



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

March 24, 2014

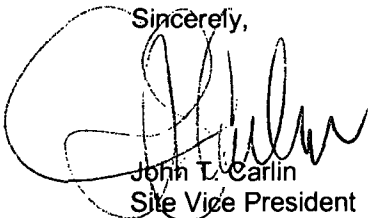
State of Tennessee  
Department of Environment and Conservation  
Division of Water Resources  
William R. Snodgrass Tennessee Tower  
312 Rosa L. Parks Avenue, 11th Floor  
Nashville, Tennessee 37243

TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT – TENNESSEE MULTI-SECTOR GENERAL PERMIT (TMSP) ANNUAL STORM WATER MONITORING REPORT FOR 2013

Please find enclosed the 2013 Annual Storm Water Monitoring Report for Sequoyah Nuclear Plant TMSP No. TNR050015. In addition, the 30 and 60 day letter previously submitted for storm water outfall number 3 is enclosed for your information. If you have any questions or need additional information, please contact Spencer Whittier by phone at (423) 843-6714 or by e-mail at [sdwhittier@tva.gov](mailto:sdwhittier@tva.gov).

*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

C001  
NLL

SQN Unit 0	QUARTERLY STORM WATER SAMPLING	0-PI-ENV-000-019.Q Rev. 0009 Page 15 of 17
---------------	-----------------------------------	--

Appendix D  
(Page 1 of 1)

CERTIFICATION AND SIGNATURE

*"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."*

Signature

Name:

Title:

Signatory Authority for:

Site Vice President

Sequoyah Nuclear Plant N/A

Date:

3/24/14

SQN Unit 0	QUARTERLY STORM WATER SAMPLING	0-PI-ENV-000-019.Q Rev. 0009 Page 16 of 17
---------------	-----------------------------------	--

**Appendix E**  
**(Page 1 of 1)**

**REPRESENTATIVE STORM WATER OF DISCHARGE POINTS**

Storm Water Outfall # 8 is considered to be a representative discharge of Storm Water Outfall # 5 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall. Storm Water Outfall # 5 consists of approximately 17 acres (740,523 ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 8 based on the percentages of gravel, asphalt, and impervious surfaces. Storm Water Outfall # 5 drains into the effluent for Storm Water Outfall # 8 and there is no dilution of this storm water with any non-storm water source. Therefore, this effluent should be substantially identical to that effluent from Storm Water Outfall # 8.

Storm Water Outfall # 6 is considered to be a representative discharge of Storm Water Outfall # 7 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall. Storm Water Outfall # 7 consists of approximately 6 acres (261,361 ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 6 based on the percentages of gravel, asphalt, and impervious surfaces. Materials in the area are also equivalent to that for Storm Water Outfall # 6. These consist of empty drums, metal buildings, construction equipment, concrete structures, wood and plastic similar to that equipment stored for in the area of Storm Water Outfall # 6. This effluent should be substantially identical to that effluent from Storm Water Outfall # 6.

Storm Water Outfall # 4 is considered to be a representative discharge of Storm Water Outfall #10 based on a consideration of industrial activity, significant materials, and management practices and activities within the area drained by the Outfall. Storm Water Outfall # 10 consists of approximately 10 acres (435,602ft<sup>2</sup>). The runoff coefficient for this area is equivalent to that for Storm Water Outfall # 4 based on the percentages of gravel, asphalt, and impervious surfaces. Material storage is also equivalent to that for Storm Water Outfall # 4. This consists of equipment for later use, metal buildings, concrete structures, wood and plastic similar to that equipment stored for in the area of Storm Water Outfall # 4. This effluent should be substantially identical to that effluent from Storm Water Outfall # 4.

*"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."*

Signature

Name: John T. Carlin

Title: SITE VICE PRESIDENT

Signatory Authority for:

Site Vice President

Sequoyah Nuclear Plant

N/A

Date:

3/24/14

SQN Unit 0	QUARTERLY STORM WATER SAMPLING	0-PI-ENV-000-019.Q Rev. 0009 Page 17 of 17
---------------	-----------------------------------	--

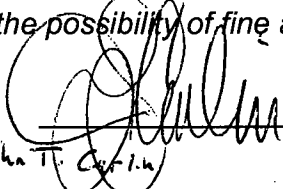
**Appendix F  
(Page 1 of 1)**

**ALTERNATIVE CERTIFICATION OF STORM WATER POINTS**

Material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, significant materials from past industrial activity that are located in areas of the facility within the drainage area of the Storm Water Outfall Numbers 14 and 20 are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period.

*"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."*

Signature



Date:

3/24/14

Name: John T. Carlin

Title: SITE VICE PRESIDENT

Signatory Authority for:

Site Vice President

Sequoyah Nuclear Plant N/A



**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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 1
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	2/10/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	3	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.

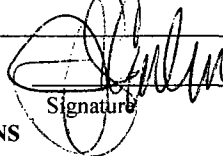
I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, 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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

  
Signature

Date

3/24/14

**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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 2
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	5	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 3
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	8	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.

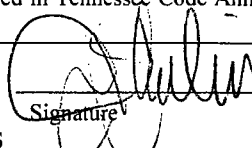
I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, 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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

  
Signature

3/21/14  
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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 4
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013

**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	4	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.

John T. Carlin

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: [DWRRWater.Compliance@tn.gov](mailto:DWRRWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 6
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013

**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	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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

3/24/14

**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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 8
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 9
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

3/24/14

**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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 11
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	0.4	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 12
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	0.2	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 13
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013

**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	0.2	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.

John T. Carlin

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: [DWWater.Compliance@tn.gov](mailto:DWWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 15
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	2/10/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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.

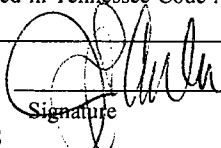
Parameter	Benchmark (mg/L)	Annual Sample Result (mg/L)	Parameter (continued)	Benchmark (mg/L)	Annual Sample Result (mg/L)
Aluminum, Total	0.75	N/A	Magnesium, Total	0.064	N/A
Ammonia	4.0	N/A	Mercury, Total	0.0024	N/A
Arsenic, Total	0.15	N/A	Nickel, Total	0.875	N/A
BOD, 5-Day	30	N/A	Nitrate + Nitrite Nitrogen	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	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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

  
Signature

3/21/14  
Date

Permittee name (print or type)

Official Title

**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: [DWRRWater.Compliance@tn.gov](mailto:DWRRWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 16
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	2/10/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	0.5	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 17
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	02/10/13
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	5	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 18
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	2/10/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	4	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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

3/18/14

**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: [DWWater.Compliance@tn.gov](mailto:DWWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 19
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	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.

John T. Carlin

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: [DWWater.Compliance@tn.gov](mailto:DWWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 21
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	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.

John T. Carlin

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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 22
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	0.1	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.

John T. Carlin

Site Vice President, Sequoyah Nuclear Plant

Permittee name (print or type)

Official Title

Signature

Date

3/21/14

**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](mailto: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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 23
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	2/10/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	4	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.

John T. Carlin

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: [DWRRWater.Compliance@tn.gov](mailto:DWRRWater.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:	Spencer Whittier - Environmental Engineer	Phone Number:	423-843-6714
This report is submitted for the following calendar year (e.g. 2013):	2013	Outfall Number:	SW 24
List all TMSP sectors which apply to discharge from this outfall:	O	Sample Date:	1/11/2013
<b>LOW CONCENTRATION WAIVER</b> (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.			
<b>Parameters:</b>			

**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	0.5	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.

John T. Carlin

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](mailto:DWRWater.Compliance@tn.gov)**



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

March 20, 2013

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

**TENNESSEE VALLEY AUTHORITY - SEQUOYAH NUCLEAR PLANT - TENNESSEE STORM  
WATER MULTI-SECTOR GENERAL PERMIT FOR INDUSTRIAL ACTIVITIES PERMIT NO.  
TNR050015 SECTOR O EXCEEDANCE OF THE BENCHMARK MONITORING REQUIREMENT.**

Please find enclosed the thirty day notification, the lab analysis for the exceedance of the benchmark monitoring requirement for total recoverable iron for Storm Water Outfall Number 3, the sixty day notification of the review of Sequoyah Nuclear Plant's Storm Water Pollution Prevention Plan (SWPPP), and a summary of Best Management Practices (BMPs) modifications and additions to mitigate future exceedance of total recoverable iron.

**Description of Event**

Tennessee Storm Water Multi-Sector General Permit for Industrial Activities Sector O requires annual monitoring of total recoverable iron. Sequoyah Nuclear Plant sampled for total recoverable iron on January 11, 2013. The storm water analytical monitoring results were received on February 25, 2013. The analytical monitoring results for Storm Water Outfall Number 3 exceeded the benchmark monitoring requirement for total recoverable iron as stated in Table O-2, Benchmark Monitoring Requirements for Steam Electric Power Generating Facilities. The qualifying event resulted from a four hour rainfall on the morning of January 11, 2013. The analytical results can be seen tabulated below.

Table 1. Storm Water Annual Iron Exceedance Values

Storm Water Outfall Number	Sample Date	Sample Analysis Received Date	Backup Sample Analysis Received	Analytical Results (mg/L)	Averaged Results (mg/L)	Benchmark Monitoring Requirement (mg/L)
3	1/11/2013	2/25/2013	03/05/2013	8.4; 6.7	8	5

The Tennessee Storm Water Multi-Sector General Permit for Industrial Activities requires informing the division's local Environmental Field Office (EFO) within 30 days from the time storm water monitoring results were received describing the likely cause of the exceedance.



### Likely Cause of the Exceedance

The likely cause of the exceedance of the benchmark monitoring requirement for total recoverable iron is elevated iron concentration in the native soil around the storm water outfall and the presence of exposed steel which had been temporarily staged in the area.

### SWPPP Review and Modification Timeline

Sequoyah Nuclear Plant's SWPPP has been reviewed to determine the modifications and additions to the plan which would assist in reducing the iron effluent concentration at Storm Water Outfall Number 3. A brief summary of the proposed modifications, including a timetable for implementation follows.

### Storm Water Number 3


Per the SQN SWPPP, ground cover consists of crushed stone, gravel, and grass. Drainage ditches are equipped with rip rap and filter socks as best management practices.

The exposed steel and temporary material storage near storm water outfall number 3 will be removed by 3/30/2013.

If you have any questions or need additional information please contact Brad Love of Sequoyah's Environmental staff by phone at (423) 843-6714 or by e-mail [bmlove@tva.gov](mailto:bmlove@tva.gov).

*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 F. Carlin  
Site Vice President  
Sequoyah Nuclear Plant

Enclosures

cc (Enclosures):

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



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Brad Love  
TVA-Sequoyah Nuclear Plant  
P.O.Box 2000  
Soddy-Daisy, TN 37384

February 25, 2013

Date Received : 02/20/13 09:00  
Description : Annual Storm Water NPDES Samples  
Sample ID : SW 3  
Collected By : ZH/PB  
Collection Date : 01/11/13 09:30

ESC Sample # : L621136-03

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	8.4	0.10	mg/l	200.7	02/21/13 1731	388	02/22/13 2301	ST

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01  
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

## Notes:

The reported analytical results relate only to the sample submitted  
This report shall not be reproduced, except in full, without the written approval from ESC.  
Reported: 02/25/13 08:31 Printed: 02/25/13 08:31



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

# REPORT OF ANALYSIS

Brad Love  
TVA-Sequoyah Nuclear Plant  
P.O.Box 2000  
Soddy-Daisy, TN 37384

March 05, 2013

Date Received : 03/01/13 09:00  
Description : Annual Storm Water NPDES Samples  
Sample ID : SW 3 BACK UP  
Collected By : ZH/PB  
Collection Date : 01/11/13 09:30

ESC Sample # : L622673-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	6.7	0.10	mg/l	200.7	03/04/13 1850	580	03/05/13 1230	ALT

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit (PQL)

Laboratory Certification Numbers:

AIHA - 09227, AL - 40660, CA - I-2327, CT- PH-0197, FL - E87487, GA - 923, IN - C-TN-01  
KY - 90010, NC - ENV375, DW21704, ND - R-140, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ -0612, MN - 047-999-395, NY - 11742, NJ - TN002, WI - 998093910

## Notes:

The reported analytical results relate only to the sample submitted

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 03/05/13 16:08 Printed: 03/05/13 16:26