



Tennessee Valley Authority, Post Office Box 2000, Soddy Daisy, Tennessee 37384-2000

April 9, 2015

Ms. Christina Morgan
Tennessee Department of Environment
and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Dear Ms. Morgan:

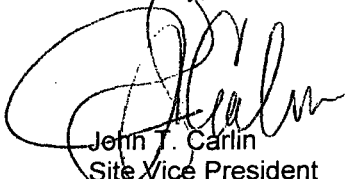
TENNESSEE VALLEY AUTHORITY (TVA) - SEQUOYAH NUCLEAR PLANT (SQN) - NPDES
PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT (DMR) FOR March 2015

Enclosed is the March 2015 Discharge Monitoring Report for Sequoyah Nuclear Plant. The turbine building sump (TBS) was discharged directly to the yard drainage pond during the reporting period and was monitored in accordance with the narrative condition found in Part 1.A.2 of the subject permit. A summary of monitoring results is shown in the enclosed Attachment 1.

If you have any questions or need additional information, please contact Millicent Garland by email at mrmoore@tva.gov or by phone at (423) 843-6714.

I certify under penalty of law that this document and all attachments were prepared under my 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.

Sincerely,



John T. Carlin
Site Vice President
Sequoyah Nuclear Plant

Enclosures

cc (Enclosures):

Chattanooga Environmental Field Office
Division of Water Pollution Control
State Office Building, Suite 550
540 McCallie Avenue
Chattanooga, Tennessee 37402-2013

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

IE25
NRR

S58 150409 800 – NPDES CORRESPONDENCE

April 9, 2015

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Tennessee Department of Environment
and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

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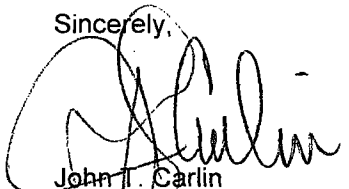
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PERMIT NO. TN0026450 - DISCHARGE MONITORING REPORT (DMR) FOR March 2015

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State Office Building, Suite 550
540 McCallie Avenue
Chattanooga, Tennessee 37402-2013

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

S.D. Booker, OPS 5N-SQN
B. E. Brickhouse, BR 4A-C
J. T. Carlin, OPS 4A-SQN
L.S. Cohen, BR 4A-C
D. A. Day, POB 2A-SQN

M. McBrearty, OPS 4A-SQN
D. B. Nida, BR 4A-C
G. R. Signer, WT 6A-K
P.R. Simmons, POB 2B-SQN
T.R. Markum, BR 4A-C

**TVA Sequoyah Nuclear Plant
NPDES Permit No. TN0026450
Attachment 1**

Turbine Building Sump Monitoring Data

During March 2015, the turbine building sump was discharged directly to the yard drainage pond from 3/17/2015 to 3/31/2015. During this period, the turbine building sump was monitored in accordance with the narrative condition found in Part 1A.2 of NPDES Permit TN0026450.

Parameter	Daily Minimum	Monthly Average	Daily Maximum	No. of Samples
Flow	-	0.880 MGD	0.919 MGD	12
pH	8.33 s.u.	-	9.45 s.u.	12
O&G	-	<6.06 mg/L	18 mg/L	12
TSS	-	<5.98 mg/L	9.0 mg/L	12

Name **TVA - SEQUOYAH NUCLEAR PLANT**
 Address **P.O. BOX 2000**
 (INTEROFFICE OPS-5N-SQN)
SODDY - DAISY, TN 37384
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**
 Location **HAMILTON COUNTY**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

F - FINAL

DIFFUSER DISCHARGE

EFFLUENT

TN0026450

101 G

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

 YEAR MO DAY
 15 03 01

 YEAR MO DAY
 15 03 31

From

To

 *** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	25.5	04	0	31 / 31	RCORDR
00010 1 0	PERMIT REQUIREMENT	*****	*****	****	*****	*****	Req. Mon. DAILY MAX	DEG. C.		CONTI NUOUS	CALCTD
EFFLUENT GROSS											
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	14.1	04	0	31 / 31	MODEL
00010 Z 0	PERMIT REQUIREMENT	*****	*****	****	*****	*****	30.5 DAILY MX	DEG. C.		CONTI NUOUS	CALCTD
INSTREAM MONITORING											
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C	SAMPLE MEASUREMENT	*****	*****	**	*****	*****	2	04	0	31 / 31	CALCTD
00016 1 1	PERMIT REQUIREMENT	*****	*****	****	*****	*****	5 DAILY MX	DEG. C.		CONTI NUOUS	CALCTD
EFFLUENT GROSS											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****	1728	03	*****	*****	*****	**	0	31 / 31	RCORDR
50050 1 0	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MAX	MGD	*****	*****	*****	****		CONTI NUOUS	RCORDR
EFFLUENT GROSS											
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****	0.020	0.033	19	0	10 / 31	GRAB
50060 1 0	PERMIT REQUIREMENT	*****	*****	****	*****	0.1 MO AVG	0.1 DAILY MAX	MG/L		FIVE PER WEEK	CALCTD
EFFLUENT GROSS											
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	*****	0	62	*****	*****		**	0	31 / 31	CALCTD
82234 1 0	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG C/HR	*****	*****	*****	****		CONTI NUOUS	CALCTD
EFFLUENT GROSS											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

John T. Carlin

Site Vice President

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

423

843-7001

15

04

10

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No closed mode operation. The following injections occurred: 1. Flogard MS6236 (max calc. conc. was 0.03 mg/L -- limit 0.20 mg/L).

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Name **TVA - SEQUOYAH NUCLEAR PLANT**
 Address **P.O. BOX 2000**
 (INTEROFFICE OPS-5N-SQN)
SODDY - DAISY, TN 37384
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**
 Location **HAMILTON COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR 01)

F - FINAL

BIOMONITORING FOR OUTFALL 101

EFFLUENT

Form Approved.

OMB No. 2040-0004

TN0026450

101 T

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

From YEAR **15** MO **03** DAY **01**

To YEAR **15** MO **03** DAY **31**

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP3B 1 0	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**	Monitoring Not Required	*****	*****	23			
TRP6C 1 0	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

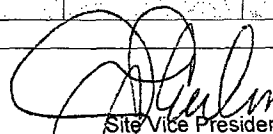
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

John T. Carlin

Site Vice President

TYPED OR PRINTED

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 Site Vice President

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

423

843-7001

15

04

10

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Toxicity was not sampled in Maarch 2015.

Name **TVA - SEQUOYAH NUCLEAR PLANT**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

OMB No. 2040-0004

 Address **P.O. BOX 2000**
TN0026450
103 G

(INTEROFFICE OPS-5N-SQN)

PERMIT NUMBER

DISCHARGE NUMBER

SODDY - DAISY, TN 37384

 Facility **TVA - SEQUOYAH NUCLEAR PLANT**

 Location **HAMILTON COUNTY**

MONITORING PERIOD

 From **15 03 01**

 To **15 03 31**

EFFLUENT

 *** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH	SAMPLE MEASUREMENT	*****	*****	**	6	*****	8	12	0	13 / 31	GRAB
00400 1 0	PERMIT REQUIREMENT	*****	*****	**	6	*****	9	SU		THREE/ WEEK	GRAB
EFFLUENT GROSS					MINIMUM		MAXIMUM				
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	*****	*****	**	*****	10	13	19	0	2 / 31	GRAB
00530 1 0	PERMIT REQUIREMENT	*****	*****	**	*****	30	100	MG/L		TWICE/ MONTH	GRAB
EFFLUENT GROSS						MO AVG	DAILY MX				
OIL AND GREASE	SAMPLE MEASUREMENT	*****	*****	**	*****	<5	<5	19	0	2 / 31	GRAB
00556 1 0	PERMIT REQUIREMENT	*****	*****	**	*****	15	20	MG/L		TWICE/ MONTH	GRAB
EFFLUENT GROSS						MO AVG	DAILY MX				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	1.055	1.340	03	*****	*****	*****	**	0	31 / 31	RCORDR
50050 1 0	PERMIT REQUIREMENT	Req. Mon.	Req. Mon	MGD	*****	*****	*****	**		SEE PERMIT	RCORDR
EFFLUENT GROSS		MO AVG	DAILY MX								
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

423 843-7001

15 04 10

AREA CODE

NUMBER

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

The Turbine Building Sump (TBS) was discharged directly to the Yard Pond (YP) on 3/17/2015 to 3/31/2015..

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Name **TVA - SEQUOYAH NUCLEAR PLANT**
 Address **P.O. BOX 2000**
(INTEROFFICE OPS-5N-SQN)
SODDY - DAISY, TN 37384
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**
 Location **HAMILTON COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR 01)

F - FINAL

RECYCLED COOLING WATER

EFFLUENT

Form Approved.

OMB No. 2040-0004

TN0026450

PERMIT NUMBER

110 G

DISCHARGE NUMBER

MONITORING PERIOD

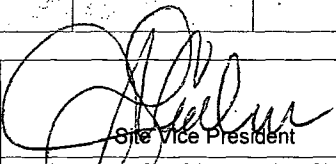
From **15 03 01** To **15 03 31**

*** NO DISCHARGE ☒ ***

NOTE: Read instructions before completing this form.

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PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00010 1 0	PERMIT REQUIREMENT	*****	*****	**	*****	*****	REPORT DAILY MX	DEG C		CONTINUOUS	CALCULATED
TEMPERATURE, WATER DEG. CENTIGRADE	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00010 Z 0	PERMIT REQUIREMENT	*****	*****	**	*****	*****	30.5 DAILY MX	DEG C		CONTINUOUS	CALCULATED
INSTREAM MONITORING											
TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		04			
00016 1 0	PERMIT REQUIREMENT	*****	*****	**	*****	*****	5 DAILY MX	DEG C		CONTINUOUS	CALCULATED
EFFLUENT GROSS VALUE											
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*****		03	*****	*****	*****	**			
50050 1 0	PERMIT REQUIREMENT	*****	Req. Mon. DAILY MX	MGD	*****	*****	*****	**		CONTINUOUS	RECORD
EFFLUENT GROSS VALUE											
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	*****	*****	**	*****			19			
50060 1 0	PERMIT REQUIREMENT	*****	*****	**	*****	0.1 MO AVG	0.1 DAILY MX	MG/L		Five per Week	CALCULATED
EFFLUENT GROSS VALUE											
TEMPERATURE - C, RATE OF CHANGE	SAMPLE MEASUREMENT	*****		04	*****	*****	*****	**			
82234 1 0	PERMIT REQUIREMENT	*****	2 DAILY MX	DEG C	*****	*****	*****	**		CONTINUOUS	CALCULATED
EFFLUENT GROSS VALUE											
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

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John T. Carlin			423	843-7001	15	04	10
Site Vice President			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No Discharge this Period

Name **TVA - SEQUOYAH NUCLEAR PLANT**

DISCHARGE MONITORING REPORT (DMR)

(SUBR 01)

OMB No. 2040-0004

 Address **P.O. BOX 2000**

(INTEROFFICE OPS-5N-SQN)

SODDY - DAISY, TN 37384

 Facility **TVA - SEQUOYAH NUCLEAR PLANT**

 Location **HAMILTON COUNTY**

TN0026450

110 T

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

YEAR MO DAY

YEAR MO DAY

 From **15 03 01**

 To **15 03 31**

F - FINAL

RECYCLED COOLING WATER

EFFLUENT

 *** NO DISCHARGE ☒ ***

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ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
IC25 STATRE 7DAY CHR CERIODAPHNIA	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP3B 1 0 0	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
IC25 STATRE 7DAY CHR PIMEPHALES	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	23			
TRP6C 1 0 0	PERMIT REQUIREMENT	*****	*****	****	43.2 MINIMUM	*****	*****	PERCENT		SEMI ANNUAL	COMPOS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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Site Vice President

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 Site Vice President
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

423 843-7001

AREA CODE

NUMBER

DATE

15 04 10

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No Discharge this Period

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

Name **TVA - SEQUOYAH NUCLEAR PLANT**
 Address **P.O. BOX 2000**
(INTEROFFICE OPS-SN-SQN)
SODDY - DAISY, TN 37384
 Facility **TVA - SEQUOYAH NUCLEAR PLANT**
 Location **HAMILTON COUNTY**

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
 DISCHARGE MONITORING REPORT (DMR)

MAJOR

(SUBR 01)

F - FINAL

WASTEWATER & STORM WATER

EFFLUENT

Form Approved.

OMB No. 2040-0004

TN0026450

118 G

PERMIT NUMBER

DISCHARGE NUMBER

MONITORING PERIOD

From **15 03 01**

To **15 03 31**

*** NO DISCHARGE ☒ ***

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ATTN:Millicent Garland

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
OXYGEN, DISSOLVED (DO) 00300 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**		*****	*****	19			
	PERMIT REQUIREMENT	*****	*****	****	2 MINIMUM	*****	*****	MG/L		TWICE/ WEEK	GRAB
SOLIDS, TOTAL SUSPENDED 00530 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		19			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	100 DAILY MX	MG/L		TWICE/ WEEK	GRAB
SOLIDS, SETTLEABLE 00545 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT	*****	*****	**	*****	*****		25			
	PERMIT REQUIREMENT	*****	*****	****	*****	*****	1 DAILY MX	ML/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS	SAMPLE MEASUREMENT			03	*****	*****	*****	**			
	PERMIT REQUIREMENT	Req. Mon. MO AVG	Req. Mon. DAILY MX	MGD	*****	*****	*****	*		ONCE/ BATCH	ESTIMA
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

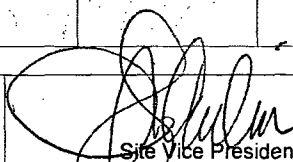
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

John T. Carlin

Site Vice President

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TELEPHONE

423 843-7001

AREA CODE

NUMBER

DATE

15 04 10

YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

During this reporting period, there has been no flow from the Dredge Pond other than that resulting from rainfall. No Discharge this Period