



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

February 12, 2019

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

Subject: **Sequoyah Nuclear Plant, Annual Storm Water Monitoring Report, January 2019**

Attached is the Annual Storm Water Monitoring Report, January 2019, Sequoyah Nuclear Plant.

Respectfully,

A handwritten signature in dark ink, appearing to read "Millicent Garland".

Millicent Garland
Environmental Scientist



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 19
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.773	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 21
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.675	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector-General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 1
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	2.680	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 18
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	1.180	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

- The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.
- If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).
- Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 13
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.0705	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 9
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.565	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 3
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	2.310	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title


Signature

2/12/19
Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 2
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/23/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.358	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov



TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION (TDEC)
Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor,
Nashville, Tennessee 37243, 1-888-891-TDEC (8332)
Annual Stormwater Monitoring Report for Stormwater Discharges Associated with Industrial Activities
under the Tennessee Multi-Sector General NPDES Permit (TMSP)

Facility Name:	TVA - Sequoyah Nuclear Plant	TMSP Number:	TNR050015
Contact Person:	Millicent Garland	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2019	Outfall Number:	SW 8
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	01/17/19
LOW CONCENTRATION WAIVER (See Instructions Note 3): List all parameters for which the facility is certifying that there has not been a significant change in industrial activity or the pollution prevention measures in the area of the facility that drains to the outfall for which sampling was waived.			
Parameters:			

DIRECTIONS: In the spaces below, provide the results of storm water monitoring for the designated outfall. The parameters for which monitoring must be conducted depend on which industry sector(s) of the TMSP applies to the discharge. Look up your sector(s) in the permit and analyze for the parameters that apply. If parameter is not listed below, submit additional sheets. All samples should be collected by grab technique.

Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	n/a	Magnesium, Total	0.064	n/a
Ammonia	4.0	n/a	Mercury, Total	0.0024	n/a
Arsenic, Total	0.15	n/a	Nickel, Total	0.875	n/a
BOD, 5-Day	30	n/a	Nitrate + Nitrite Nitrogen	0.68	n/a
Cadmium, Total	0.0021	n/a	Oil and Grease	15	n/a
Chromium, Total	1.8	n/a	pH	5.0-9.0	n/a
COD	120	n/a	Phenols	0.016	n/a
Copper, Total	0.018	n/a	Phosphorus, Total (as P)	2.0	n/a
Cyanide, Total	0.022	n/a	Selenium, Total	0.005	n/a
Fluoride	1.8	n/a	Silver, Total	0.0038	n/a
Iron, Total	5.0	0.328	Total Suspended Solids (TSS)	150	n/a
Lead, Total	0.156	n/a	Zinc, Total	0.395	n/a

CERTIFICATION AND SIGNATURE Make all entries in ink. This report must be signed by a responsible corporate officer for a corporation, a general partner for a partnership, the proprietor for a sole proprietorship, or a principal executive officer or ranking elected official for a public agency.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Matthew Rasmussen

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

INSTRUCTIONS

1. The purpose of this form is to report stormwater monitoring results under the TMSP. **Only one sample per calendar year is required** (except Sectors J & H, for more details see the TMSP at <http://www.tn.gov/environment/permits/tmsp.shtml>) Grab samples should be collected within the first 30 minutes (or as soon thereafter as practical, but not to exceed one hour) of when the runoff or snowmelt begins discharging. A separate form must be submitted for each outfall. If more than one sample is collected at any outfall, submit the average results of all monitoring data (for calculating average, use 1/2 of a detection level, if parameter was not detected). New facilities must conduct sampling in the year during which permit coverage was obtained and during each following year. The completed form must be submitted by March 31 of the following year, e.g. monitoring required during 2013 calendar year is due by March 31, 2014.

2. If the results of annual stormwater runoff monitoring demonstrates that the facility has exceeded the benchmark concentration, the permittee must inform The Division's local Environmental Field Office (EFO) in writing within 30 days from the time stormwater monitoring results were received, describing the likely cause of the exceedance(s). Furthermore, within 60 days from the time stormwater monitoring results were received, the facility must review its stormwater pollution prevention plan (SWPPP), make any modifications or additions to the plan which would assist in reducing runoff concentrations to less than the benchmark concentrations for that parameter, and submit to the local EFO a summary of the proposed SWPPP modifications (including a timetable for implementation).

3. Low Concentration Waiver – When the average concentration for a pollutant calculated from monitoring data collected from the first four calendar years of monitoring is less than the benchmark concentration, a facility may waive monitoring requirements in the last annual monitoring period. This form should be used for certification of low concentration waiver provision.

Complete, sign and date this form before it is submitted. Keep a copy of the completed form for your records. Submit the original completed and signed form to: Compliance & Enforcement Unit, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243 or you may submit the report electronically to: DWRWater.Compliance@tn.gov