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Handwritten scribbles and marks in the top right corner, including a small horizontal line and several dots.

Handwritten mark resembling the number '4' on the left side of the page.

Vertical handwritten mark on the left side of the page.

Vertical handwritten mark on the right side of the page.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 101 - Diffuser Discharge
Structure

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	pH	Amb. River Temperature	Downstream River Temp.	D.S. River Temp. >92.0	Downstream River Temp.	Temperature Rise
AVG	-	6.0	24hr Av Max	24hr Av Max	---	Hourly Max	24hr Av Max
MAX	-	9.0	---	90.0	6 Hrly Rdgs	93.0	10.0
UNITS	MGD	s.u.	---	°	# Rdgs >6	°	°
FREQ.	Cont.	1/wk	Continuous	Continuous	Hourly	Continuous	Continuous
1	633.6	8.3	59.7	60.3	0	61.2	0.9
2	633.6		60.3	61.2	0	61.5	1.1
3	633.6		60.3	61.0	0	60.9	0.7
4	633.6		60.8	60.7	0	60.8	0.5
5	633.6		60.9	60.3	0	61.0	-0.4
6	633.6		60.8	60.4	0	60.6	-0.2
7	633.6		60.2	59.9	0	59.4	0.5
8	633.6	8.1	58.8	59.1	0	59.6	0.4
9	633.6		58.9	59.2	0	59.5	0.4
10	633.6		59.7	59.4	0	59.8	0.1
11	633.6		59.7	59.4	0	59.5	0.0
12	633.6		59.0	59.0	0	58.6	0.5
13	633.6		58.3	58.1	0	59.2	-0.2
14	633.6		59.3	59.0	0	59.1	0.2
15	633.6	8.3	59.3	59.1	0	59.5	-0.2
16	633.6		59.9	59.5	0	60.0	-0.2
17	633.6		58.6	58.5	0	58.7	0.3
18	633.6		58.4	58.3	0	58.1	0.2
19	633.6		57.8	57.6	0	57.5	0.2
20	633.6		58.5	58.0	0	58.5	-0.5
21	633.6		58.4	58.1	0	57.9	0.4
22	633.6	8.3	56.7	57.0	0	56.8	0.5
23	633.6		56.1	56.7	0	57.1	0.6
24	633.6		56.2	56.6	0	56.9	0.5
25	633.6		56.6	56.6	0	57.1	0.2
26	633.6		57.4	57.1	0	57.6	0.0
27	633.6		57.6	57.3	0	57.4	-0.2
28	633.6		57.4	57.2	0	56.5	0.3
29	633.6	8.0	55.3	55.7	0	55.2	0.8
30	633.6		54.0	54.7	0	54.7	0.9
MAX	633.6	8.3	60.9	61.2	0	61.5	1.1
AVG	633.6		58.5	58.5	0	58.7	0.3
MIN		8.0					

I certify under penalty of law that this document and all attachments were prepared under the direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Responsible Official M. Paul Schmierbach Original Signed By

Date: DEC 23 1988

8901040220 881130
PDR ADOCK 05000259
R PDC

[Handwritten Signature]
TVA



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 102 - Sedimentation Pond

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	pH	O&G	TSS	COMMENTS
AVG	----	MIN. 6.0	15	30	
MAX	----	9.0	20	100	
UNITS	MGD	S.U.	mg/l	mg/l	
FREQ.	1/RELEASE	1/RELEASE	1/RELEASE	2/RELEASE	
1					POND OUT OF SERVICE
2					FOR REPAIR 11-2-87.
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
MAX					
AVG					
MIN					
TOTAL	NO DISCHARGE				

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 103 - Unit 1,2,3 Turbine
Station Sump

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3				
4	0.095980	< 5	3	
5				
6				
7				
8				
9				
10	0.360000	< 5	3	REPLICATES O&G <5 TSS 3
11				
12				
13				
14				
15				
16				
17	0.049000	< 5	2	
18				
19				
20				
21				
22				
23				
24				
25	0.043200	< 5	3	
26				
27				
28				
29				
30				
MAX	0.360000	< 5	3	
AVG	0.137045	< 5	3	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 104 - Liquid Radwaste

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	LDT/O&G	LDT/TSS	Copper	Iron
AVG		15	30	15	30		
MAX		20	100	20	100	1.0	1.0
UNITS	MGD	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
FREQ.	1/BATCH	2/wk	2/wk	1/BATCH	1/BATCH	1/BATCH	1/BATCH
1	0.031061	< 5	< 1			(1) NA	(1) NA
2	0.030882						
3	0.030587	< 5	< 1				
4	NO DISCHARGE						
5	0.030337						
6	0.026101						
7	0.030882						
8	0.029357	10	< 1				
9	0.020809						
10	0.025923						
11	0.025983	< 5	< 1				
12	0.025387						
13	NO DISCHARGE						
14	0.030502						
15	0.057501	< 5	< 1				
16	NO DISCHARGE						
17	0.030994						
18	0.026799	< 5	< 1				
19	0.031316						
20	0.031061						
21	0.060167						
22	0.031661	< 5	< 1				
23	0.055287						
24	0.029130						
25	0.023984	<5,<5	<1,<1				
26	0.060834						
27	0.031661						
28	0.030994						
29	0.055587	< 5	< 1				
30	NO DISCHARGE						
MAX	0.060834	10	< 1				
AVG	0.034415	< 6	< 1				

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Date: _____

(1) No chemical metal cleaning solutions used this month.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 105 - Residual Heat Removal
Service Water

MONTH November 1988 NPDES # AL0022080

PARAM	FLOW	TEMP	COMMENTS
AVG	----		
MAX	----		
UNITS	MGD	°F	
FREQ.	1/WEEK	1/WEEK	
1			
2			
3			
4	*		NO DISCHARGE ENTIRE WEEK
5			
6			
7			
8			
9			
10			
11	*		NO DISCHARGE ENTIRE WEEK
12			
13			
14			
15			
16			
17			
18	*		NO DISCHARGE ENTIRE WEEK
19			
20			
21			
22			
23			
24			
25	*		NO DISCHARGE ENTIRE WEEK
26			
27			
28			
29			
30			
MAX			
AVG	*		NO DISCHARGE ENTIRE MONTH

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 106 - Condenser Cooling Water
Station Sump

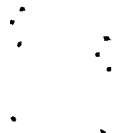
MONTH November 1988 NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				DISCHARGE ROUTED TO LINED POND FOR ENTIRE REPORTING PERIOD.
2				
3	0.000000			
4				
5				
6				
7				
8				
9				
10	0.000000			
11				
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17	0.000000			
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29	—			
30				
MAX	0.000000			
AVG	0.000000			

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 107 - Unit 3 Control Bldg.
Drain

MONTH November 1988

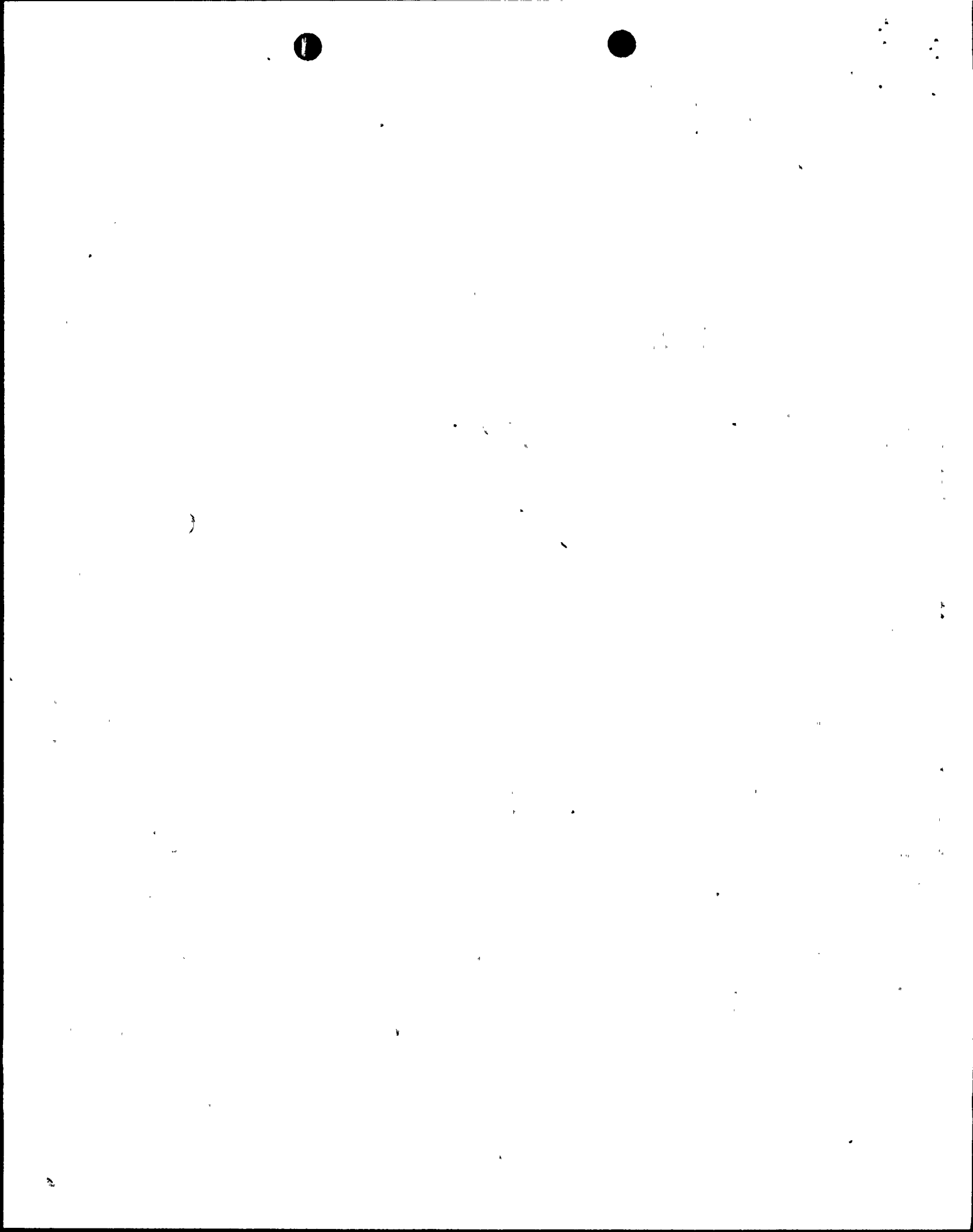
NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3				
4	0.000800	< 5	10	
5				
6				
7				
8				
9	NO FLOW			
10				
11				
12				
13				
14				
15				
16	NO FLOW			
17				
18				
19				
20				
21				
22				
23	0.003160	< 5	8	REPLICATES O&G <5 TSS 8
24				
25				
26				
27				
28				
29				
30	0.001800	< 5	3	
MAX	0.003160	< 5	10	
AVG	0.001920	< 5	7	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 108 - Diesel Bldg. Sump
Units 1 & 2

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3	*			NO DISCHARGE ENTIRE WEEK
4				
5				
6				
7				
8				
9				
10	*			NO DISCHARGE ENTIRE WEEK
11				
12				
13				
14				
15				
16				
17	*			NO DISCHARGE ENTIRE WEEK
18				
19				
20				
21				
22				
23				
24	*			NO DISCHARGE ENTIRE WEEK
25				
26				
27				
28				
29				
30				
MAX				
AVG	*			NO DISCHARGE ENTIRE MONTH

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 109 - Diesel Bldg. Sump
Unit 3

MONTH November 1988 NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3	*			NO DISCHARGE ENTIRE WEEK
4				
5				
6				
7				
8				
9				
10	*			NO DISCHARGE ENTIRE WEEK
11				
12				
13				
14				
15				
16				
17	*			NO DISCHARGE ENTIRE WEEK
18				
19				
20				
21				
22				
23				
24	*			NO DISCHARGE ENTIRE WEEK
25				
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MAX				
AVG	*			NO DISCHARGE ENTIRE MONTH

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 110 - Unit 1 & 2 Office
Bldg. Drain

MONTH November 1988

NPDES # AL0022080

PARAM	FLOW	O&G	TSS	COMMENTS
AVG	----	15	30	
MAX	----	20	100	
UNITS	MGD	mg/l	mg/l	
FREQ.	1/WEEK	1/WEEK	1/WEEK	
1				
2				
3				
4				
5				
6	0.000900	< 5	< 1	
7				
8				
9	0.000352	< 5	1	REPLICATES O&G <5 TSS 2
10				
11				
12				
13				
14				
15				
16	0.000690	< 5	1	
17				
18				
19				
20				
21				
22				
23	0.000697	< 5	2	
24				
25				
26				
27				
28				
29				
30	0.000173	< 5	< 1	
MAX	0.000900	< 5	2	
AVG	0.000562	< 5	< 1	

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ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
DISCHARGE MONITORING REPORT
Tennessee Valley Authority
BROWNS FERRY NUCLEAR PLANT

DSN 111 - Sewage Treatment Lagoon

MONTH November 1988 NPDES # AL0022080

PARAM	FLOW	TSS	BOD5	COMMENTS
AVG	-----	90	30	
MAX	-----	-----	45	
UNITS	MGD	mg/l	mg/l	
FREQ.	5/WEEK	2/MONTH	2/MONTH	
1	0.031249	38	14	
2	0.031249			
3	0.031249			
4	0.072432			
5				
6				
7	0.049248			
8	0.049248	30	16	
9	0.039600			
10	0.039600			
11	0.049248			
12				
13				
14	0.101088			
15	0.101088	10	14	
16	0.101088			
17	0.085968			
18	0.049248			
19				
20				
21	0.060192			
22	0.049248	29	17	
23	0.101088			
24	0.101088			
25	0.049248			
26				
27				
28	0.049248			
29	0.039600	24	14	
30	0.049248			
MAX	0.101088	38	17	
AVG	0.060480	26	15	

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Signature of Responsible Official _____

Date: _____



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