

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:  
Mr. Donald Elliot

FROM:  
Florida Power & Light Company  
Miami, Florida  
W. S. Tucker

DATE OF DOCUMENT  
5/10/77

DATE RECEIVED  
5/16/77

LETTER  
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DESCRIPTION

Ltr. trans the following:

(1-P)

PLANT NAME:  
Turkey Point Units 3 & 4

RJL

ENCLOSURE

Consists of the Groundwater Monitoring Program Data Report No. 59 for the May, 1977 monitoring period for the E-series wells including the results of the transmissivity test for the quarter ending March, 1977....

**ACKNOWLEDGED**

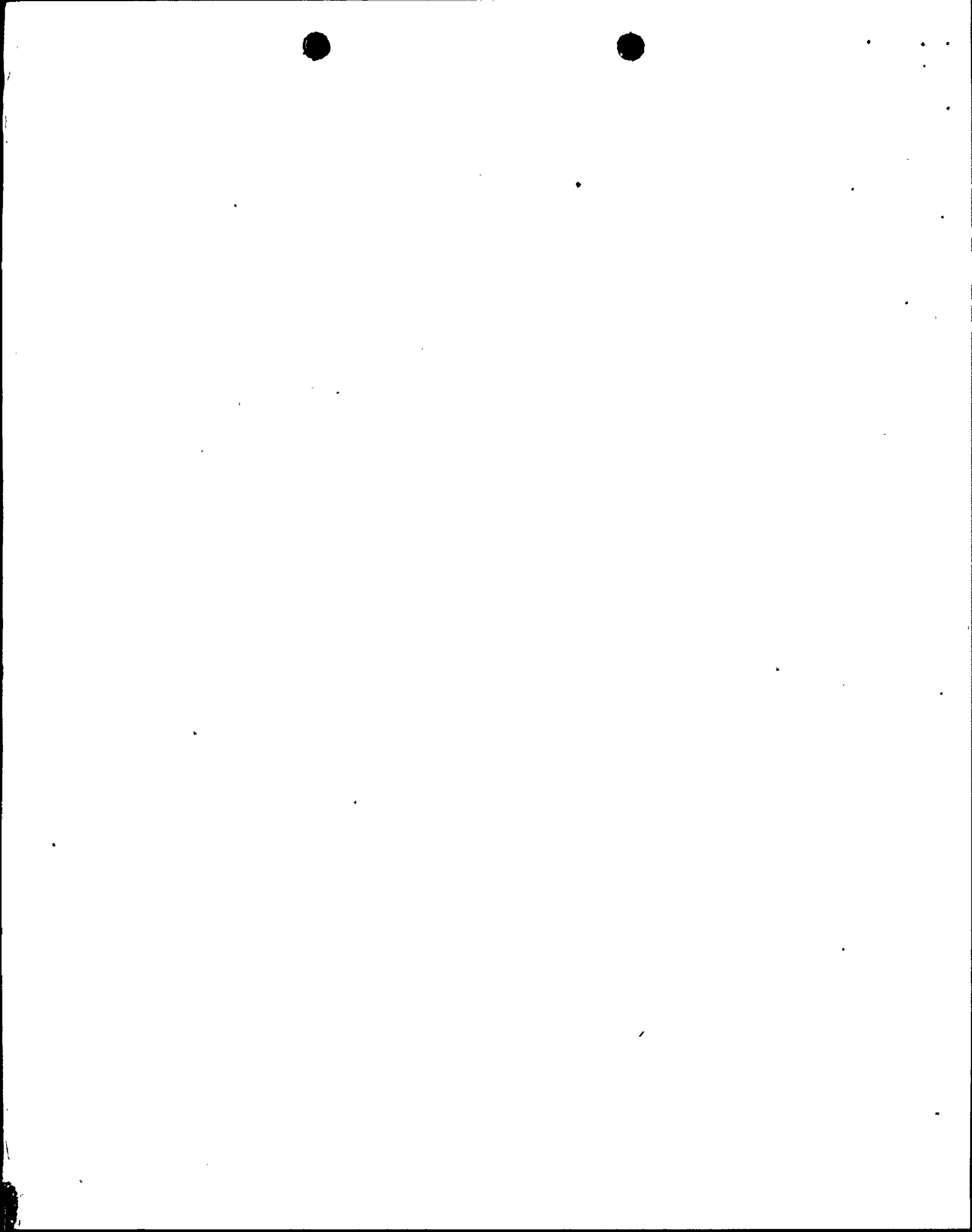
**DO NOT REMOVE**

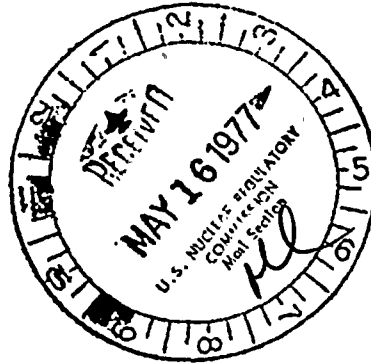
(8-P)

SAFETY	FOR ACTION/INFORMATION	ENVIRO
ASSIGNED AD:		ASSIGNED AD:
BRANCH CHIEF:	<i>Lean (5)</i>	BRANCH CHIEF:
PROJECT MANAGER:	<i>Elliot</i>	PROJECT MANAGER:
LIC. ASST. :	<i>Parrish</i>	LIC. ASST. :

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILE	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY & ENVIRO
<input checked="" type="checkbox"/> NRC PDR	HEINEMAN	TEDESCO	ENVIRO ANALYSIS
<input checked="" type="checkbox"/> I & E- (2)	SCHROEDER	BENAROYA	DENTON & MILLER
<input checked="" type="checkbox"/> OELD		LAINAS	
<input checked="" type="checkbox"/> GOSSICK & STAFF	ENGINEERING	IPPOLITO	ENVIRO TECH.
MIPC	MACARRY	KIRKWOOD	ERNST
CASE	BOSNAK		BALLARD
HANAUER	SIHWEIL	OPERATING REACTORS	YOUNGBLOOD
HARLESS	PAWLICKI	STELLO	
			SITE TECH.
PROJECT MANAGEMENT	REACTOR SAFETY	OPERATING TECH.	GAMMILL
BOYD	ROSS	EISENHUT	STEPP
P. COLLINS	NOVAK	SHAO	HULMAN
HOUSTON	ROSZTOCZY	BAER	
PETERSON	CHECK	BUTLER	SITE ANALYSIS
MELTZ		GRIMES	VOLLMER
HELTEMES	AT & I		BUNCH
SKOVHOLT	SALTZMAN		J. COLLINS
	RUTBERG		KREGER

EXTERNAL DISTRIBUTION			CONTROL NUMBER
<input checked="" type="checkbox"/> LPDR: Miami, FL	NAT. LAB:	BROOKHAVEN NAT. LAB.	<i>1370179</i>
<input checked="" type="checkbox"/> TIC:	REG V, IE	ULRIKSON (ORNL)	
<input checked="" type="checkbox"/> NSIC:	LA PDR		
<input checked="" type="checkbox"/> ASLB:	CONSULTANTS:		
<input checked="" type="checkbox"/> ACRS 16 CYS HOLDING/SENT	<i>As CAP B</i>		





May 10, 1977

Regulatory      File Cyt

Mr. Donald Elliot  
Operating Reactors  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Elliot:

Re: Groundwater Monitoring Program, Turkey Point  
Docket No. 50-250/251, Control No. 8728

Enclosed please find the Groundwater Monitoring Data Report No. 59 for the May 1977 monitoring period for the E-series wells.

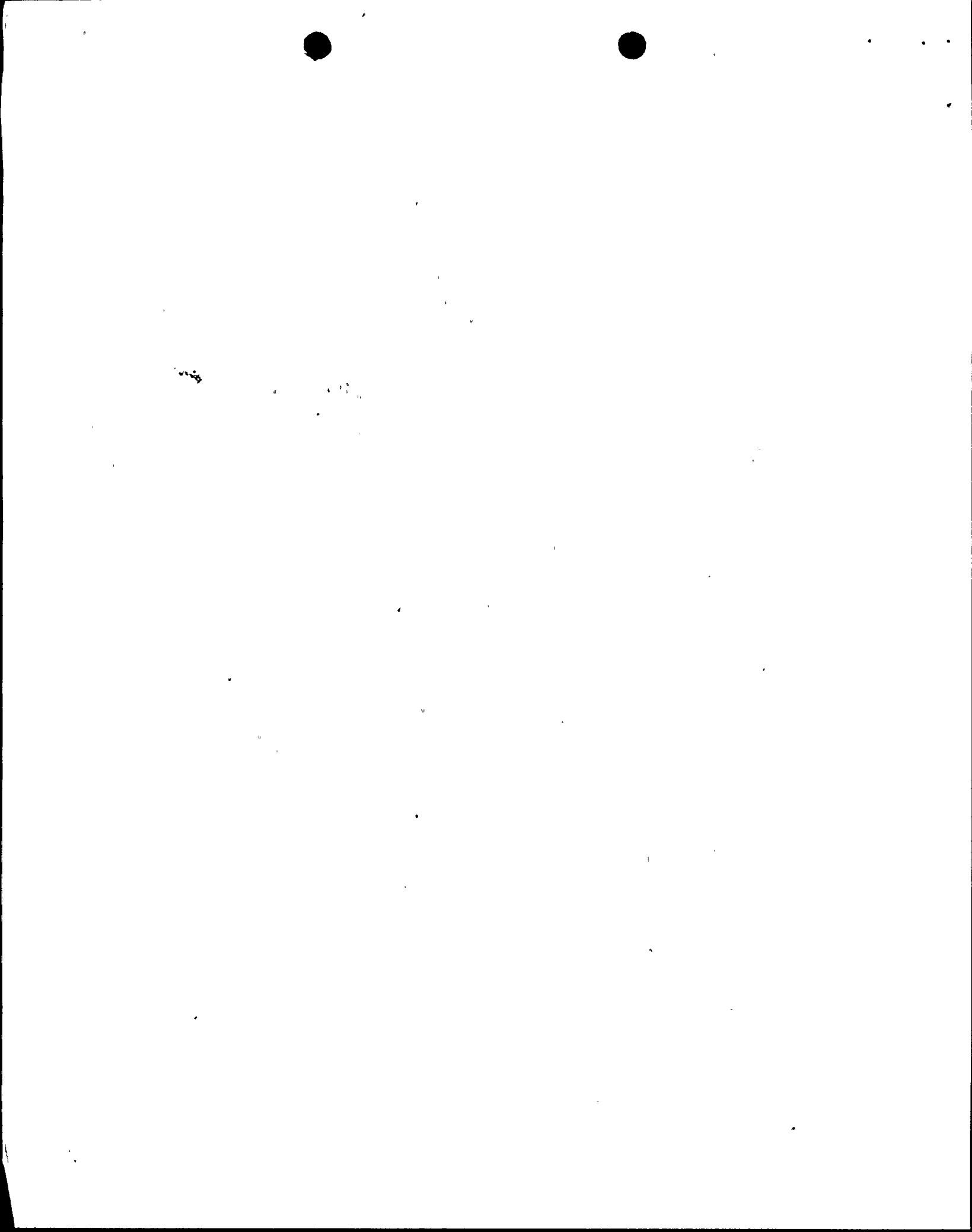
Also enclosed are the results of the transmissivity test for the quarter ending March 1977.

Sincerely,

*W. S. Tucker*  
W. S. Tucker, Manager  
Environmental Affairs

Enc.

771370179



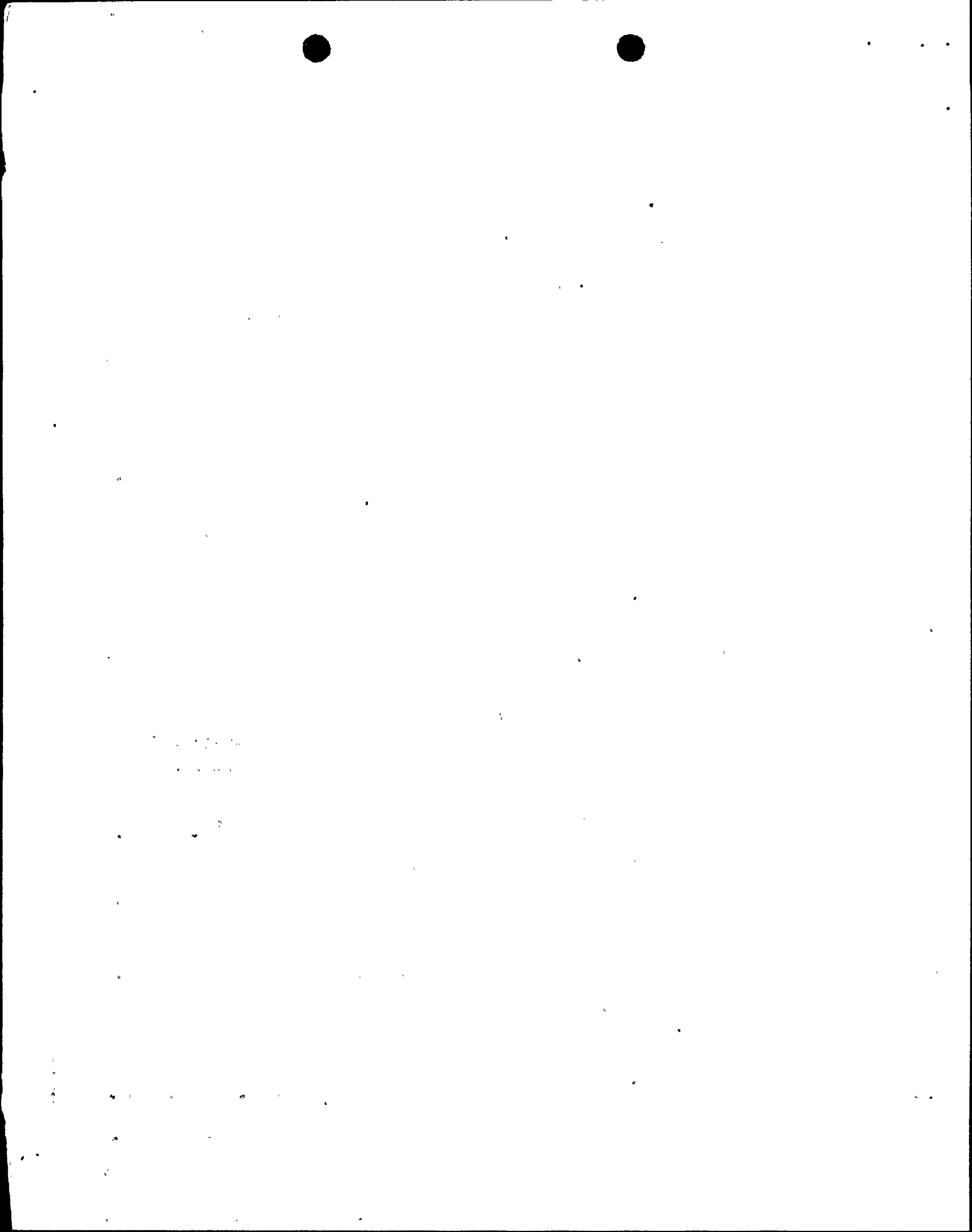
TURKEY POINT COOLING CANAL SYSTEM

QUARTERLY TRANSMISSIVITY TEST

E - SERIES WELLS

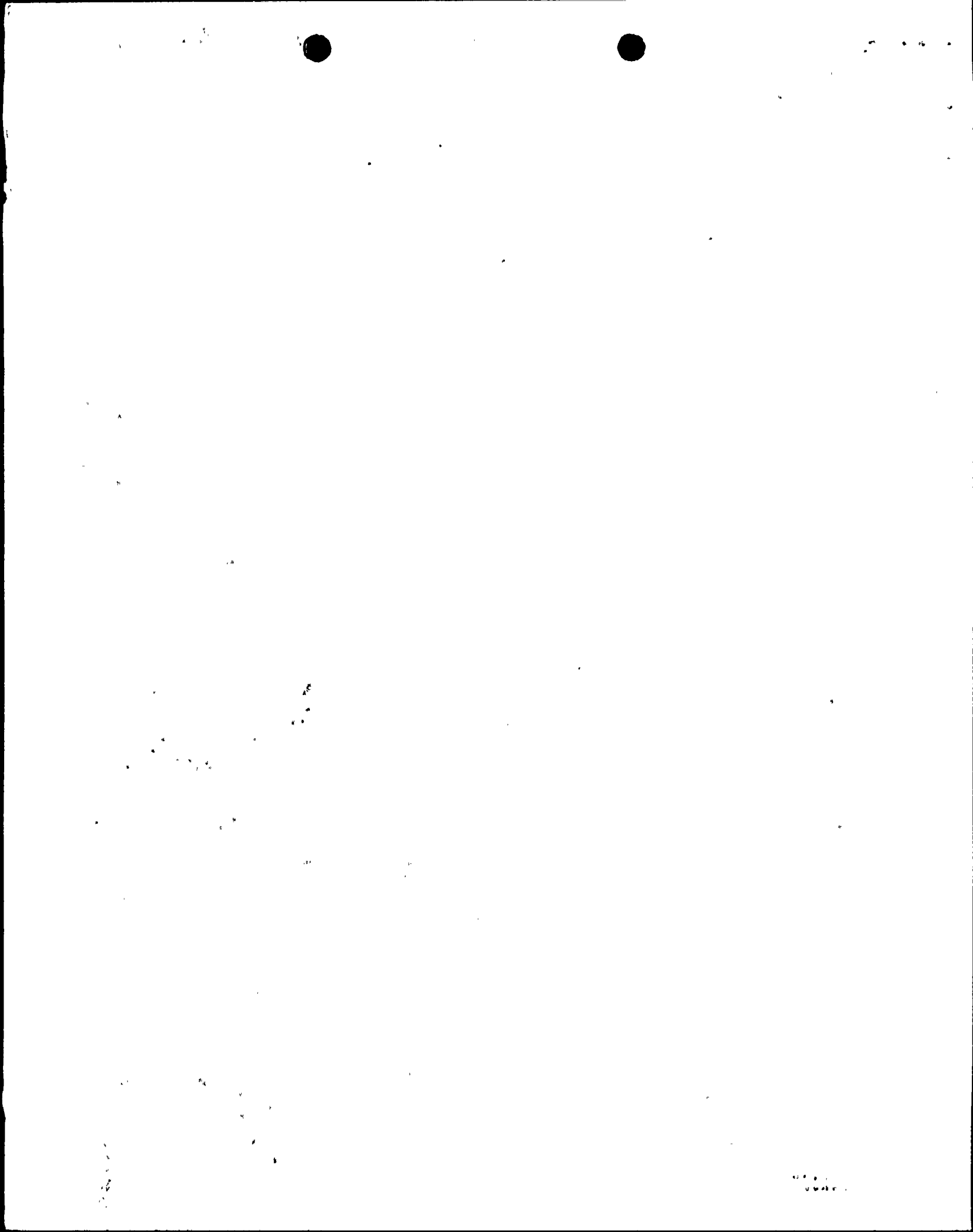
FOR THE MONTH OF APRIL, 1977

<u>WELL DESIGNATION</u>	<u>DATE OF TEST</u>	<u>HEAD DRAW DOWN IN FT.</u>	<u>PUMPING RATE GPM</u>
E-1	4/19/77	.15	170
E-2	4/19/77	0.25	170
E-3	4/19/77	0.35	170
E-4	4/19/77	0.55	170
E-5	4/19/77	0.78	153
E-6	4/19/77	0.55	162
E-7	4/20/77	0.62	181
E-8	4/20/77	0.53	176
E-9	4/20/77	Well Blocked	
E-10	4/20/77	1.25	171
E-11	4/20/77	0.59	181
E-12	4/20/77	0.65	181
E-13	4/20/77	1.08	181
E-14	4/20/77	0.45	181
E-15	4/20/77	0.40	171
E-16	4/20/77	1.15	180
E-17	4/20/77	.20	175
E-18	4/20/77	.27	183
E-19	4/20/77	.81	171
E-20	4/20/77	.22	175
E-21	4/20/77	.18	175
E-22	4/20/77	.37	167
E-23	4/20/77	.17	183



GROUNDWATER MONITORING DATA  
 FOR  
 TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF., (FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF., (FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROHMS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM		WATER SAMPLE
								DEPTH BELOW REF. (FT.)	ELEV. (FT.,MSL)					
E-1	4/26	1040	3.44	4.34	7.90	NSW		20	-16.56	48,500	24.3	0.0	✓	
								40	-36.56	52,000	24.6			
								60	-56.56	52,500	24.7			
E-2	4/26	1050	2.33	2.10	6.23	NSW		20	-17.67	51,000	24.2	0.0	✓	
								40	-37.67	52,000	24.6			
								60	-57.67	52,000	24.6			
E-3	4/26	1029	4.89	5.23	8.34	NSW		20	-15.11	25,000	26.6	0.0	✓	
								40	-35.11	55,000	28.3			
								60	-55.11	55,500	28.5			
E-4	4/26	1020	2.41	2.99	7.58	NSW		20	-17.59	38,500	25.0	0.0	✓	
								40	-37.59	53,000	25.3			
								60	-57.59	55,500	25.4			
E-5	4/26	1010	7.37	6.74	16.3	NSW		20	-12.63	59,000	32.7	0.0	✓	
								40	-32.63	60,500	33.9			
								60	-52.63	60,500	34.0			
E-6	4/26	1000	6.52	6.20	13.2	NSW		20	-13.48	56,500	29.9	0.0	✓	
								40	-33.48					Blocked AT 40'
								60	-53.48					



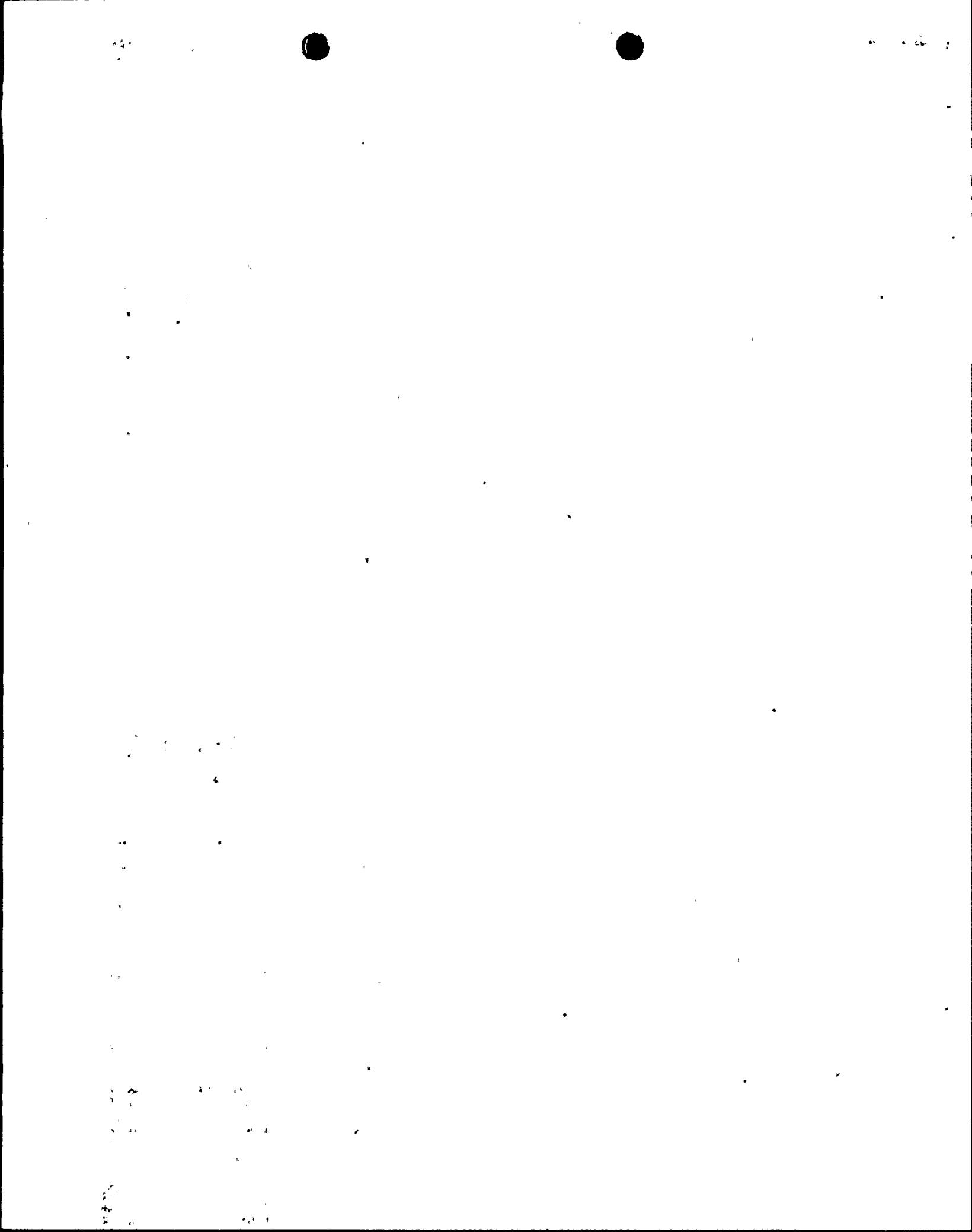


GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	CONDUCTIVITY (MICROWIOS PER CM)	TEMP. ° C	RESIDUAL CHLORINE		WATER SAMPLE
E-7	4/27	0915	2.04	1.27	0.77	1.57	0.47	20	-17.96	57500	23.5	0.0	✓	
								40	-37.96					BLOCKED
								60	-57.96					
E-8	4/27	0925	4.23	3.57	0.66	NSW		20	-15.77	53500	24.0	0.0	✓	
								40	-35.77	58000	25.0			
								60	-55.77	58000	25.2			
E-9	4/27	0930	4.20	3.46	0.74	3.23	0.97	20	-15.80	54000	23.5	0.0	✓	
								40	-35.80	58000	23.5			
								60	-55.80	59000	23.5			
E-10	4/27	0945	4.19	3.36	0.83	NSW		20	-15.81	55500	24.3	0.0	✓	
								40	-35.81	56000	25.0			
								60	-55.81	56500	25.1			
E-11	4/27	0940	4.23	3.47	0.76	NSW		20	-15.77	56500	24.0	0.0	✓	
								40	-35.77	56500	24.4			
								60	55.77	56500	24.5			
E-12	4/27	0955	3.56	2.78	0.78	2.52	1.06	20	-16.44	51500	24.0	0.0	✓	
								40	-36.44	57000	25.2			
								60	-56.44	57000	25.3			

GROUNDWATER MONITORING DATA  
FOR  
TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES	
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.(FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM		WATER SAMPLE
								DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)					
E-13	4/27	1000	3.96	3.19	0.77	3.01	0.95	20	-16.04	54000	24.4	0.0	✓	
								40	-36.04	55500	24.9			
								60	-56.04	55500	25.0			
E-14	4/27	1007	3.47	2.94	0.53	NSW		20	-16.53	55000	24.6	0.0	✓	
								40	-36.53	55000	25.2			
								60	-56.53	55000	25.3			
E-15	4/27	1015	3.63	3.09	0.54	NSW		20	-16.37	54000	24.4	0.0	✓	
								40	-36.37	55500	25.2			
								60	-56.37	55500	25.3			
E-16	4/27	1020	4.83	4.22	0.61	NSW		20	-15.17	52500	24.4	0.0	✓	
								40	-35.17	54500	25.4			
								60	-55.17	55500	25.4			
E-17	4/27	1025	2.31	1.68	0.63	NSW		20	-17.69	54500	25.0	0.0	✓	
								40	-37.69	55000	25.4			
								60	-57.69	55500	25.4			
E-18	4/27	1030	3.23	2.65	0.58	NSW		20	-16.77	53000	24.7	0.0	✓	
								40	-36.77	55500	25.3			
								60	-56.77	56000	25.3			



GROUNDWATER MONITORING DATA  
 FOR  
 TURKEY POINT - EPA WELLS (E-SERIES)

WELL NO.	DATE	TIME	SURFACE REFERENCE ELEVATION (FT.,MSL)	WATER LEVEL		SURFACE WATER		FIELD MEASUREMENT					NOTES		
				DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	DEPTH BELOW REF.,(FT.)	ELEV. (FT.,MSL)	MEASURED AT		CONDUCTIVITY (MICROMHOS PER CM)	TEMP. °C	RESIDUAL CHLORINE PPM		WATER SAMPLE	
								DEPTH BELOW REF.(FT.)	ELEV. (FT.,MSL)						
E-19	4/27	1105	3.61	2.73	0.88	NSW		20	-16.39	49000	24.1	0.0	✓		
								40	-36.39	59000	24.9				
								60	-56.39	59000	25.0				
E-20	4/27	1100	4.04	3.25	0.79	NSW		20	-15.96	46000	23.7	0.0	✓		
								40	-35.96	53500	24.3				
								60	-55.96	57500	24.5				
E-21	4/27	1035	3.24	2.45	0.79	NSW		20	-16.76	49500	23.9	0.0	✓		
								40	-36.76	56000	24.7				
								60	-56.76	57500	24.8				
E-22	4/27	1045	2.41	1.71	0.70	1.57	0.84	20	-17.59	60000	24.5	0.0	✓		
								40	-37.59	60500	24.8				
								60	-57.59	60500	24.8				
E-23	4/27	1050	4.29	3.88	0.41	3.73	0.56	20	-15.71	58000	25.0	0.0	✓		
								40	-35.71	59500	25.2				
								60	-55.71	60000	25.2				



May 10, 1977

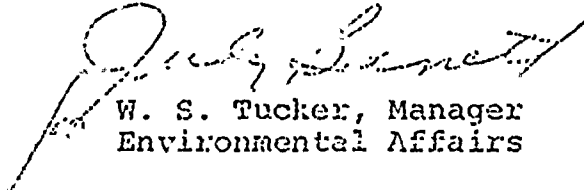
Mr. Abe Kreitman, Director  
Groundwater Division  
Resource Planning Department  
South Florida Water Management  
District  
P. O. Box V  
West Palm Beach, Florida 33402

Dear Mr. Kreitman:

Re: FPL/FCD Cooling Canal System Agreement  
Turkey Point Plant, Dade County

Enclosed are the laboratory analyses of the groundwater samples taken for the March and April 1977 monitoring period.

Sincerely,



W. S. Tucker, Manager  
Environmental Affairs

Enc.

cc: Mr. Donald Elliot, USNRC (Docket No. 50-250/251) ✓  
(Control No. 8728)

GROUNDWATER MONITORING PROGRAM

FCD WELL SERIES

TURKEY POINT FLORIDA

CHLORIDE DATA OF MARCH, 1977

<u>WELL DESIGNATION</u>	<u>SAMPLE DATE</u>	<u>DEPTH IN FT.</u>	<u>CHLORIDE IN PPM</u>
G-6	2/24/77	59'	15,956
G-7	2/24/77	57'	456
G-21.	2/25/77	59'	2,261
G-27	2/24/77	37'	10,333
G-28	2/25/77	55'	5,622
G-35	2/25/77	59'	8,585
ID-A	2/26/77	19'	17,932
ID-B	2/26/77	34'	18,387
ID-C	2/26/77	59'	18,007
ID-D	2/26/77	60'	17,324
ID-E	2/26/77	28'	16,537
L-1	2/24/77	59'	16,564
L-2	2/25/77	47'	17,703
L-3	2/25/77	60'	16,868
L-4	2/25/77	39'	14,360
L-5	2/25/77	35'	13,981
L-6	2/25/77	60'	17,961
X-1	2/26/77	60'	19,147
X-2	2/26/77	58'	19,375

GROUNDWATER MONITORING PROGRAM

FCD -WELL SERIES

TURKEY POINT, FLORIDA

CHLORIDE DATA OF APRIL, 1977

<u>WELL DESIGNATION</u>	<u>SAMPLE DATE</u>	<u>DEPTH IN FT.</u>	<u>CHLORIDE IN PPM</u>
ID-A	3/26/77	22'	18,630
ID-B	3/26/77	39'	19,226
ID-C	3/26/77	59'	18,779
ID-D	3/26/77	40'	17,288
ID-E	3/26/77	60'	17,437
L31-1	3/25/77	58'	17,139
L31-2	3/25/77	39'	17,437
L31-3	3/25/77	57'	18,034
L31-4	3/25/77	60'	16,543
L31-5	3/25/77	39'	15,798
L31-6	3/25/77	58'	18,332
X-2	3/30/77	60'	20,418

10-10-10



10-10-10

10-10-10