



Tennessee Valley Authority, Sequoyah Nuclear Plant, P.O. Box 2000, Soddy Daisy, TN 37384

August 12, 2019

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Subject: **Sequoyah Nuclear Plant, Discharge Monitoring Report (DMR), July 2019**

Attached is the July 2019 DMR for Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in blue ink, reading "Millicent Garland".

Millicent Garland
Environmental Scientist

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)

 Form Approved.
 OMB No. 2040-0004

 TN0026450 101 G
 PERMIT NUMBER DISCHARGE NUMBER

 F - FINAL
 DIFFUSER DISCHARGE
 EFFLUENT

 MONITORING PERIOD
 From YEAR MO DAY To YEAR MO DAY
 19 07 01 19 07 31

*** NO DISCHARGE ***

ATTN:Millicent Garland

NOTE: Read instructions before completing this form.

| 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 | ***** | ***** | ** | ***** | ***** | 42.3 | 04 | 0 | 31 / 31 | RCORDR |
| 00010 1 0 EFFLUENT GROSS | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | Req. Mon. DAILY MAX | DEG. C. | | CONTI NUOUS | CALCTD |
| TEMPERATURE, WATER DEG. CENTIGRADE | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | ***** | 29.9 | 04 | 0 | 31 / 31 | MODEL |
| 00010 Z 0 INSTREAM MONITORING | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 30.5 DAILY MX | DEG. C. | | CONTI NUOUS | CALCTD |
| TEMP. DIFF. BETWEEN SAMP. & UPSTRM DEG.C | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | ***** | 2.2 | 04 | 0 | 31 / 31 | CALCTD |
| 00016 1 S EFFLUENT GROSS | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 3.0 DAILY MX | DEG. C. | | CONTI NUOUS | CALCTD |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | ***** | ***** | 03 | ***** | ***** | ***** | ** | 0 | 31 / 31 | RCORDR |
| 50050 1 0 EFFLUENT GROSS | PERMIT REQUIREMENT | ***** | 1744 Req. Mon. DAILY MAX | MGD | ***** | ***** | ***** | **** | | CONTI NUOUS | RCORDR |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | 1729 | ***** | 03 | ***** | ***** | ***** | 03 | 0 | 31 / 31 | CALCTD |
| 50050 1 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | Req. Mon. MO AVG | ***** | MGD | ***** | ***** | ***** | MGD | | CONTI NUOUS | CALCTD |
| CHLORINE, TOTAL RESIDUAL | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | 0.021 | 0.032 | 19 | 0 | 22 / 31 | GRAB |
| 50060 1 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 0.1 MO AVG | 0.1 DAILY MAX | MG/L | | FIVE PER WEEK | CALCTD |
| TEMPERATURE - C, RATE OF CHANGE | SAMPLE MEASUREMENT | ***** | 0.1 | 62 | ***** | ***** | | ** | 0 | 31 / 31 | CALCTD |
| 82234 1 0 EFFLUENT GROSS | PERMIT REQUIREMENT | ***** | 2.0 DAILY MX | DEG C/HR | ***** | ***** | ***** | **** | | CONTI NUOUS | CALCTD |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Matthew Rasmussen

Site Vice President

TYPED OR PRINTED

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.



Site Vice President

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

423 843-7001

AREA CODE

NUMBER

DATE

19 08 07

YEAR MO DAY

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

No closed mode operation. The following injections occurred: Spectrus BD 1500 (max calc. was 0.047 mg/L, limit is 2.0 mg/L), Spectrus CT 1300 (max calc was 0.0330 mg/L, limit is 0.05 mg/L), Flogard MS 6236 (max calc. was 0.02852 mg/L, limit is 0.20 mg/L).

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 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 **19** MO **07** DAY **01** To YEAR **19** MO **07** DAY **31**

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

ATTN:Millicent Garland

| PARAMETER | | QUANTITY OR LOADING | | | QUALITY OR CONCENTRATION | | | UNITS | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|-----------------------------------|--------------------|---------------------|---------|-------|--------------------------|---------|---------|---------|--------|-----------------------|-------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | | | | |
| IC25 STATRE 7DAY CHR CERIODAPHNIA | SAMPLE MEASUREMENT | ***** | ***** | ** | Monitoring Not Required | ***** | ***** | 23 | | | |
| TRP3B 1 0 | PERMIT REQUIREMENT | ***** | ***** | **** | 42.8 | ***** | ***** | PERCENT | | SEMI ANNUAL | COMPOS |
| EFFLUENT GROSS | | | | | MINIMUM | | | | | | |
| IC25 STATRE 7DAY CHR PIMEPHALES | SAMPLE MEASUREMENT | ***** | ***** | ** | Monitoring Not Required | ***** | ***** | 23 | | | |
| TRP6C 1 0 | PERMIT REQUIREMENT | ***** | ***** | **** | 42.8 | ***** | ***** | PERCENT | | SEMI ANNUAL | COMPOS |
| EFFLUENT GROSS | | | | | MINIMUM | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
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| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

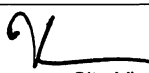
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Matthew Rasmussen

Site Vice President

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19 08 07

YEAR MO DAY

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

Toxicity was not sampled in July 2019.

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MAJOR
(SUBR 01)

Form Approved.
OMB No. 2040-0004

TN0026450

103 G

PERMIT NUMBER

DISCHARGE NUMBER

F - FINAL

LOW VOL. WASTE TREATMENT POND

EFFLUENT

MONITORING PERIOD

From YEAR 19 MO 07 DAY 01 To YEAR 19 MO 07 DAY 31

*** NO DISCHARGE ***

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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 | | | |
| PH | SAMPLE MEASUREMENT | ***** | ***** | ** | 6.9 | ***** | 8.5 | 12 | 0 | 6 / 31 | GRAB |
| 00400 1 0 | PERMIT REQUIREMENT | ***** | ***** | ** | 6.0 | ***** | 9.0 | SU | | ONCE/ WEEK | GRAB |
| EFFLUENT GROSS | | | | | MINIMUM | | MAXIMUM | | | | |
| SOLIDS, TOTAL SUSPENDED | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | 5.6 | 5.6 | 19 | 0 | 1 / 31 | GRAB |
| 00530 1 0 | PERMIT REQUIREMENT | ***** | ***** | ** | ***** | 30.0 | 100.0 | MG/L | | ONCE/ MONTH | GRAB |
| EFFLUENT GROSS | | | | | | MO AVG | DAILY MX | | | | |
| OIL AND GREASE | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | <5.0 | <5.0 | 19 | 0 | 1 / 31 | GRAB |
| 00556 1 0 | PERMIT REQUIREMENT | ***** | ***** | ** | ***** | 15.0 | 20.0 | MG/L | | ONCE/ MONTH | GRAB |
| EFFLUENT GROSS | | | | | | MO AVG | DAILY MX | | | | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | 1.330 | 1.527 | 03 | ***** | ***** | ***** | ** | 0 | 5 / 31 | INSTAN |
| 50050 1 0 | PERMIT REQUIREMENT | Req. Mon. | Req. Mon | MGD | ***** | ***** | ***** | ** | | ONCE/ WEEK | INSTAN |
| EFFLUENT GROSS | | MO AVG | DAILY MX | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Matthew Rasmussen

Site Vice President

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

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423 843-7001

AREA CODE

NUMBER

DATE

19 08 07

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 July 8 - July 12, 2019.

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

MAJOR
 (SUBR 01)

Form Approved.
 OMB No. 2040-0004

TN0026450 110 G
 PERMIT NUMBER DISCHARGE NUMBER

F - FINAL
 RECYCLED COOLING WATER
 EFFLUENT

MONITORING PERIOD
 From YEAR 19 MO 07 DAY 01 To YEAR 19 MO 07 DAY 31

*** NO DISCHARGE XX ***

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 | ***** | ***** | ** | ***** | ***** | | 04 | | | |
| 00010 1 0 | PERMIT REQUIREMENT | ***** | ***** | ** | ***** | ***** | REPORT DAILY MX | DEG C | | CONTINUOUS | CALCULATED |
| EFFLUENT GROSS VALUE | | | | | | | | | | | |
| 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 | | | | | | | | | | |

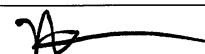
NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Matthew Rasmussen

Site Vice President

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Site Vice President

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TELEPHONE

423 843-7001

AREA CODE

NUMBER

DATE

19 08 07

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**
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 Location **HAMILTON COUNTY**

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

MAJOR
 (SUBR 01)

Form Approved.
 OMB No. 2040-0004

TN0026450

110 T

PERMIT NUMBER

DISCHARGE NUMBER

F - FINAL

RECYCLED COOLING WATER

EFFLUENT

MONITORING PERIOD

From YEAR **19** MO **07** DAY **01** To YEAR **19** MO **07** DAY **31**

*** NO DISCHARGE XX ***

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 | ***** | ***** | ** | | ***** | ***** | 23 | | | |
| | PERMIT REQUIREMENT | ***** | ***** | **** | 42.8 MINIMUM | ***** | ***** | PERCENT | | SEMI ANNUAL | COMPOS |
| IC25 STATRE 7DAY CHR PIMEPHALES | SAMPLE MEASUREMENT | ***** | ***** | ** | | ***** | ***** | 23 | | | |
| | PERMIT REQUIREMENT | ***** | ***** | **** | 42.8 MINIMUM | ***** | ***** | PERCENT | | SEMI ANNUAL | COMPOS |
| TRP3B 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| TRP6C 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
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| | PERMIT REQUIREMENT | | | | | | | | | | |

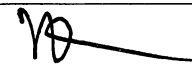
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Matthew Rasmussen

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AREA CODE

NUMBER

DATE

19 08 07

YEAR MO DAY

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

No Discharge this Period

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MAJOR

(SUBR 01)

Form Approved.

OMB No. 2040-0004

TN0026450

118 G

PERMIT NUMBER

DISCHARGE NUMBER

F - FINAL

WASTEWATER & STORM WATER

EFFLUENT

MONITORING PERIOD

From YEAR **19** MO **07** DAY **01** To YEAR **19** MO **07** DAY **31**

*** NO DISCHARGE XX ***

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|---|---------------------------|-------------------------|---------------------------|-------|--------------------------|---------|-----------------|--------|-----------------------|-------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | | | |
| OXYGEN, DISSOLVED (DO) | SAMPLE MEASUREMENT | ***** | ***** | ** | | ***** | ***** | 19 | | |
| 00300 1 0 | PERMIT REQUIREMENT | ***** | ***** | **** | 2 | ***** | ***** | MG/L | | GRAB |
| EFFLUENT GROSS | | | | | MINIMUM | | | | TWICE/ WEEK | |
| SOLIDS, TOTAL SUSPENDED | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | ***** | | 19 | | |
| 00530 1 0 | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 100 | MG/L | | GRAB |
| EFFLUENT GROSS | | | | | | | DAILY MX | | TWICE/ WEEK | |
| SOLIDS, SETTLEABLE | SAMPLE MEASUREMENT | ***** | ***** | ** | ***** | ***** | | 25 | | |
| 00545 1 0 | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 1 | ML/L | | GRAB |
| EFFLUENT GROSS | | | | | | | DAILY MX | | ONCE/ MONTH | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | | | 03 | ***** | ***** | ***** | ** | | |
| 50050 1 0 | PERMIT REQUIREMENT | Req. Mon. MO AVG | Req. Mon. DAILY MX | MGD | ***** | ***** | ***** | * | | ESTIMA |
| EFFLUENT GROSS | | | | | | | | | ONCE/ BATCH | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |

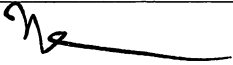
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19 08 07

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

**TVA Sequoyah Nuclear Plant
NPDES Permit Number TN0026450
Attachment 1**

Turbine Building Sump Monitoring Data – July 2019

The turbine building sump was discharged directly to the yard drainage pond 7/8/19 - 7/12/19. During this period, the turbine building sump was monitored in accordance with the narrative condition found in Part 1.A.2 of the NPDES Permit TN0026450. There are no permit limits applicable at this monitoring point, which flows to the yard drainage pond, mixes with other flows in the diffuser pond, then discharges to the Tennessee River at Outfall 101.

| Parameter | Daily Minimum | Monthly Average | Daily Maximum | No. of Samples |
|------------------|----------------------|------------------------|----------------------|-----------------------|
| Flow | - | 1.49 MGD | 1.49 MGD | 1 |
| pH | 7.92 | - | 7.92 | 1 |
| O&G | - | < 5.0 | < 5.0 | 1 |
| TSS | - | 4.8 mg/L | 4.8 mg/L | 1 |