

**CERTIFICATION STATEMENT  
COMPLETION OF CLOSURE ACTIVITIES DEMONSTRATION  
391-3-4-.10(7) and 40 C.F.R. PARTS 102(f)(3) and 102(c)  
GEORGIA POWER COMPANY - PLANT YATES ASH POND 1 (AP-1)**

The Federal CCR Rule and Georgia CCR Rule (391-3-4-.10) require the owner or operator of a CCR unit to obtain a certification from a qualified professional engineer verifying that closure has been completed in accordance with the closure plan specified in 40 C.F.R. § 257.102. See 40 C.F.R. § 257.102(f)(3); Ga. Comp. R. & Regs. r. 391-3-4-.10(7). This Certification Statement is provided to document that Georgia Power Company has completed all closure activities, including CCR removal and decontamination at Plant Yates Ash Pond 1 (AP-1).

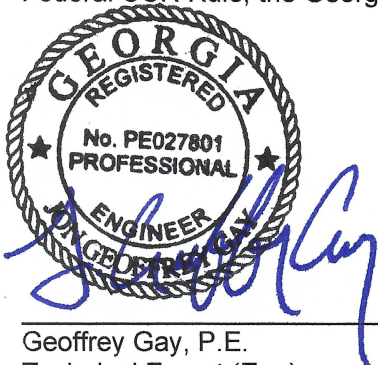
A Notification of Intent to Initiate Closure of AP-1 was completed on December 7, 2015, as required by 40 CFR § 257.100 and Ga. Comp. R. & Regs. r. 391-3-4-.10(7)(a). In accordance with 40 C.F.R. § 257.102(c) and 40 C.F.R. § 102(f)(2)(ii), an extension of two years was requested on December 4, 2020 to complete closure and permitting requirements. Closure construction activities have been completed by removing all visible CCR from within the boundaries of the CCR unit including an additional 6 inches of over excavation, and a certification of removal report dated November 13, 2019 demonstrating completion of removal activities was submitted to Georgia Environmental Protection Division (EPD). Based on a review of the report and an inspection of the site on October 15, 2020, Georgia EPD acknowledged the removal has been completed in a letter dated November 3, 2020.

Permit Number 038-017D(CCR) was issued for AP-1 on January 6, 2022. In accordance with Permit Condition 11, groundwater monitoring can be discontinued on January 6, 2027 if constituents do not statistically exceed Appendix IV groundwater protections standards.

In accordance with the provisions of 40 C.F.R. § 102(c), CCR removal and decontamination is complete when constituent concentrations throughout the CCR unit and any areas affected by releases from the CCR unit have been removed and groundwater monitoring concentrations do not exceed the groundwater protection standard established pursuant to § 257.95(h) for constituents listed in Appendix IV.

Based on the past five years of semi-annual groundwater monitoring data documented in semiannual groundwater monitoring reports, concentrations in the permitted groundwater monitoring network wells at AP-1 have not, and do not, statistically exceed the groundwater protection standards for 40 C.F.R. Part 257 Appendix IV constituents – historical data table and Box and Whiskers plots are attached<sup>1</sup>. Accordingly, CCR removal and decontamination of AP-1 is complete.

Closure activities at Plant Yates AP-1, were conducted under the direct supervision of a Professional Engineer and Qualified Groundwater Scientist registered to practice in Georgia. According to 391-3-4-.01, a Qualified Groundwater Scientist is “a professional engineer or geologist registered to practice in Georgia who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields that enable individuals to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action. In accordance with Permit Condition 12, I Geoffrey Gay hereby certify that the closure activities, including CCR removal and decontamination of Yates AP-1, have been completed in accordance with the Federal CCR Rule, the Georgia CCR Rules and the approved permit documents.



Geoffrey Gay, P.E.  
Technical Expert (Eng)  
Georgia Registration No. PE 27081

11.2.2022  
Date

<sup>1</sup> Annual and Semiannual Groundwater Monitoring and Corrective Action Reports submitted by ACC (2017-2019) and Arcadis (2020-2022) are available on the Georgia Power Company public website.

# **Attachments**

**Well Location Map**

**Historical Groundwater Data Summary**

**Box & Whiskers Plots (Appendix IV)**



84°54'30"W

84°54'20"W

84°54'10"W

33°28'0"N

33°27'50"N

84°54'30"W

84°54'20"W

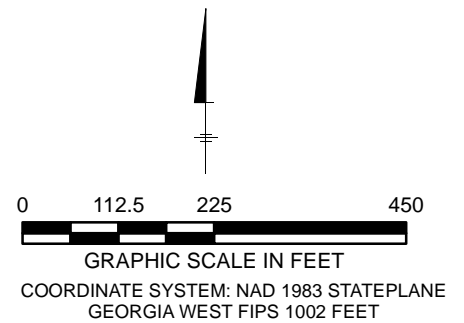
84°54'10"W



**LEGEND**

- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY

**NOTE:**  
 AERIAL IMAGE SOURCES: JANUARY 10, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 CLOSURE CERTIFICATION

**WELL LOCATION MAP**

ARCADIS

FIGURE  
**1**



Table 1  
Historical Groundwater Data Summary - AP-1  
Georgia Power Plant Yates



Analyte	Units	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47
		YGWA-47 (083016) 8/30/2016	YGWA-47 (111416) 11/14/2016	YGWA-47 (022417) 2/24/2017	YGWA-47 (050817) 5/8/2017	YGWA-47 (071117) 7/11/2017	YGWA-47 (101017) 10/10/2017	YGWA-47 (040218) 4/2/2018
Antimony	mg/L	<b>0.0028 J</b>	< 0.003	< 0.003	<b>0.0004 J</b>	<b>0.0006 J</b>	< 0.003	< 0.003
Arsenic	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<b>0.0007 J</b>	< 0.005
Barium	mg/L	<b>0.0413</b>	<b>0.0383</b>	<b>0.0351</b>	<b>0.0251</b>	<b>0.0233</b>	<b>0.0207</b>	<b>0.022</b>
Beryllium	mg/L	< 0.003	< 0.003	< 0.003	<b>0.00007 J</b>	< 0.003	< 0.003	< 0.003
Cadmium	mg/L	<b>0.0001 J</b>	<b>0.0001 J</b>	<b>0.00009 J</b>	<b>0.0001 J</b>	< 0.001	< 0.001	< 0.001
Chromium	mg/L	< 0.01	<b>0.0093 J</b>	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt	mg/L	<b>0.0073 J</b>	<b>0.0115</b>	<b>0.0106</b>	<b>0.0099 J</b>	<b>0.0096 J</b>	<b>0.0036 J</b>	< 0.01
Lead	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/L	<b>0.0061 J</b>	<b>0.0064 J</b>	<b>0.0049 J</b>	<b>0.0053 J</b>	<b>0.0051 J</b>	<b>0.0043 J</b>	<b>0.0045 J</b>
Mercury	mg/L	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	<b>1.09</b>	NA	0.504 U	0.455 U	0.471 U	0.649 U	0.512 U
Selenium	mg/L	<b>0.0017 J</b>	< 0.01	<b>0.0011 J</b>	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

**Notes:**

1. Analytical results are reported in milligrams per liter
2. Appendix IV = Parameters evaluated during Assessment Monitoring.

NA: Not analyzed for this constituent.

**Laboratory Qualifiers:**

< Analyte was not detected above the laboratory method detection limit (MDL).

J = Estimated concentration above the method detection limit and below the reporting limit.

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

Table 1  
 Historical Groundwater Data Summary - AP-1  
 Georgia Power Plant Yates



Analyte	Units	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47	YGWA-47
		YGWA-47 (091918) 9/19/2018	YGWA-47 (082019) 8/20/2019	YGWA-47 (100819) 10/8/2019	YGWA-47 (031720) 3/17/2020	YGWA-47 (082720) 8/27/2020	YGWA-47 (092220) 9/22/2020	YGWA-47 03012021 3/1/2021	YGWA-47 (081921) 8/19/2021
Antimony	mg/L	< 0.003	< 0.003	NA	NA	<b>0.00048 J</b>	< 0.0030	<b>0.00048 J</b>	< 0.0030
Arsenic	mg/L	<b>0.00072 J</b>	< 0.005	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Barium	mg/L	<b>0.023</b>	<b>0.024</b>	<b>0.025</b>	<b>0.035</b>	<b>0.027</b>	<b>0.026</b>	<b>0.029</b>	<b>0.029</b>
Beryllium	mg/L	<b>0.000057 J</b>	< 0.003	NA	NA	<b>0.000047 J</b>	< 0.0030	<b>0.000055 J</b>	< 0.00050
Cadmium	mg/L	< 0.001	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	NA	< 0.00050
Chromium	mg/L	< 0.01	< 0.01	NA	NA	< 0.010	< 0.010	< 0.0050	< 0.0050
Cobalt	mg/L	<b>0.0036 J</b>	<b>0.00092 J</b>	<b>0.0014 J</b>	<b>0.0017 J</b>	<b>0.0011 J</b>	<b>0.00097 J</b>	<b>0.0010 J</b>	<b>0.00099 J</b>
Lead	mg/L	< 0.005	< 0.005	NA	NA	< 0.0050	< 0.0050	< 0.0010	< 0.0010
Lithium	mg/L	<b>0.0043 J</b>	<b>0.0036 J</b>	<b>0.0036 J</b>	<b>0.0046 J</b>	<b>0.0039 J</b>	<b>0.0036 J</b>	<b>0.0037 J</b>	<b>0.0038 J</b>
Mercury	mg/L	<b>0.000053 J</b>	< 0.0005	NA	NA	< 0.00050	NA	< 0.00020	< 0.00020
Molybdenum	mg/L	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Combined Radium - 226/228	pCi/l	0.789 U	<b>2.44</b>	<b>1.72</b>	<b>1.22</b>	1.47 U	1.32 U	<b>1.20</b>	1.83 U
Selenium	mg/L	< 0.01	< 0.01	NA	NA	< 0.010	NA	NA	< 0.0050
Thallium	mg/L	< 0.001	<b>0.000058 J</b>	<b>0.000084 J</b>	< 0.0010	< 0.0010	NA	NA	< 0.0010

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**Table 1**  
**Historical Groundwater Data Summary - AP-1**  
**Georgia Power Plant Yates**



Analyte	Units	YGWA-47	YGWA-47	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44
		YGWA-47_20220208 2/8/2022	YGWA-47_20220831 8/31/2022	YGWC-44 (083116) 8/31/2016	YGWC-44 (111516) 11/15/2016	YGWC-44 (022817) 2/28/2017	YGWC-44 (050817) 5/8/2017	YGWC-44 (071317) 7/13/2017	YGWC-44 (101017) 10/10/2017
Antimony	mg/L	< 0.0030	< 0.0030	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	<b>0.0027 J</b>	< 0.0050	< 0.005	< 0.005	<b>0.0005 J</b>	<b>0.0006 J</b>	< 0.005	<b>0.0007 J</b>
Barium	mg/L	<b>0.030</b>	<b>0.029</b>	<b>0.126</b>	<b>0.115</b>	<b>0.121</b>	<b>0.125</b>	<b>0.106</b>	<b>0.112</b>
Beryllium	mg/L	<b>0.000056 J</b>	< 0.00050	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium	mg/L	< 0.00050	< 0.00050	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	mg/L	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt	mg/L	<b>0.0013 J</b>	<b>0.00096 J</b>	<b>0.0119</b>	<b>0.0033 J</b>	<b>0.0017 J</b>	<b>0.0018 J</b>	<b>0.0022 J</b>	<b>0.0017 J</b>
Lead	mg/L	< 0.0010	< 0.0010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/L	<b>0.0039 J</b>	<b>0.0037 J</b>	<b>0.0115 J</b>	<b>0.0148 J</b>	<b>0.0124 J</b>	<b>0.0132 J</b>	<b>0.0124 J</b>	<b>0.0123 J</b>
Mercury	mg/L	< 0.00020	< 0.00020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum	mg/L	< 0.010	< 0.010	< 0.01	< 0.01	<b>0.0005 J</b>	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	0.400 U	0.856 U	<b>2.15</b>	0.676 U	0.241 U	0.508 U	0.77 U	<b>1.43</b>
Selenium	mg/L	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/L	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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 Historical Groundwater Data Summary - AP-1  
 Georgia Power Plant Yates



Analyte	Units	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44	YGWC-44
		YGWC-44 (040418) 4/4/2018	YGWC-44 (091918) 9/19/2018	YGWC-44 (082019) 8/20/2019	YGWC-44 (100819) 10/8/2019	YGWC-44 (031720) 3/17/2020	YGWC-44 (082720) 8/27/2020	YGWC-44 (092220) 9/22/2020	YGWC-44 03012021 3/1/2021
Antimony	mg/L	< 0.003	< 0.003	< 0.003	NA	NA	< 0.0030	< 0.0030	< 0.0030
Arsenic	mg/L	< 0.005	<b>0.00086 J</b>	<b>0.00097 J</b>	< 0.005	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Barium	mg/L	<b>0.12</b>	<b>0.11</b>	<b>0.1</b>	<b>0.098</b>	<b>0.099</b>	<b>0.086</b>	<b>0.096</b>	<b>0.087</b>
Beryllium	mg/L	< 0.003	< 0.003	< 0.003	NA	NA	< 0.0030	< 0.0030	< 0.00050
Cadmium	mg/L	< 0.001	< 0.001	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	NA
Chromium	mg/L	< 0.01	< 0.01	< 0.01	NA	NA	< 0.010	< 0.010	< 0.0050
Cobalt	mg/L	< 0.01	<b>0.0025 J</b>	<b>0.002 J</b>	<b>0.0017 J</b>	<b>0.0040 J</b>	<b>0.0030 J</b>	<b>0.0065</b>	<b>0.0033 J</b>
Lead	mg/L	< 0.005	< 0.005	< 0.005	NA	NA	< 0.0050	< 0.0050	< 0.0010
Lithium	mg/L	<b>0.014 J</b>	<b>0.013 J</b>	<b>0.013 J</b>	<b>0.012 J</b>	<b>0.013 J</b>	<b>0.013 J</b>	<b>0.013 J</b>	<b>0.013 J</b>
Mercury	mg/L	< 0.0005	<b>0.00006 J</b>	< 0.0005	NA	NA	< 0.00050	NA	NA
Molybdenum	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.010	< 0.010	< 0.010	< 0.010
Combined Radium - 226/228	pCi/l	0.325 U	0.386 U	<b>1.71</b>	1.13 U	<b>1.37</b>	1.39 U	2.59 U	1.53 U
Selenium	mg/L	< 0.01	< 0.01	< 0.01	NA	NA	< 0.010	NA	NA
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	<b>0.000080 J</b>	< 0.0010	NA	NA

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Table 1  
 Historical Groundwater Data Summary - AP-1  
 Georgia Power Plant Yates



Analyte	Units	YGWC-44	YGWC-44	YGWC-44	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-45
		YGWC-44 (081921) 8/19/2021	YGWC-44_20220209 2/9/2022	YGWC-44_20220831 8/31/2022	YGWC-45 (083116) 8/31/2016	YGWC-45 (111416) 11/14/2016	YGWC-45 (022717) 2/27/2017	YGWC-45 (050917) 5/9/2017	YGWC-45 (071317) 7/13/2017
Antimony	mg/L	< 0.0030	< 0.0030	< 0.0030	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/L	<b>0.089</b>	<b>0.083</b>	<b>0.073</b>	<b>0.0754</b>	<b>0.0701</b>	<b>0.0834</b>	<b>0.0779</b>	<b>0.0719</b>
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.01	<b>0.0061 J</b>	< 0.01	< 0.01	<b>0.0006 J</b>
Cobalt	mg/L	<b>0.0014 J</b>	<b>0.0027 J</b>	<b>0.00099 J</b>	<b>0.0009 J</b>	<b>0.0009 J</b>	<b>0.001 J</b>	<b>0.0008 J</b>	<b>0.0009 J</b>
Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.005	< 0.005	< 0.005	<b>0.0001 J</b>	< 0.005
Lithium	mg/L	<b>0.013 J</b>	<b>0.014 J</b>	<b>0.013 J</b>	<b>0.0147 J</b>	<b>0.0175 J</b>	<b>0.0135 J</b>	<b>0.0136 J</b>	<b>0.0129 J</b>
Mercury	mg/L	< 0.00020	< 0.00020	< 0.00020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum	mg/L	< 0.010	< 0.010	< 0.010	<b>0.0024 J</b>	< 0.01	<b>0.0018 J</b>	<b>0.0015 J</b>	<b>0.0015 J</b>
Combined Radium - 226/228	pCi/l	1.05 U	0.762 U	1.13 U	<b>1.65</b>	0.981 U	0.528 U	<b>1.4</b>	0.611 U
Selenium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

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 Georgia Power Plant Yates



Analyte	Units	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-45
		YGWC-45 (101017) 10/10/2017	YGWC-45 (040318) 4/3/2018	YGWC-45 (091918) 9/19/2018	YGWC-45 (082019) 8/20/2019	YGWC-45 (100919) 10/9/2019	YGWC-45 (031720) 3/17/2020	YGWC-45 (082820) 8/28/2020	YGWC-45 (092320) 9/23/2020
Antimony	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	<b>0.0017 J</b>	< 0.0030
Arsenic	mg/L	<b>0.0006 J</b>	<b>0.00061 J</b>	<b>0.00072 J</b>	<b>0.00078 J</b>	< 0.005	< 0.0050	< 0.0050	< 0.0050
Barium	mg/L	<b>0.0708</b>	<b>0.068</b>	<b>0.064</b>	<b>0.057</b>	<b>0.058</b>	<b>0.061</b>	<b>0.053</b>	<b>0.052</b>
Beryllium	mg/L	< 0.003	< 0.003	< 0.003	< 0.003	NA	NA	< 0.0030	< 0.0030
Cadmium	mg/L	< 0.001	< 0.001	< 0.001	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
Chromium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	< 0.010	<b>0.00058 J</b>
Cobalt	mg/L	<b>0.0008 J</b>	< 0.01	<b>0.00081 J</b>	<b>0.00071 J</b>	<b>0.0007 J</b>	<b>0.00081 J</b>	<b>0.00055 J</b>	<b>0.00053 J</b>
Lead	mg/L	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	< 0.0050	< 0.0050
Lithium	mg/L	<b>0.015 J</b>	<b>0.014 J</b>	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.014 J</b>	<b>0.012 J</b>	<b>0.012 J</b>
Mercury	mg/L	< 0.0005	< 0.0005	<b>0.000071 J</b>	< 0.0005	NA	NA	< 0.00050	NA
Molybdenum	mg/L	<b>0.0015 J</b>	< 0.01	< 0.01	<b>0.0011 J</b>	<b>0.0012 J</b>	<b>0.0016 J</b>	<b>0.0013 J</b>	<b>0.0011 J</b>
Combined Radium - 226/228	pCi/l	<b>1.47</b>	<b>1.53</b>	0.839 U	<b>2.23</b>	<b>1.61</b>	<b>1.44</b>	1.34 U	2.00 U
Selenium	mg/L	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	< 0.010	NA
Thallium	mg/L	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0010	< 0.0010	NA

**Notes:**

1. Analytical results are reported in milligrams per liter
2. Appendix IV = Parameters evaluated during Assessment Monitoring.

NA: Not analyzed for this constituent.

**Laboratory Qualifiers:**

< Analyte was not detected above the laboratory method detection limit (MDL).

J = Estimated concentration above the method detection limit and below the reporting limit.

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

Table 1  
 Historical Groundwater Data Summary - AP-1  
 Georgia Power Plant Yates



Analyte	Units	YGWC-45	YGWC-45	YGWC-45	YGWC-45	YGWC-46A	YGWC-46A	YGWC-46A	YGWC-46A	
		YGWC-45 03012021 3/1/2021	YGWC-45 (081921) 8/19/2021	YGWC-45_20220209 2/9/2022	YGWC-45_20220831 8/31/2022	YGWC-46A (082820) 8/28/2020	YGWC-46A (092320) 9/23/2020	YGWC-46A (100720) 10/7/2020	YGWC-46A-20201112 11/12/2020	
Appendix IV	Antimony	mg/L	< 0.0030	< 0.0030	< 0.0030	< 0.0030	<b>0.00029 J</b>	< 0.0030	< 0.0030	< 0.0030
	Arsenic	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	<b>0.0015 J</b>	<b>0.00091 J</b>	<b>0.0010 J</b>	<b>0.0014 J</b>
	Barium	mg/L	<b>0.055</b>	<b>0.055</b>	<b>0.053</b>	<b>0.052</b>	<b>0.050</b>	<b>0.045</b>	<b>0.042</b>	<b>0.042</b>
	Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0030	< 0.0030	< 0.0030	< 0.0030
	Cadmium	mg/L	NA	< 0.00050	< 0.00050	< 0.00050	< 0.0025	NA	NA	< 0.0025
	Chromium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.010	< 0.010	< 0.010
	Cobalt	mg/L	<b>0.00062 J</b>	<b>0.00048 J</b>	<b>0.00051 J</b>	<b>0.00069 J</b>	<b>0.0038 J</b>	<b>0.0015 J</b>	<b>0.0014 J</b>	<b>0.0010 J</b>
	Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0050	< 0.0050	< 0.0050	<b>0.000044 J</b>
	Lithium	mg/L	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.012 J</b>	<b>0.013 J</b>	<b>0.011 J</b>	<b>0.014 J</b>
	Mercury	mg/L	NA	< 0.00020	< 0.00020	< 0.00020	< 0.00050	NA	NA	< 0.00050
	Molybdenum	mg/L	<b>0.0012 J</b>	<b>0.0012 J</b>	<b>0.0012 J</b>	<b>0.0011 J</b>	<b>0.0030 J</b>	<b>0.0025 J</b>	<b>0.0024 J</b>	<b>0.0019 J</b>
	Combined Radium - 226/228	pCi/l	<b>1.28</b>	<b>1.38</b>	<b>1.11</b>	1.11 U	<b>2.34</b>	1.87 U	<b>1.81</b>	1.77 U
	Selenium	mg/L	NA	< 0.0050	< 0.0050	< 0.0050	< 0.010	NA	NA	< 0.010
	Thallium	mg/L	NA	< 0.0010	< 0.0010	< 0.0010	< 0.0010	NA	NA	< 0.0010

**Notes:**

1. Analytical results are reported in milligrams per liter
2. Appendix IV = Parameters evaluated during Assessment Monitoring.

NA: Not analyzed for this constituent.

**Laboratory Qualifiers:**

< Analyte was not detected above the laboratory method detection limit (MDL).

J = Estimated concentration above the method detection limit and below the reporting limit.

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.



**Table 1**  
**Historical Groundwater Data Summary - AP-1**  
**Georgia Power Plant Yates**



Analyte	Units	YGWC-46A	YGWC-46A	YGWC-46A	YGWC-46A	YGWC-52	YGWC-52	YGWC-52	YGWC-52
		YGWC-46A 03022021 3/2/2021	YGWC-46A (082721) 8/27/2021	YGWC-46A_20220209 2/9/2022	YGWC-46A_20220831 8/31/2022	YGWC-52 (082720) 8/27/2020	YGWC-52 (092220) 9/22/2020	YGWC-52 (100720) 10/7/2020	YGWC-52-20201112 11/12/2020
Antimony	mg/L	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Arsenic	mg/L	<b>0.0016 J</b>	<b>0.0022 J</b>	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Barium	mg/L	<b>0.044</b>	<b>0.043</b>	<b>0.042</b>	<b>0.036</b>	<b>0.021</b>	<b>0.021</b>	<b>0.019</b>	<b>0.019</b>
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Cadmium	mg/L	NA	< 0.00050	< 0.00050	< 0.00050	< 0.0025	NA	NA	< 0.0025
Chromium	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.010	<b>0.00073 J</b>	<b>0.00086 J</b>	< 0.010
Cobalt	mg/L	<b>0.00096 J</b>	<b>0.00056 J</b>	<b>0.00060 J</b>	<b>0.0017 J</b>	<b>0.0022 J</b>	<b>0.0019 J</b>	<b>0.0019 J</b>	<b>0.0015 J</b>
Lead	mg/L	< 0.0010	< 0.0010	< 0.0010	< 0.0010	<b>0.000092 J</b>	<b>0.000060 J</b>	< 0.0050	<b>0.000064 J</b>
Lithium	mg/L	<b>0.013 J</b>	<b>0.014 J</b>	<b>0.014 J</b>	<b>0.015 J</b>	<b>0.0048 J</b>	<b>0.0046 J</b>	<b>0.0041 J</b>	<b>0.0044 J</b>
Mercury	mg/L	NA	< 0.00020	< 0.00020	< 0.00020	< 0.00050	NA	NA	< 0.00050
Molybdenum	mg/L	<b>0.0023 J</b>	<b>0.0022 J</b>	<b>0.0021 J</b>	<b>0.0017 J</b>	< 0.010	< 0.010	< 0.010	< 0.010
Combined Radium - 226/228	pCi/l	<b>1.64</b>	<b>1.83</b>	<b>1.74</b>	<b>1.51</b>	1.53 U	1.82 U	1.50 U	1.96 U
Selenium	mg/L	NA	< 0.0050	< 0.0050	< 0.0050	< 0.010	NA	NA	< 0.010
Thallium	mg/L	NA	< 0.0010	< 0.0010	< 0.0010	< 0.0010	NA	NA	< 0.0010

**Notes:**

1. Analytical results are reported in milligrams per liter
2. Appendix IV = Parameters evaluated during Assessment Monitoring.

NA: Not analyzed for this constituent.

**Laboratory Qualifiers:**

< Analyte was not detected above the laboratory method detection limit (MDL).

J = Estimated concentration above the method detection limit and below the reporting limit.

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

**Table 1**  
**Historical Groundwater Data Summary - AP-1**  
**Georgia Power Plant Yates**

Analyte	Units	YGWC-52	YGWC-52	YGWC-52	YGWC-52
		YGWC-52_03012021 3/1/2021	YGWC-52_082021 8/20/2021	YGWC-52_20220209 2/9/2022	YGWC-52_20220831 8/31/2022
Antimony	mg/L	< 0.0030	< 0.0030	< 0.0030	< 0.0030
Arsenic	mg/L	< 0.0050	< 0.0050	< 0.0050	< 0.0050
Barium	mg/L	<b>0.019</b>	<b>0.019</b>	<b>0.018</b>	<b>0.017</b>
Beryllium	mg/L	< 0.00050	< 0.00050	< 0.00050	< 0.00050
Cadmium	mg/L	NA	< 0.00050	< 0.00050	< 0.00050
Chromium	mg/L	<b>0.00094 J</b>	< 0.0050	<b>0.0012 J</b>	< 0.0050
Cobalt	mg/L	<b>0.0013 J</b>	<b>0.0013 J</b>	<b>0.0015 J</b>	<b>0.00096 J</b>
Lead	mg/L	<b>0.000087 J</b>	< 0.0010	< 0.0010	< 0.0010
Lithium	mg/L	<b>0.0043 J</b>	<b>0.0043 J</b>	<b>0.0042 J</b>	<b>0.0037 J</b>
Mercury	mg/L	NA	< 0.00020	< 0.00020	< 0.00020
Molybdenum	mg/L	< 0.010	< 0.010	< 0.010	< 0.010
Combined Radium - 226/228	pCi/l	1.36 U	0.992 U	<b>0.926</b>	1.12 U
Selenium	mg/L	NA	< 0.0050	< 0.0050	< 0.0050
Thallium	mg/L	NA	< 0.0010	< 0.0010	< 0.0010

**Notes:**

1. Analytical results are reported in milligrams per liter
2. Appendix IV = Parameters evaluated during Assessment Monitoring.

NA: Not analyzed for this constituent.

**Laboratory Qualifiers:**

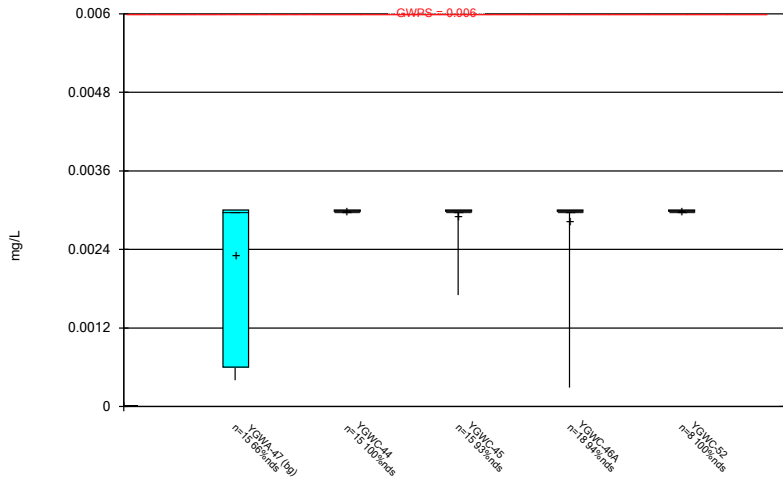
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J = Estimated concentration above the method detection limit and below the reporting limit.

U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

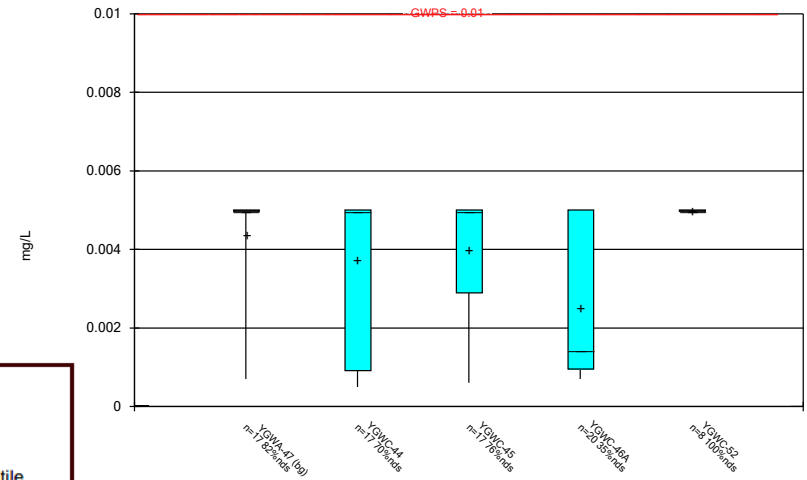


Antimony

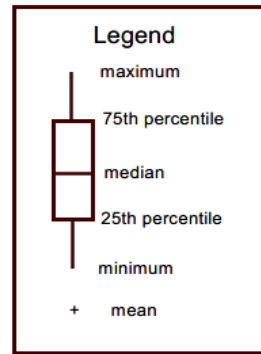


Constituent: Antimony Analysis Run 10/20/2022 2:30 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

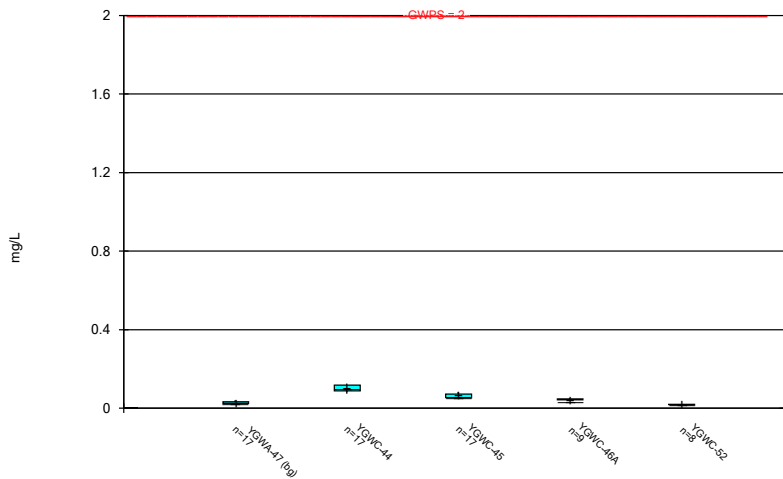
Arsenic



Constituent: Arsenic Analysis Run 10/20/2022 2:31 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

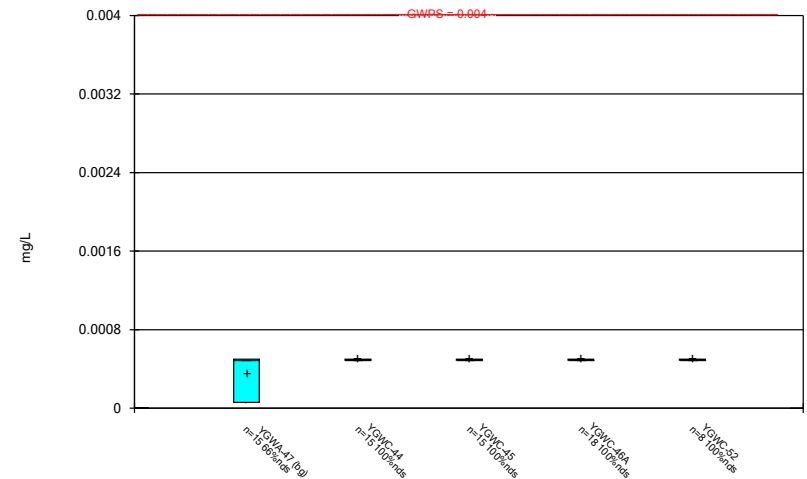


Barium



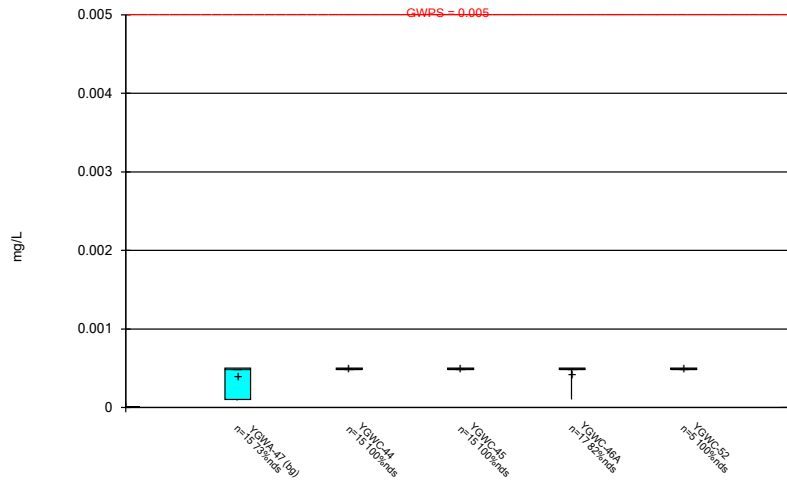
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Beryllium



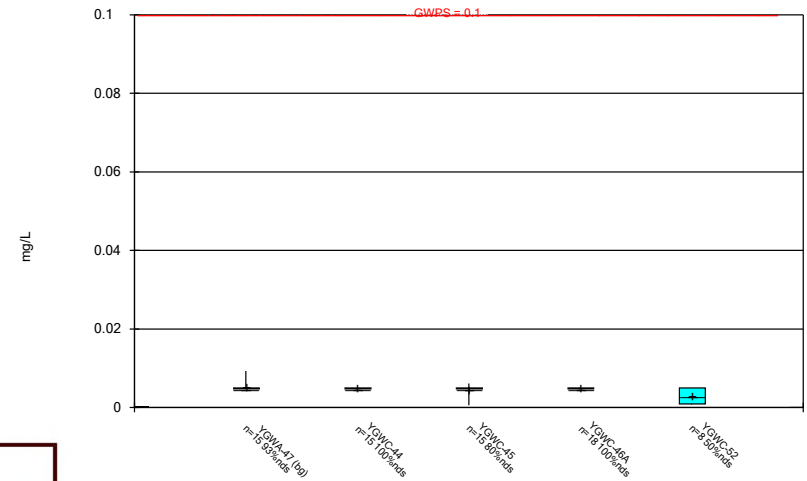
Constituent: Beryllium Analysis Run 10/20/2022 2:32 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot

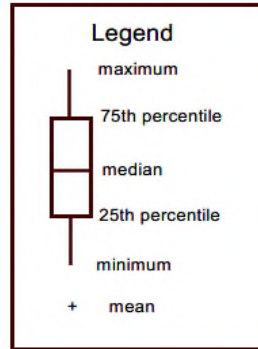


Constituent: Cadmium Analysis Run 12/7/2022 11:01 AM View: Box Plots  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

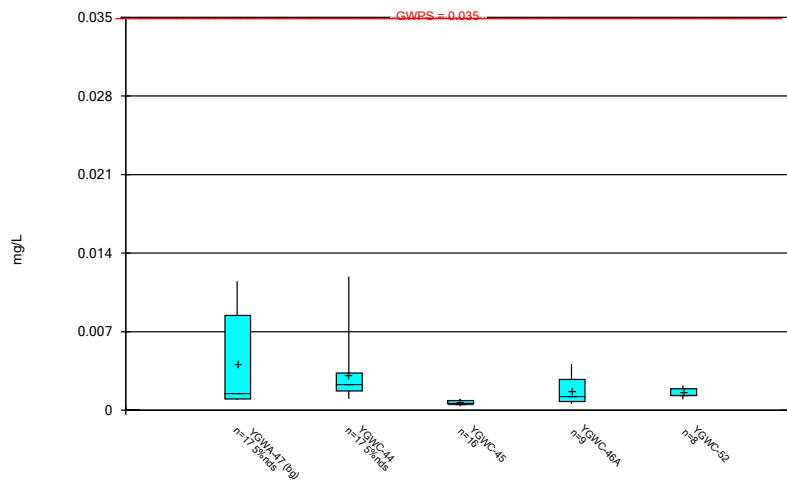
Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/7/2022 11:02 AM View: Box Plots  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

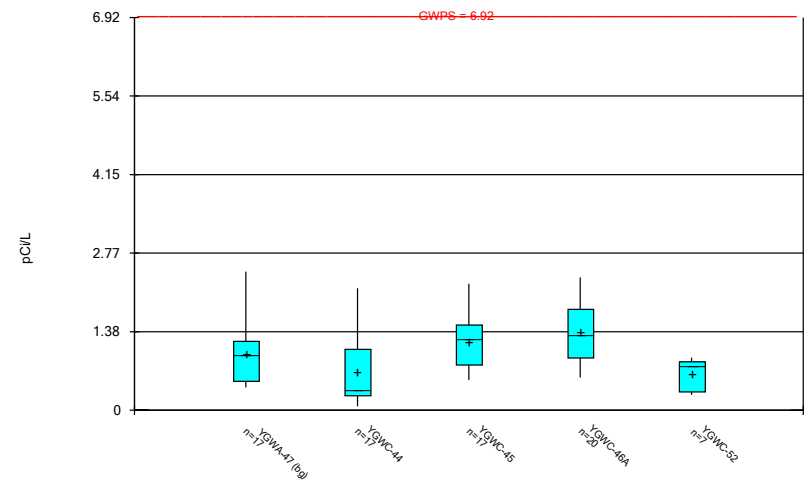


Box & Whiskers Plot



Constituent: Cobalt Analysis Run 12/7/2022 11:02 AM View: Box Plots  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



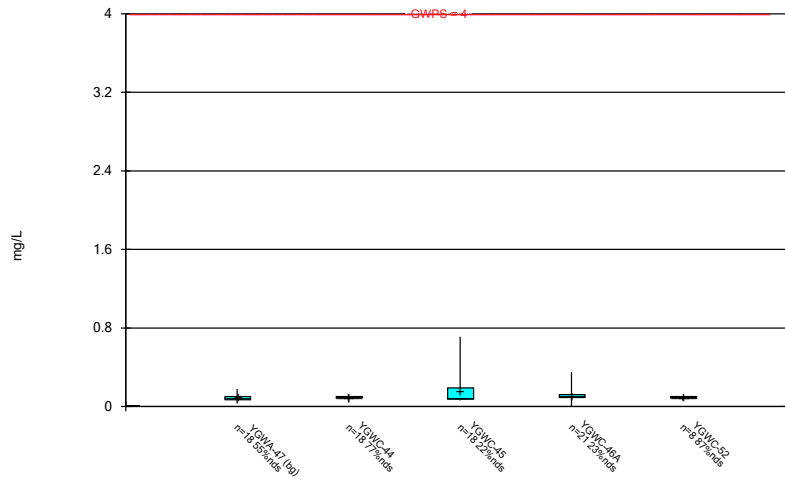
Constituent: Combined Radium 226 + 228 Analysis Run 12/7/2022 11:03 AM View: Box Plots  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

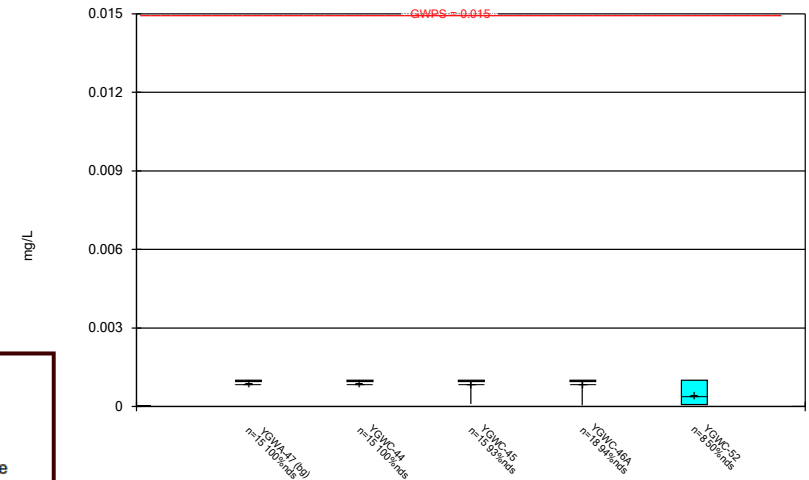
Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

Fluoride

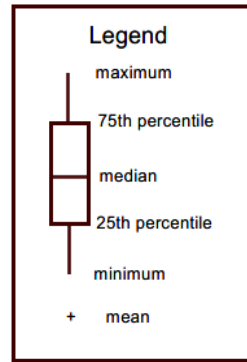


Constituent: Fluoride, total Analysis Run 10/20/2022 2:36 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Lead



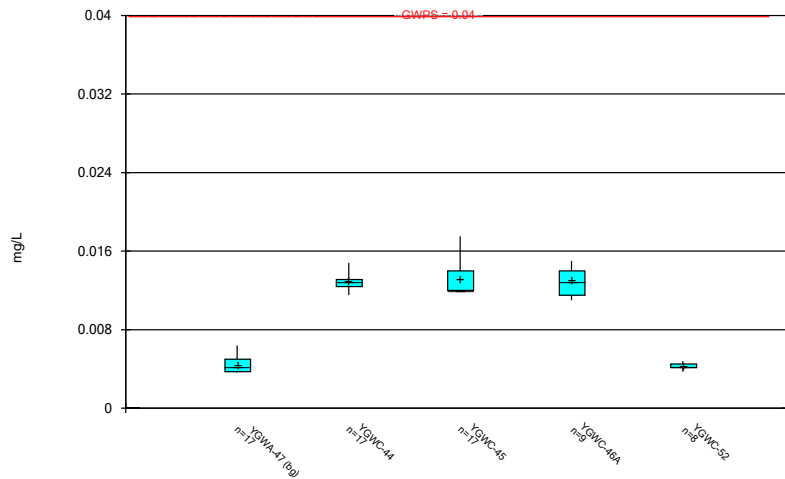
Constituent: Lead Analysis Run 10/20/2022 2:37 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

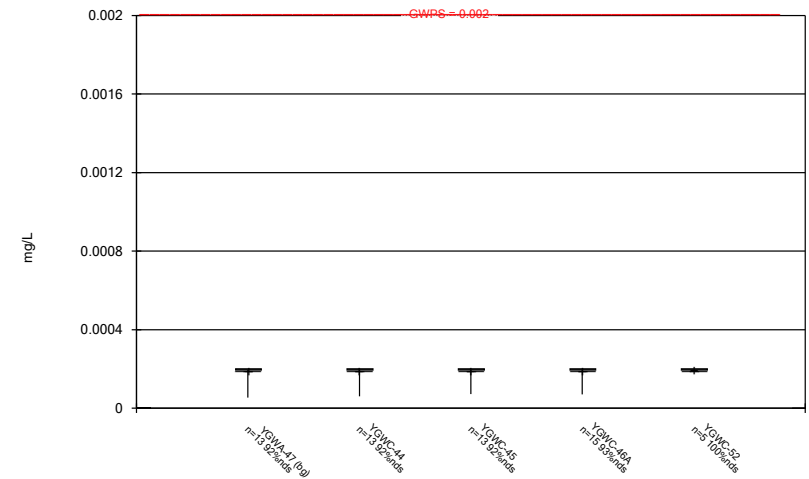
Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

Lithium



Constituent: Lithium Analysis Run 10/20/2022 2:37 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Mercury



Constituent: Mercury Analysis Run 10/20/2022 2:37 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

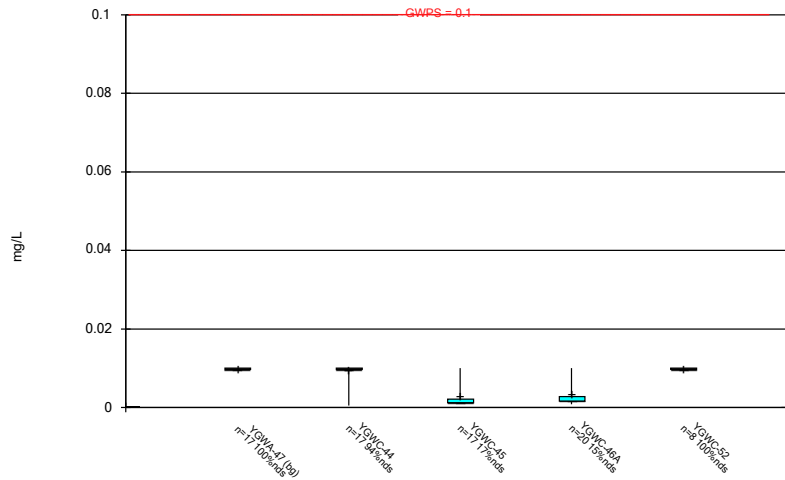
# Box & Whiskers Plots (Appendix IV)

Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG



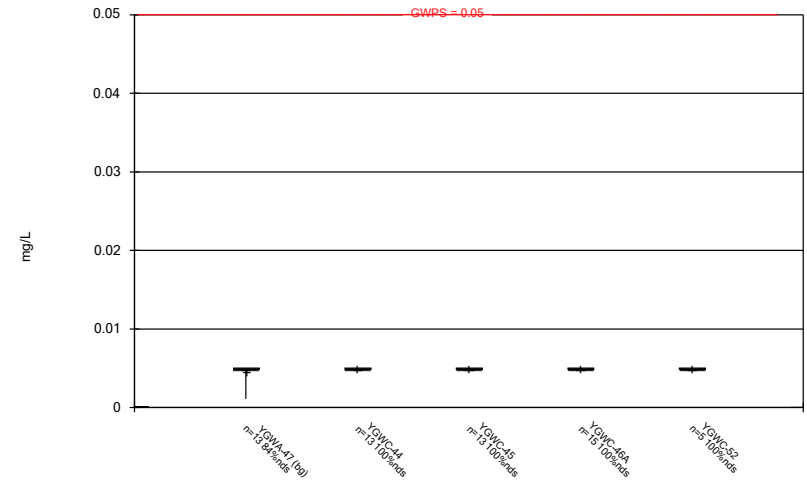
Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

## Molybdenum



Constituent: Molybdenum Analysis Run 10/20/2022 2:38 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

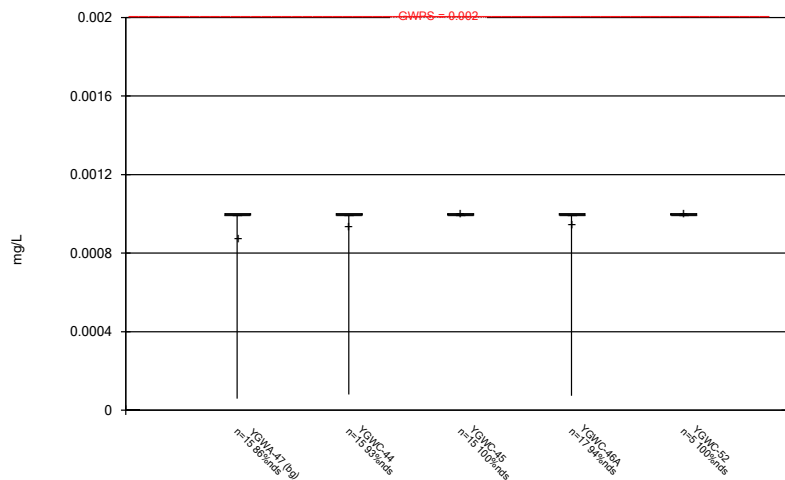
## Selenium



Constituent: Selenium Analysis Run 10/20/2022 2:38 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sanitas™ v.9.6.35 Groundwater Stats Consulting, UG

## Thallium



Constituent: Thallium Analysis Run 10/20/2022 2:39 PM View: Box Plots  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

