



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

February 25, 2011

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 and the lab analysis for the exceedance of the benchmark monitoring requirement for total recoverable iron for Storm Water Outfall Numbers 1, 2, and 9.

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 15, 2011 and January 16, 2011. The storm water analytical monitoring results were received on February 4, 2011. The analytical monitoring results for Storm Water Outfalls Nos. 1, 2, and 9 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 storm water event was triggered by accumulated snowfall and associated snow melt runoff. The analytical results can be seen tabulated below in Table 1.

Table 1. Storm Water Annual Iron Exceedance Values

Storm Water Outfall Number	Sample Date	Sample Analysis Received Date	Analytical Results (mg/L)	Benchmark Monitoring Requirement (mg/L)
1	1/15/2011	2/04/2011	16.0	5
2	1/16/2011	2/04/2011	9.0	5
9	1/15/2011	2/04/2011	5.7	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.



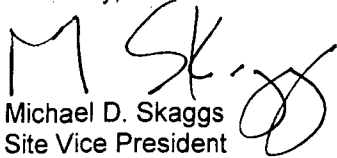
JEAS  
NRK

Likely Cause of the Exceedance

The likely cause of the exceedance of the benchmark monitoring requirement for total recoverable iron is elevated background iron concentration in the soil around the storm water outfalls (based on historical sampling) and the need for more effective best management practices (BMPs). Sequoyah is examining the use of more effective filtration methods at these outfalls.

If you have any questions or need additional information please contact Brad Love at (423) 843-6714 or Stephanie Howard at (423) 843-6700 of Sequoyah's Environmental staff.

Sincerely,

A handwritten signature in black ink, appearing to read "M Skaggs", with a large, stylized flourish at the end.

Michael D. Skaggs  
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 04, 2011

Date Received : 02/03/11 09:15  
Description : Annual Storm Water NPDES Samples  
Sample ID : SW 1  
Collected By : Chris Randolph  
Collection Date : 01/15/11 15:15

ESC Sample # : L500219-01

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	16.	0.10	mg/l	200.7	02/03/11 1504	528	02/04/11 1346	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: 02/04/11 15:41 Printed: 02/04/11 15:46



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 23, 2011

Date Received : 02/03/11 09:15  
Description : Annual Storm Water NPDES Samples  
Sample ID : SW 2  
Collected By : Chris Randolph  
Collection Date : 01/16/11 12:22

ESC Sample # : L500219-02

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	9.0	0.10	mg/l	200.7	02/03/11 1504	528	02/04/11 1348	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: 02/04/11 15:41 Revised: 02/23/11 08:29



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

February 04, 2011

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

Date Received : 02/03/11 09:15  
Description : Annual Storm Water NPDES Samples  
Sample ID : SW 9  
Collected By : Chris Randolph  
Collection Date : 01/15/11 12:02

ESC Sample # : L500219-07  
Site ID :  
Project # :

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	5.7	0.10	mg/l	200.7	02/03/11 1504	528	02/04/11 1411	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: 02/04/11 15:41 Printed: 02/04/11 15:46