.00	2.50	0.75	0.14	0.33	0.43
47	1.25	1.78	2.29	1.25	0.75	0.91	0.67	0.63	0.29	0.17	0.43
48	1.00	1.56	1.86	1.08	0.58	0.45	0.50	0.63	0.00	0.00	0.00
49	1.50	3.22	1.29	1.67	1.00	1.18	1.00	0.88	0.29	0.33	0.43
50	1.00	1.44	1.86	1.08	0.58	0.55	0.67	0.38	0.29	0.17	0.43
51	1.25	1.00	4.00	0.75	0.92	1.09	0.33	1.13	0.29	0.17	0.43
52	1.00	3.56	3.14	2.00	1.33	1.64	1.33	1.13	0.29	0.33	0.57
53	1.38	0.78	2.57	2.17	0.08	1.09	0.83	0.88	0.29	0.17	0.43
54	1.00	1.56	1.86	1.08	0.67	1.00	0.67	0.63	0.29	0.33	0.43
55	1.13	2.56	0.57	1.08	0.42	0.45	0.50	0.25	0.43	0.33	0.29
56	1.50	2.11	2.71	1.58	1.17	1.27	1.17	0.88	0.29	0.33	0.57
57	0.75	3.11	3.43	2.83	1.58	2.18	1.83	2.13	0.14	0.33	0.43
58	1.63	2.44	2.71	0.83	0.42	0.36	0.50	0.25	0.14	0.33	0.57
59	1.63	1.56	4.57	3.00	0.58	1.73	1.50	1.13	0.29	0.33	0.57
60	1.75	1.22	3.14	1.67	2.00	0.82	1.33	1.00	0.29	0.33	0.57

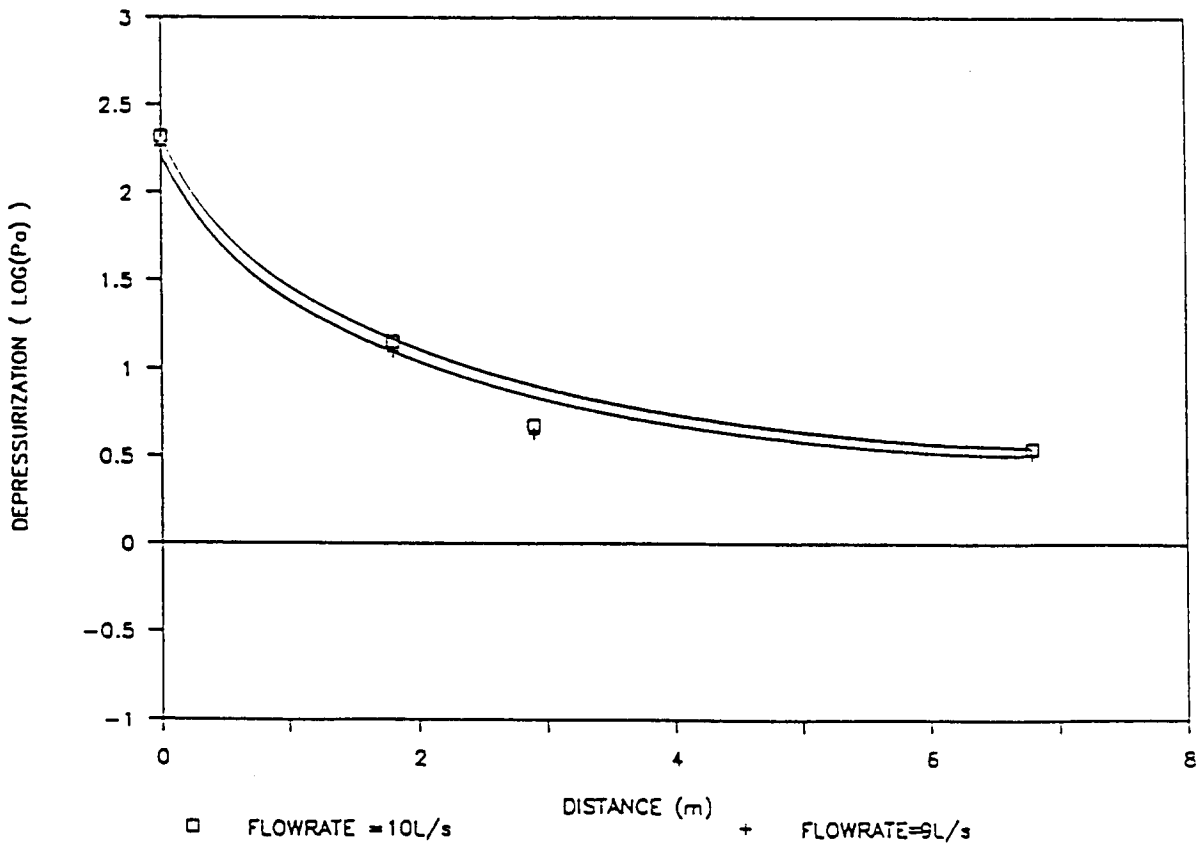
AVERAGE CONSUMPTION/DAY FOR PERIODS BETWEEN MEASUREMENTS											
cubic ft x 1000											
UNIT#											
61	1.00	1.22	1.57	1.00	0.75	0.73	0.67	0.63	0.29	0.33	0.57
62	1.38	0.56	2.29	1.42	1.00	1.18	1.00	0.88	0.29	0.33	0.43
63	1.13	1.67	3.57	0.58	0.75	0.91	0.83	0.63	0.29	0.17	0.43
64	0.13	0.33	0.14	0.25	0.25	0.27	0.33	0.13	0.29	0.17	0.43
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
66	1.38	2.00	2.86	1.50	0.92	1.09	1.00	0.75	0.14	0.33	0.57
67	1.00	1.56	2.29	1.17	0.58	0.64	0.67	0.38	0.29	0.33	0.57
68	1.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	4.00	4.89	5.57	3.92	3.33	3.82	4.33	3.38	1.00	0.83	2.29
70	1.88	1.56	2.00	0.92	0.58	0.45	0.50	0.38	0.14	0.33	0.57
71	2.25	1.78	3.43	2.42	1.42	1.91	1.50	1.25	0.29	0.33	0.57
72	0.25	0.11	0.29	0.25	0.25	0.27	0.33	0.25	0.43	0.17	0.29
73	1.38	1.89	3.29	1.75	0.83	1.00	2.33	0.75	0.29	0.17	0.43
74	1.50	1.11	2.86	3.50	1.75	2.55	2.17	1.75	0.29	0.33	0.86
75	0.75	1.22	1.71	0.92	0.50	0.45	0.50	0.38	0.29	0.33	0.43
76	1.13	1.78	2.00	1.25	0.75	0.82	0.67	0.50	0.29	0.33	0.57
77	1.75	3.87	4.29	2.83	2.42	2.64	4.33	0.88	0.43	0.33	0.71
78	0.50	0.44	1.00	0.50	0.25	0.36	0.17	0.25	0.29	0.33	0.57
79	1.13	1.78	2.29	1.33	0.67	0.82	0.67	0.38	0.29	0.33	0.57
80	0.25	0.22	0.29	0.25	0.33	0.27	0.33	0.25	0.29	0.33	0.57
81	1.00	2.78	3.57	2.25	1.58	1.91	1.67	1.38	0.29	0.17	0.43

Appendix F
PERMEABILITY TEST DATA

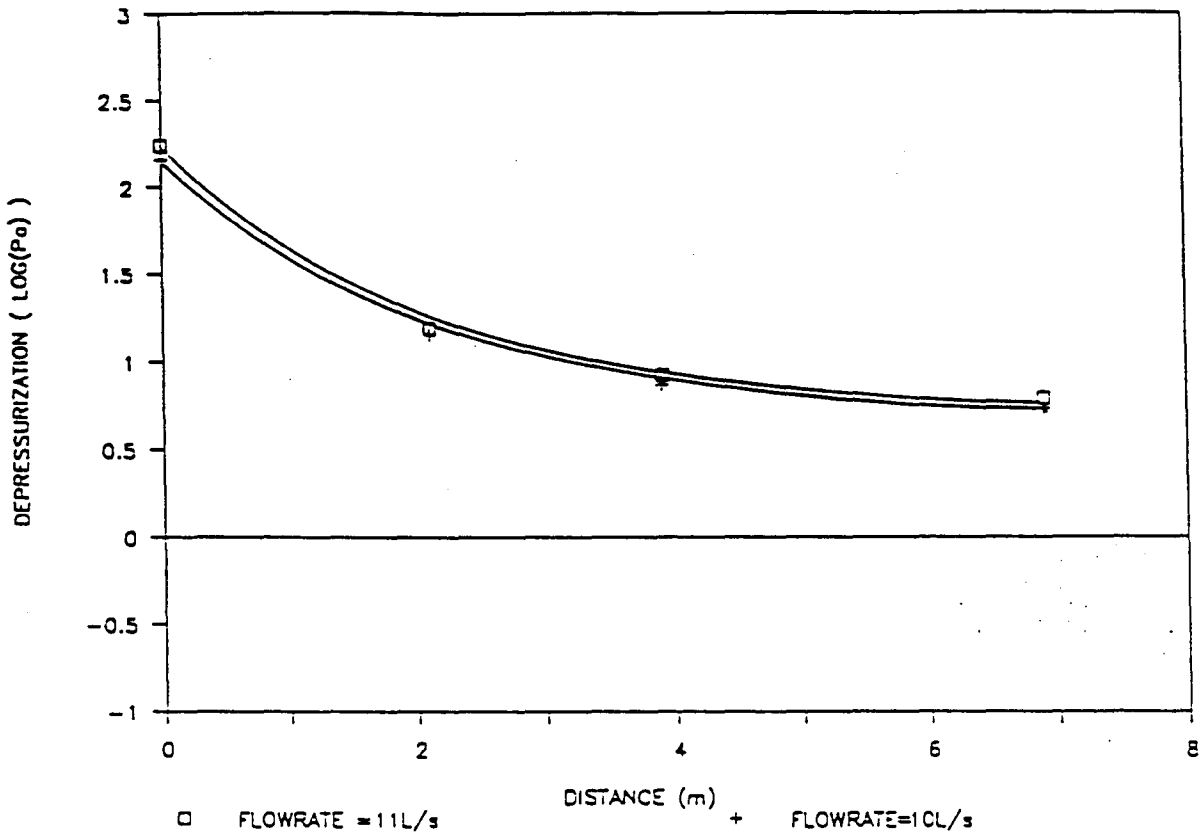
UNIT 01



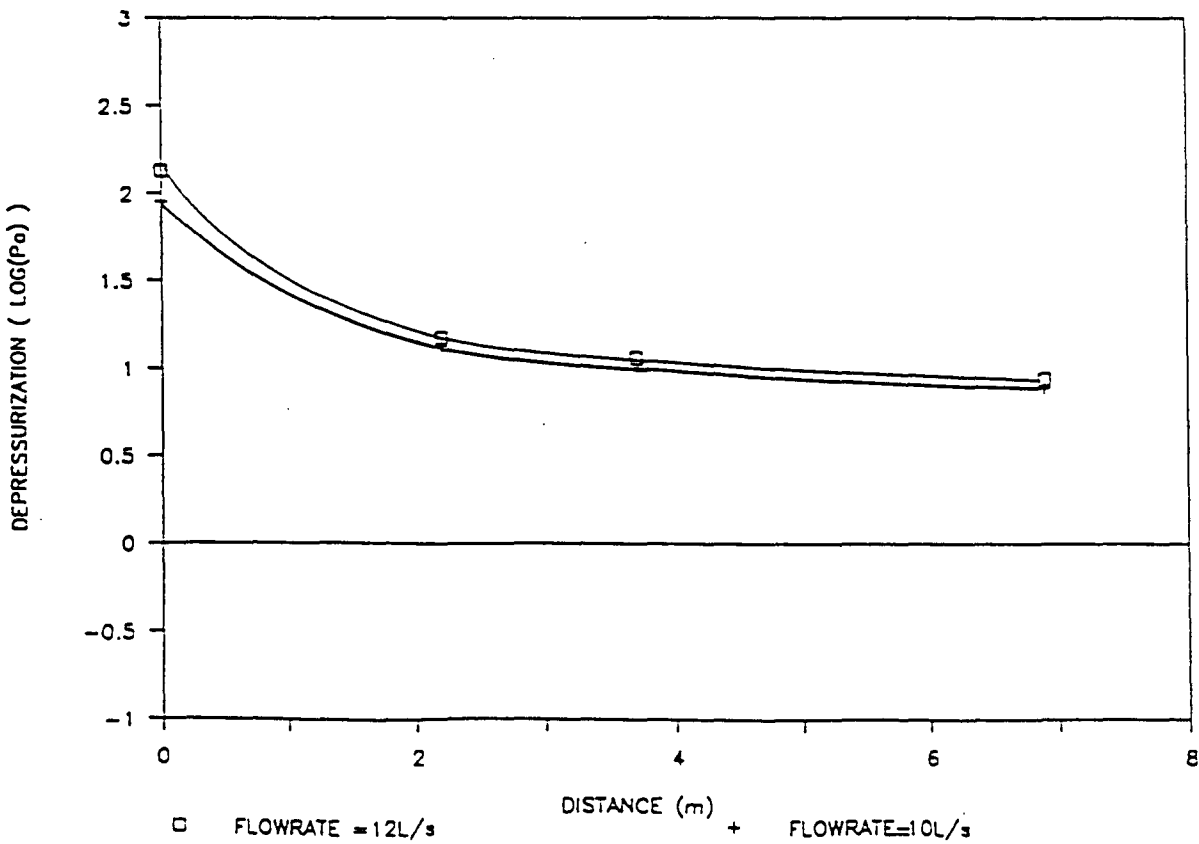
UNIT 02



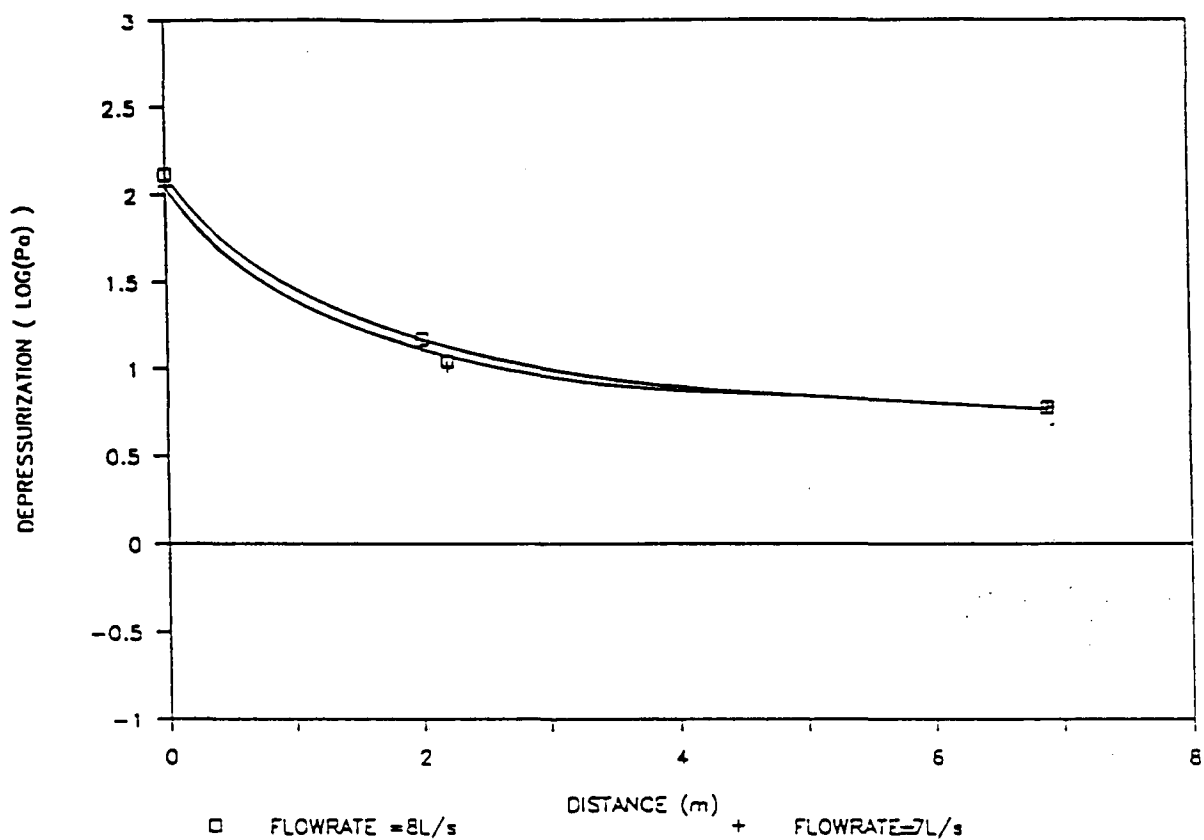
UNIT 03



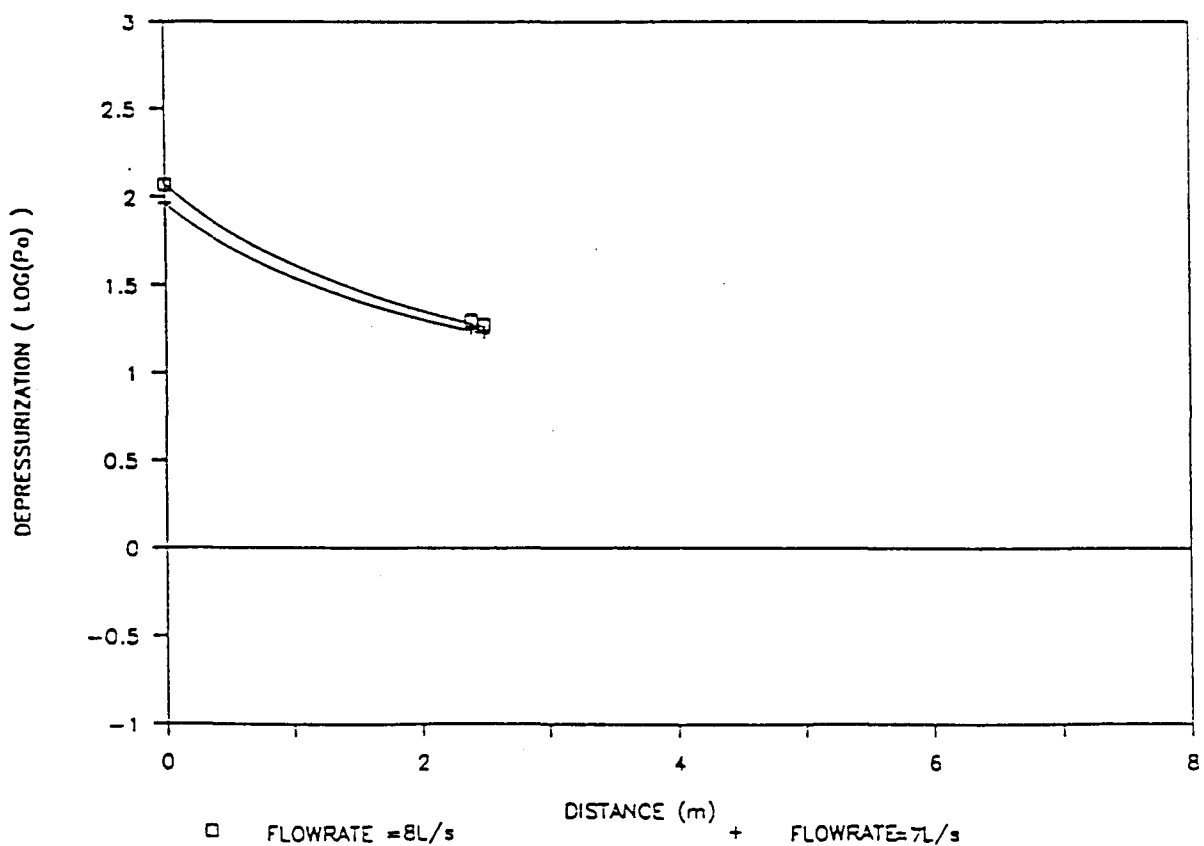
UNIT 04



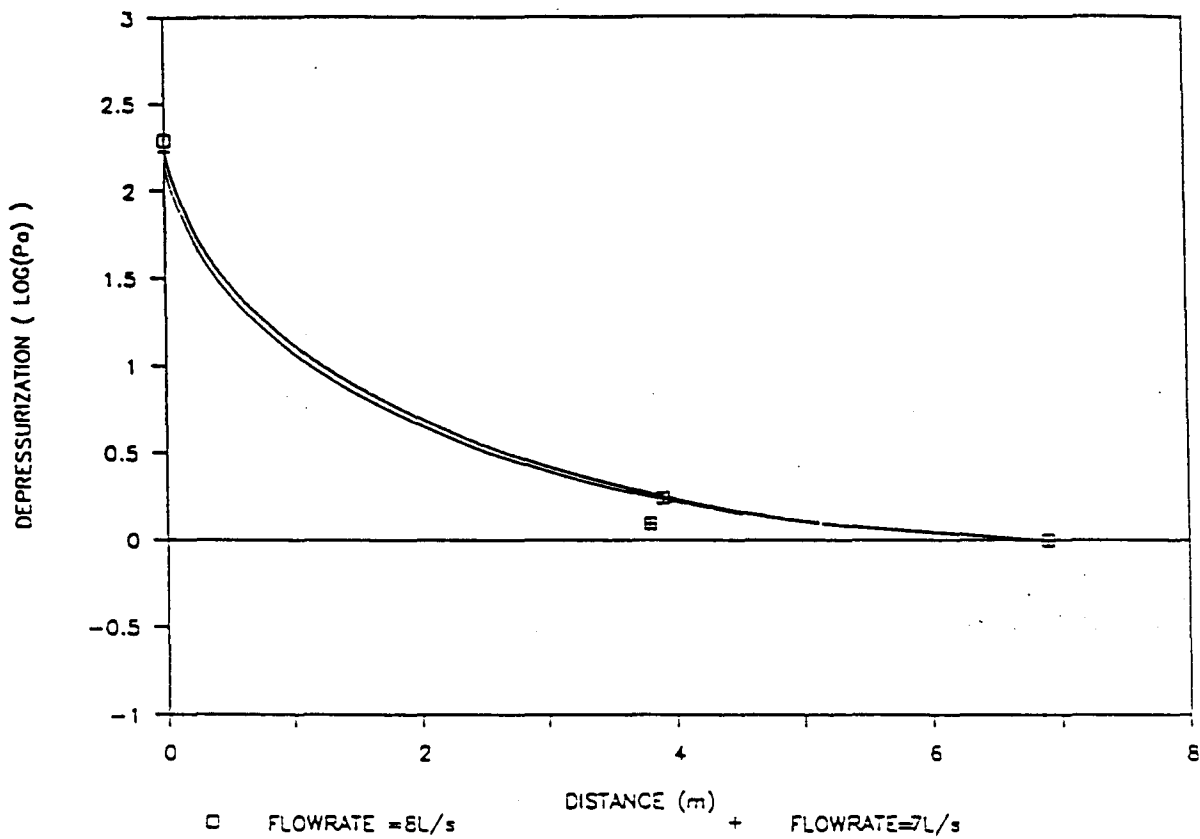
UNIT 05



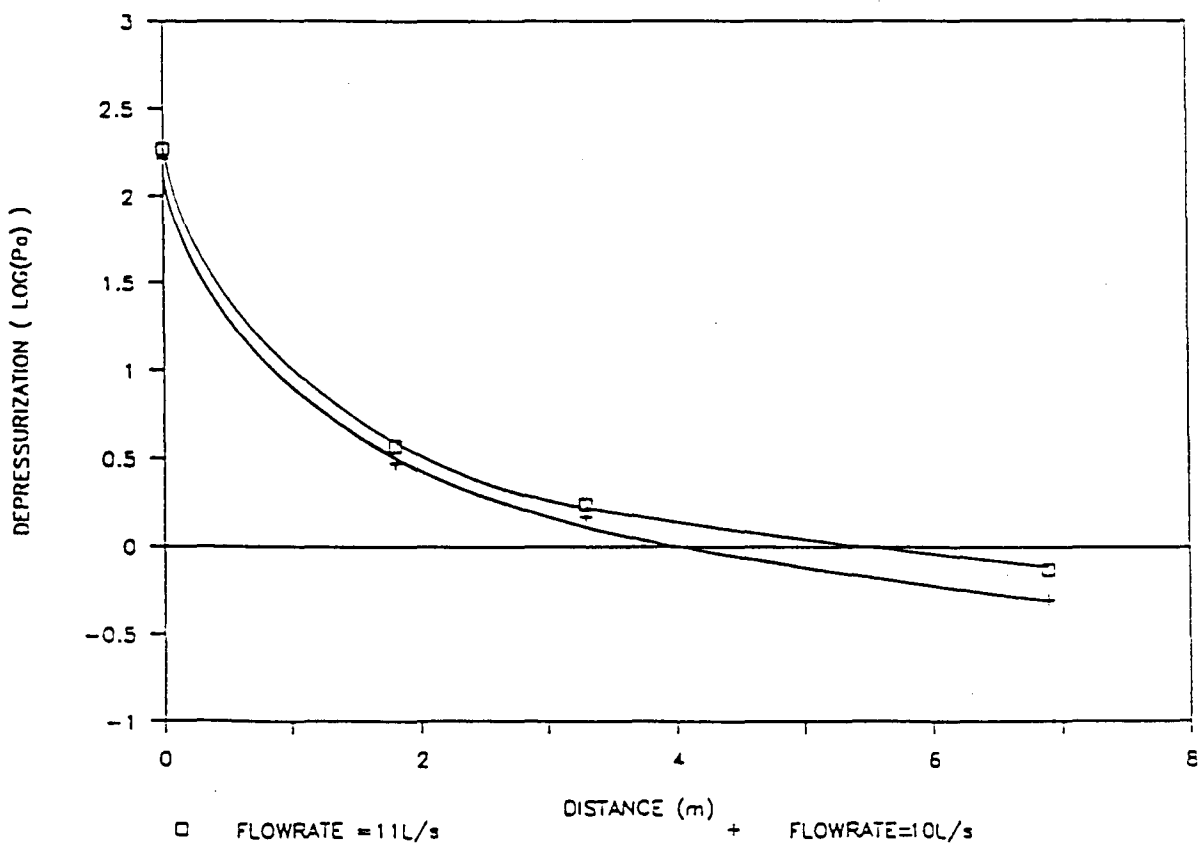
UNIT 06



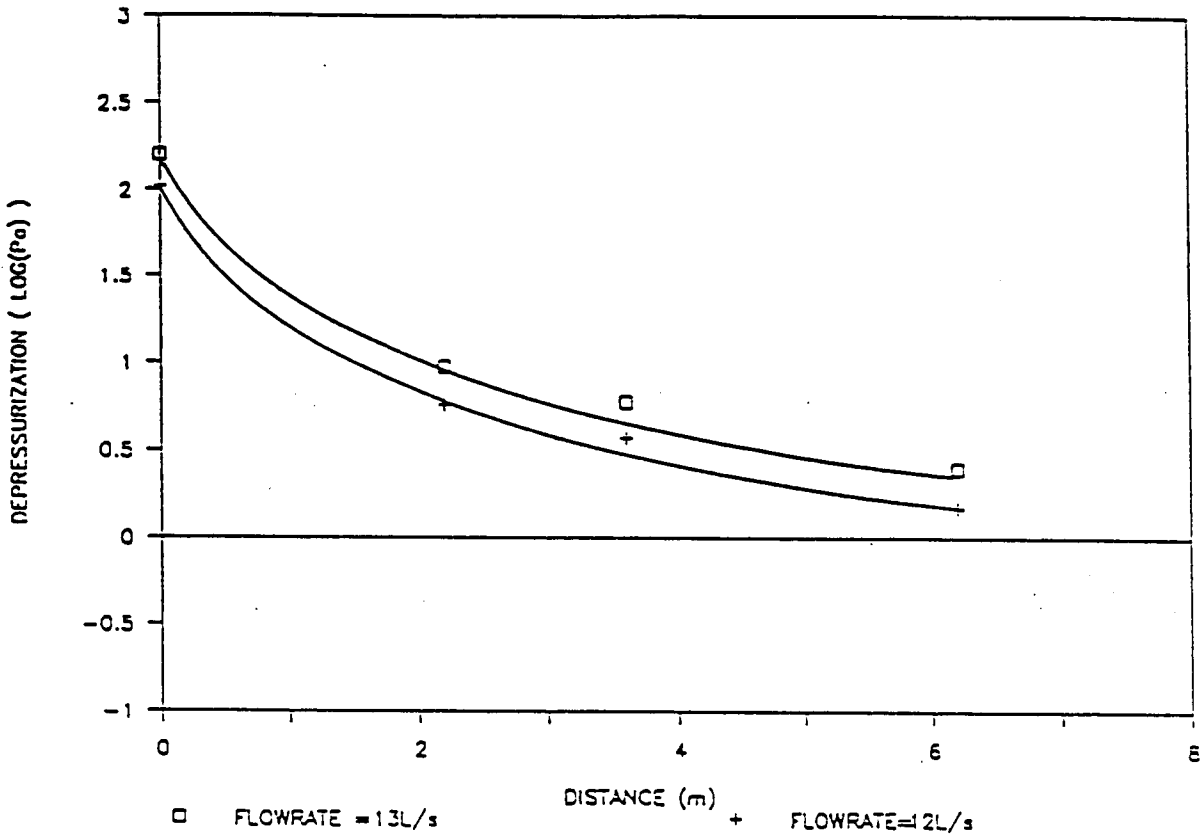
UNIT 07



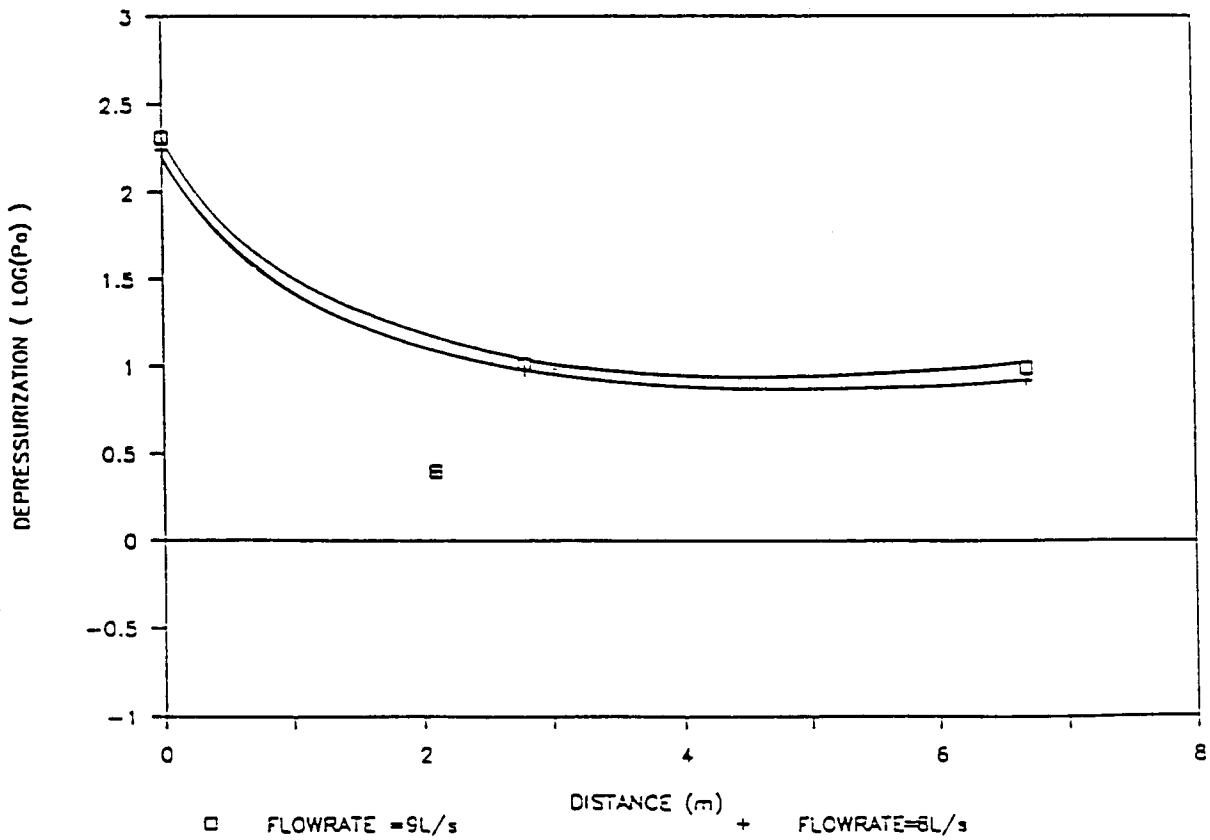
UNIT 08



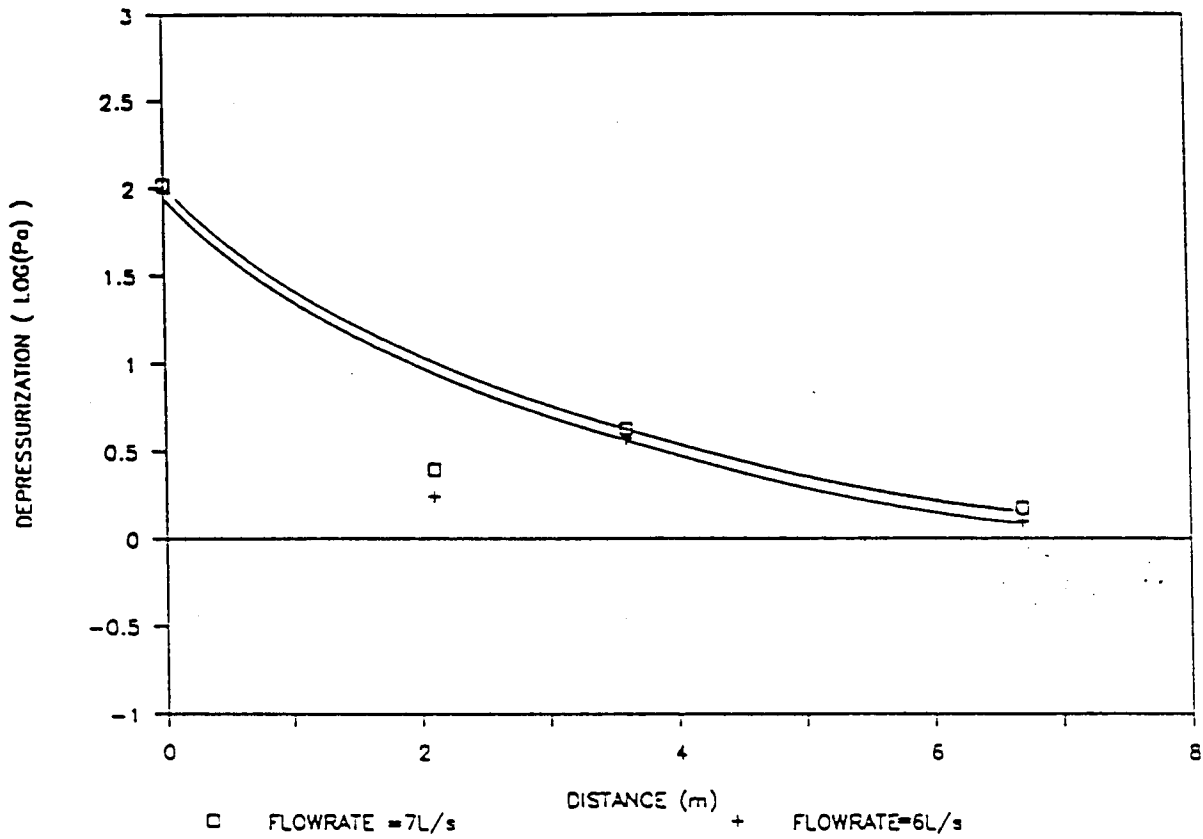
UNIT 09



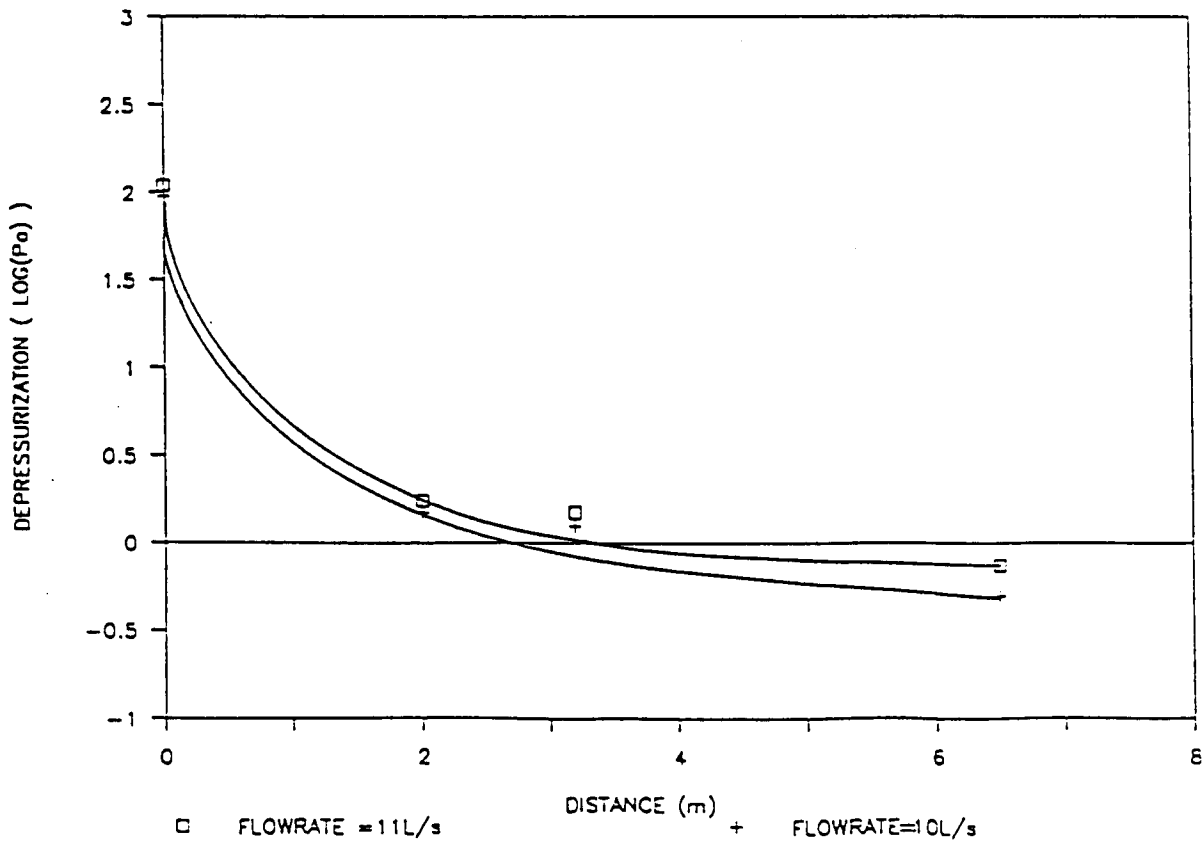
UNIT 10



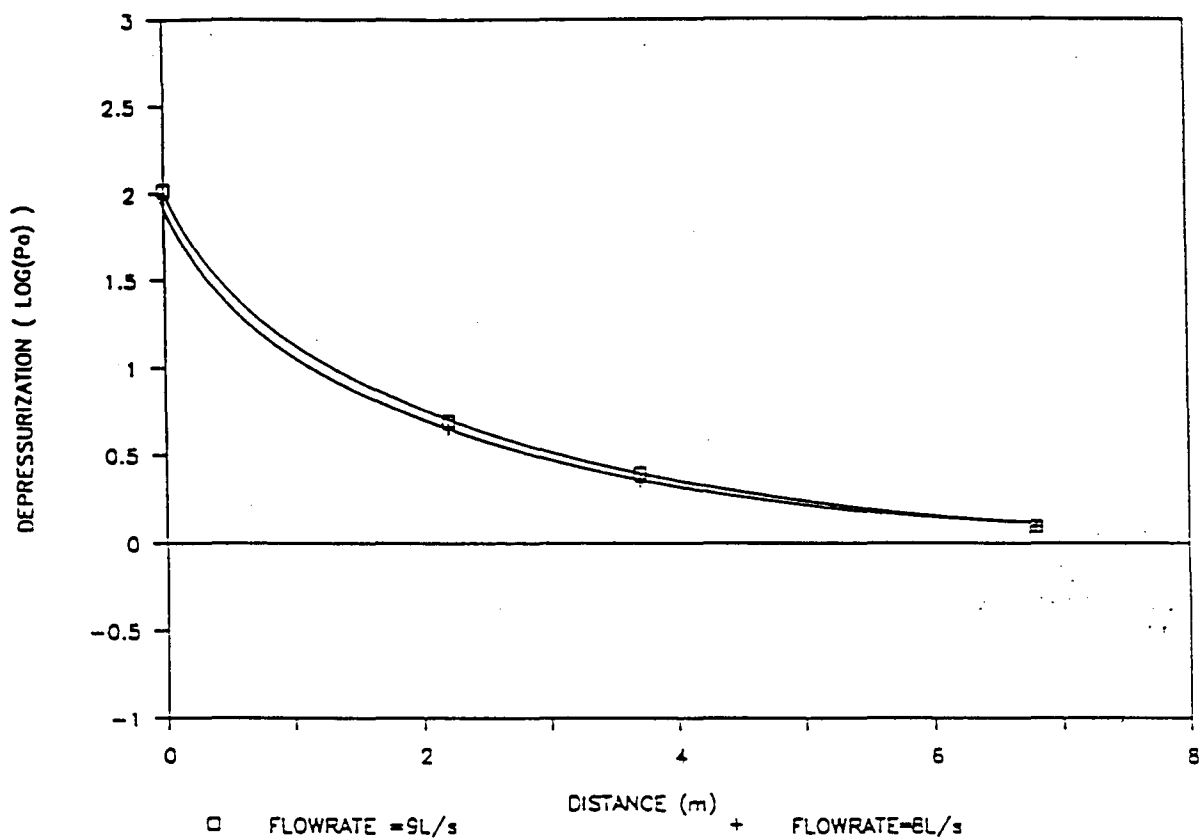
UNIT 11



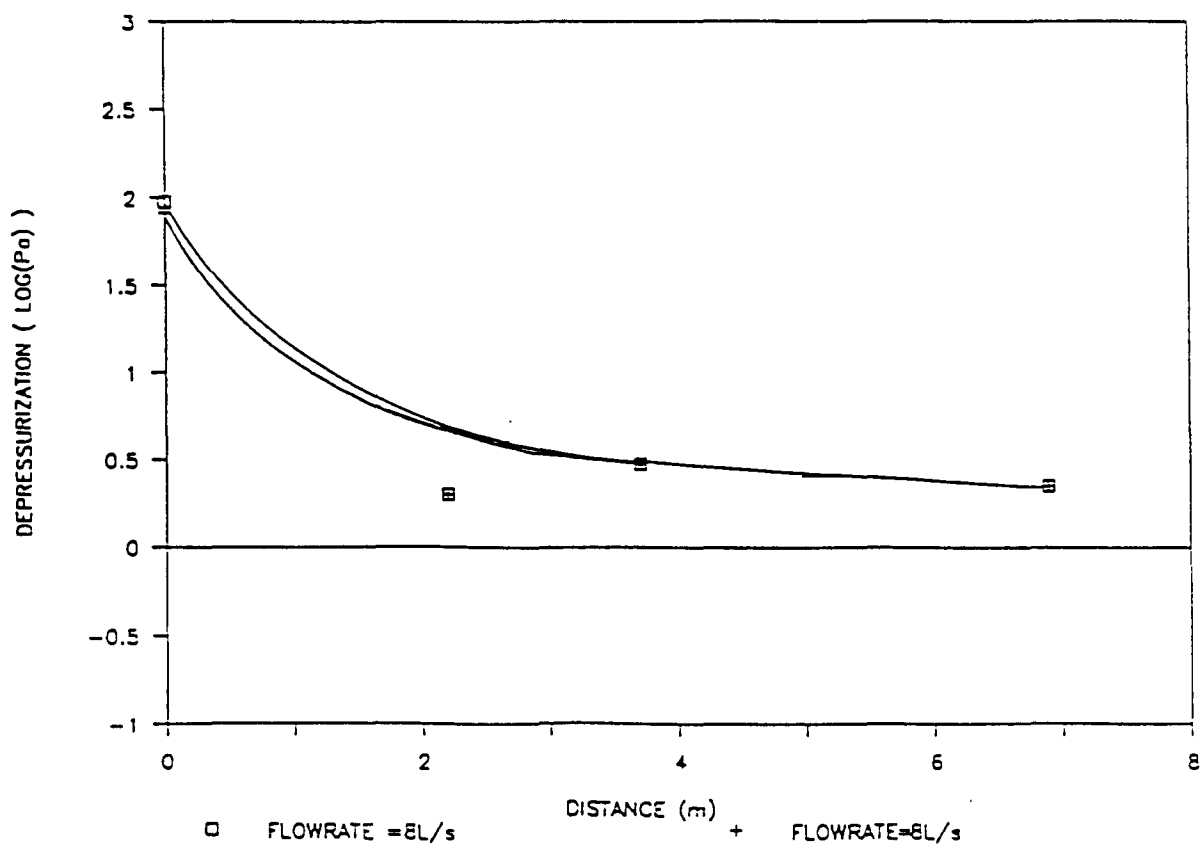
UNIT 12



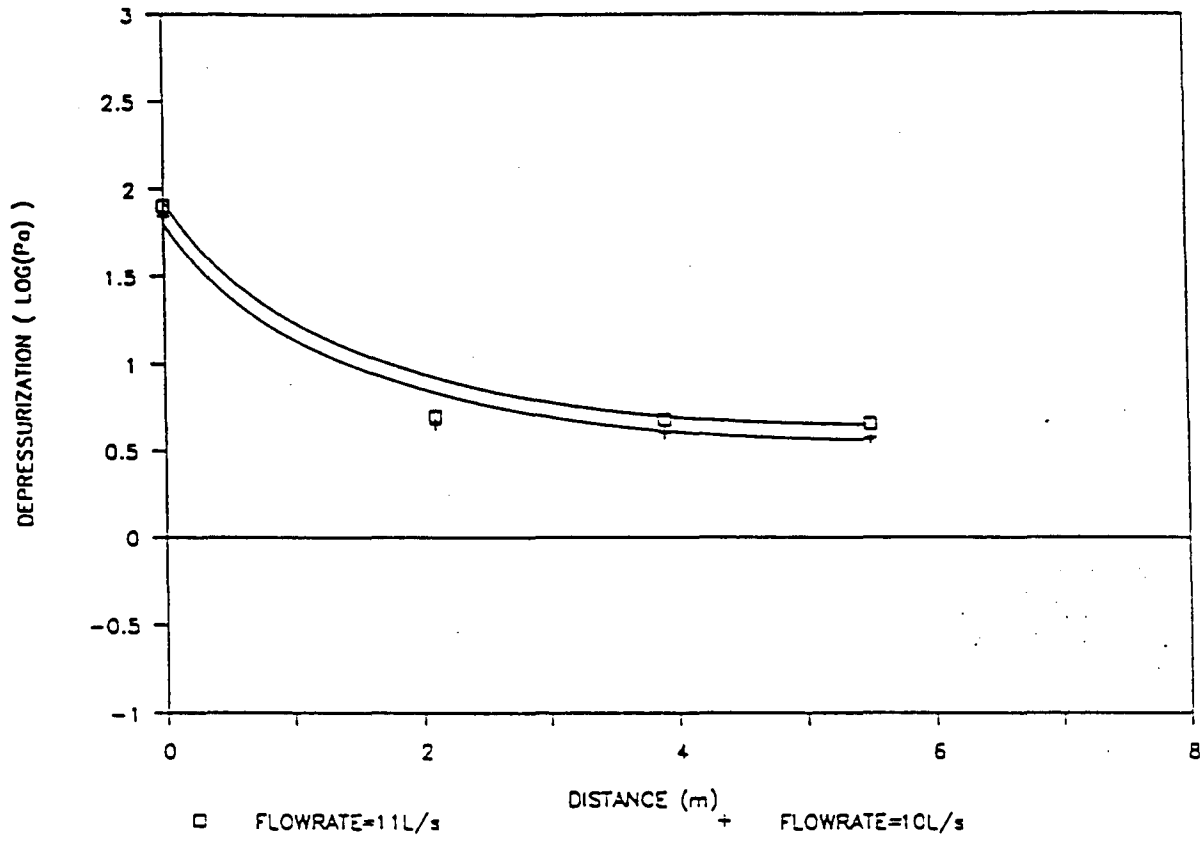
UNIT 13



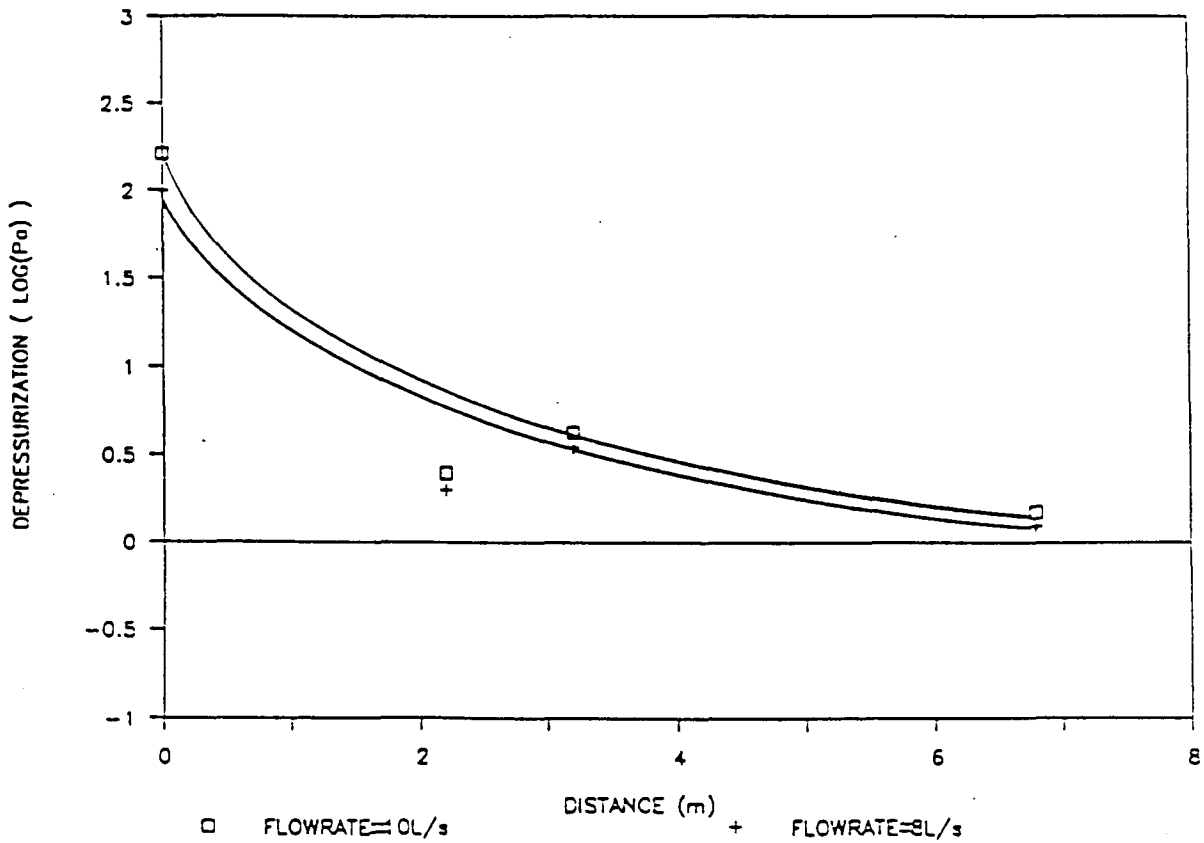
UNIT 14



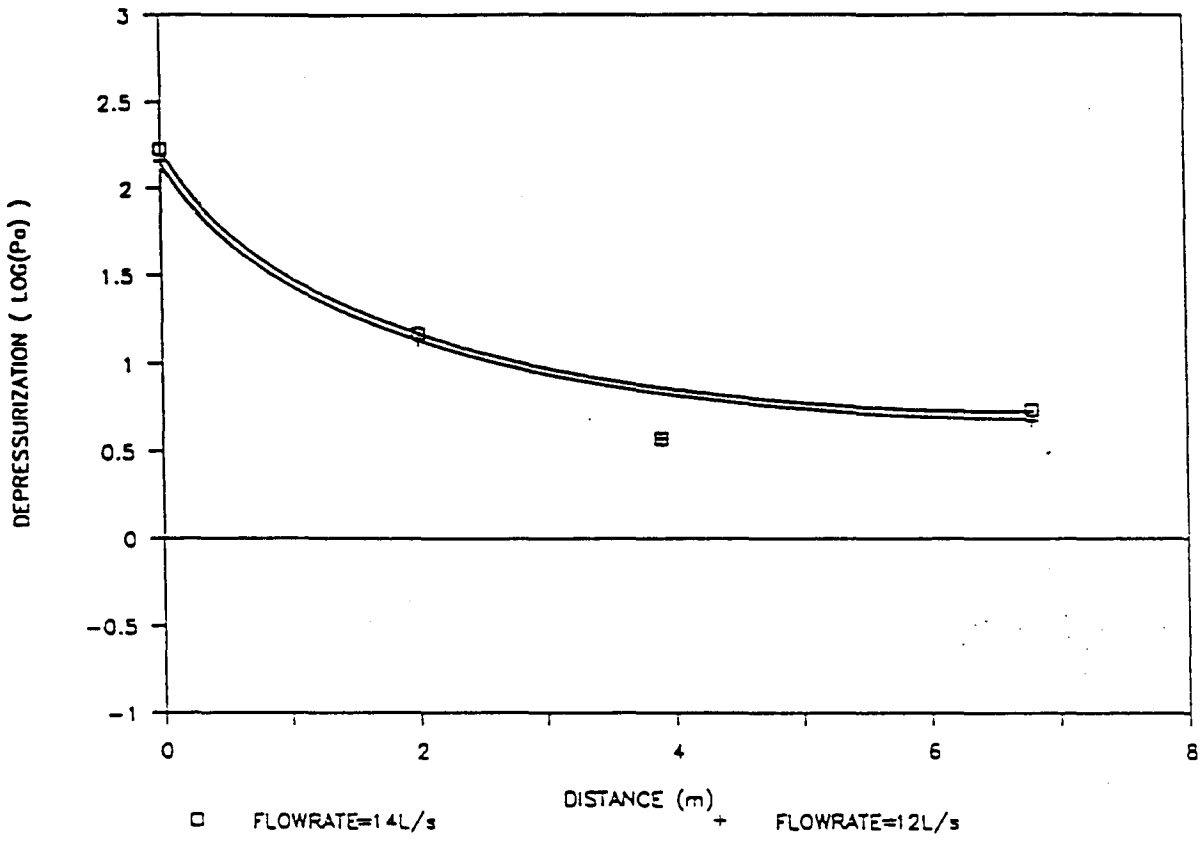
UNIT 15



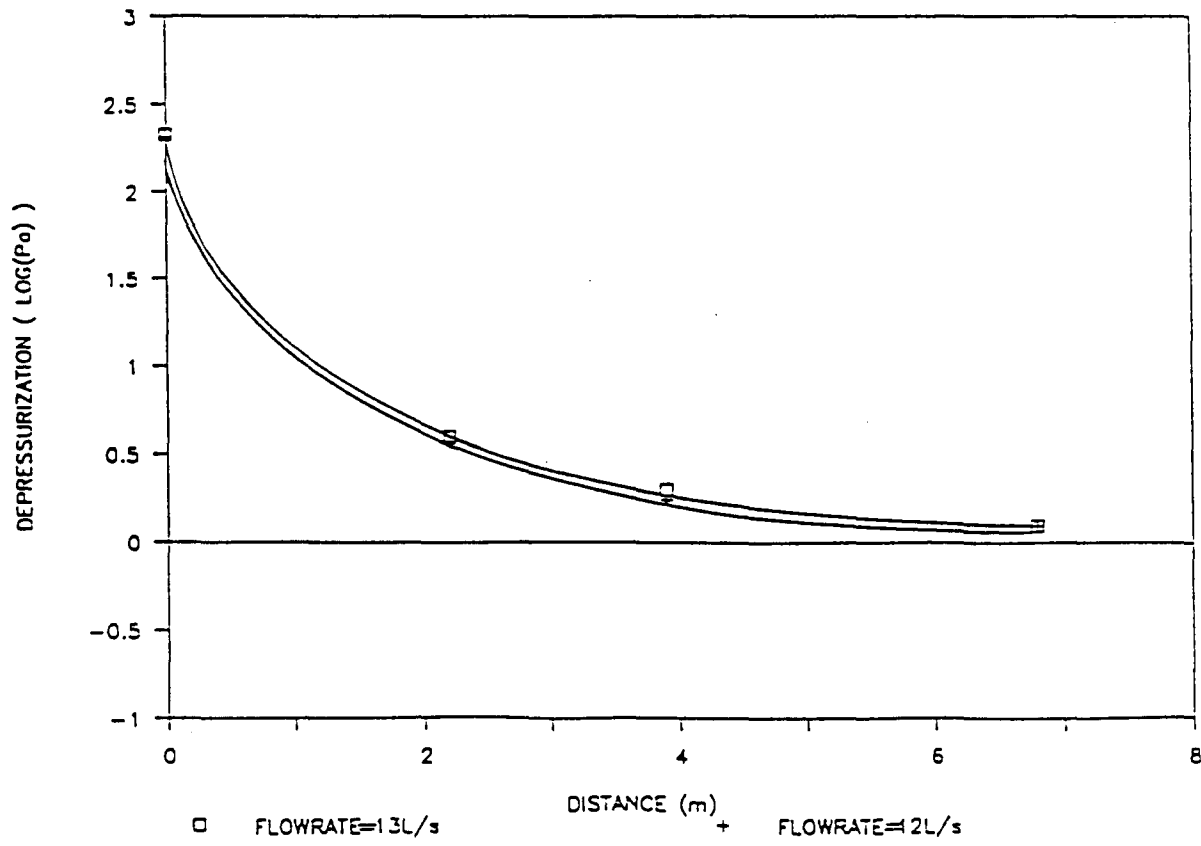
UNIT 16



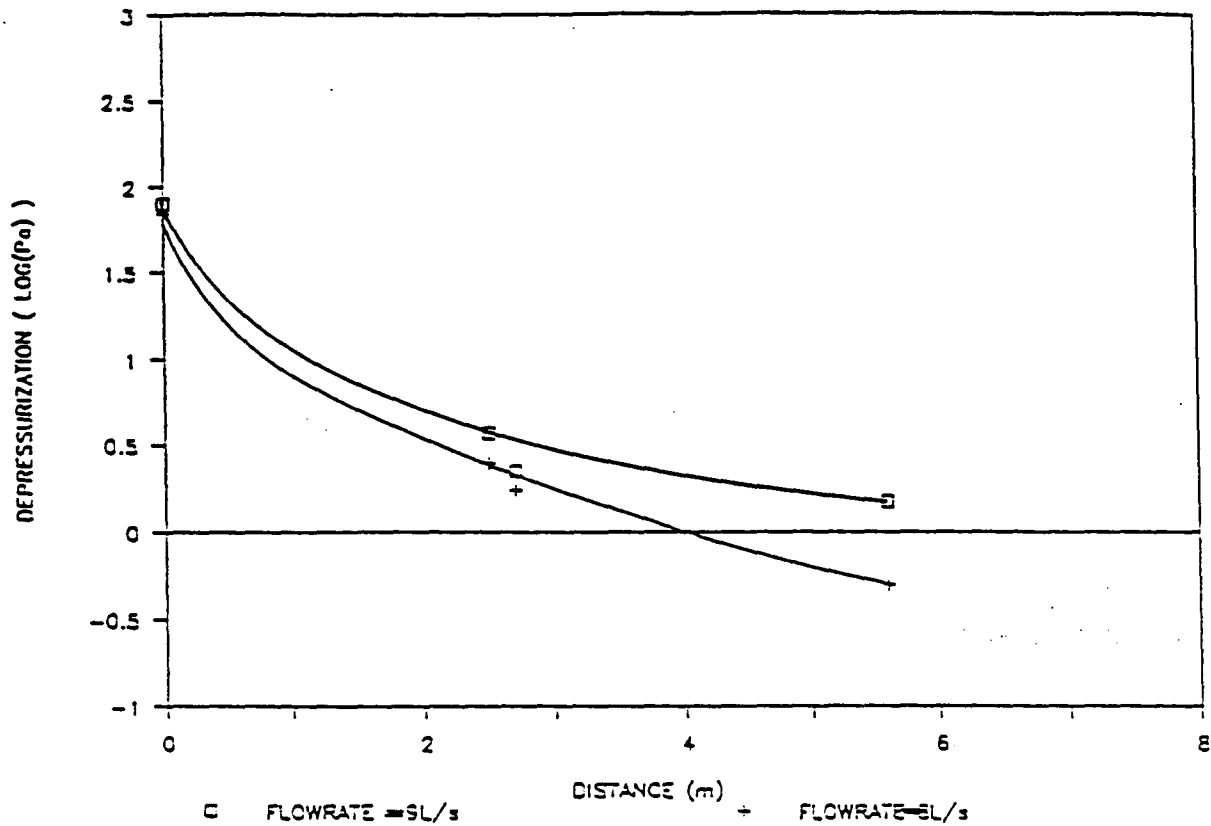
UNIT 17



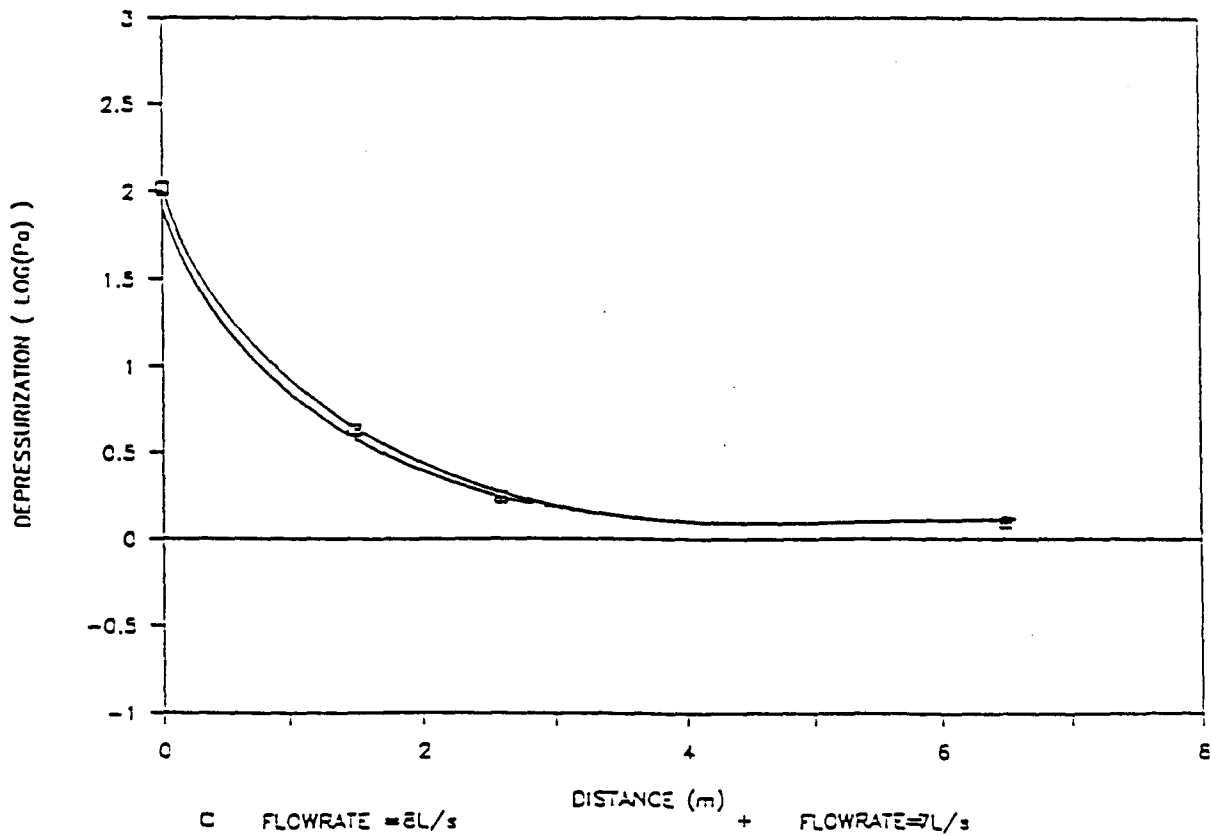
UNIT 18



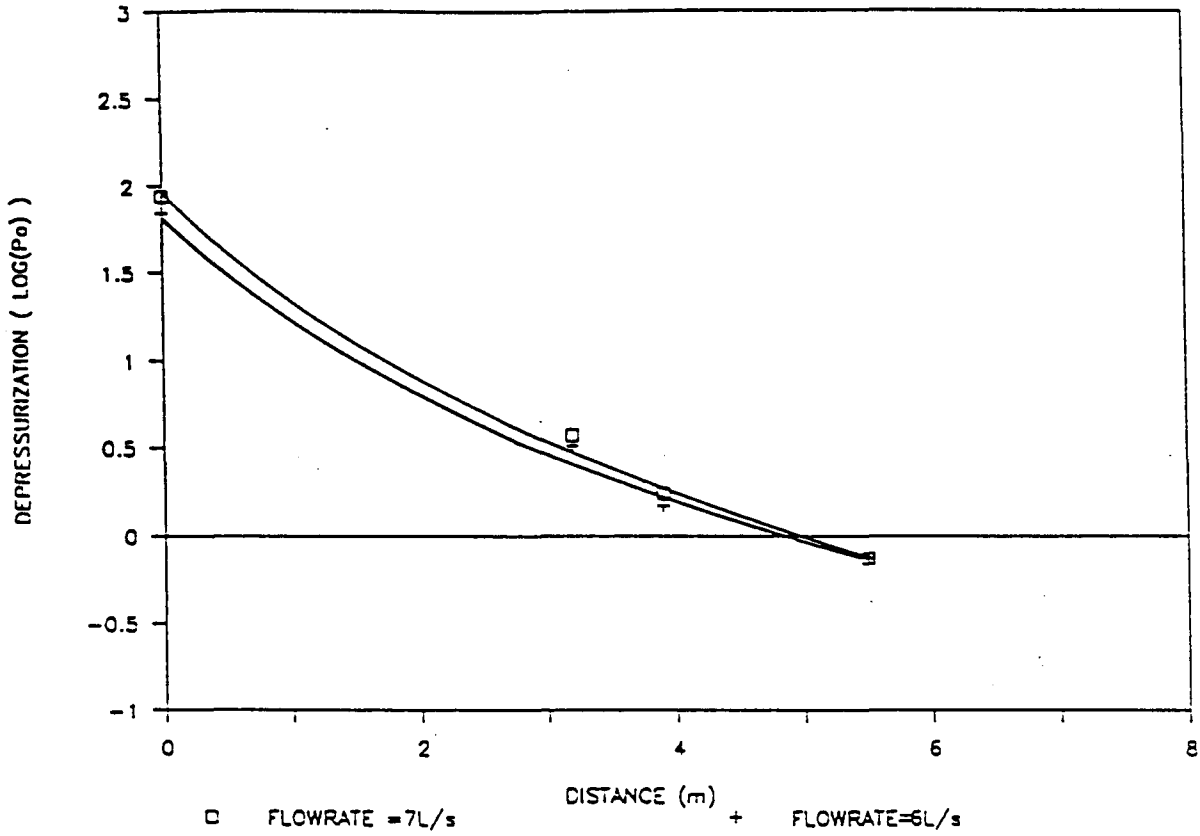
UNIT 19



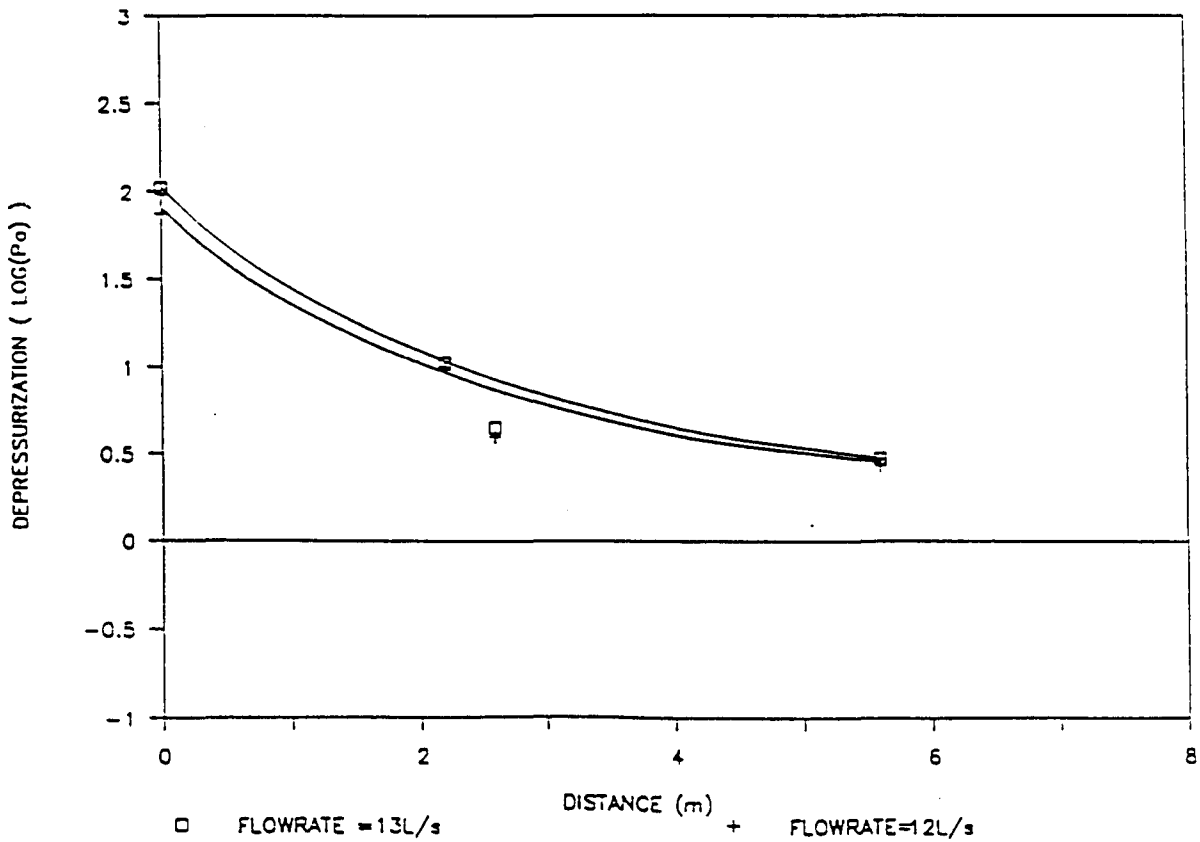
UNIT 20



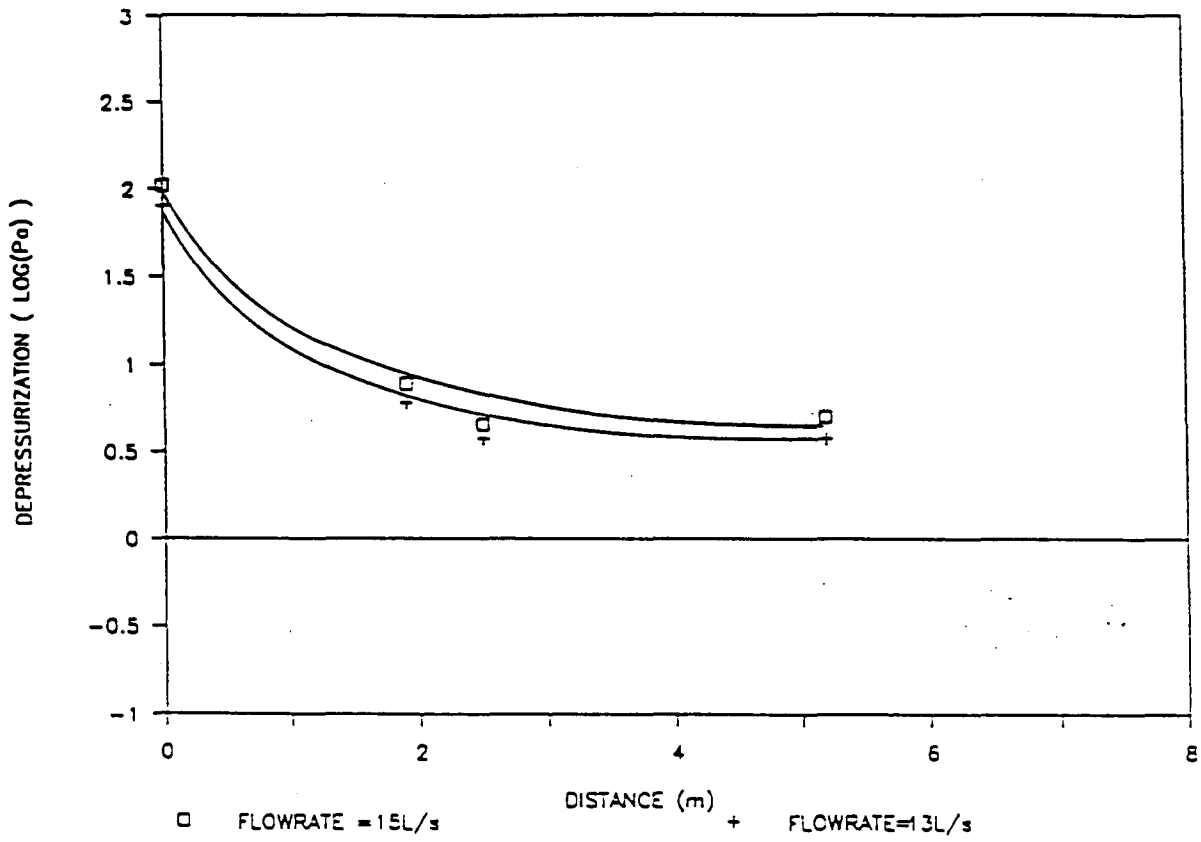
UNIT 21



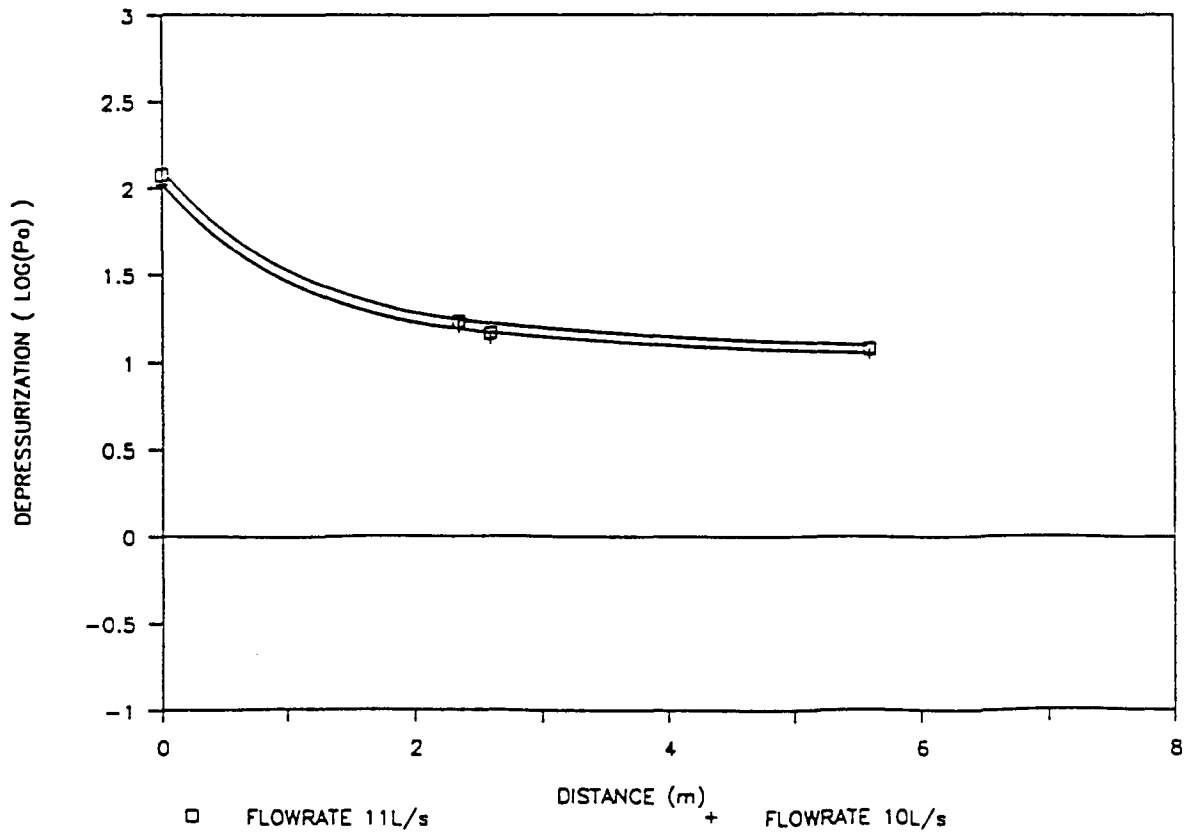
UNIT 22



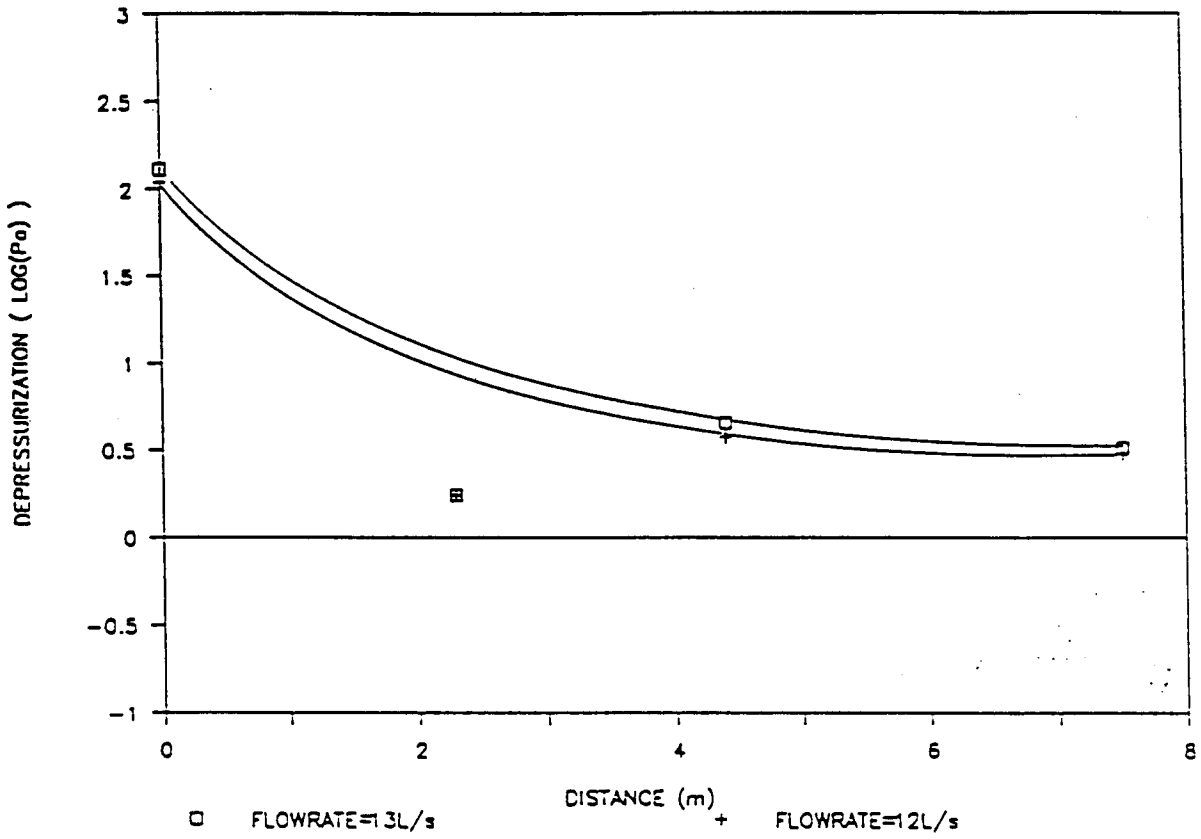
UNIT 23



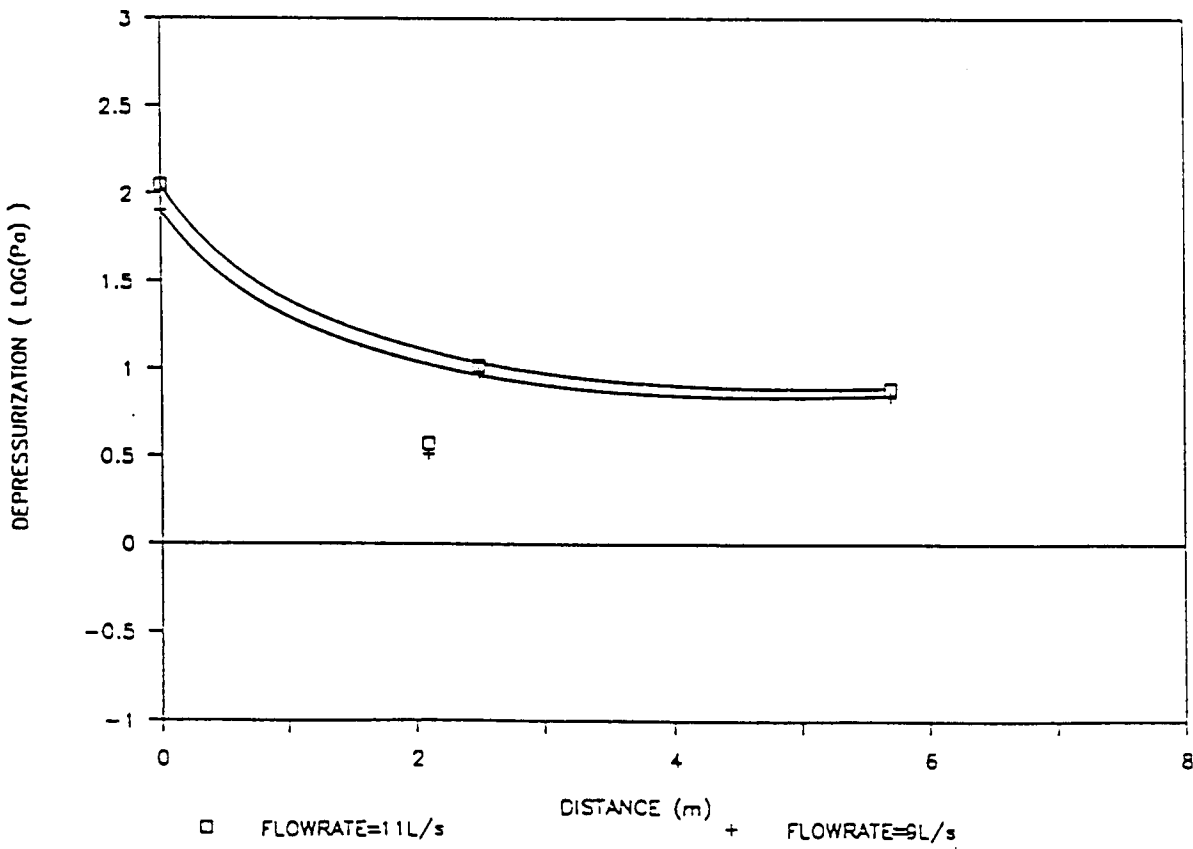
UNIT 24



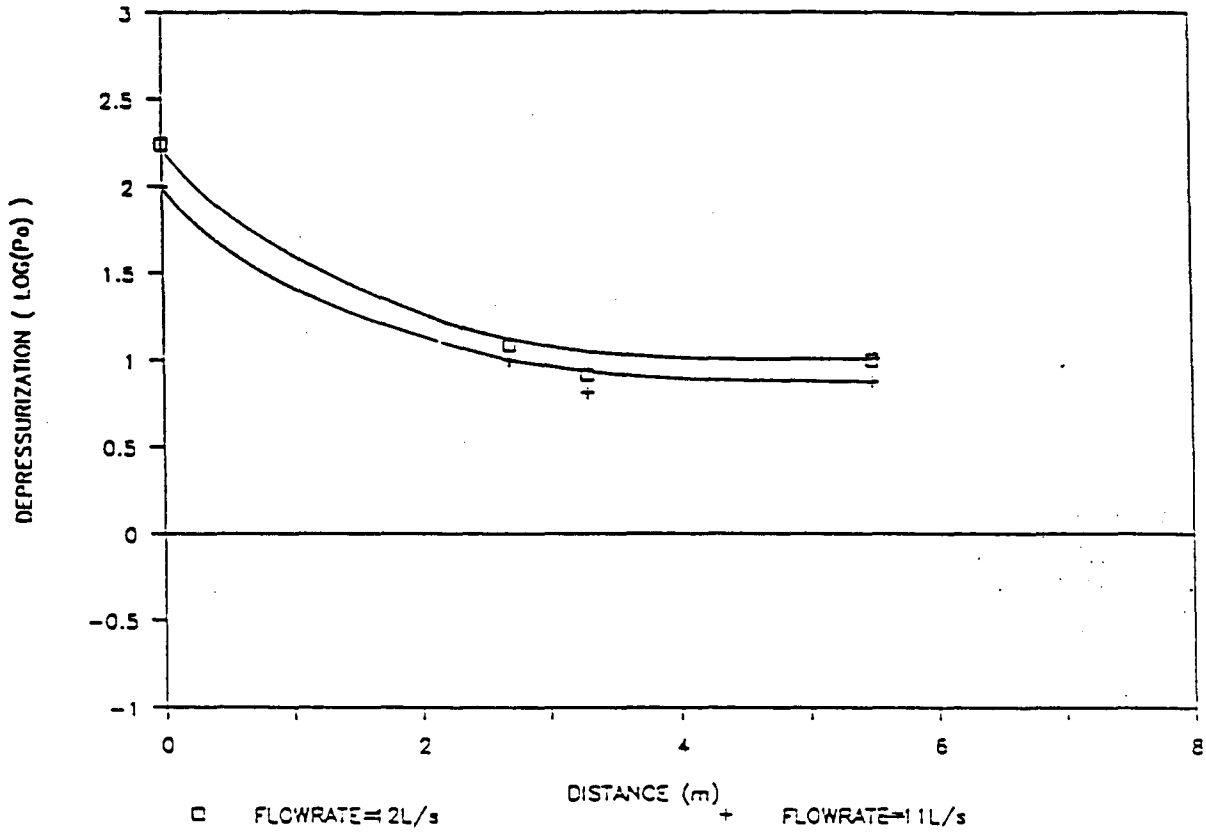
UNIT 25



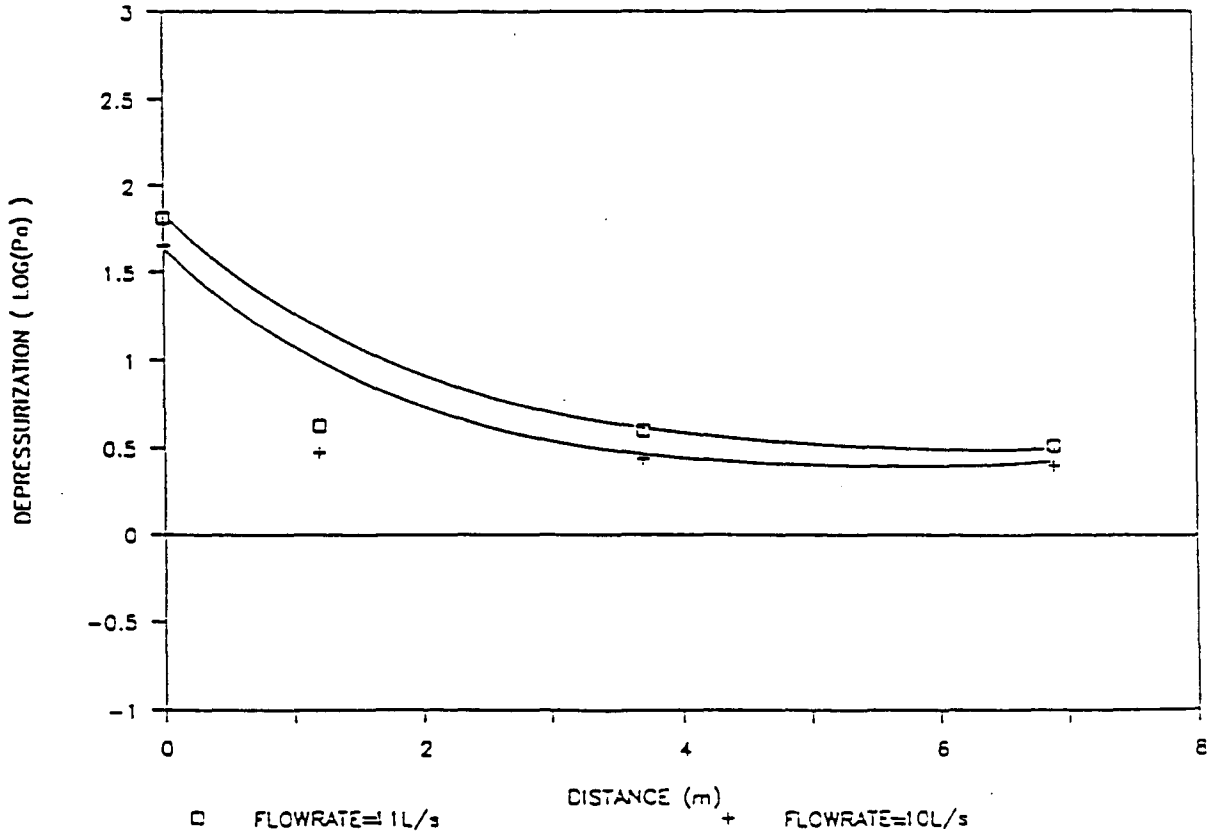
UNIT 26



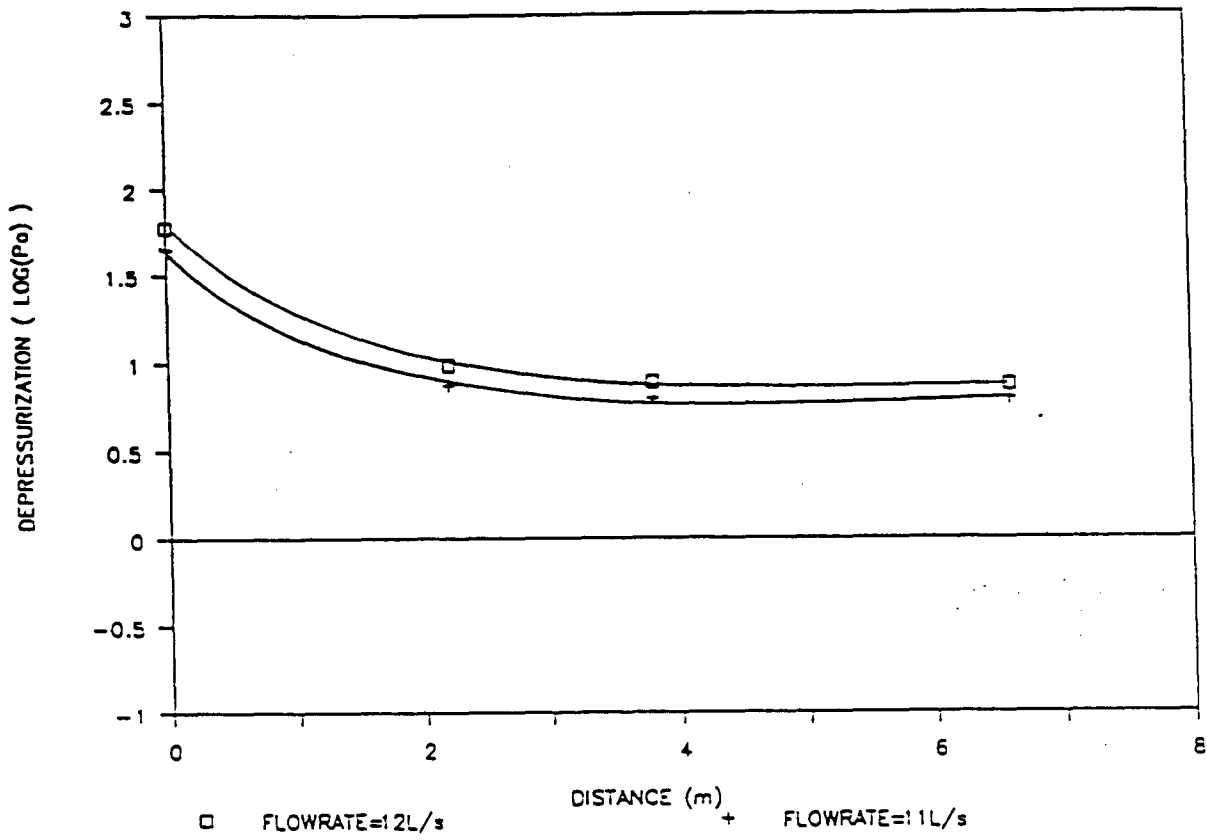
UNIT 27



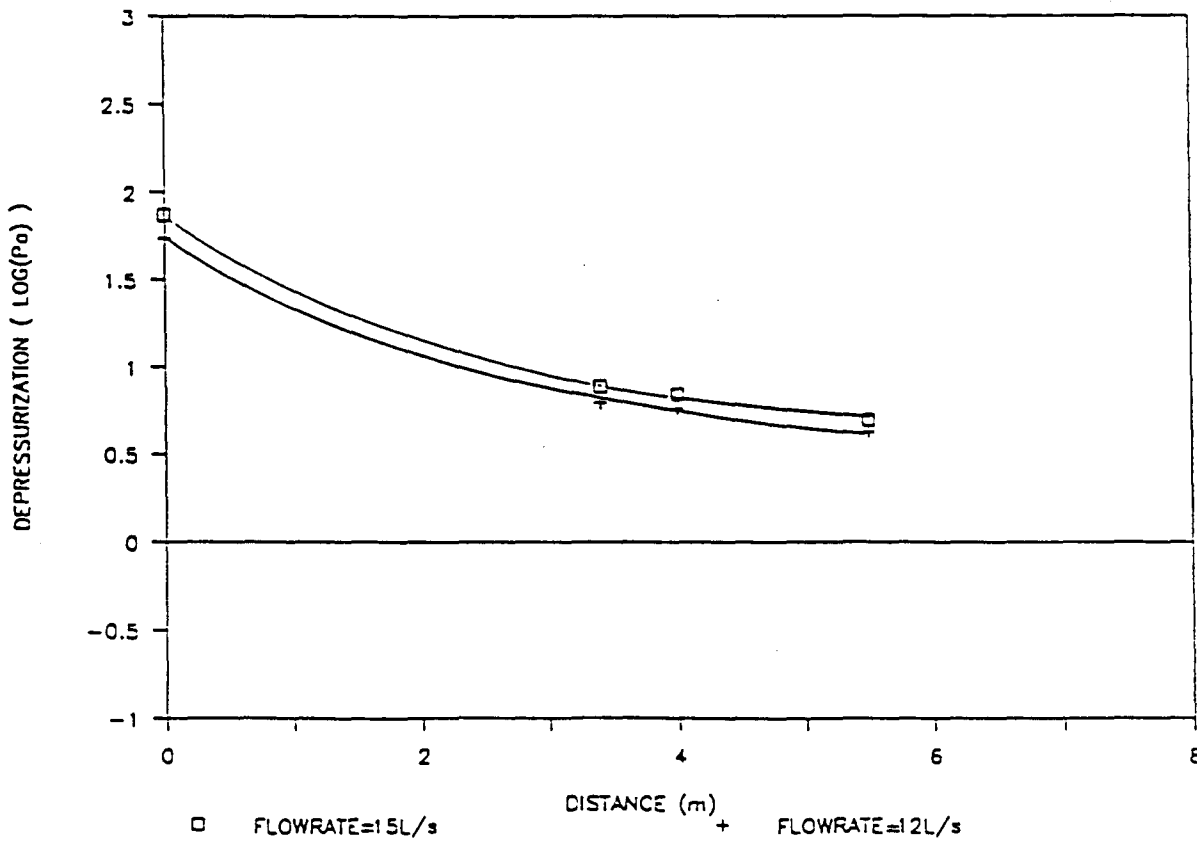
UNIT 28



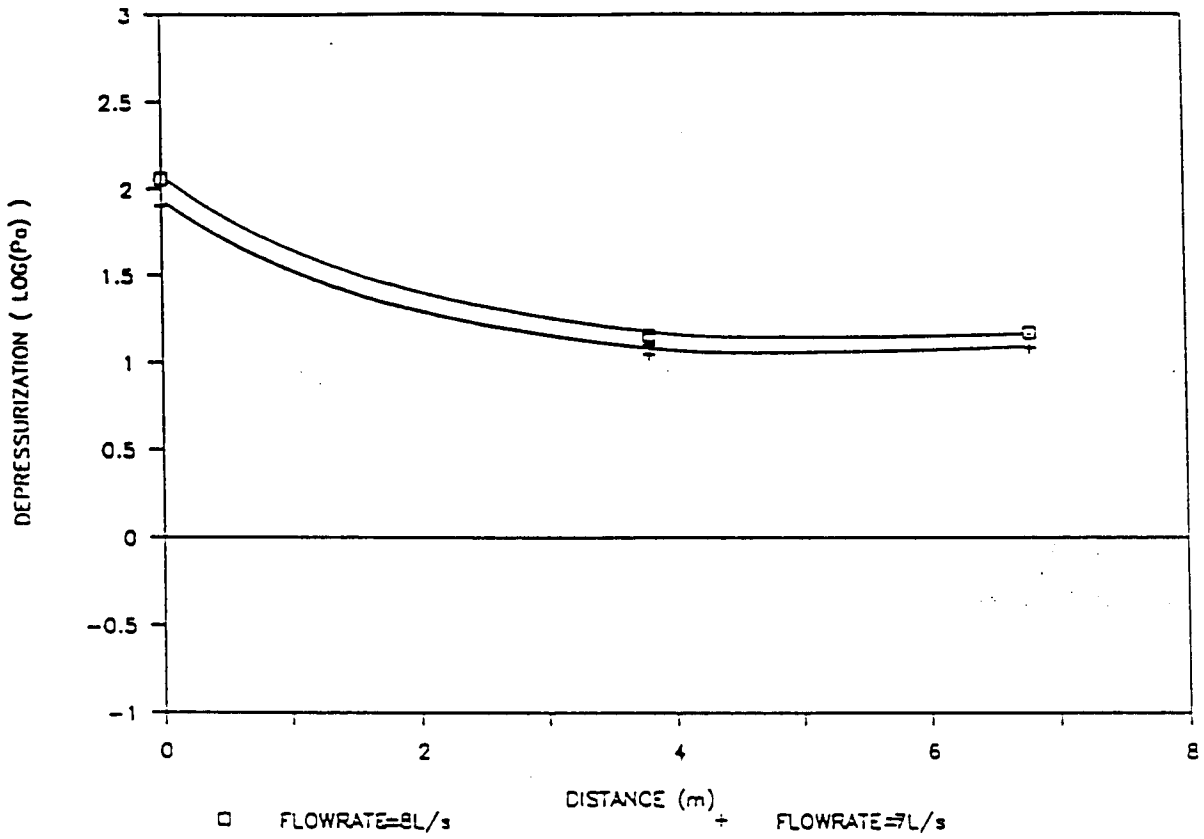
UNIT 29



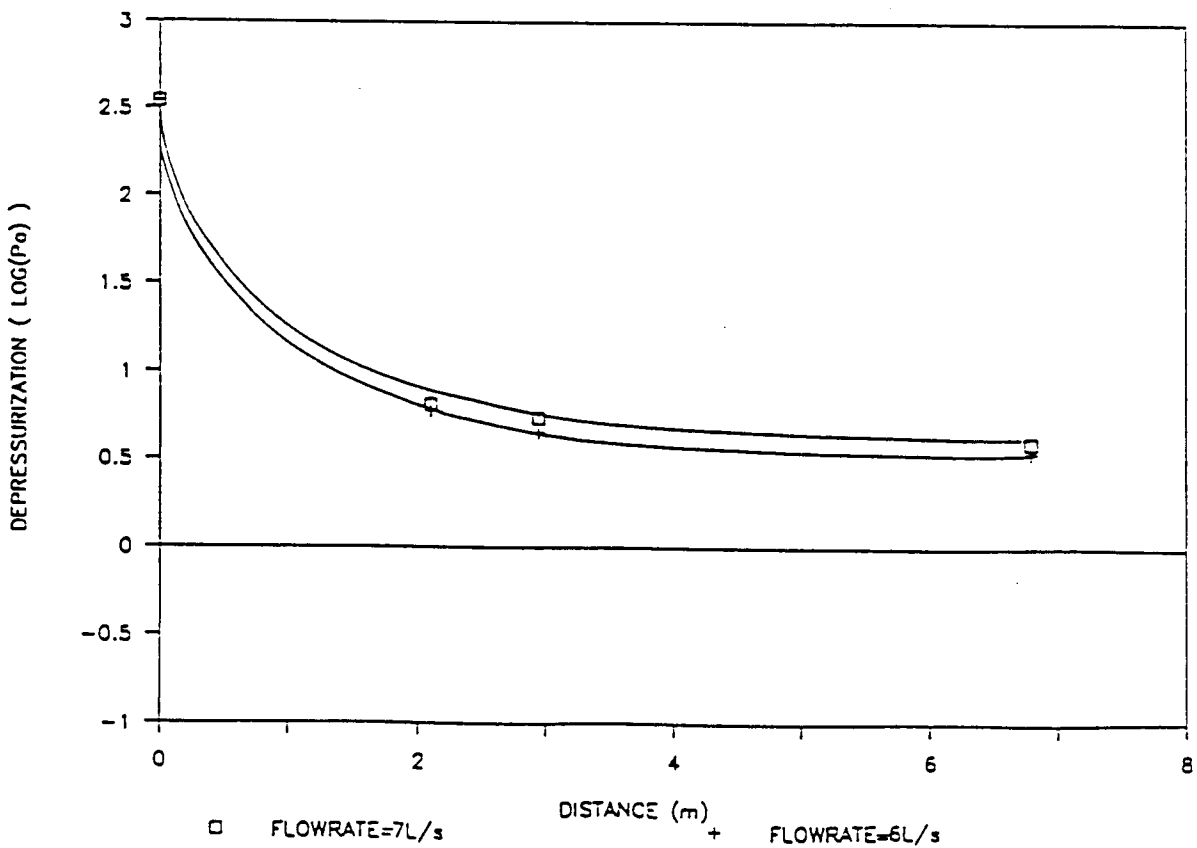
UNIT 30



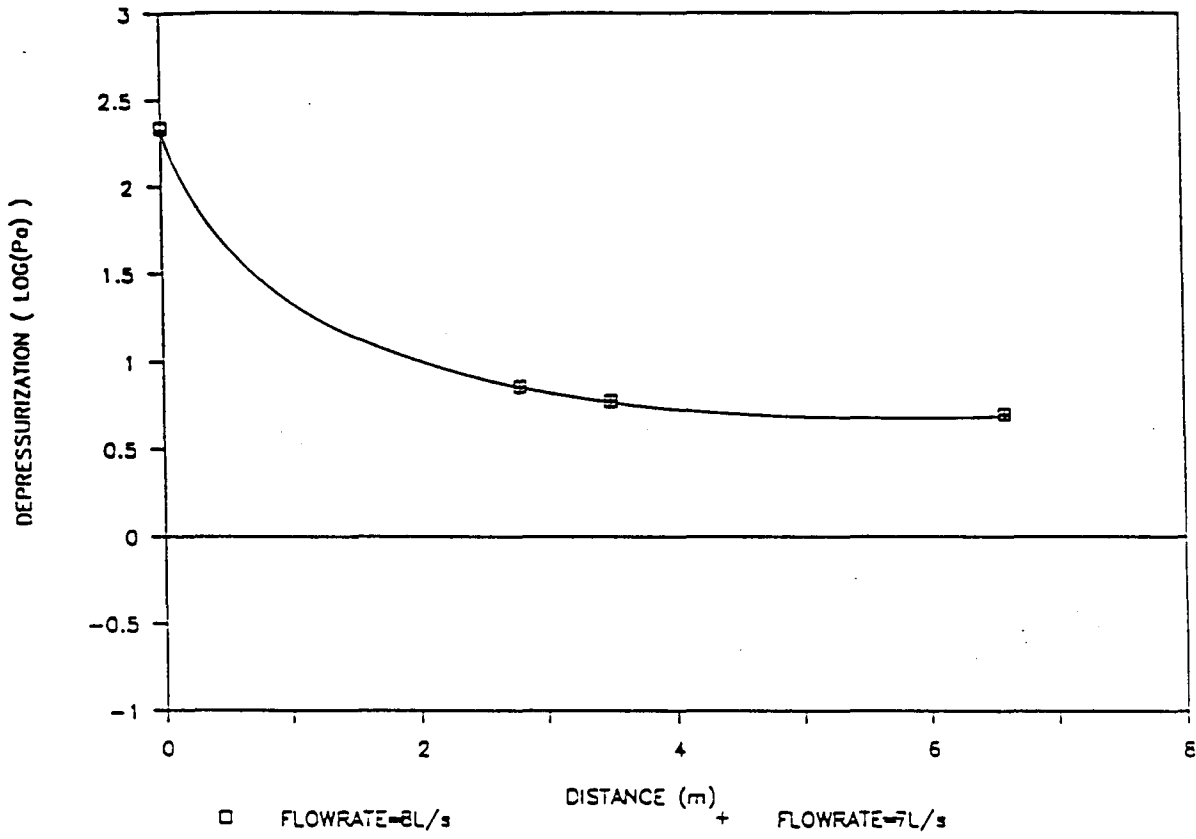
UNIT 31



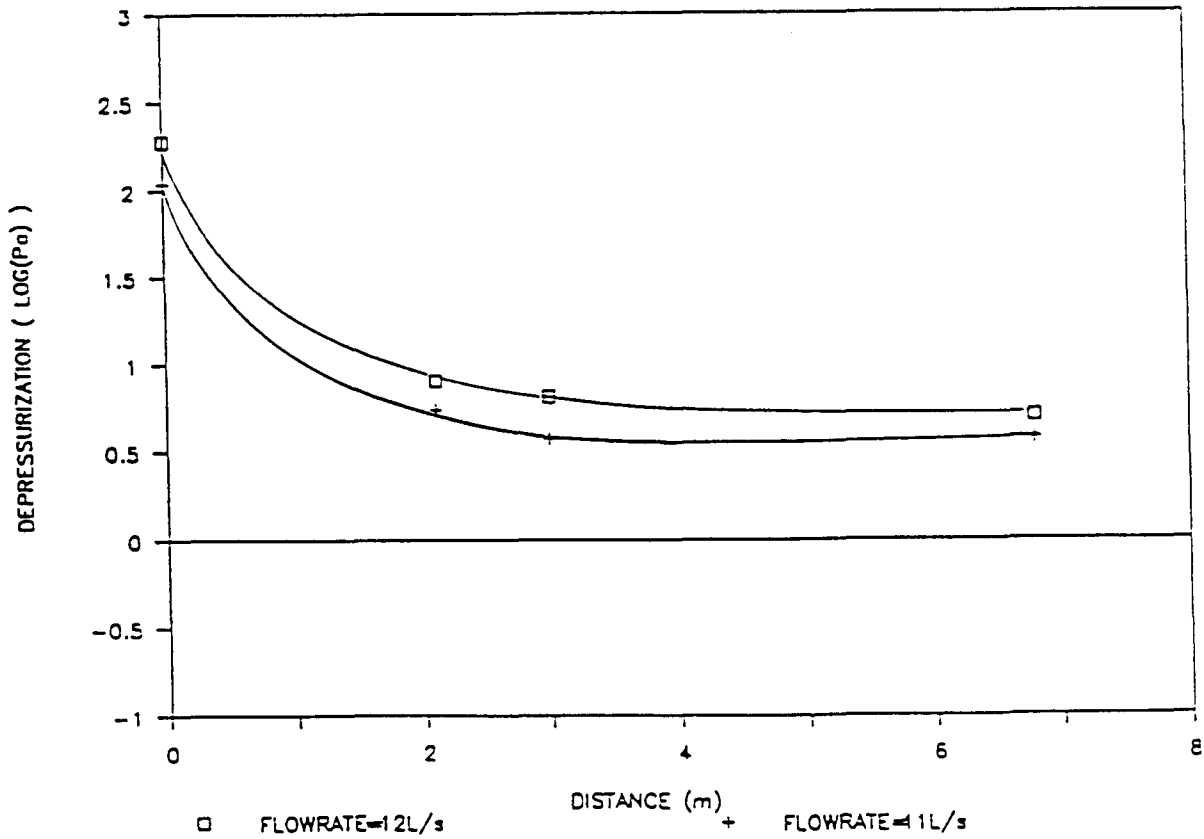
UNIT 32



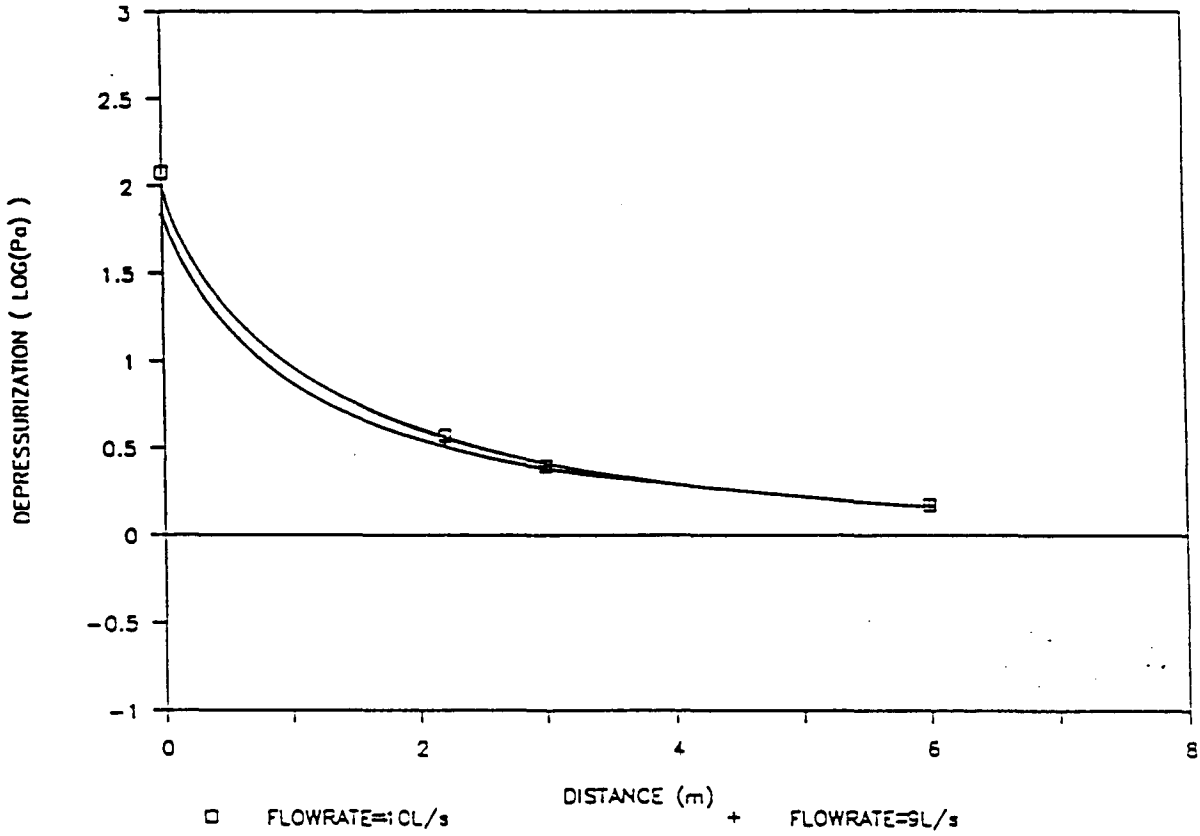
UNIT 33



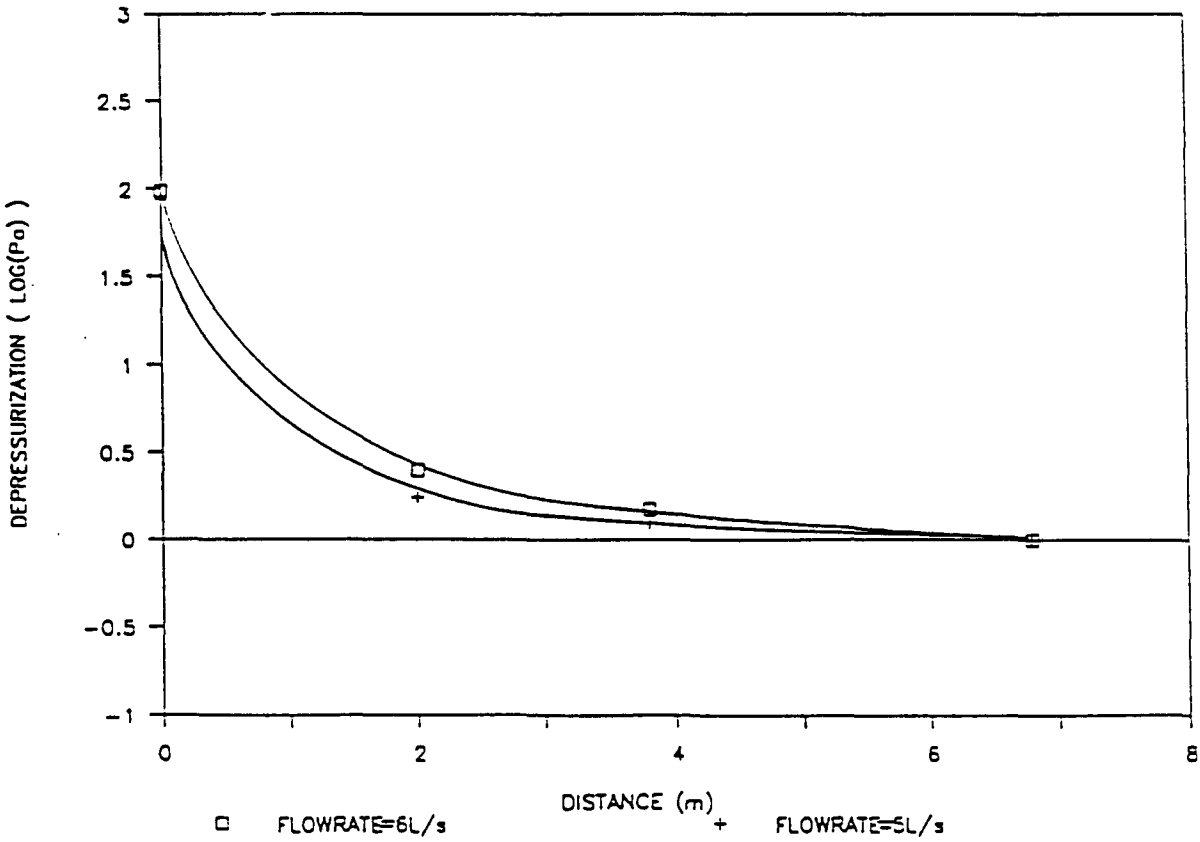
UNIT 34



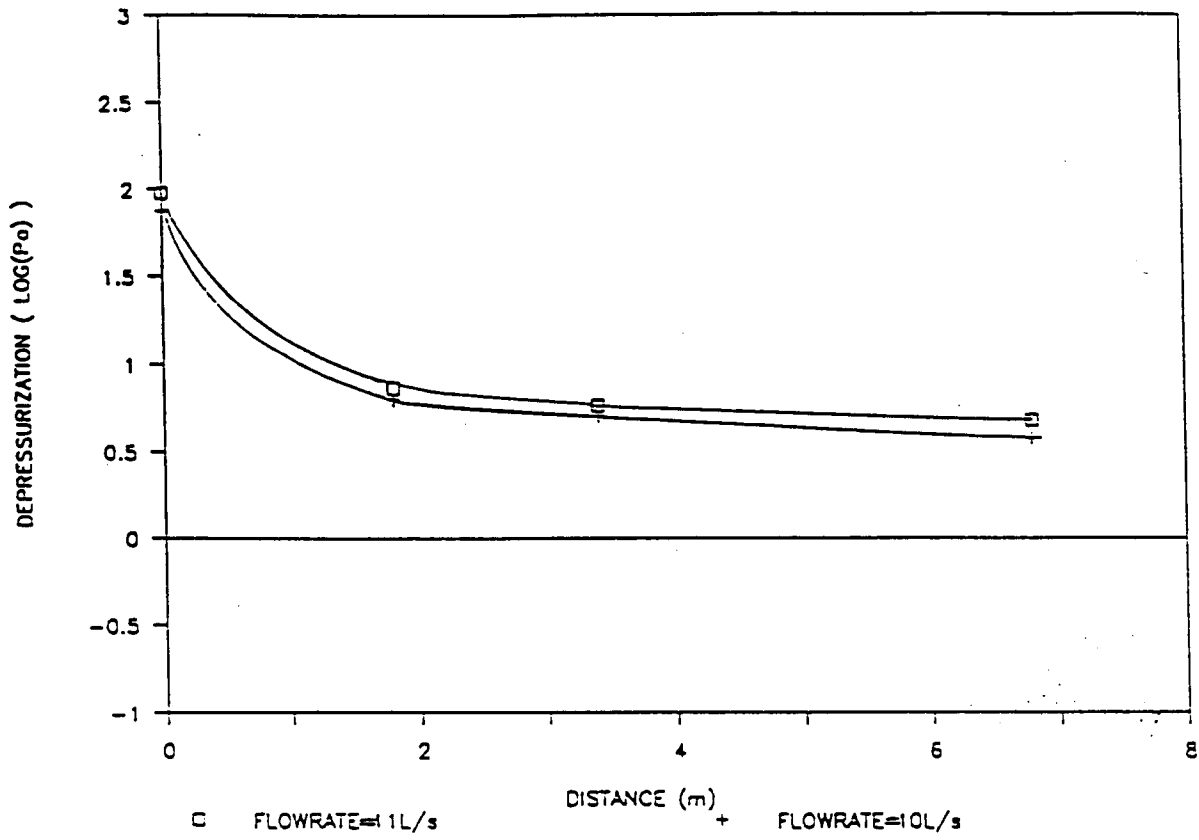
UNIT 35



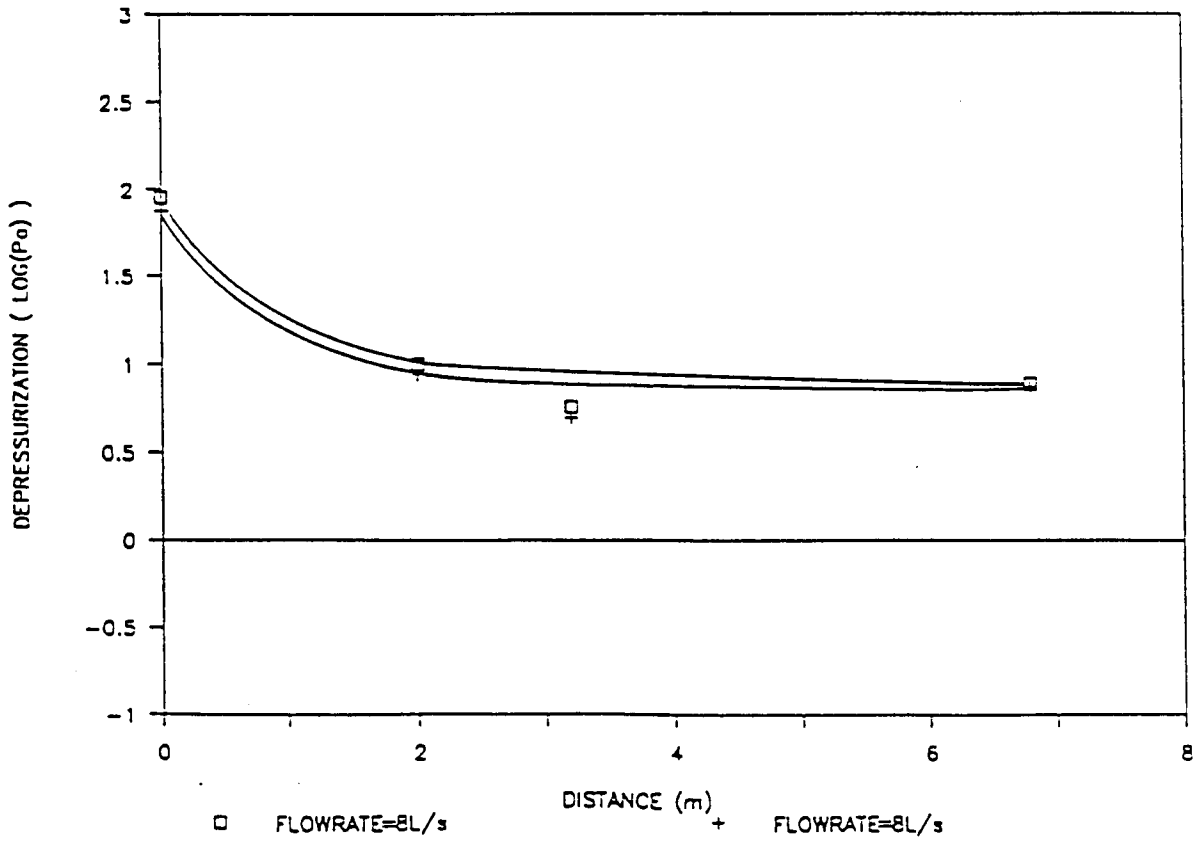
UNIT 36



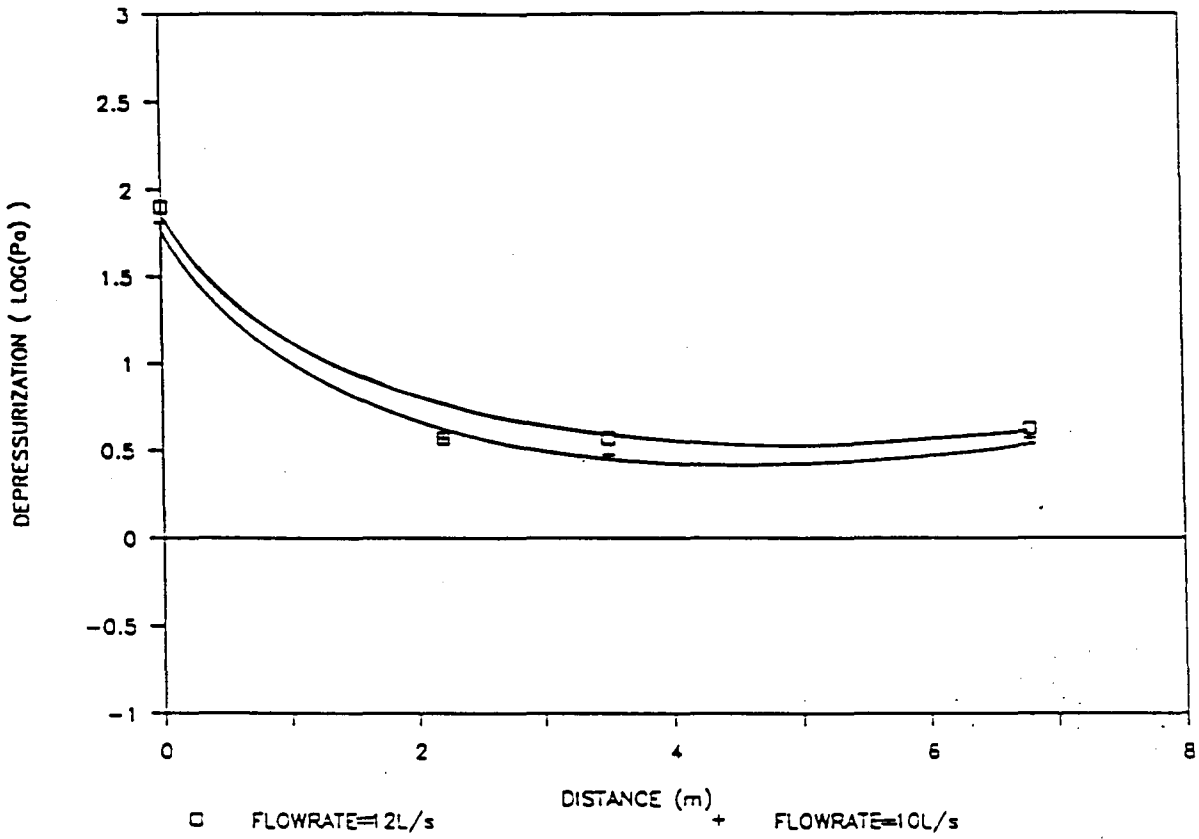
UNIT 37



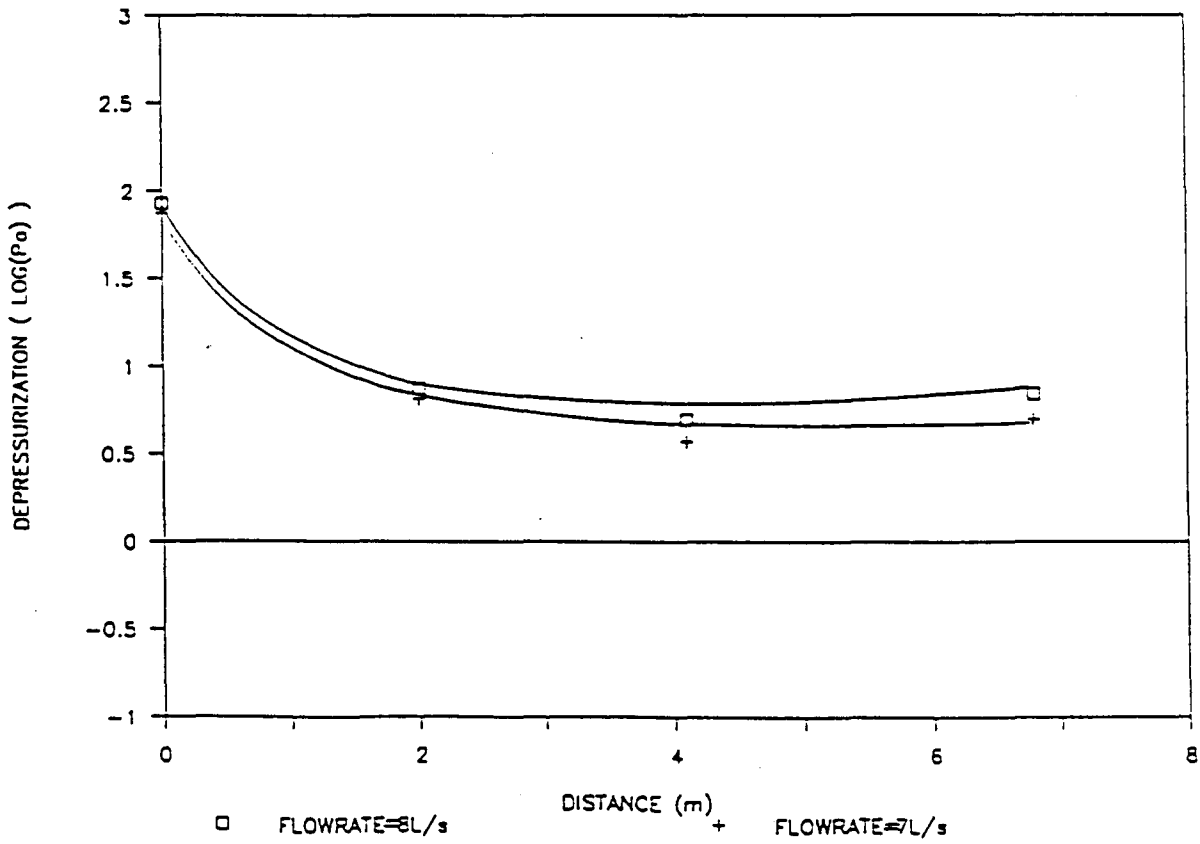
UNIT 38



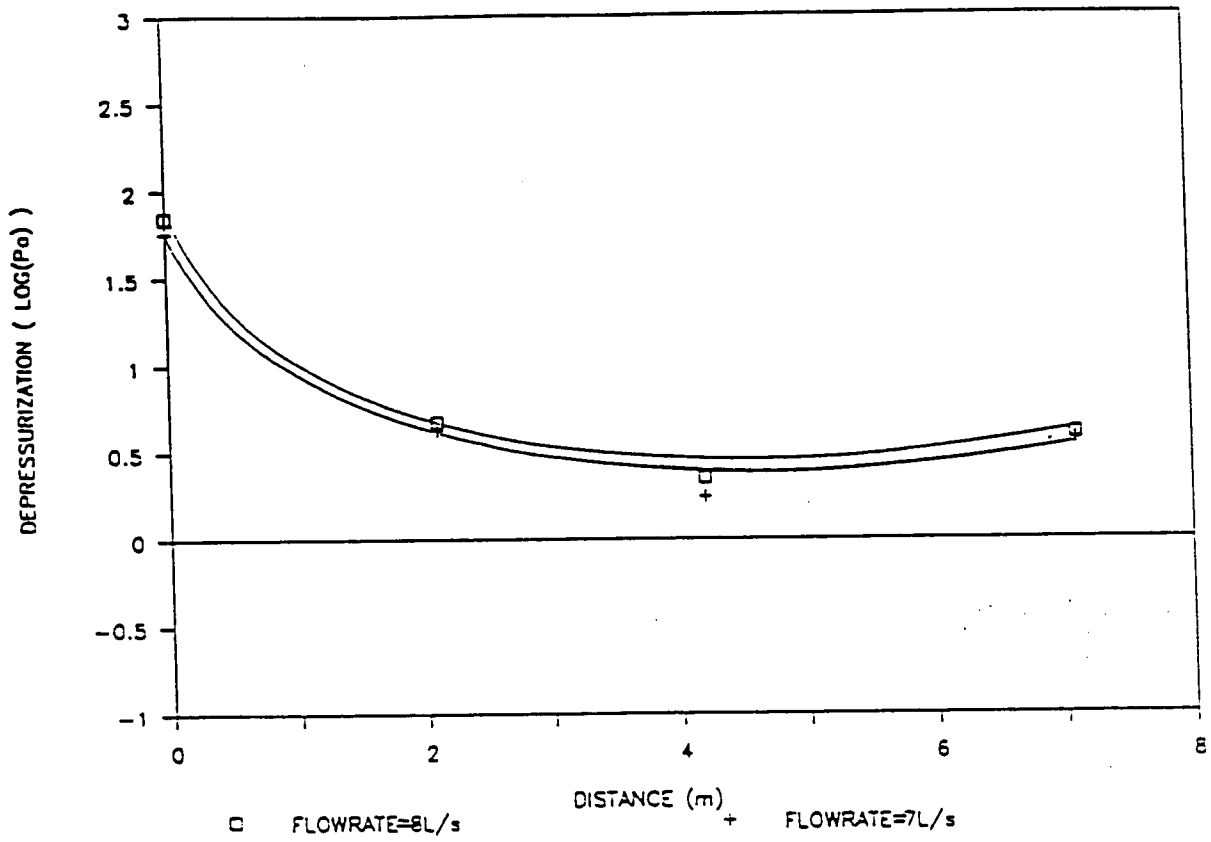
UNIT 39



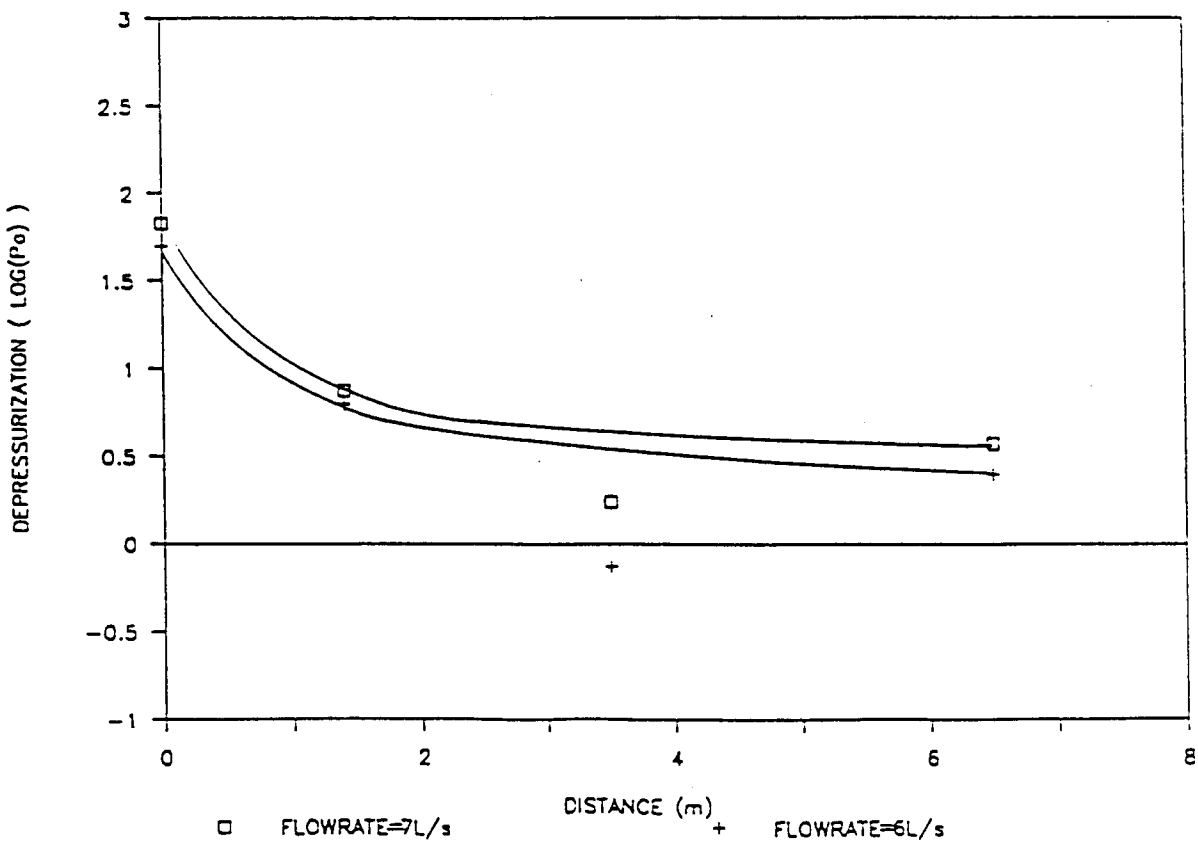
UNIT 40



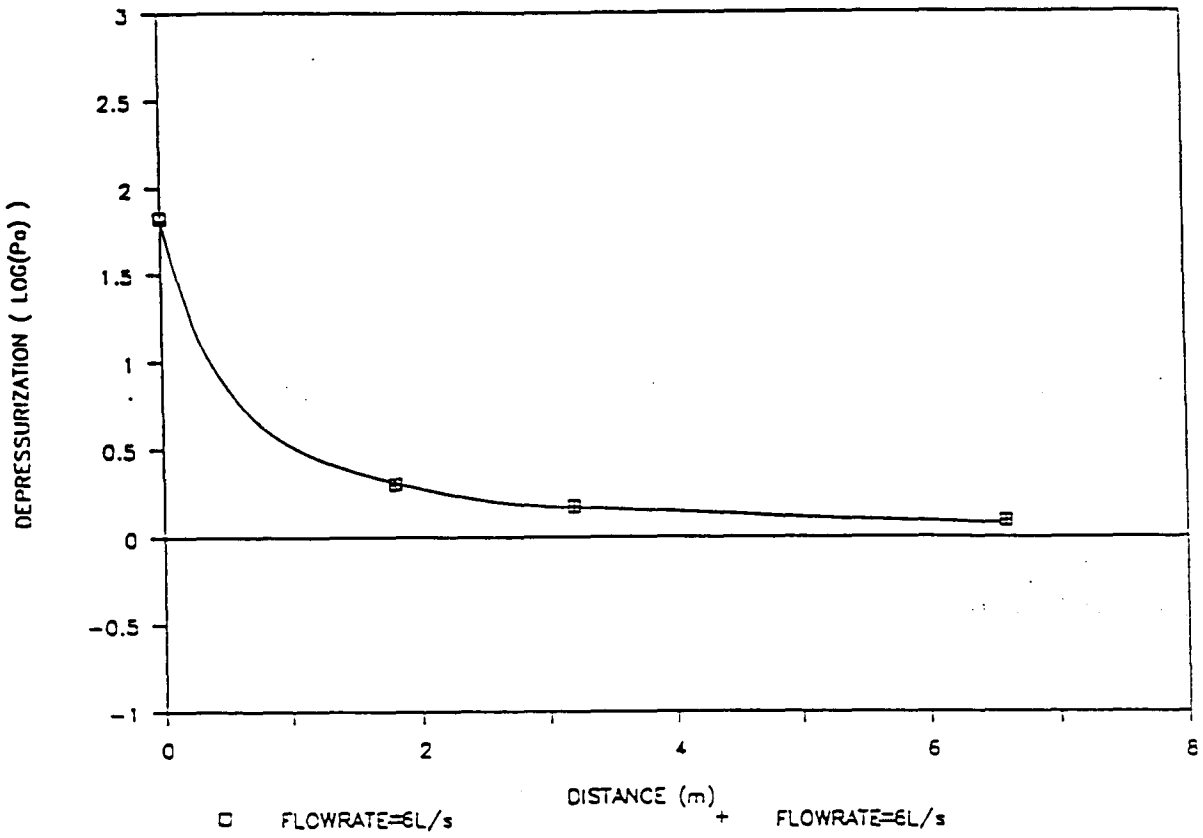
UNIT 41



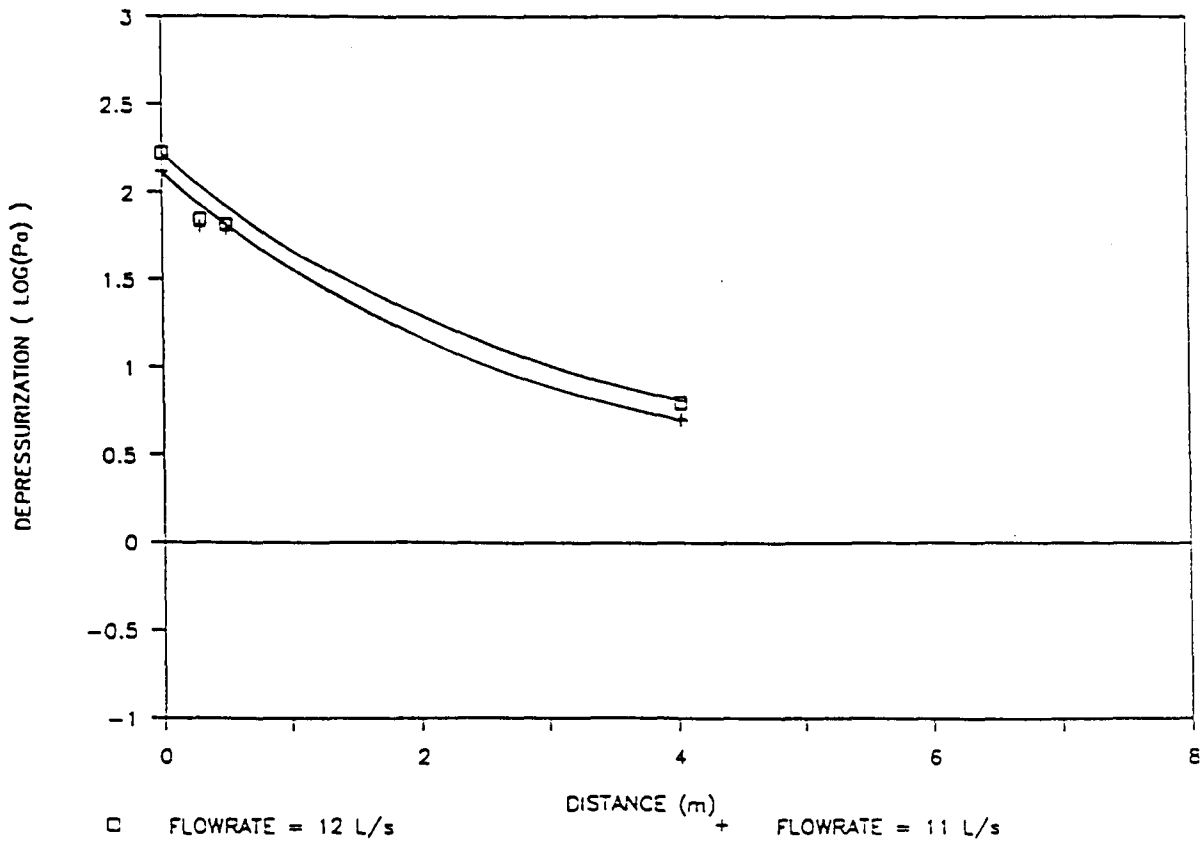
UNIT 42



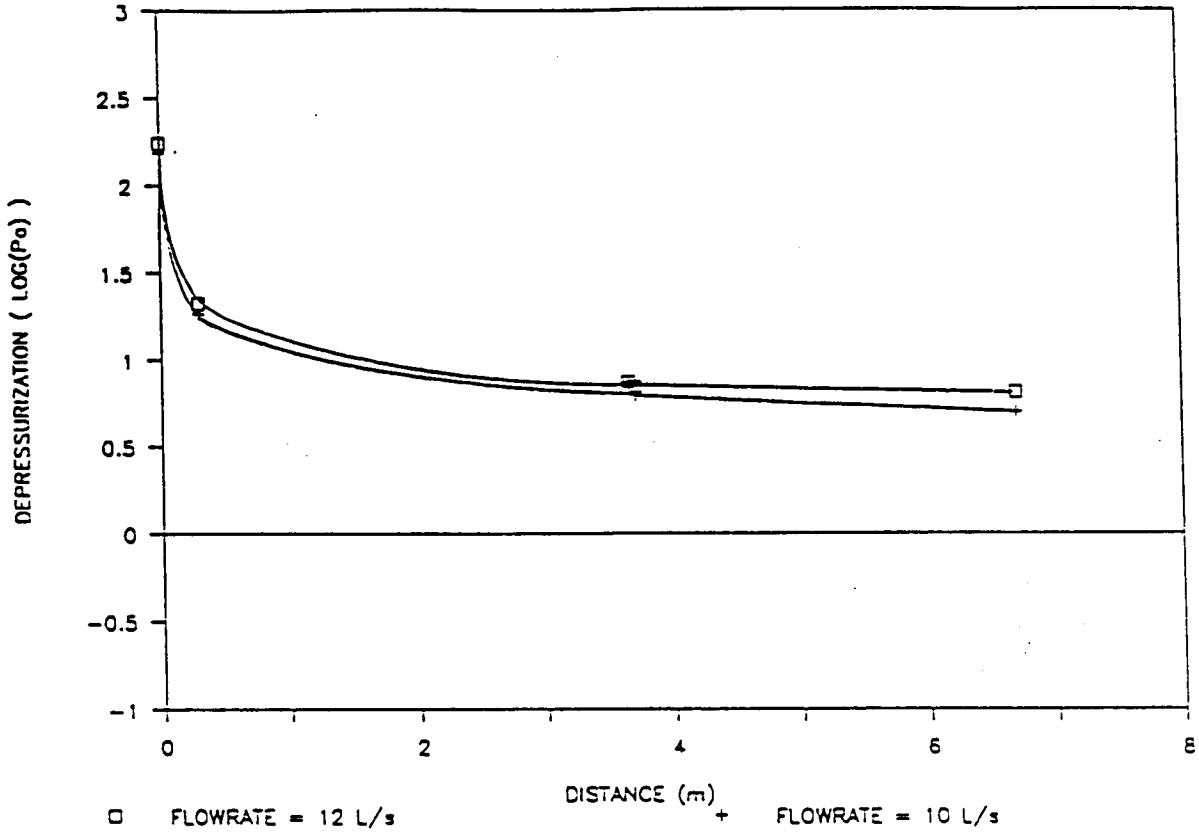
UNIT 43



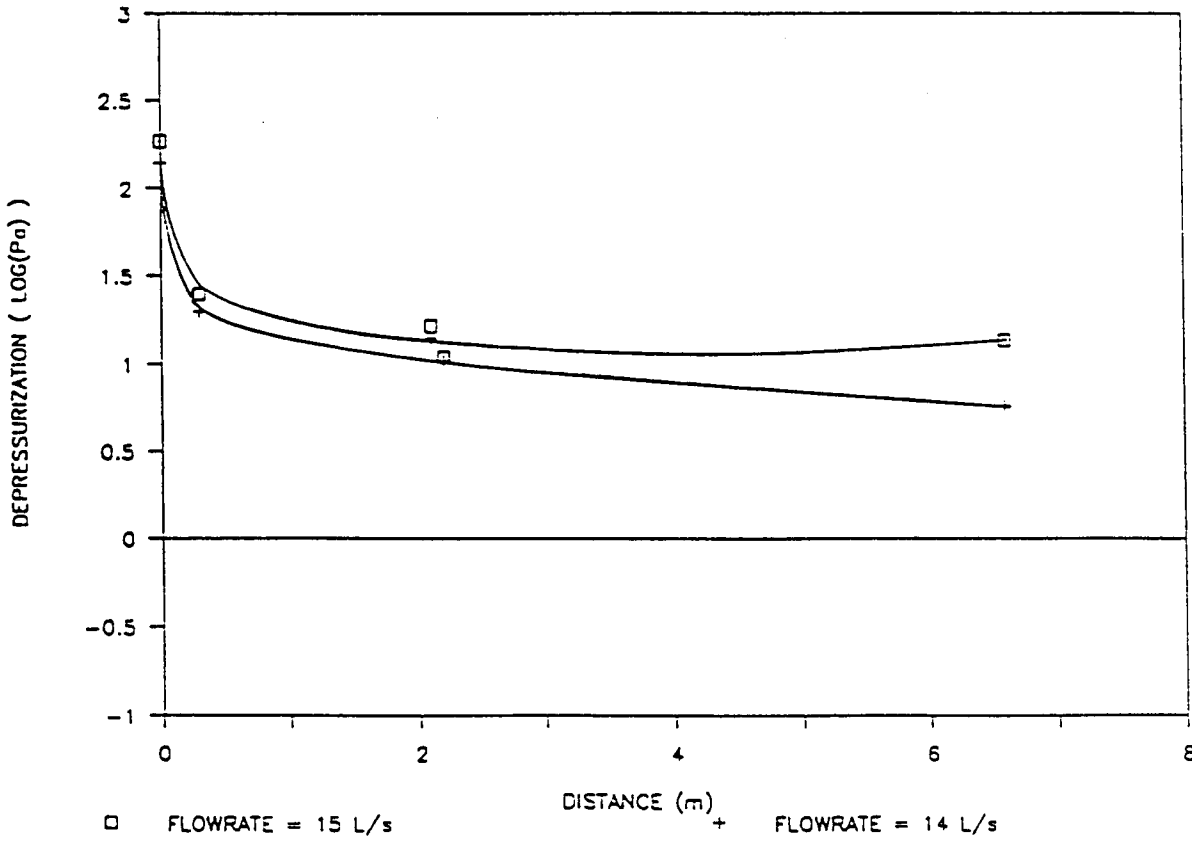
UNIT 44



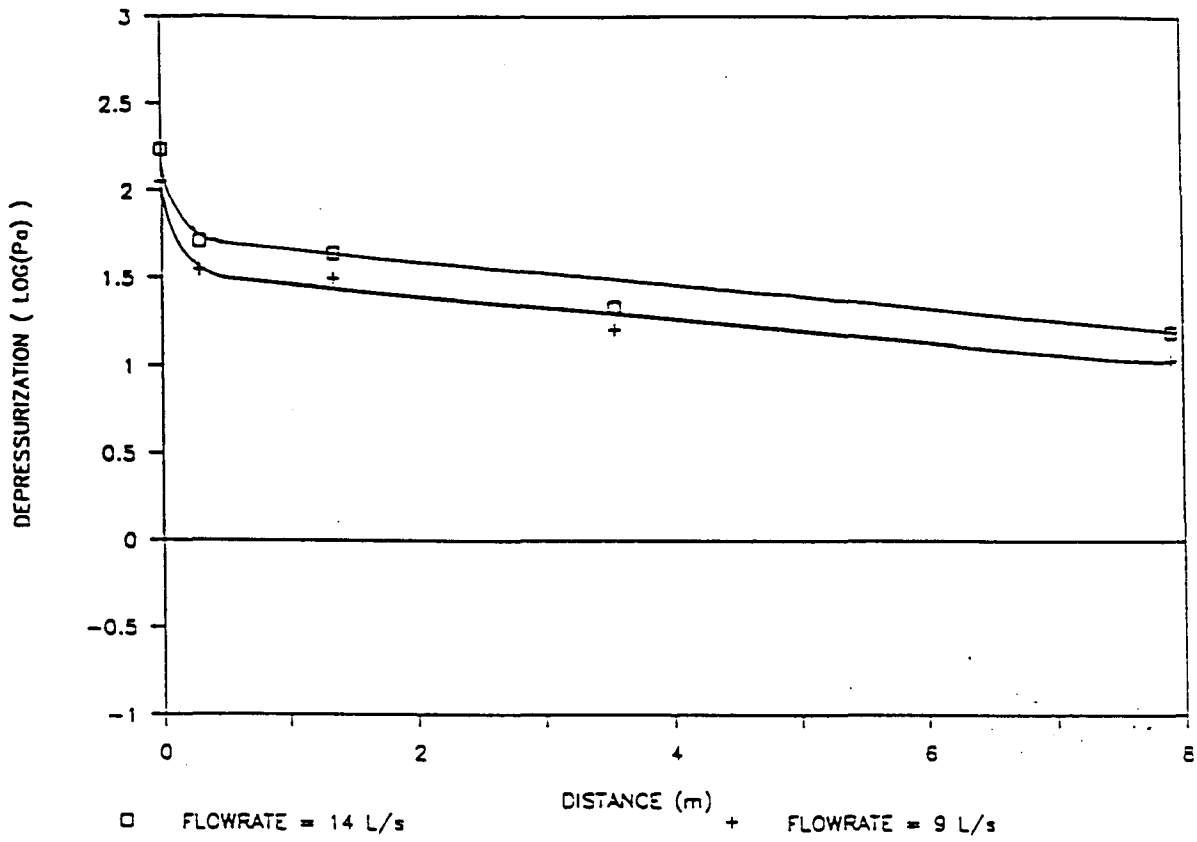
UNIT 45



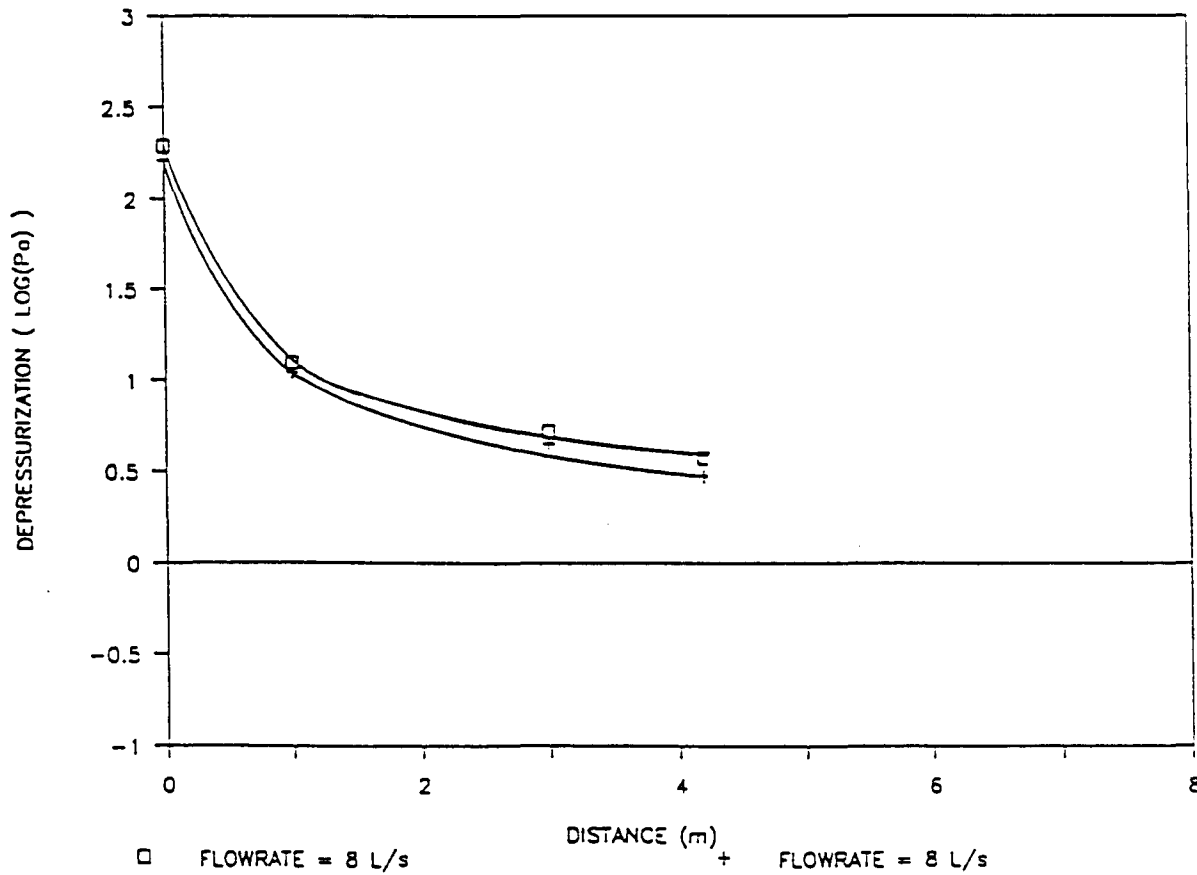
UNIT 46



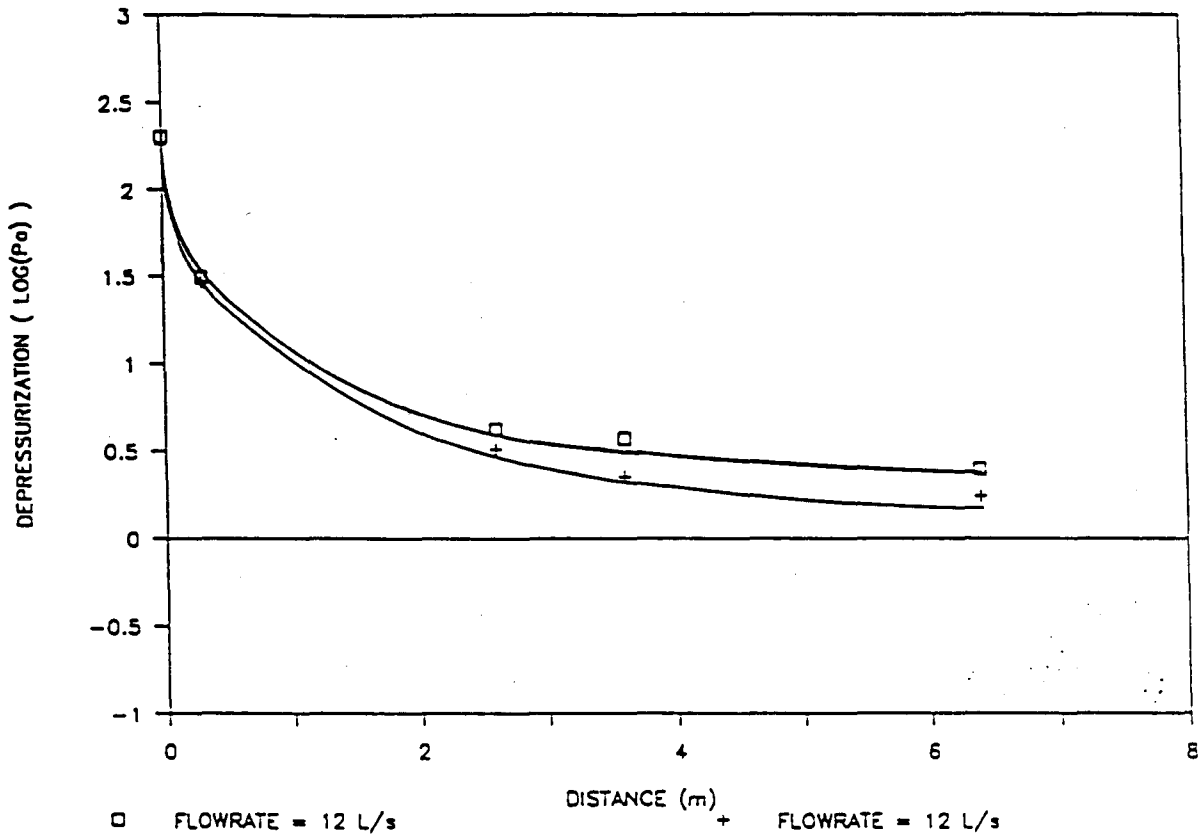
UNIT 47



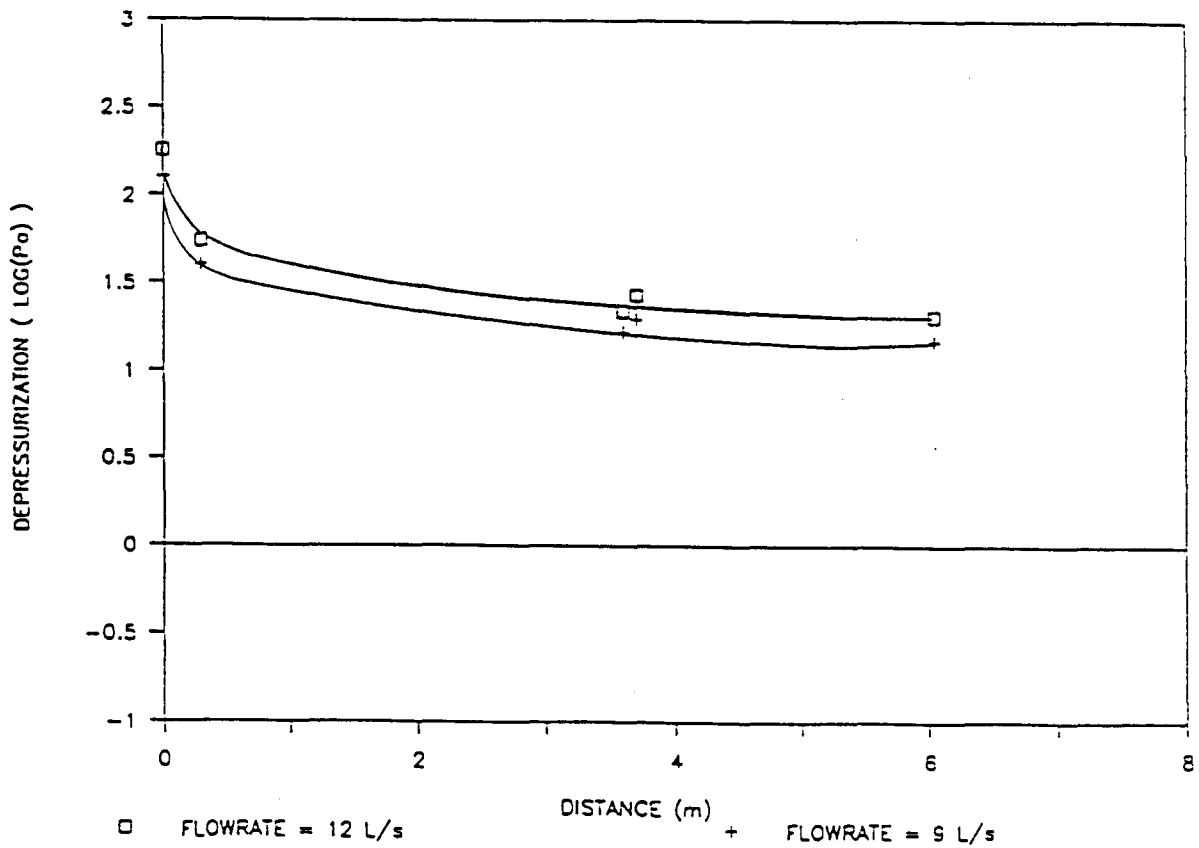
UNIT 48



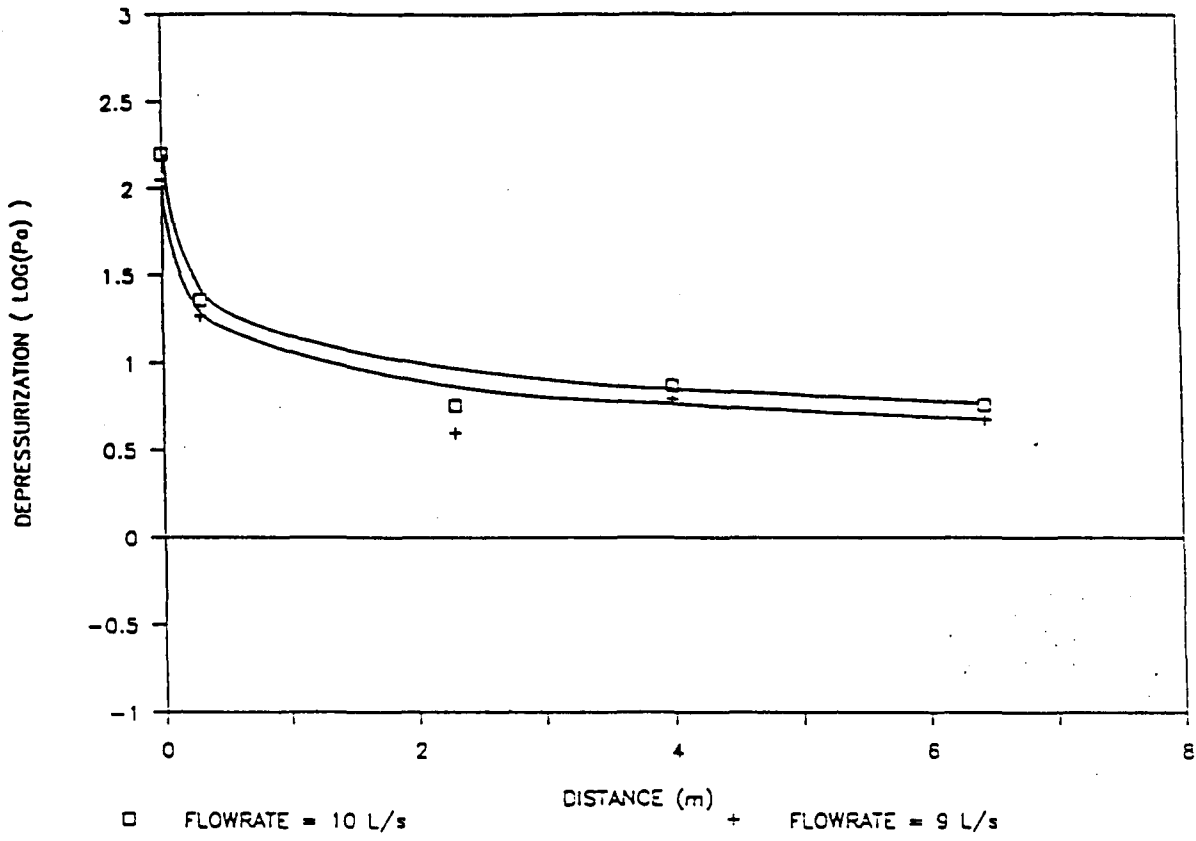
UNIT 49



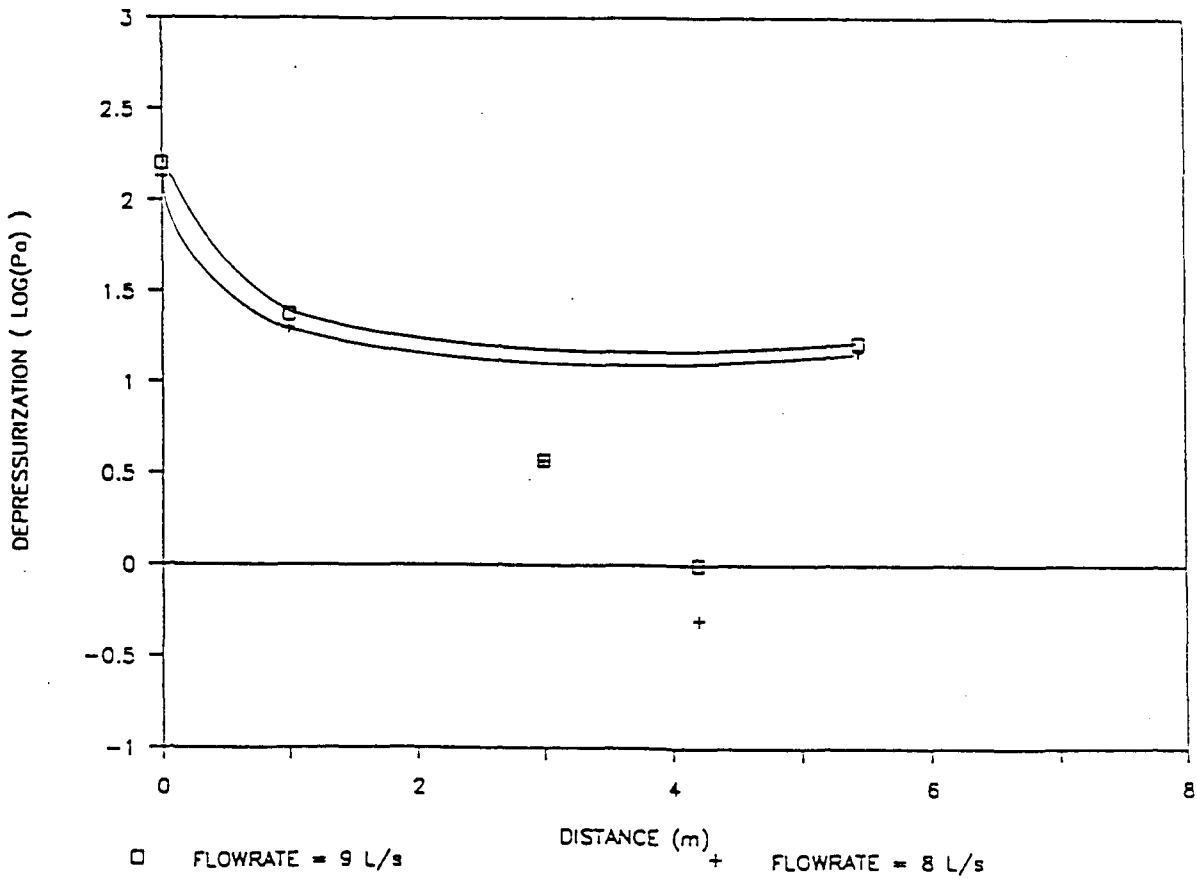
UNIT 50



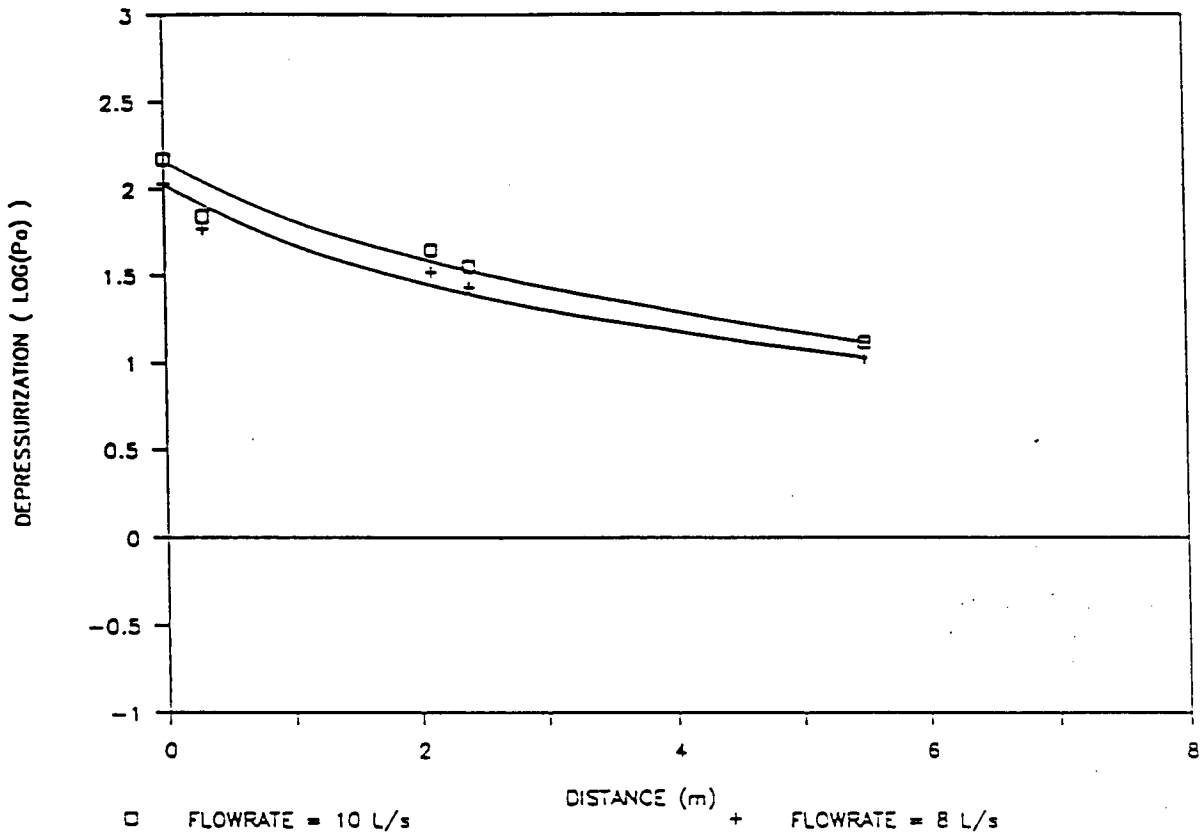
UNIT 51



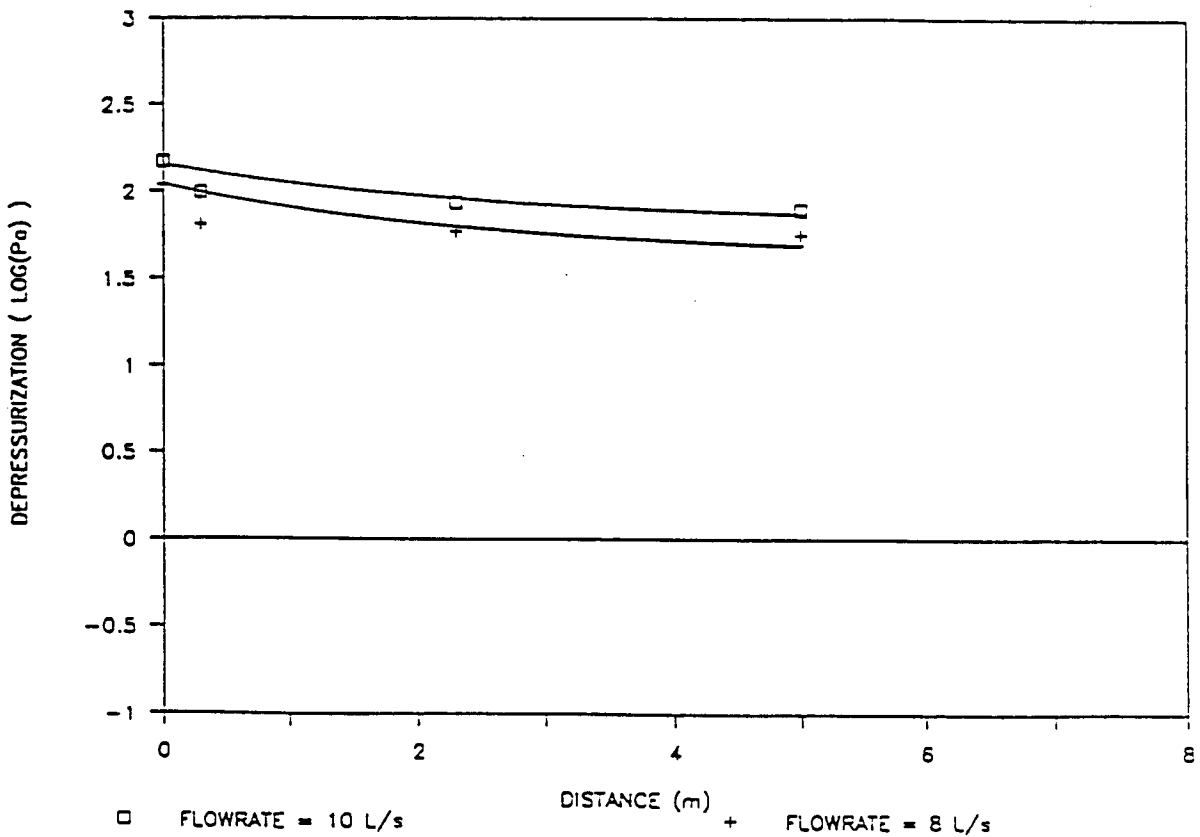
UNIT 52



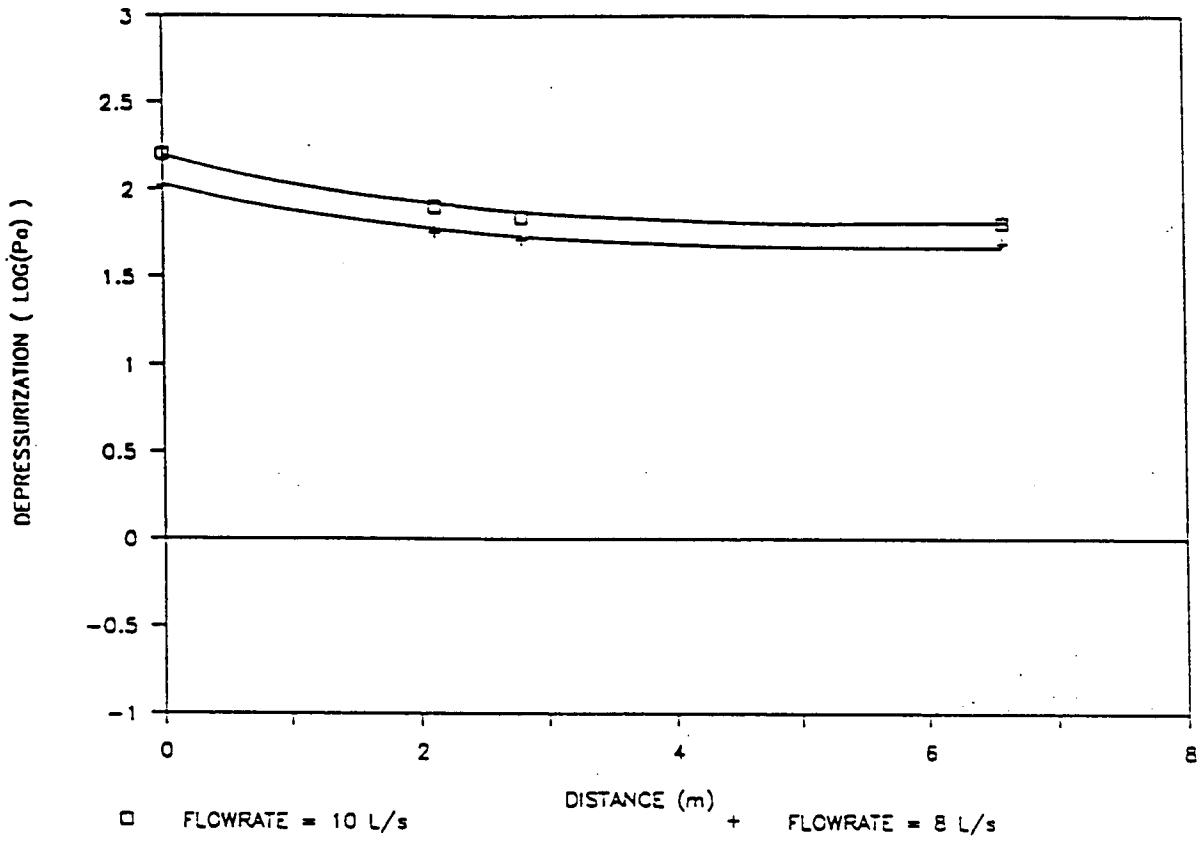
UNIT 53



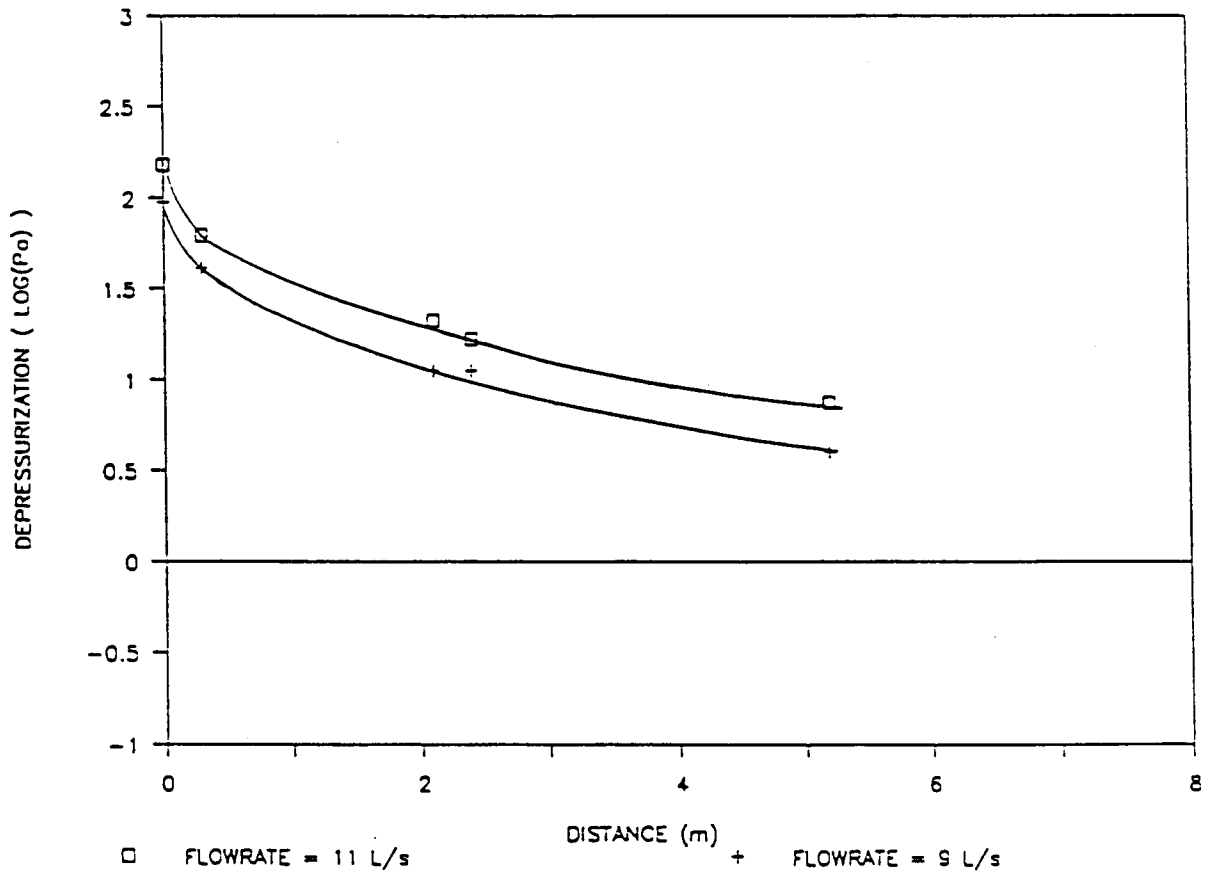
UNIT 54



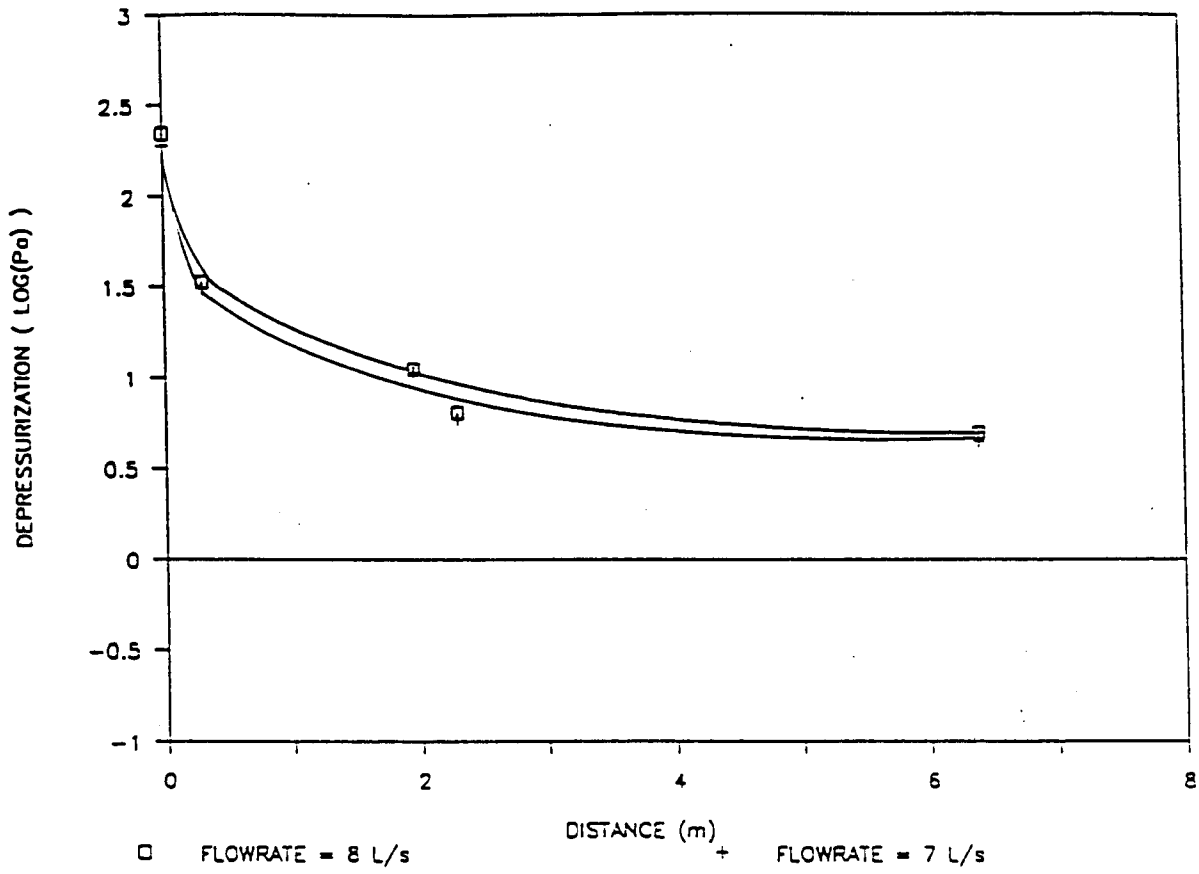
UNIT 55



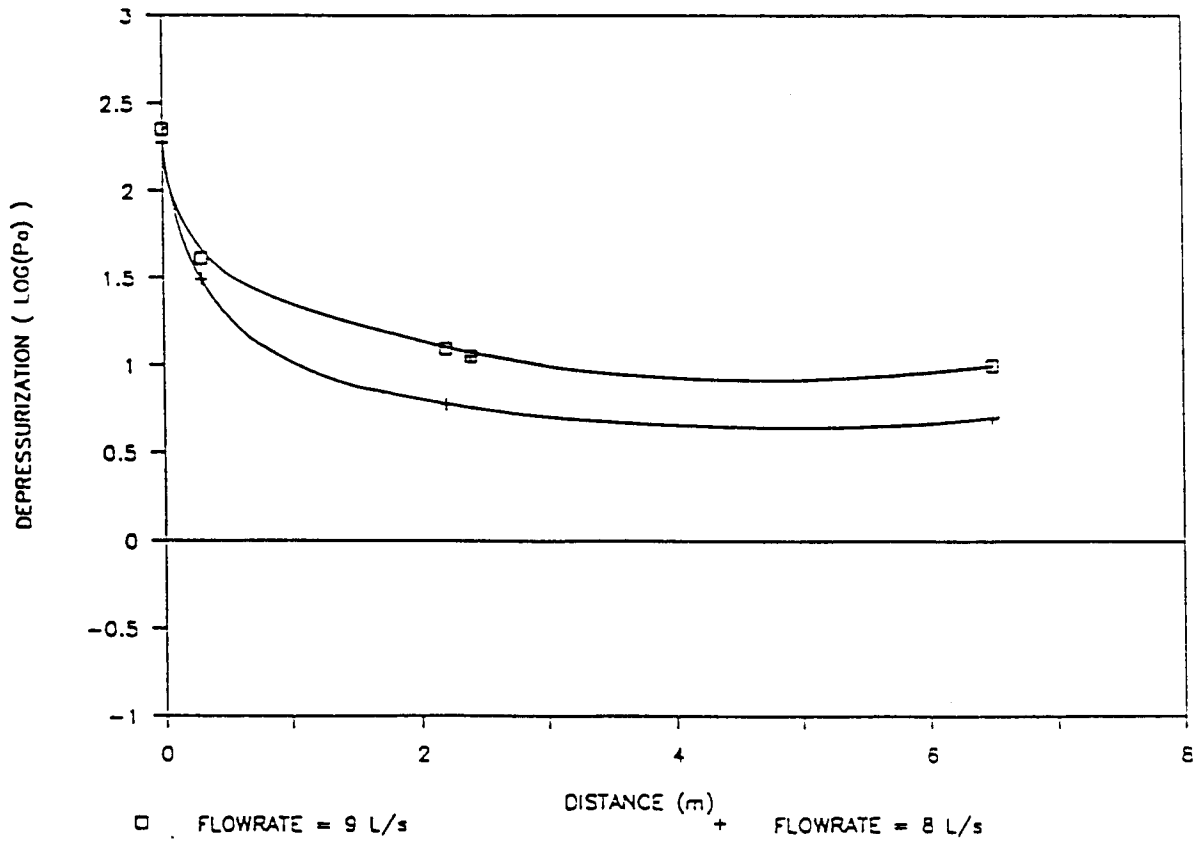
UNIT 56



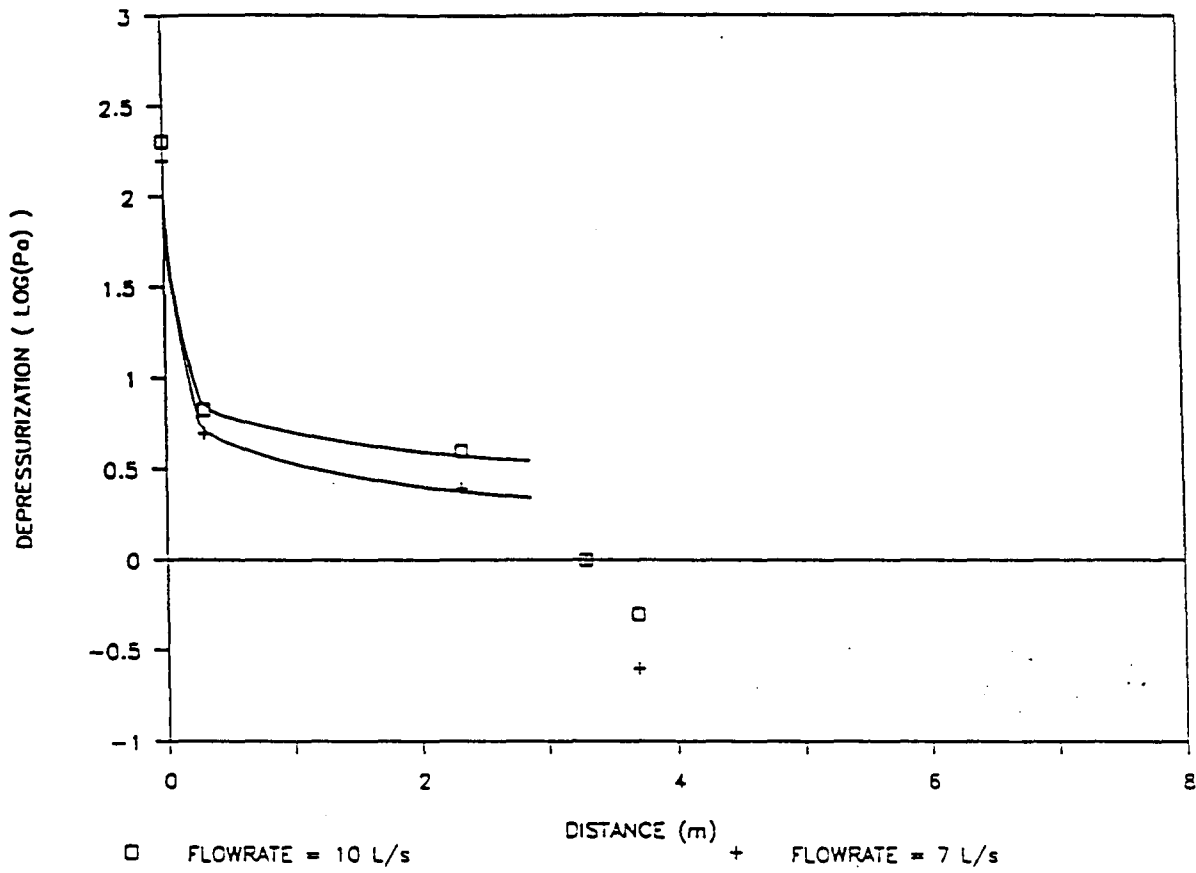
UNIT 58



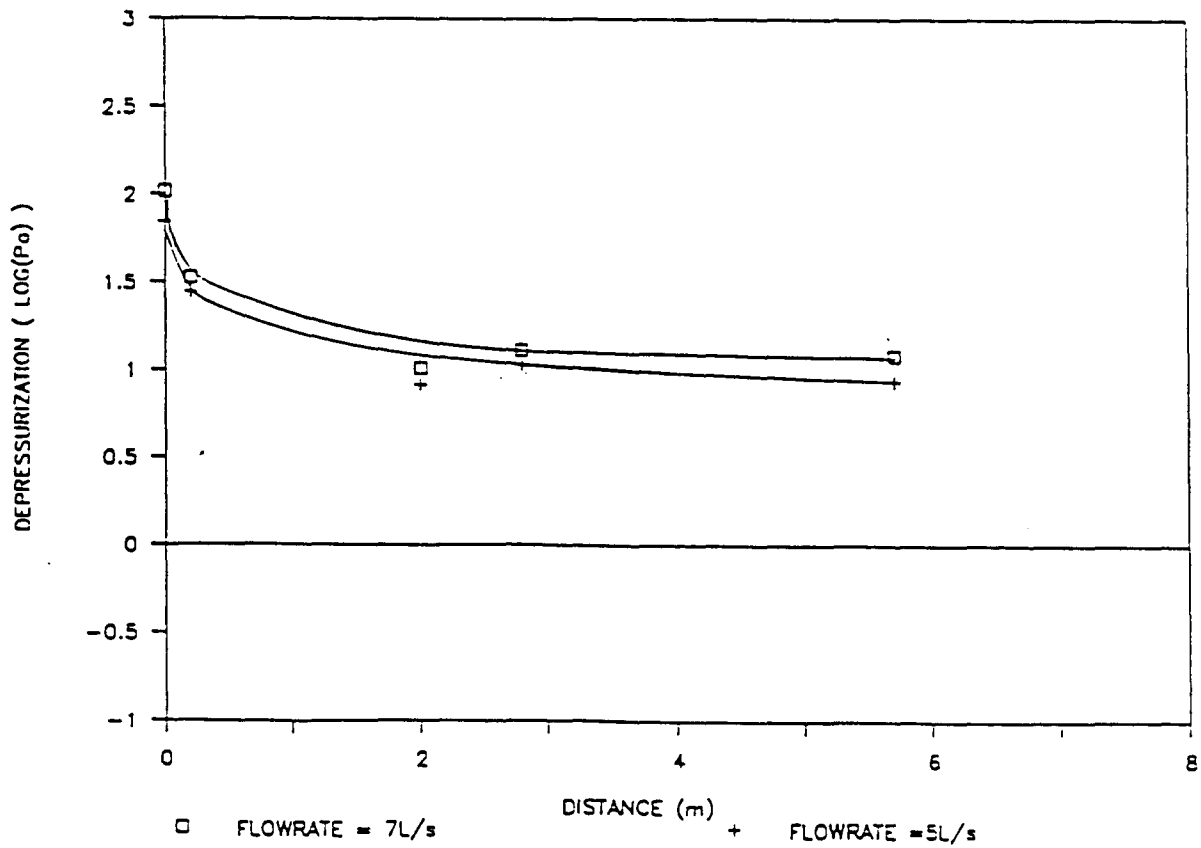
UNIT 57



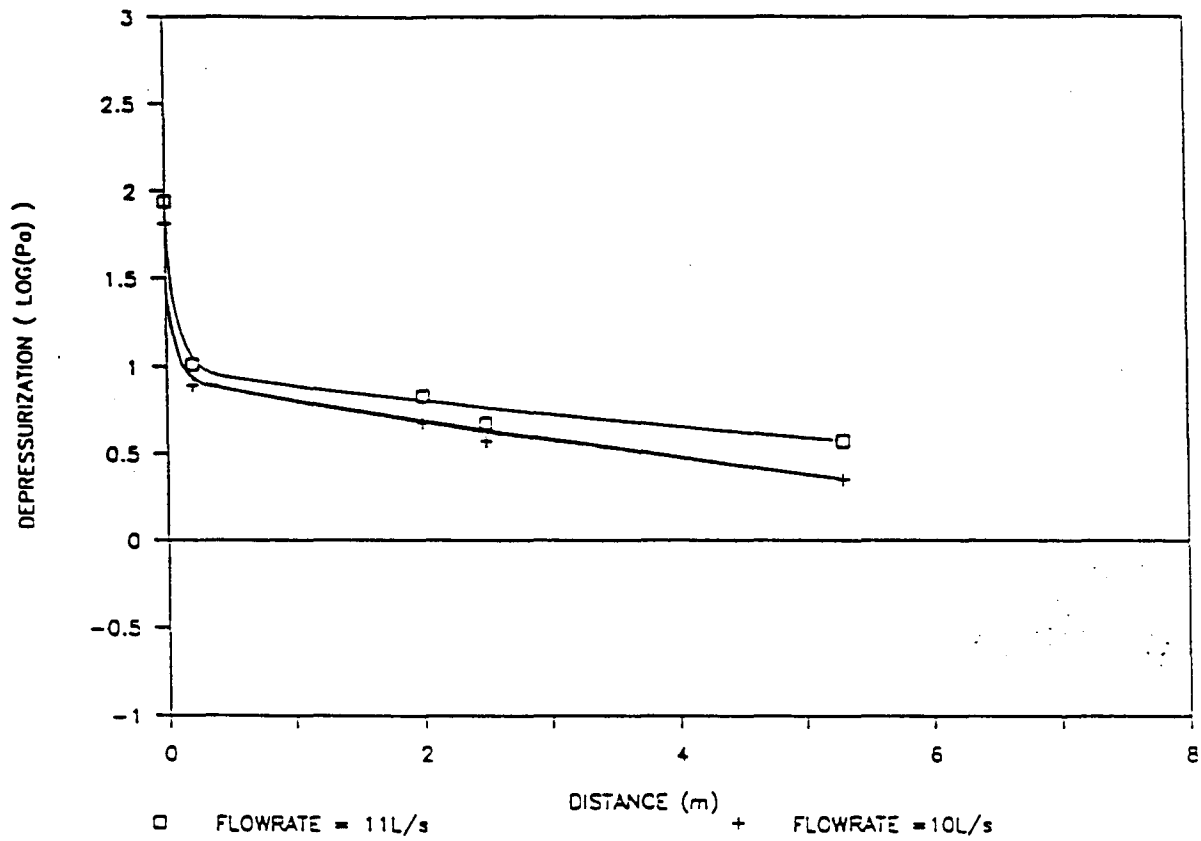
UNIT 59



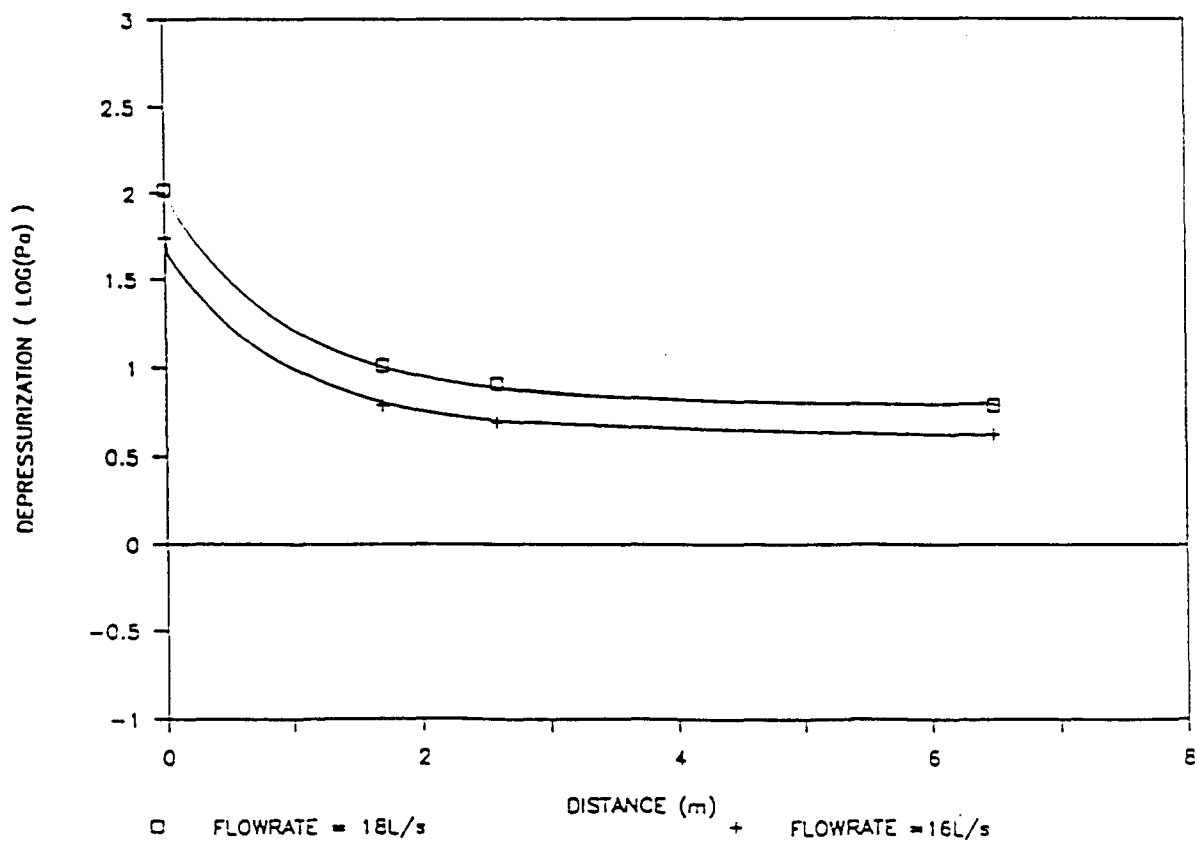
UNIT 60



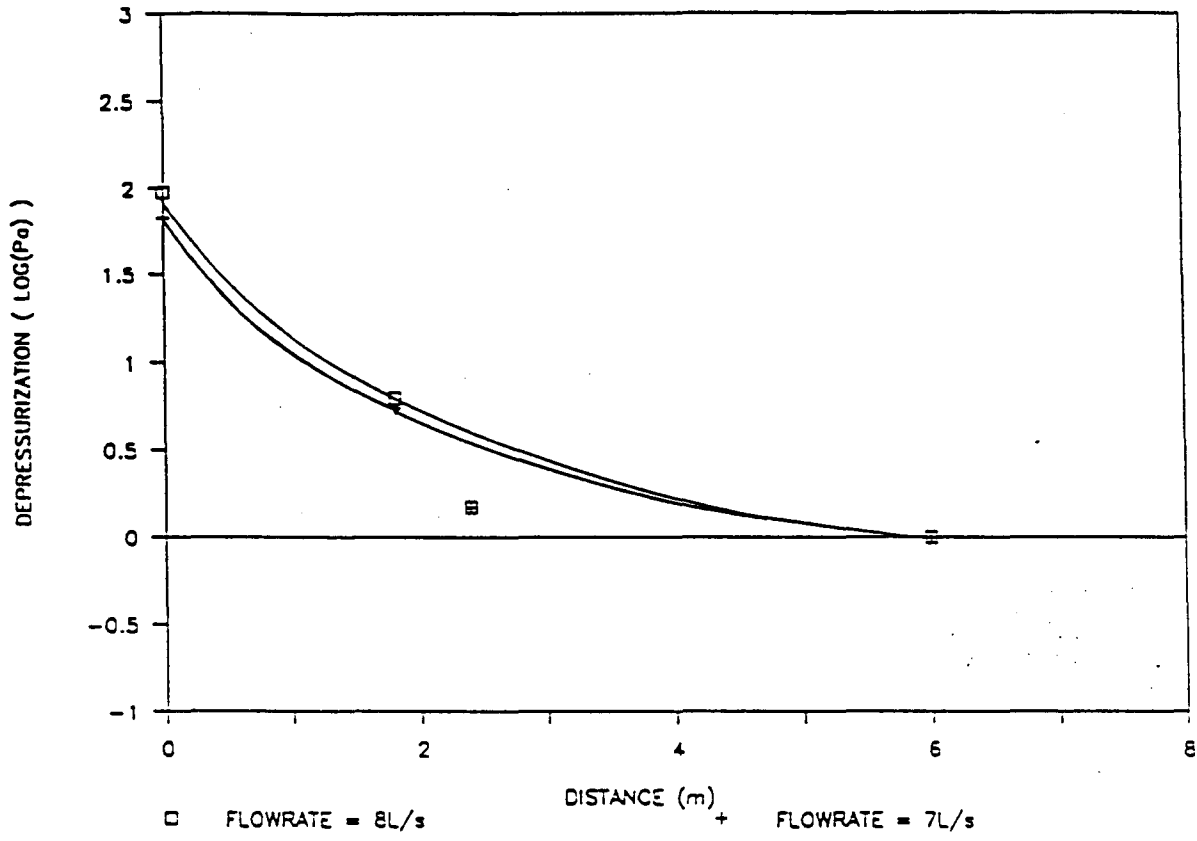
UNIT 61



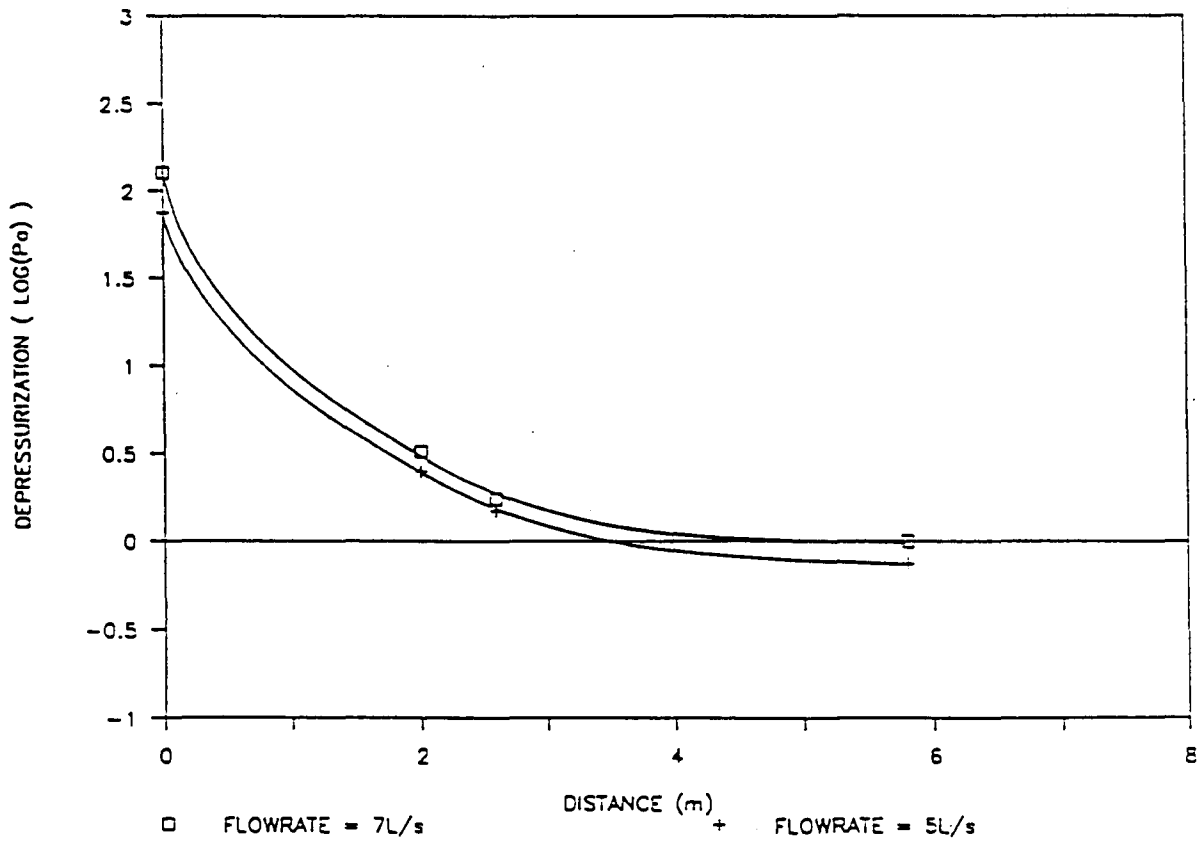
UNIT 62



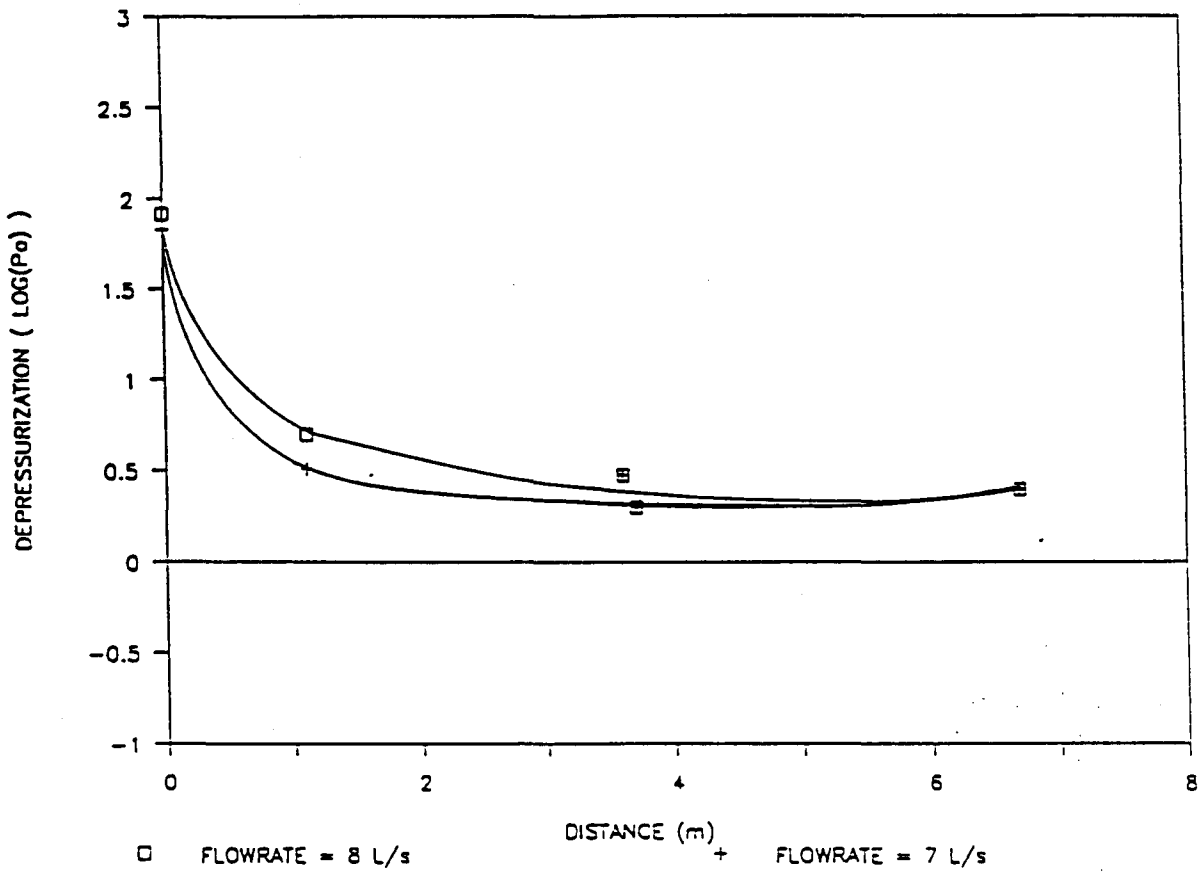
UNIT 63



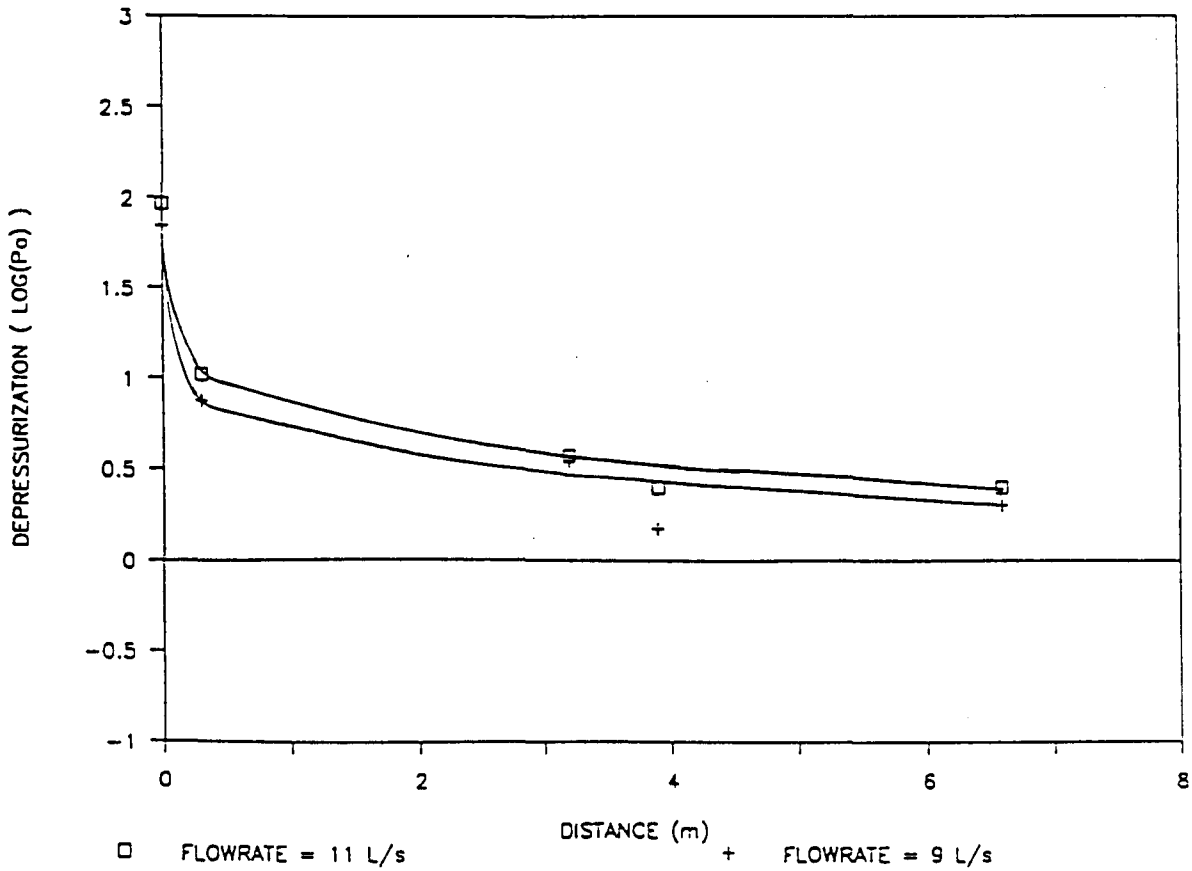
UNIT 64



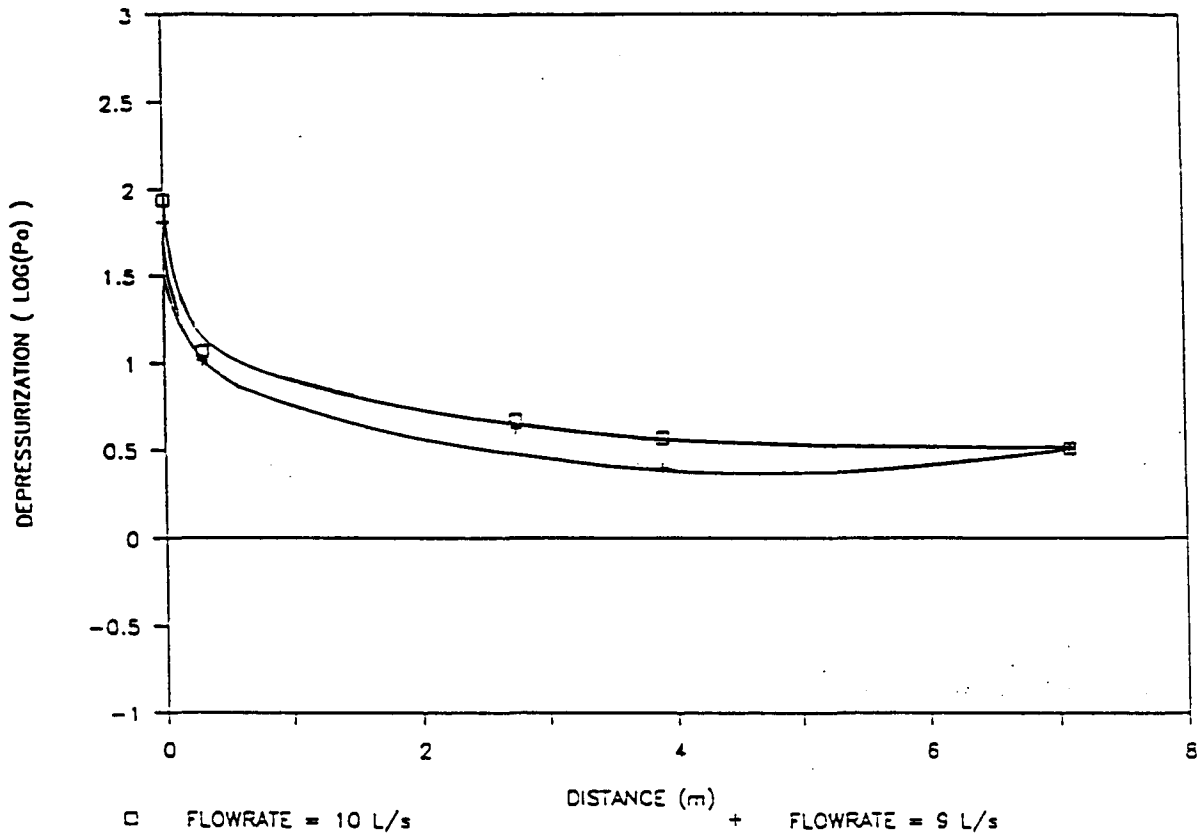
UNIT 65



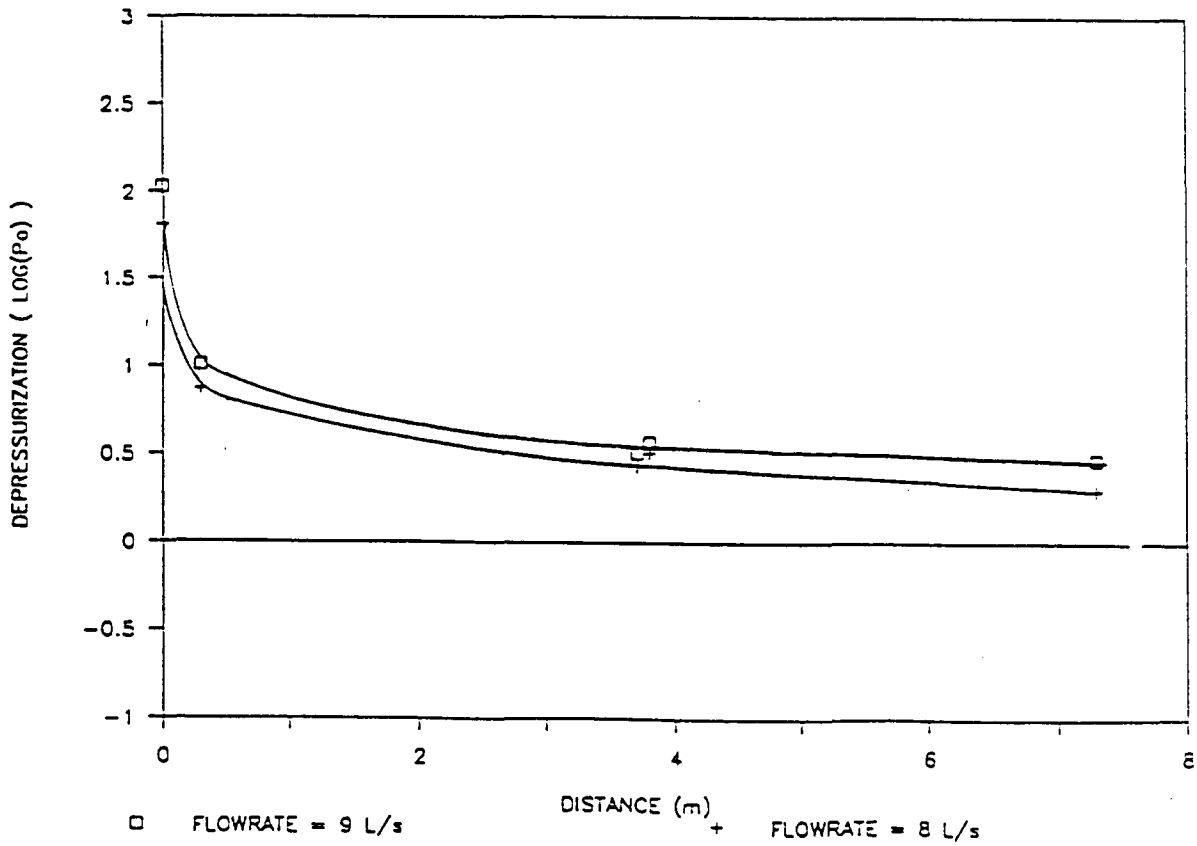
UNIT 66



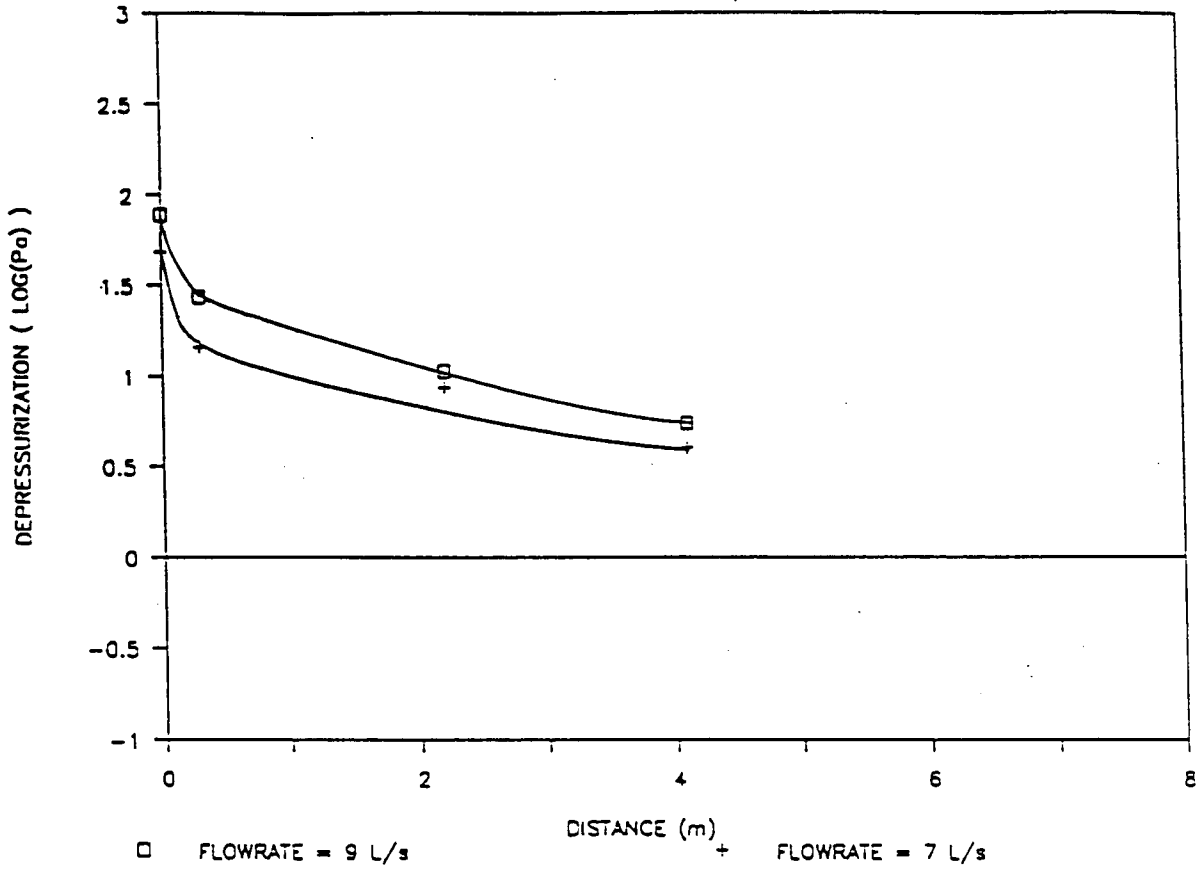
UNIT 67



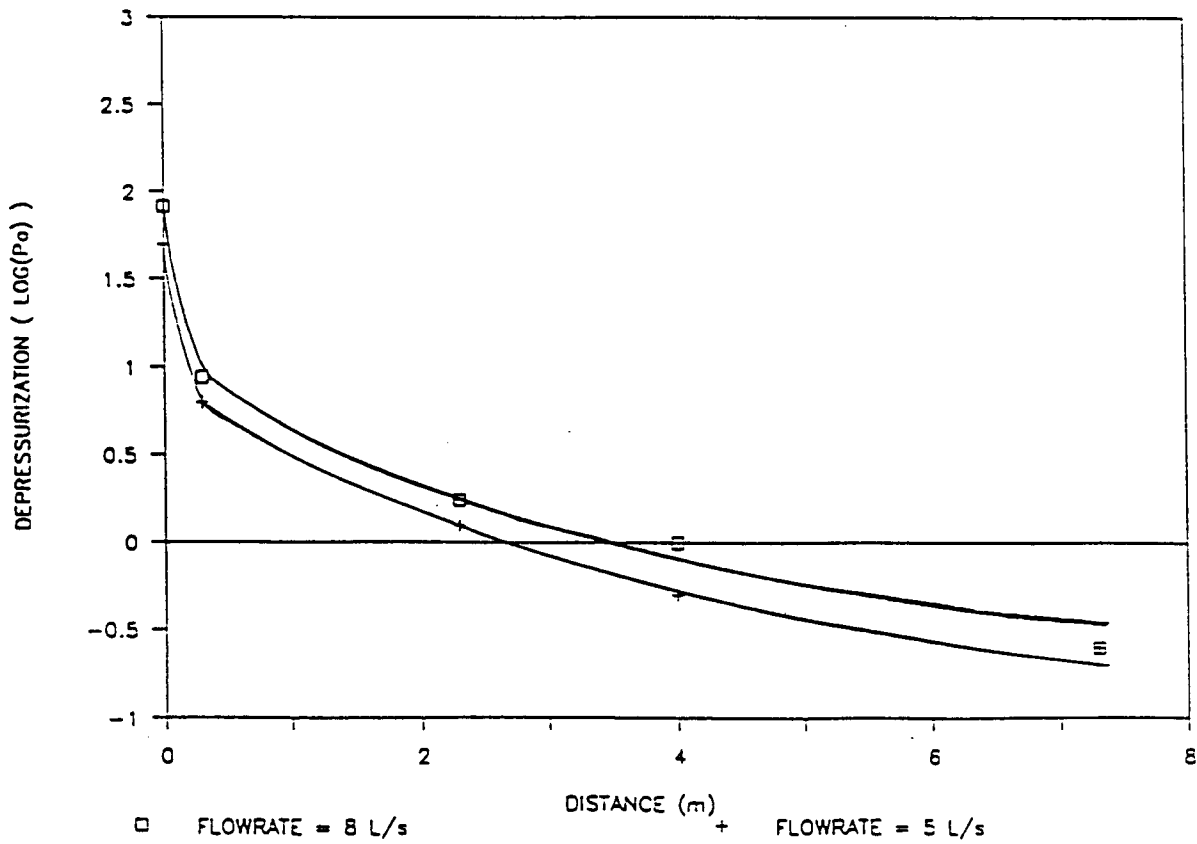
UNIT 68



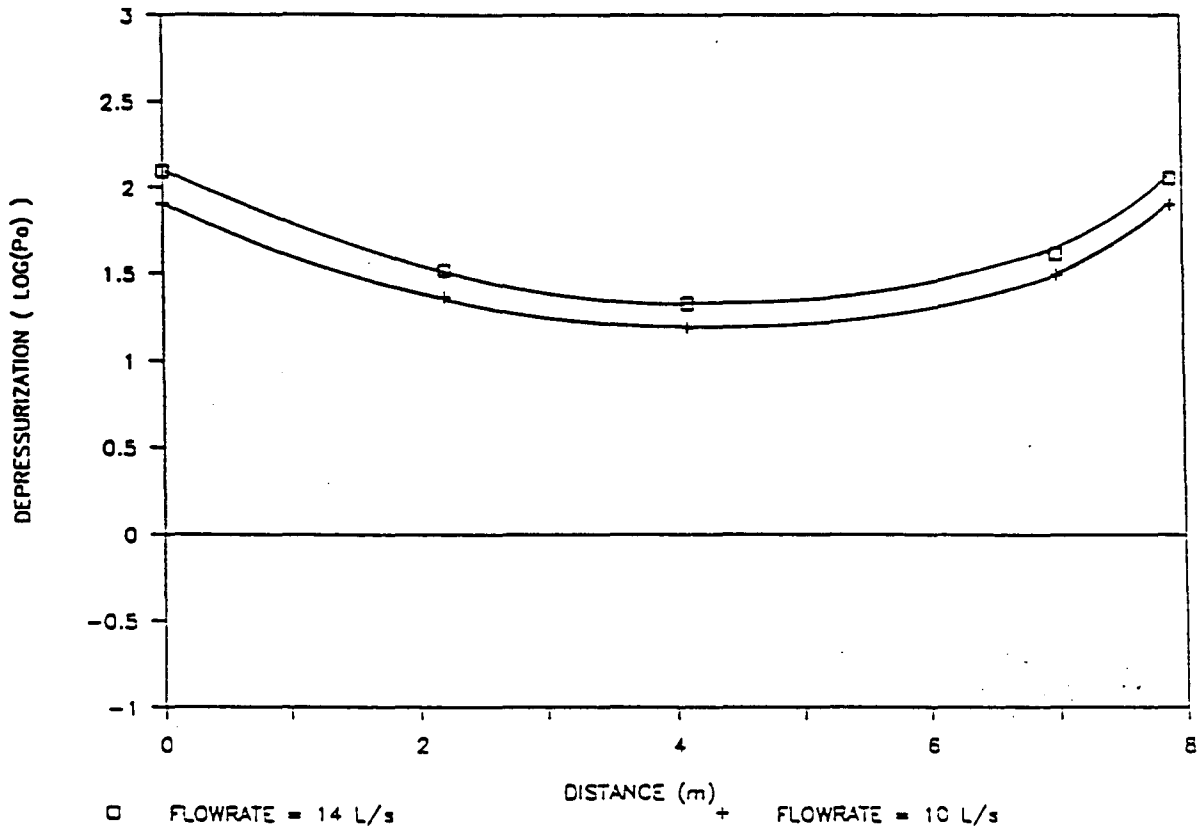
UNIT 69



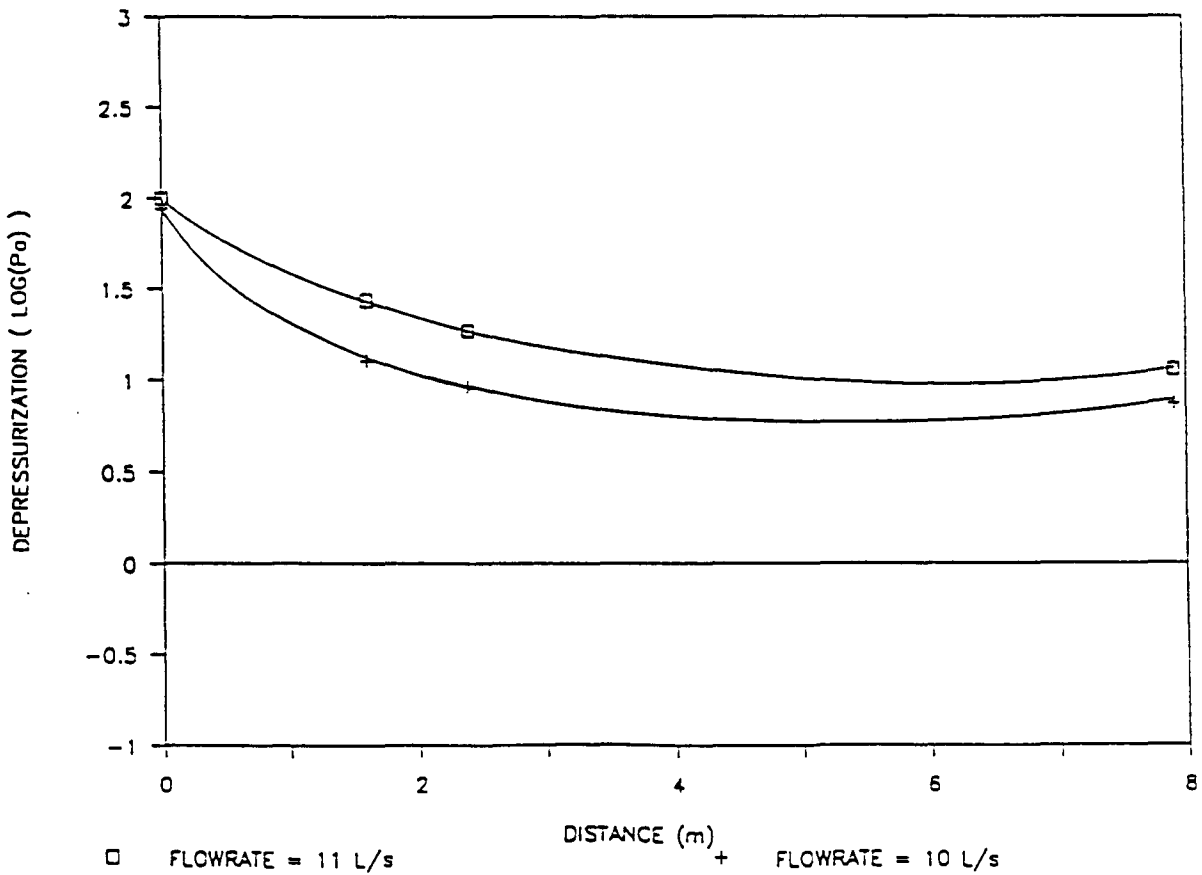
UNIT 70



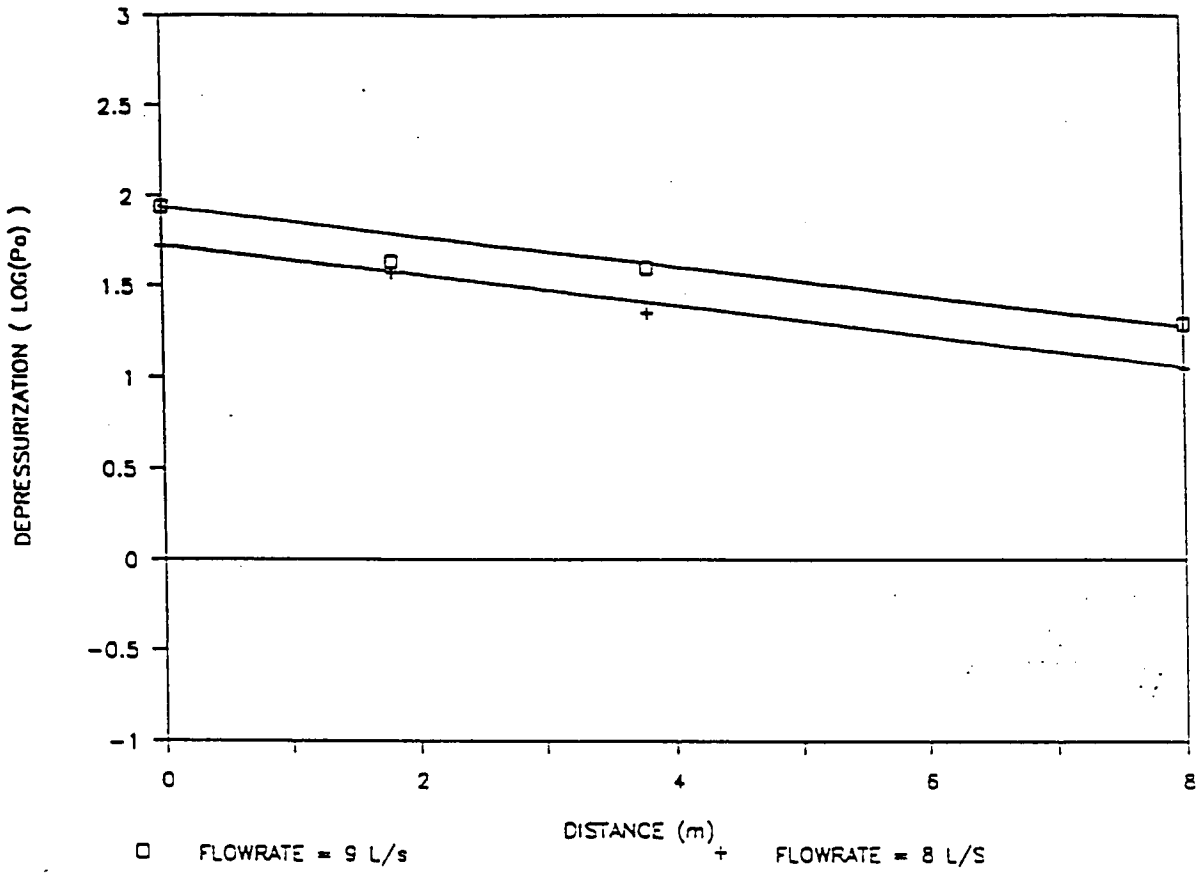
UNIT 71



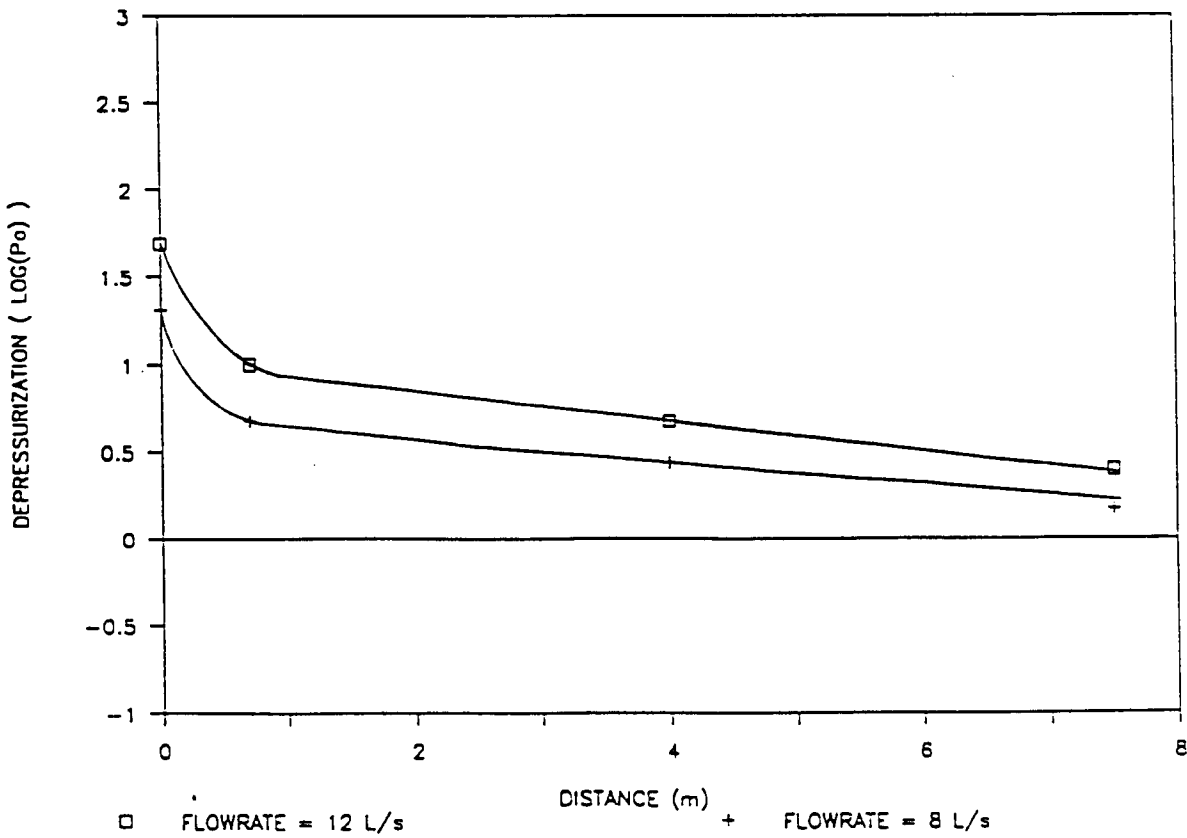
UNIT 72



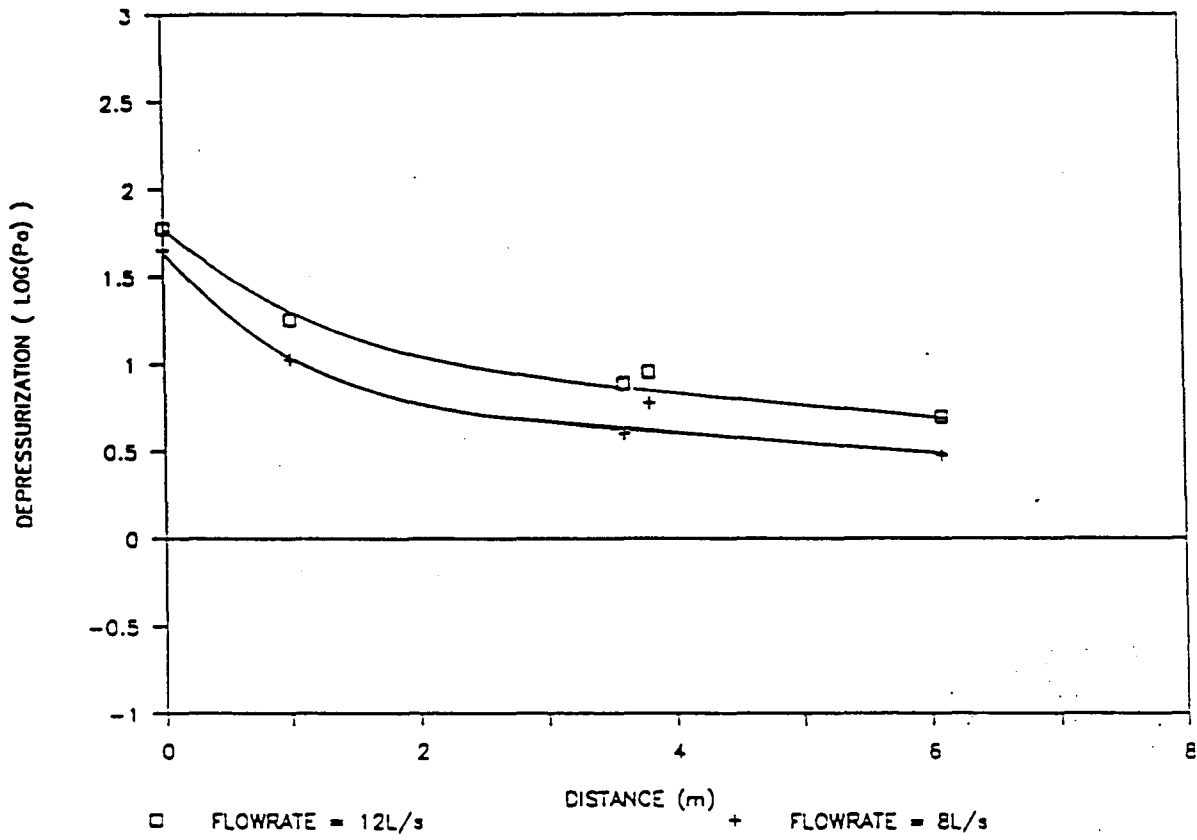
UNIT 73



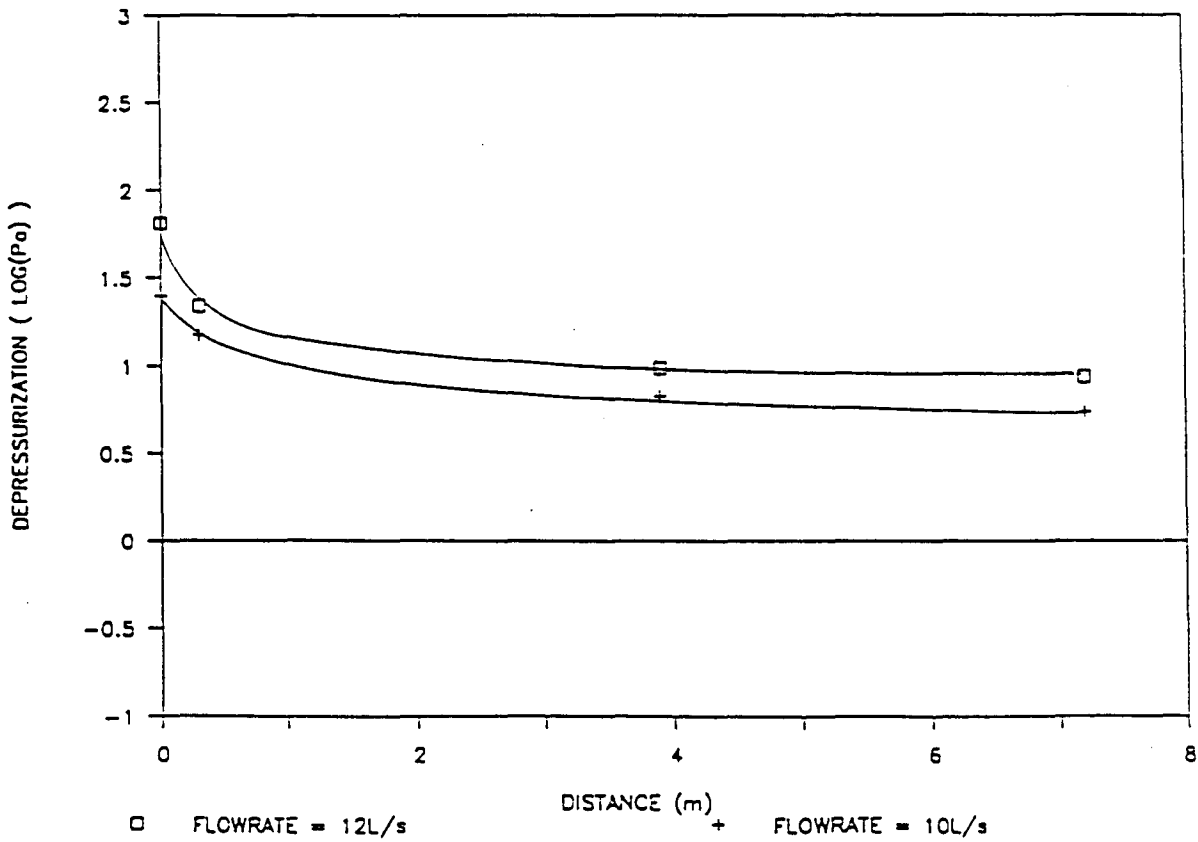
UNIT 74



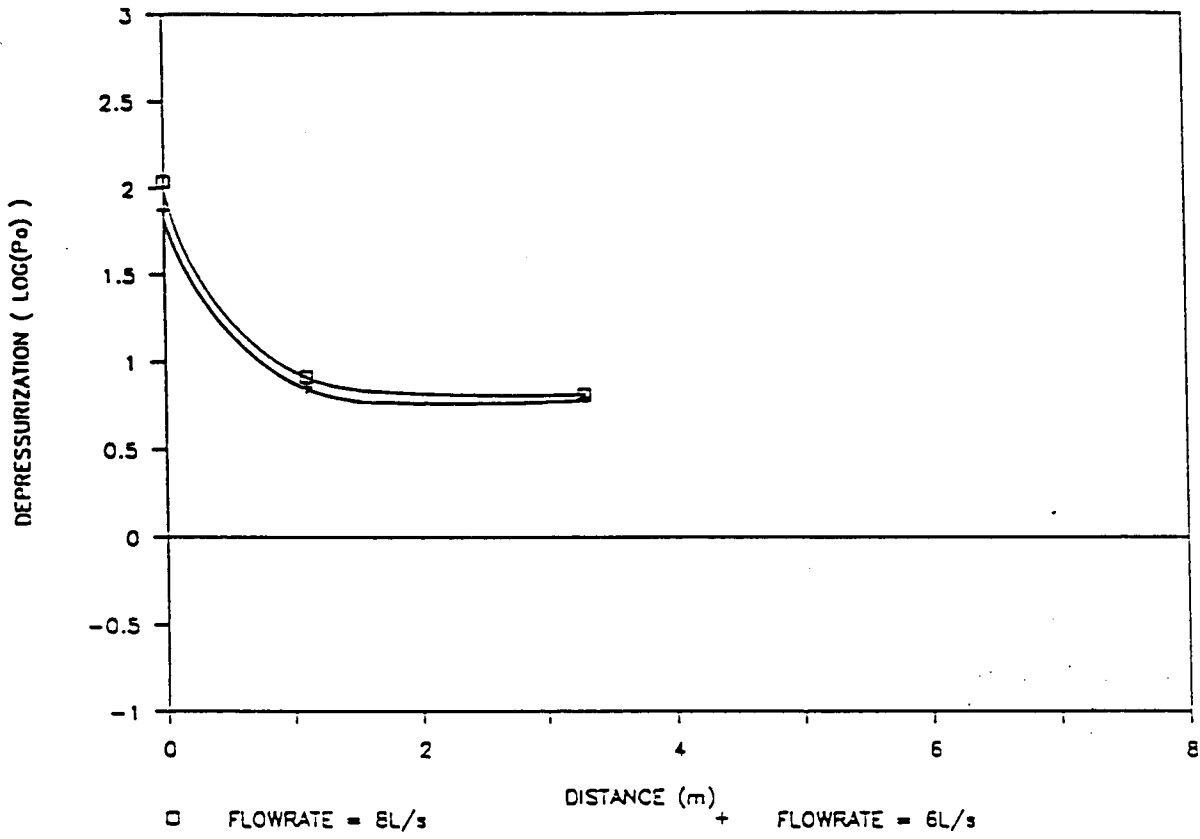
UNIT 75



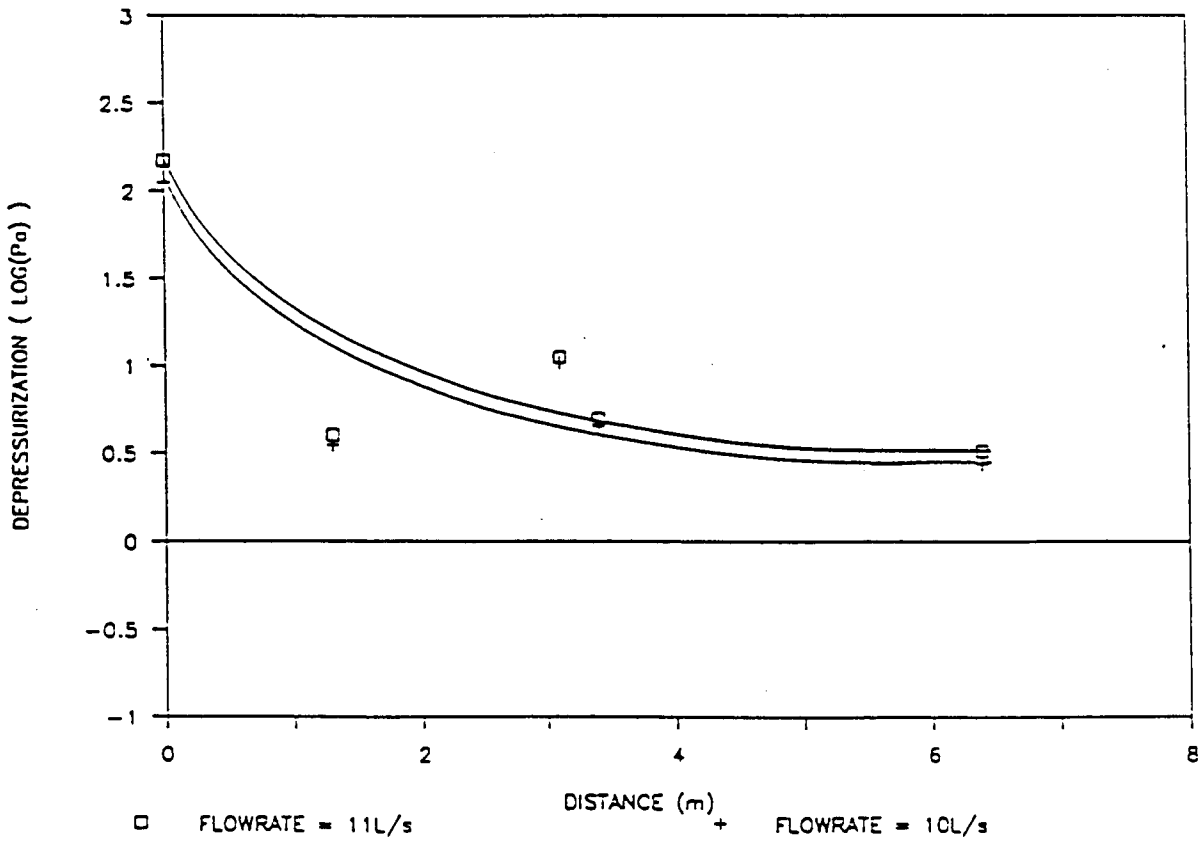
UNIT 76



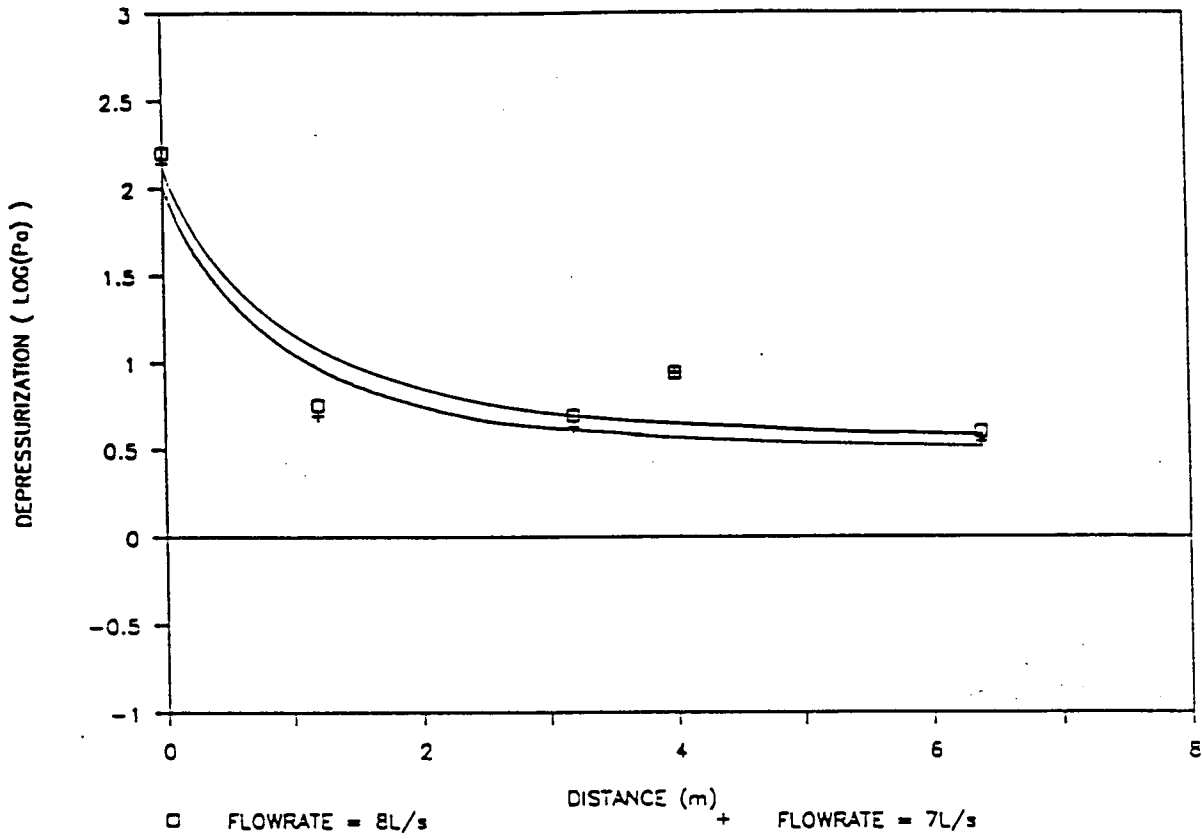
UNIT 77



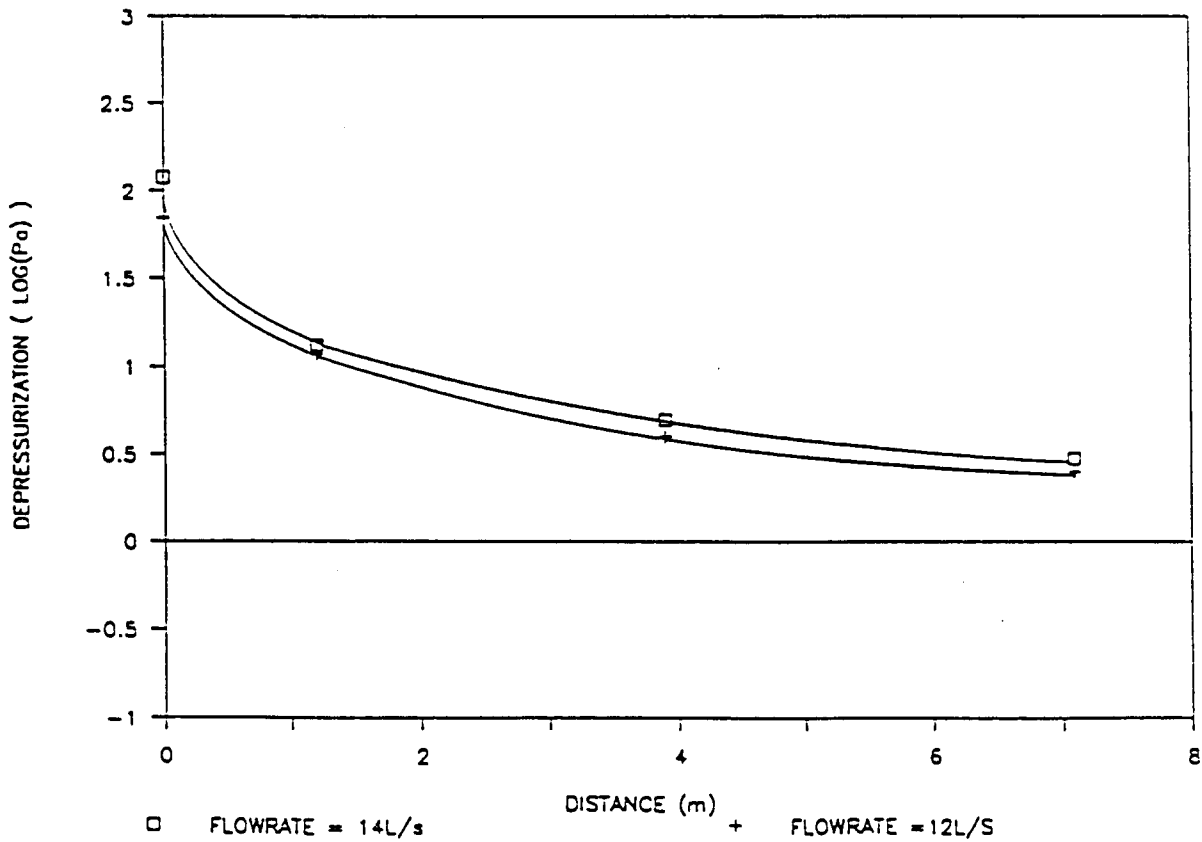
UNIT 78



UNIT 79



UNIT 80



UNIT 81

