

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

April 01, 2010

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 Nos. 1, 2, 15, and 17.

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 March 2, 2010 and March 11, 2010. The storm water analytical monitoring results were received on March 8, 2010 and March 19, 2010. The analytical monitoring results for Storm Water Outfalls Nos. 1, 2, 15 and 17 exceeded the benchmark monitoring requirement for total recoverable iron as stated in Table O-2, Benchmark Monitoring Requirements for Steam Electric Power Generating Facilities.

Storm Water Outfall No. 2 was sampled for total recoverable iron on March 2, 2010 and results were received on March 8, 2010. The analytical monitoring result for Storm Water Outfall No. 2 was 6.3mg/L. The backup sample for Storm Water Outfall No. 2 was sent for analysis on March 8, 2010 and results were received on March 10, 2010. The backup analytical monitoring result for Storm Water Outfall No. 2 was 4.3mg/L. Since the backup sample result was below the benchmark of 5.0mg/L, SQN had the original and the backup samples reanalyzed. The original sample was reanalyzed and the iron results were 5.5mg/L and 5.2mg/L. The backup sample was reanalyzed and the iron results were 5.2mg/L and 5.2mg/L. (See Table 1)

Storm Water Outfall Nos. 1, 15, and 17 were sampled for total recoverable iron on March 11, 2010 and results were received on March 19, 2010. The analytical monitoring results for Storm Water Outfall Nos. 1, 15, and 17 were 12.0mg/L, 7.4mg/L, and 6.2mg/L respectively. Backup samples for Storm Water Outfall Nos. 1, 15, and 17 were sent for analysis on March 22, 2010 and results were received on March 26, 2010. The backup analytical monitoring results for Storm Water Outfall Nos. 1, 15, and 17 were 11.0mg/L, 7.6mg/L, and 6.9mg/L respectively. The average analytical monitoring results for Storm Water Outfall Nos. 1, 15, and 17 were 11.0mg/L, 7.6mg/L, and 6.9mg/L respectively. The average analytical monitoring results for Storm Water Outfall Nos. 1, 15, and 17 were 11.5mg/L, 7.5mg/L, and 6.6mg/L respectively. (See Table 1)

JE25 NRR

			TABLE 1			
Storm	Sample	Received	Original	Backup	Average	Benchmark
Water	Date	Date	Sample	Sample	Sample	Monitoring
Outfall			Results	Results	Results	Requirement
No.			(mg/L)	(mg/L)	(mg/L)	(mg/L)
1	3/11/2010	3/19/2010	12.0	11.0	11.5	5.0
2	3/02/2010	3/08/2010	6.3, 5.5, 5.2	4.3, 5.2, 5.2	5.3	5.0
15	3/11/2010	3/19/2010	7.4	7.6	7.5	5.0
17	3/11/2010	3/19/2010	6.2	6.9	6.6	5.0

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(s).

Likely Cause of the Exceedance(s)

The likely cause of the exceedances(s) 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 Ann Hurt at (423) 843-6714 or Stephanie Howard at (423) 843-6700 of Sequoyah's Environmental staff.

Sincerely,

Christopher R. Church 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

YOUR LAB OF CHOICE

Tax I.D. 62-0814289

Est. 1970

Ms. Ann Hurt TVA-Sequoyah Nu P.O.Box 2000 Soddy-Daisy, TN			March 19,2010
Date Received Description	:	03/18/10 09:00 Annual Storm Water NPDES WW Samples	ESC Sample # : L449866-01
Sample ID	:	SW 1	Site ID : Project # :
Collected By Collection Date	:	MW/CR 03/11/10 11:40	

 Parameter
 Result
 Det.
 Limit
 Units
 Method
 Prep
 PID
 Analyzed
 AID

 Iron
 12.
 0.10
 mg/l
 200.7
 03/18/10
 1103
 501
 03/18/10
 2137
 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 - E67487, 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:

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Ms. Ann Hurt TVA-Sequoyah Nu P.O.Box 2000 Soddy-Daisy, TN			RE	PORT OF ANALYSIS	March	26,2010		
Date Received	:	03/23/10 09:00			ESC S	ample # :	L450627-01	
Description	:	Annual Storm Wate	er NPDES	WW Samples	Site	ID :		
Sample ID	:	SW 1						
Collected By Collection Date	:	M/W/C 03/11/10 11:40			Proje	ct # :		
Parameter			Result	Det Limit Units	Method	Pren	PID Analyzed	ATD

ralametel	Result	Det. Limit On	is Methou	Prep	PID Analyzea	AID
						_
Iron .	11.	0.10 mg	/1 200.7	03/23/10 1603	. 117 03/25/10 1712	LRL

Notes:

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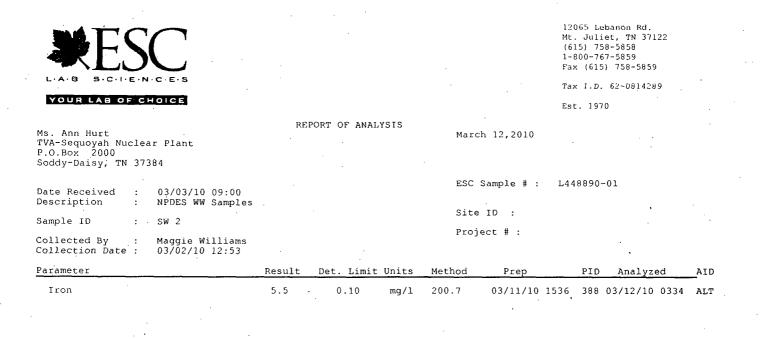
Stephanie Howar TVA-Sequoyah Nu P.O.Box 2000 Soddy-Daisy, TN	clea		March 07,2010
Date Received Description	:	03/04/10 09:00 Annual Storm Water NPDES WW Samples	ESC Sample # : L447701-01
Sample ID Collected By	:	SW-2 Maggie Willams	Site ID : Project # :
Collection Date		03/02/10 12:53	·

Parameter	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
·Iron	6.3	0.10	mg/l	200.7	03/04/10 1504	457	03/05/10 1432	DMM

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

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Iron

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03/11/10 1536 388 03/12/10 0337 ALT

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Ms. Ann Hurt			March 12,201	0	
TVA-Sequoyah Nuclear Plant					
P.O.Box 2000		•			
Soddy-Daisy, TN 37384			· · · ·	· ·	
•					
Date Received : 03/03/10 09:00	i		ESC Sample #	: L448890-02	
Description : NPDES WW Sampl	es				
Sample ID : SW 2	· .		Site ID :		
Sample ID : SW 2			Project # .:		
Collected By : Maggie William			Project # :		
Collection Date : 03/02/10 12:53				•	
Correction Date : 05/02/10 12:55					
Parameter	Result	Det. Limit Units	Method Prep	PID Analyzed	AID
· · · · · · · · · · · · · · · · · · ·			······································		

mg/l

200.7

0.10

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5.2

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YOUR LAB OF CH	OICE						Est. 197	0	
Ms. Ann Hurt TVA-Sequoyah Nuclear P.O.Box 2000 Soddy-Daisy, TN 3738		RE	CPORT OF ANALY	YSIS	Marcł	10,2010 ·			
Data Dataina d	<u></u>				ESC S	ample # :	L448311-	01	
Date Received : Description :	03/09/10 09:00 TVA-SQN					<u>i</u> :			
Sample ID :	SW2				Site				
Collected By : Collection Date :	Maggie Williams 03/02/10 12:53				Proje	ct # :		•	
Parameter		Result	Det. Limit	Units	Method	Prep	· PID	Analyzed	AID
Iron		4.3	0.10	mg/l	200.7	03/09/10	1117 501	03/09/10 1959	ALT
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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

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REPORT OF ANALYSIS Ms. Ann Hurt March 12,2010 TVA-Sequoyah Nuclear Plant P.O.Box 2000 Soddy-Daisy, TN 37384 ESC Sample # : L448890-03 Date Received 03/09/10 09:00 : Description NPDES WW Samples : Site ID : Sample ID . SW 2 Project # : Collected By Maggie Williams : 03/02/10 12:53 Collection Date :

Parameter Result Det. Limit Units Method Prep PID Analyzed AID Iron 5.2 0.10 03/11/10 1536 388 03/12/10 0340 ALT mg/l 200.7

BDL - Below Detection Limit

Det - Berow 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

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Ms. Ann Hurt

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March 12,2010

TVA-Sequoyah Nuclear Plant P.O.Box 2000 Soddy-Daisy, TN 37384 ESC Sample # : L448890-04 03/09/10 09:00 NPDES WW Samples Date Received : Description : Site ID : Sample ID SW 2 Project # : Maggie Williams 03/02/10 12:53 . Collected By : Collection Date :

REPORT OF ANALYSIS

Parameter Det. Limit Units Result Method Prep PID Analyzed AID İron 200.7 03/11/10 1536 388 03/12/10 0344 ALT 5.2 0.10 mg/l

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

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LAB SICII	E·N·	C·E·S						Tax I.D.	62-0814289	
YOUR LAB OF	сн	OICE						Est. 1970) .	
Ms. Ann Hurt TVA-Sequoyah Nuc P.O.Box 2000 Soddy-Daisy, TN			RE:	PORT OF ANAI	YSIS	Marc	h 19,2010			
Date Received	:	03/18/10 09:00		•		ESC	Sample # :	L449866-	02	
Description Sample ID	:	Annual Storm Wate	er NPDES V	WW Samples			ID : ect # :			
Collected By Collection Date		MW/CR 03/11/10 11:22				. PIOJ	ect # :		•	
Parameter		·	Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron			7.4	0.10	mg/l	200.7	03/18/10 1	103 501	03/18/10 2134	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

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		REPORT OF ANALYSIS		
Ms. Ann Hurt			March 26,2010	
TVA-Sequoyah Nuc	clea	r Plant	4	
P.O.Box 2000				
Soddy-Daisy, TN	373			
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			ESC Sample # : L450627-02	
Date Received	:	03/23/10 09:00		
Description	:	Annual Storm Water NPDES WW Samples		
			Site ID :	
Sample ID	:	SW 15		
-			Project # :	
Collected By	:	M/W/C		
Collection Date	:	03/11/10 11:22		

Parameter	Result	Det. Limit U	Inits	Method	Prep	PID Analyzed	AID
Iron	7.6	0.10	mġ/l	200.7	03/23/10 1603	117 03/25/10 1715	LRL
		• · · · · · · · · · · · · · · · · · · ·					
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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

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Ms. Ann Hurt TVA-Sequoyah Nu P.O.Box 2000 Soddy-Daisy, TN			March 19,2010
Date Received Description	:	03/18/10 09:00 Annual Storm Water NPDES WW Samples	ESC Sample # : L449866-03
Sample ID	:	SW17	Site ID : Project # :
Collected By Collection Date	:	MW/CR 03/11/10 11:08	

Parameter		Result	Det. Limit	Units	Method	Prep	PID	Analyzed	AID
Iron	·	6.2 '	0.10	mg/l	200.7	03/18/10 1103	501 0	3/18/10 2131	ALT
	•				۰.				

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

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Ms. Ann Hurt		RE	EPORT OF ANAL	YSIS	Marc	n 26,2010	ES.	t. 197	U		
TVA-Sequoyah Nuclea P.O.Box 2000 Soddy-Daisy, TN 373											
Date Received : Description :	03/23/10 09:00 Annual Storm Wat	er NPDES	WW Samples		ESC :	Sample # :	L45	50627-	03		
Sample ID :	SW 17			· · · ·		ID :					
Collected By : Collection Date :	M/W/C 03/11/10 11:08				Proje	ect # :					,
Parameter		Result	Det. Limit	Units M	lethod	Prep	۱ 	PID	Analyz	ed	AID
Iron		. 6.9	0.10	mg/1 2	200.7	03/23/10	1603	117	03/25/10	İ718	LRL
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DL - Below Detectio	n Limit										
Det. Limit - Practi	cal Quantitation		L) y Certificati	on Numbers	. ·						
AIHA - 0922	7, AL - 40660, CA	A ÷ I-232 ²	, СТ- РН-019		37487, G	A - 923, I	N - C-	-ти-01			

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