Westinghouse Electric Company
Nuclear Fuel
Columbia Fuel Fabrication Facility
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Hopkins, South Carolina 29061
USA

SCDHEC, BLWM
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Your ref:
Our ref: LTR-RAC-22-01

January 6, 2022

Subject: **December** 2021 CA Progress Report

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

(a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
(b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
(c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
(d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on **December 8, 2021.** The following progress report is for work occurring from **December 1- 31, 2021**:

(a) Actions during the previous month:
Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with **Item 4** of the CA, the following actions were completed this month.

- Completed the following to support the **Phase II RI** Work Plan:
  - Developed a schedule with AECOM personnel to complete the RI Report for submission to DHEC no later than August 2022. The schedule is included in this report as **Attachment A**.

- Completed the following to support **Calcium Fluoride (CaF_2) Pad Restoration** Activities:
  - Rail shipments of CaF_2 continued in December. Seven railcars were shipped per the 3rd NRC Alternate Disposal Request (ADR).
  - CaF_2 bagging operations are 100% complete.

- Completed the following to support **Cultural Resources Survey** Activities:
  - Reviewed the first report draft for the cultural resources survey conducted at the site by Brockington and Associates.

(b) Results of sampling and tests:

- **Semi-annual Groundwater Sampling (118 wells)**
  Tabulated results of the semi-annual groundwater sampling campaign conducted in October 2021 are included as **Attachment B**.

(c) Brief description of all actions which are scheduled for the next month:
In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:

- Continue CaF_2 railcar shipments.
- Continue working on item #6 of the Consent Agreement, the Remedial Investigation Report.
- Generate plume maps for October 2021 groundwater sampling campaign and submit to Department with January 2022 monthly report.
- Submit the cultural resources survey report conducted at the site by Brockington and Associates to the SHPO for comments.

(d) Percentage of work completed and any delays encountered or anticipated:

- 25% of the RI Report scope is completed.
- 100% of Phase II **field** work scope completed.
- Currently there are no anticipated delays.

Respectfully,

Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, CFFF
803.497.7062 (m)

cc: N. Parr, Environmental Manager
J. Ferguson, EH&S Manager
J. Grant, AECOM Project Manager
ENOVIA Records

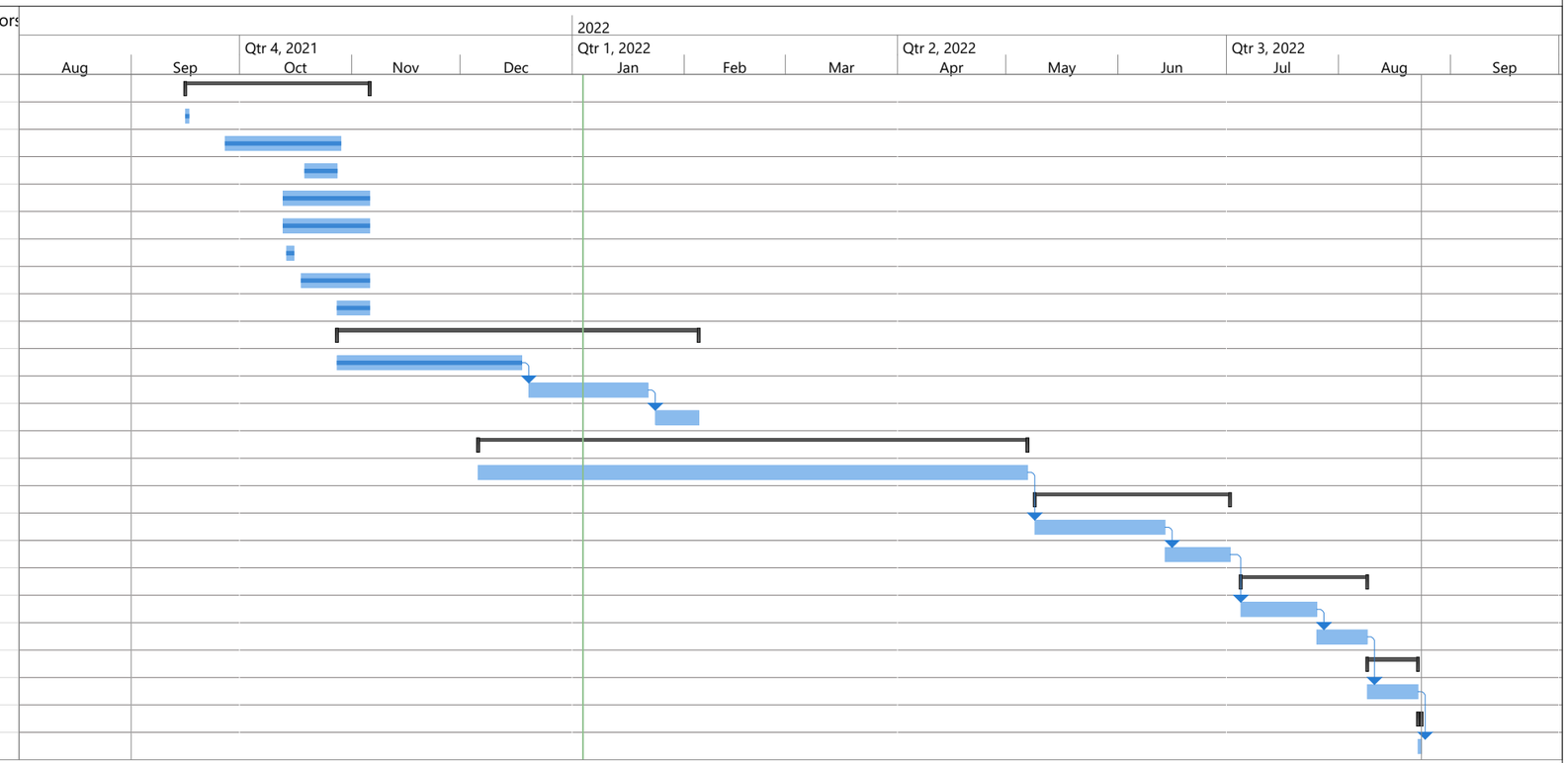
Attachment A: RI Report Schedule
Attachment A: Tabulated Groundwater Wells Analytical Results, October 2021 (118 wells)

Attachment A

RI Report Schedule

RI Report Schedule
Westinghouse Columbia Fuel Fabrication Facility
AECOM Project No. 60595649

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		**Preliminary Report Preparation Activities**	**37 days**	**Thu 9/16/21**	**Fri 11/5/21**	
2		SCDHEC Meeting	1 day	Thu 9/16/21	Thu 9/16/21	
3		Report Outline	24 days	Mon 9/27/21	Thu 10/28/21	
4		CSM Needs	7 days	Tue 10/19/21	Wed 10/27/21	
5		Database Needs	18 days	Wed 10/13/21	Fri 11/5/21	
6		Risk Assessment Needs	18 days	Wed 10/13/21	Fri 11/5/21	
7		Boring Log Needs	2 days	Thu 10/14/21	Fri 10/15/21	
8		Aquifer Characterization Needs	15 days	Mon 10/18/21	Fri 11/5/21	
9		Figure Needs	7 days	Thu 10/28/21	Fri 11/5/21	
10		**Section 1-3 Draft Submittal**	**72 days**	**Thu 10/28/21**	**Fri 2/4/22**	
11		Report Approval / Sections Preparation	37 days	Thu 10/28/21	Fri 12/17/21	
12		Westinghouse Review	25 days	Mon 12/20/21	Fri 1/21/22	11
13		AECOM Revisions	10 days	Mon 1/24/22	Fri 2/4/22	12
14		**Draft Report Submittal**	**110 days**	**Mon 12/6/21**	**Fri 5/6/22**	
15		Draft Report Preparation / Submittal	110 days	Mon 12/6/21	Fri 5/6/22	
16		**Westinghouse Review No. 1**	**40 days**	**Mon 5/9/22**	**Fri 7/1/22**	
17		Westinghouse Review	26 days	Mon 5/9/22	Mon 6/13/22	15
18		AECOM Revisions	14 days	Tue 6/14/22	Fri 7/1/22	17
19		**Westinghouse Review No. 2**	**25 days**	**Tue 7/5/22**	**Mon 8/8/22**	
20		Westinghouse Review	15 days	Tue 7/5/22	Mon 7/25/22	18
21		AECOM Revisions	10 days	Tue 7/26/22	Mon 8/8/22	20
22		**RI Report Production**	**10 days**	**Tue 8/9/22**	**Mon 8/22/22**	
23		Production	10 days	Tue 8/9/22	Mon 8/22/22	21
24		**Report Submittal**	**1 day**	**Tue 8/23/22**	**Tue 8/23/22**	
25		Submittal	1 day	Tue 8/23/22	Tue 8/23/22	23



Project: Phase II Schedule
Date: Tue 1/4/22

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

Attachment B

Tabulated Groundwater Wells Analytical Results
October 2021 (118 wells)

Attachment B
Tabulated Groundwater Wells Analytical Results, October 2021
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-RW1	W-RW2	W-3A	W-4R	W-6	W-7A	W-10	W-11	W-13R	W-14	W-15	W-16	W-17	W-18R	W-19B
				Date	10/14/2021 9:44	10/21/2021 10:03	10/25/2021 9:57	10/25/2021 9:03	10/8/2021 10:28	10/5/2021 13:51	10/5/2021 13:19	10/5/2021 11:03	10/5/2021 10:51	10/18/2021 13:30	10/19/2021 10:54	10/19/2021 12:18	10/12/2021 12:56	10/8/2021 11:50	10/20/2021 13:53
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units															
Radiological	Alpha particles	15	*	pCi/L	2.13 #	0.577 #	2.10 #	0.170 #	**13.5**	**8.14**	0.131 #	0.816 #	0 ##	3.06 #	1.06 #	2.42 #	1.36 #	**20.9**	**2.63**
Radiological	Beta particles	50	*	pCi/L	2.32 #	**5.46**	**5.86**	0.278 #	**1290**	**105**	**60.0**	**627**	**70.7**	**9.79**	**114**	**16.9**	**514**	**49.3**	0 ##
Radiological	Tritium			pCi/L		39.1 #				141 #	27.5 #		176 #		104 #	39.0 #		148 #	
Radiological	Technetium-99	900		pCi/L	0.0163 #	**6.40**	0 ##	0.442 #	**2500**	**193**	**98.2**	**1230**	**126**	0.299 #	**221**	**7.37**	**719**	**143**	1.70 #
Radiological	Uranium-233/234			pCi/L	0.246 #	0.134 #	0 ##	0 ##	**0.255**	**0.277**	**0.291**	0.0982 #	0.195 #	0 ##	0 ##	0 ##	0.222 #	**1.37**	0.0812 #
Radiological	Uranium-235/236			pCi/L	0.135 #	0.0295 #	0 ##	0.0179 #	0.152 #	0.0105 #	0.0763 #	0.0430 #	**0.151**	0 ##	0.0538 #	0.0276 #	0.105 #	0 ##	0.0699 #
Radiological	Uranium-238			pCi/L	0.0601 #	**0.582**	0.0616 #	0 ##	**0.167**	0.101 #	0.0777 #	0.0347 #	**0.122**	0.00371 #	0 ##	0.00235 #	0.117 #	**1.15**	0.0976 #
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	**16.1**	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.0240 J**	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	**0.0739 J**	**0.0700 J**	< 0.200	**0.321**	**0.558**	**0.138 J**	**0.0947 J**	**0.158 J**	**0.221**	< 0.200	**0.0770 J**	**0.122 J**	**2.70**	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	**0.0739 J**	**0.0700 J**	< 0.200	**0.321**	**0.558**	**0.138 J**	**0.0947 J**	**0.158 J**	**0.221**	< 0.200	**0.0770 J**	**0.122 J**	**2.72**	< 0.200
Chemical	Fluoride	4		mg/L	**0.037 J**	**0.125**	**0.015 J**	**0.154**	**0.233**	**7.18**	**4.09**	**0.037 J**	**10.8**	**0.067 J**	**2.12**	**7.35**	**1.9**	**6.76**	**0.015 J**
Chemical	Nitrate as N	10		mg/L	**2.0**	**16**	< 0.020	< 0.020	**210**	**320**	**22**	**23**	**18**	**0.39**	**39**	**2.0**	**17**	**550**	**3.7**
Chemical	Ammonia as N			mg/L	**0.0197 J**	**0.0207 J**	**0.0193 J**	**0.0196 J**	**105**	**66.5**	**7.51**	**2.26**	**38.9**	**4.17**	**0.487**	**15**	**7.84**	**77.5**	**0.0131 J**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	< 1.0	**2.1**	< 1.0	< 1.0	**1.1**	< 1.0	**1.2**	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	**2.3**	**150**	< 1.0	< 1.0	**18**	**1.3**	< 1.0	**15**	**27**	**2.8**	**10**	**3.1**	**6.1**	**1.9**	**89**
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	**9.5**	< 1.0	< 1.0	**2.8**	< 1.0	< 1.0	**2.4**	**2.5**	**1.1**	**1.9**	**1.1**	**1.3**	< 1.0	**1.6**
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-20	W-22	W-23R	W-24	W-25	W-26	W-27	W-28	W-29	W-30	W-32	W-33	W-35	W-36	W-37
				Date	10/26/2021 11:03	10/8/2021 9:34	10/18/2021 10:29	10/21/2021 14:13	10/26/2021 12:09	10/19/2021 11:53	10/22/2021 13:03	10/6/2021 11:58	10/8/2021 9:02	10/8/2021 12:53	10/5/2021 11:53	10/14/2021 14:49	10/14/2021 13:21	10/13/2021 9:55	10/11/2021 13:07
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units															
Radiological	Alpha particles	15	*	pCi/L	0.485 #	**8.55**	0.635 #	2.51 #	0.419 #	0.933 #	0 ##	**7.01**	3.21 #	**6.37**	**5.72**	**5.46**	0.639 #	**4.51**	0.502 #
Radiological	Beta particles	50	*	pCi/L	0 ##	**24.5**	0.988 #	**12.2**	0.964 #	**7.26**	**5.28**	**7.16**	**6.80**	**19.9**	**77.2**	**84.0**	3.23 #	**8.06**	1.58 #
Radiological	Tritium			pCi/L		0 ##		39.3 #		105 #			27.8 #	126 #	0 ##	75.1 #			
Radiological	Technetium-99	900		pCi/L	0 ##	**31.1**	0 ##	0 ##	0 ##	**5.60**	3.49 #	2.14 #	**8.95**	**48.9**	**231**	3.64 #	0.125 #	0 ##	0.0860 #
Radiological	Uranium-233/234			pCi/L	0 ##	**0.727**	0 ##	0 ##	0 ##	0.0743 #	0.0360 #	**1.89**	0.314 #	**10.3**	0.240 #	0.0523 #	0.0107 #	0 ##	0 ##
Radiological	Uranium-235/236			pCi/L	0 ##	0.220 #	0.0323 #	0 ##	0 ##	0.0622 #	0.0765 #	0.0987 #	0.0950 #	**0.446**	0.0384 #	0 ##	0.0607 #	0.132 #	0.0737 #
Radiological	Uranium-238			pCi/L	0 ##	**0.302**	0.0357 #	0.0168 #	0.0224 #	0.137 #	0.0631 #	**0.472**	**0.329**	**2.54**	0.0186 #	0.0512 #	0 ##	0 ##	0 ##
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	**2.65**	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	**0.0144 J**	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.0411 J**	**0.0145 J**	**0.209**	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	**0.793**	< 0.200	< 0.200	< 0.200	< 0.200	**0.0985 J**	**2.04**	**1.04**	**8.82**	**0.153 J**	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	**0.807**	< 0.200	< 0.200	< 0.200	< 0.200	**0.0985 J**	**2.08**	**1.05**	**9.03**	**0.153 J**	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	**0.042 J**	**5.61**	**0.029 J**	**0.025 J**	**0.091 J**	**1.44**	**2.52**	**8.11**	**4.57**	**14.3**	**5.01**	**0.084 J**	**0.026 J**	**0.014 J**	**0.038 J**
Chemical	Nitrate as N	10		mg/L	**0.042**	**72**	**0.67**	< 0.020	**0.10**	**2.4**	< 0.020	**5.9**	**10**	**57**	**94**	**18**	**4.2**	**0.35**	**3.3**
Chemical	Ammonia as N			mg/L	**0.0427 J**	**45.9**	**0.0495 J**	**0.0398 J**	**0.249**	**2.19**	**5.15**	**0.277**	**11.7**	**1.38**	**38.9**	**0.0153 J**	**0.0248 J**	**0.0245 J**	**0.0162 J**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.0**	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.8**	< 1.0	**340**	**1.9**	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.5**	< 1.0	**36**	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-38	W-39	W-40	W-41R	W-42	W-43	W-44	W-45	W-46	W-47	W-48	W-49	W-50	W-51
				Date	10/7/2021 14:21	10/18/2021 12:03	10/12/2021 9:18	10/21/2021 9:06	10/20/2021 9:17	10/18/2021 13:02	10/18/2021 14:19	10/14/2021 11:09	10/21/2021 9:03	10/19/2021 9:47	10/19/2021 13:35	10/20/2021 10:18	10/12/2021 10:42	10/13/2021 14:50
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units														
Radiological	Alpha particles	15	*	pCi/L	2.12 #	0.360 #	0 ##	0.858 #	0 ##	0 ##	0.557 #	2.49 #	1.25 #	0 ##	0 ##	2.23 #	0.966 #	1.28 #
Radiological	Beta particles	50	*	pCi/L	**4.58**	**10.4**	1.86 #	**10.2**	3.47 #	0 ##	3.38 #	2.22 #	**37.5**	**51.3**	**13.7**	0 ##	**4.28**	3.90 #
Radiological	Tritium			pCi/L		248 #		103 #		0 ##	287 #			193 #	132 #			
Radiological	Technetium-99	900		pCi/L	1.04 #	**10.4**	0.0523 #	**13.5**	2.31 #	**39.9**	0.648 #	1.47 #	**51.3**	**37.9**	**14.9**	0 ##	0.173 #	0 ##
Radiological	Uranium-233/234			pCi/L	**0.295**	0.0183 #	0 ##	0 ##	0.0236 #	0 ##	0 ##	**0.782**	0 ##	0.00116 #	0 ##	0 ##	0 ##	0 ##
Radiological	Uranium-235/236			pCi/L	0.0217 #	0 ##	0.105 #	0.0101 #	0 ##	0 ##	0.0451 #	0 ##	0 ##	0 ##	0 ##	0 ##	0.0722 #	0 ##
Radiological	Uranium-238			pCi/L	0.0851 #	0.0841 #	0 ##	0.00350 #	0 ##	0.0793 #	0.0630 #	**0.225**	0 ##	0 ##	0.0103 #	0.0110 #	0.0400 #	0 ##
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.0112 J**	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	**0.120 J**	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.462**	< 0.200	**0.0704 J**	< 0.200	**0.0826 J**	**0.180 J**	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	**0.120 J**	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.473**	< 0.200	**0.0704 J**	< 0.200	**0.0826 J**	**0.180 J**	< 0.200
Chemical	Fluoride	4		mg/L	**0.501**	**0.027 J**	**0.141**	**0.017 J**	**1.27**	**0.023 J**	**0.015 J**	**0.386**	**0.03 J**	**3.97**	**0.31**	**0.01 J**	**0.016 J**	**0.224**
Chemical	Nitrate as N	10		mg/L	**2.6**	**57**	**4.1**	**46**	**1.6**	**7.4**	**1.7**	**0.24**	**7.7**	**33**	**5.5**	< 0.020	< 0.020	**0.11**
Chemical	Ammonia as N			mg/L	**0.0464 J**	**0.0327 J**	**0.342**	**0.0484 J**	**0.156**	**0.0248 J**	**0.0175 J**	**0.904**	**0.1**	**13.9**	**0.0348 J**	**0.0537 J**	**0.0252 J**	**0.166**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	**8.5**	< 1.0	**4.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.0**	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	**250**	< 1.0	**160**	< 1.0	< 1.0	< 1.0	< 1.0	**2.9**	**1.3**	**16**	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	**4.0**	**3.7**	< 1.0	**8.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.8**	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B
Tabulated Groundwater Wells Analytical Results, October 2021
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-52	W-53	W-54	W-55	W-56	W-57	W-58	W-59	W-60	W-61	W-62	W-63	W-64	W-65
				Date	10/13/2021 13:55	10/12/2021 14:26	10/12/2021 12:49	10/11/2021 12:16	10/11/2021 14:18	10/7/2021 14:39	10/11/2021 9:11	10/11/2021 11:18	10/15/2021 11:31	10/15/2021 12:46	10/19/2021 10:24	10/19/2021 13:23	10/19/2021 8:54	10/18/2021 9:36
				Type	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units														
Radiological	Alpha particles	15	*	pCi/L	1.20 #	2.12 #	0 ##	**276**	**309**	0.771 #	**4.22**	**17.7**	0.303 #	2.43 #	1.08 #	2.07 #	**5.14**	0 ##
Radiological	Beta particles	50	*	pCi/L	1.65 #	1.55 #	2.06 #	**61.1**	**72.3**	1.93 #	2.33 #	**10.3**	2.00 #	4.11 #	0.941 #	**14.2**	**48.8**	0.229 #
Radiological	Tritium			pCi/L														
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	0 ##	0.449 #	0.222 #	**15.0**	0.985 #	**7.63**	1.43 #	0 ##	0 ##	**13.6**	**72.9**	0.363 #
Radiological	Uranium-233/234			pCi/L	0.0358 #	0 ##	0.199 #	**182**	**231**	0.180 #	**1.40**	**13.0**	0.0239 #	0 ##	0 ##	**0.573**	0.0842 #	0 ##
Radiological	Uranium-235/236			pCi/L	0 ##	0 ##	0.0718 #	**9.38**	**12.2**	0.0640 #	0.121 #	**0.590**	0.0858 #	0 #	0 ##	0.0151 #	0 ##	0.0175 #
Radiological	Uranium-238			pCi/L	0 ##	0 ##	0.0172 #	**34.0**	**49.0**	0.0235 #	0.128 #	**2.67**	0 ##	0.0180 #	0 ##	**0.578**	0.0914 #	0 ##
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	**4.11**	**3.72**	0 #	0 #	**3.32**	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	**0.0340 J**	**0.0410 J**	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	**3.87**	**4.44**	< 0.0700	**0.0319 J**	**0.286**	< 0.0700	< 0.0700	< 0.0700	**0.0101 J**	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	**0.0922 J**	< 0.200	< 0.200	**117**	**139**	**0.0988 J**	**0.966**	**9.66**	< 0.200	< 0.200	< 0.200	**1.54**	**0.0877 J**	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	**0.0922 J**	< 0.200	< 0.200	**121**	**143**	**0.0988 J**	**0.998**	**9.95**	< 0.200	< 0.200	< 0.200	**1.55**	**0.0877 J**	< 0.200
Chemical	Fluoride	4		mg/L	**1.54**	**0.063 J**	**0.137**	**0.048 J**	**0.297**	**0.107**	**0.083 J**	**2.9**	**0.027 J**	**0.024 J**	**0.019 J**	**0.071 J**	**3.64**	**0.138**
Chemical	Nitrate as N	10		mg/L	**0.68**	**0.33**	**2.0**	**1.8**	**3.0**	**2.5**	**2.2**	**20**	**0.055**	**3.3**	**4.1**	**4.1**	**35**	**1.6**
Chemical	Ammonia as N			mg/L	**0.0301 J**	**0.0245 J**	**0.0214 J**	**0.0148 J**	**0.0763 J**	**0.0298 J**	**3.51**	**7.1**	**0.0307 J**	**0.0193 J**	**0.0185 J**	**0.0192 J**	**12.1**	**0.0192 J**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100
VOCs	Benzene	5		ug/L	< 1.0	**1.1**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**13**
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**33**
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**28**	**1.8**	**1.1**	**340**
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.4**	< 1.0	**41**
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-66	W-66	W-67	W-68	W-69	W-70	W-71	W-71	W-72	W-73	W-74	W-74	W-75	W-76	W-77
				Date	10/18/2021 10:38	10/18/2021 10:40	10/18/2021 11:24	10/19/2021 9:13	10/21/2021 12:23	10/21/2021 11:27	10/21/2021 13:24	10/21/2021 13:24	10/12/2021 11:33	10/8/2021 13:30	10/12/2021 9:49	10/12/2021 9:49	10/12/2021 8:51	10/7/2021 13:05	10/6/2021 10:45
				Type	N	FD	N	N	N	N	N	FD	N	N	N	FD	N	N	N
Group	Analyte	MCL	note	Units															
Radiological	Alpha particles	15	*	pCi/L	0.899 #	0.560 #	2.06 #	0.0923 #	0 ##	1.37 #	0.418 #	2.98 #	0 ##	0 ##	0.306 #	2.77 #	0 ##	**8.71**	**221**
Radiological	Beta particles	50	*	pCi/L	2.95 #	2.22 #	**33.4**	2.61 #	0 ##	0 ##	2.35 #	2.04 #	3.80 #	1.84 #	0 ##	0.744 #	1.17 #	**6.19**	**36.4**
Radiological	Tritium			pCi/L															
Radiological	Technetium-99	900		pCi/L	1.10 #	0 ##	**69.8**	0.0281 #	0 ##	0.570 #	0.0199 #	0.395 #	0 ##	2.26 #	0.0903 #	0 ##	0.236 #	0.0261 #	2.50 #
Radiological	Uranium-233/234			pCi/L	0 ##	0.0119 #	0 ##	0 ##	0 ##	0.0582 #	0 ##	0 ##	**0.276**	0.153 #	0 ##	0.0432 #	0.0458 #	**5.03**	**268**
Radiological	Uranium-235/236			pCi/L	0.0386 #	0.0264 #	0 ##	0 ##	0.0618 #	0.0330 #	0.101 #	0.0591 #	0.0107 #	0.0189 #	0.0333 #	0 ##	0.0187 #	0.162 #	**17.0**
Radiological	Uranium-238			pCi/L	0 ##	0.0230 #	0 ##	0 ##	0 ##	0 ##	0.0757 #	0 ##	0.117 #	0.0894 #	0.0199 #	0 ##	0.0442 #	**1.27**	**44.4**
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	**5.61**
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	**0.0470 J**
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.104**	**5.52**
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.0939 J**	**0.0898 J**	**0.266**	**0.133 J**	< 0.200	< 0.200	< 0.200	**3.12**	**128**
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.0939 J**	**0.0898 J**	**0.266**	**0.133 J**	< 0.200	< 0.200	< 0.200	**3.23**	**133**
Chemical	Fluoride	4		mg/L	**0.031 J**	**0.033 J**	**0.023 J**	**0.027 J**	**0.075 J**	**0.017 J**	**0.031 J**	**0.086 J**	**0.406**	**0.056 J**	**0.017 J**	**0.021 J**	**0.116**	**2.66**	**14.8**
Chemical	Nitrate as N	10		mg/L	**1.3**	**1.3**	**14**	**2.8**	**0.35**	**1.6**	< 0.020	< 0.020	**2.4**	**1.3**	**5.5**	**5.5**	**0.21**	**13**	**4.9**
Chemical	Ammonia as N			mg/L	**0.0188 J**	**0.0277 J**	**1.74**	**0.255**	**0.0228 J**	**0.0186 J**	**0.0212 J**	**0.0194 J**	**0.0262 J**	**0.0208 J**	**0.0214 J**	**0.0386 J**	**0.258**	**0.0283 J**	**3.66**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**4.1**
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	**8.6**	**8.0**	**1.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**1.3**	**1.3**	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	**270**	**270**	**41**	**55**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**11**	**12**	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	**4.9**	**4.7**	**7.4**	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**3.2**	**3.1**	< 1.0	**26**	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-78	W-79	W-80	W-81	W-81	W-82	W-83	W-84	W-85	W-86	W-87	W-88	W-89	W-90	W-91
				Date	10/6/2021 13:00	10/6/2021 14:12	10/7/2021 13:31	10/7/2021 11:44	10/7/2021 11:44	10/7/2021 9:54	10/7/2021 11:09	10/7/2021 9:04	10/22/2021 11:13	10/22/2021 9:23	10/13/2021 12:25	10/21/2021 11:12	10/21/2021 12:08	10/20/2021 11:27	10/20/2021 12:20
				Type	N	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units															
Radiological	Alpha particles	15	*	pCi/L	0 ##	0.864 #	0 ##	0.133 #	0 ##	1.76 #	1.50 #	0 ##	2.78 #	0 ##	**2.81**	0.593 #	0.991 #	0.419 #	0 ##
Radiological	Beta particles	50	*	pCi/L	0 ##	2.28 #	**5.69**	**5.84**	**5.85**	1.51 #	0.822 #	0.282 #	1.85 #	0.663 #	**9.79**	0.117 #	2.99 #	2.13 #	0 ##
Radiological	Tritium			pCi/L															
Radiological	Technetium-99	900		pCi/L	0 ##	0 ##	1.17 #	0.279 #	1.20 #	1.72 #	1.28 #	1.48 #	0 ##	0 ##	1.05 #	1.74 #	0.544 #	0.185 #	0.352 #
Radiological	Uranium-233/234			pCi/L	**0.195**	0.0283 #	0.142 #	**0.874**	**0.910**	0 ##	0 ##	0 ##	0 ##	0 ##	0.0823 #	0 ##	0.107 #	0 ##	0 ##
Radiological	Uranium-235/236			pCi/L	**0.138**	0 ##	0 ##	0.0533 #	0.123 #	0.0551 #	0.0143 #	0.0486 #	0 ##	0 ##	0.0296 #	0.0772 #	0 ##	0 ##	0 ##
Radiological	Uranium-238			pCi/L	0.0143 #	0.0340 #	0.0345 #	**0.477**	0.231 #	0 ##	0.00330 #	0.0434 #	0 ##	0.147 #	0.0689 #	0 ##	0.0119 #	0 ##	0 ##
Radiological	Percent Uranium-235			%	**60.0**	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	**0.0159 J**	**0.0166 J**	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	**0.186 J**	< 0.200	**0.106 J**	**1.41**	**1.35**	< 0.200	< 0.200	< 0.200	**0.0781 J**	< 0.200	**0.445**	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	**0.186 J**	< 0.200	**0.106 J**	**1.42**	**1.36**	< 0.200	< 0.200	< 0.200	**0.0781 J**	< 0.200	**0.445**	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	**13.6**	**0.978**	**0.282**	**0.056 J**	**0.053 J**	**0.064 J**	**0.115**	**0.092 J**	**0.152**	**0.377**	**0.117**	**0.034 J**	**0.067 J**	**0.013 J**	**0.014 J**
Chemical	Nitrate as N	10		mg/L	**3.8**	**3.9**	**9.2**	**3.8**	**4.1**	**1.8**	**0.85**	**0.091**	< 0.020	< 0.020	**0.19**	**3.5**	**2.2**	**2.8**	**1.2**
Chemical	Ammonia as N			mg/L	**0.0219 J**	**0.0166 J**	**0.0378 J**	**0.0352 J**	**0.0268 J**	**0.0221 J**	**0.0243 J**	**0.0236 J**	**0.127**	**0.0166 J**	**0.027 J**	**0.0194 J**	**0.019 J**	**0.0165 J**	**0.0174 J**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	**1.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	**58**	**6.2**	**6.3**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	**4.6**	**2.7**	**2.6**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	**4.1**	**1.5**	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**34**	**2.4**	**1.2**	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**6.6**	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-92	W-93	W-94	W-95	W-96	W-97	W-97	W-98	W-99	W-100	W-102	W-103	W-104	W-105
				Date	10/22/2021 12:01	10/6/2021 9:49	10/26/2021 10:24	10/26/2021 11:13	10/25/2021 8:53	10/25/2021 13:50	10/25/2021 13:50	10/19/2021 14:51	10/15/2021 13:00	10/15/2021 12:03	10/8/2021 10:39	10/18/2021 12:22	10/25/2021 11:46	10/25/2021 11:26
				Type	N	N	N	N	N	N	FD	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units														
Radiological	Alpha particles	15	*	pCi/L	**3.35**	2.17 #	3.82 #	2.57 #	0.893 #	1.69 #	0.808 #	2.36 #	1.01 #	2.75 #	**6.57**	0 ##	0.457 #	0.634 #
Radiological	Beta particles	50	*	pCi/L	0.885 #	3.21 #	**5.78**	**3.99**	2.22 #	**10.3**	**12.9**	**16.3**	**40.6**	**23.9**	**80.6**	**7.53**	4.20 #	2.20 #
Radiological	Tritium			pCi/L														
Radiological	Technetium-99	900		pCi/L	2.76 #	0 ##	0 ##	0 ##	0 ##	**14.7**	**15.9**	**6.30**	**57.7**	**18.0**	**119**	**40.2**	1.71 #	0.544 #
Radiological	Uranium-233/234			pCi/L	0.0378 #	**0.264**	0 ##	0 ##	0.0564 #	0 ##	0.0789 #	0 ##	0.314 #	0.0196 #	**1.81**	0 ##	0.111 #	0 ##
Radiological	Uranium-235/236			pCi/L	0 ##	0.101 #	0 ##	0 ##	0.0586 #	0.0222 #	0 ##	0.0516 #	0.0255 #	0.0619 #	**0.136**	0 ##	0.0696 #	0 ##
Radiological	Uranium-238			pCi/L	0 ##	0.0520 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0.130 #	0 ##	**0.396**	0 ##	0.0806 #	0.0794 #
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	**5.06**	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.0312 J**	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.243**	**0.180 J**	**1.78**	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.243**	**0.180 J**	**1.81**	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	**0.12**	**0.036 J**	**0.049 J**	**0.233**	**0.092 J**	**0.481**	**0.451**	**0.019 J**	**2.96**	**1.91**	**3.74**	**0.032 J**	**0.064 J**	**0.376**
Chemical	Nitrate as N	10		mg/L	< 0.020	**4.9**	**0.089**	**0.076**	< 0.020	**4.5**	**4.2**	**11**	**7.8**	**7.6**	**95**	**10**	**6.4**	**0.089**
Chemical	Ammonia as N			mg/L	**4.39**	**0.0174 J**	**0.275**	**0.203**	**0.241**	**7.35**	**6.65**	**0.356**	**3.25**	**8.27**	**35.1**	**0.387**	**1.45**	**0.721**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	**5.8**	**2.4**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**5.1**	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	**32**	< 1.0	< 1.0	**1.3**	**5.6**	**5.9**	< 1.0	< 1.0	< 1.0	**48**	**24**	**3.1**	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	**4.0**	< 1.0	< 1.0	**2.0**	**1.7**	**1.7**	< 1.0	< 1.0	< 1.0	**6.4**	**5.2**	**1.9**	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	**4.2**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-106	W-107	W-108	W-108	W-109	W-110	W-111	W-112	W-113	W-114	W-115	W-116	W-117	W-118
				Date	10/18/2021 14:33	10/26/2021 12:55	10/25/2021 13:20	10/25/2021 13:20	10/26/2021 9:57	10/26/2021 13:23	10/26/2021 11:59	10/26/2021 9:30	10/15/2021 9:12	10/15/2021 10:36	10/14/2021 10:24	10/14/2021 11:59	10/14/2021 14:25	10/14/2021 13:00
				Type	N	N	N	FD	N	N	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units														
Radiological	Alpha particles	15	*	pCi/L	1.44 #	1.64 #	1.96 #	0 ##	1.47 #	**2.35**	0.989 #	0 ##	0.642 #	0.602 #	0 ##	1.24 #	0.596 #	1.08 #
Radiological	Beta particles	50	*	pCi/L	0.500 #	3.52 #	2.55 #	1.92 #	0 ##	0.581 #	1.15 #	0 ##	1.04 #	2.37 #	0.991 #	0 ##	0.859 #	0 ##
Radiological	Tritium			pCi/L														
Radiological	Technetium-99	900		pCi/L	2.54 #	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	0 ##	1.01 #	0.900 #	0.0562 #	0.927 #	0 ##	1.61 #
Radiological	Uranium-233/234			pCi/L	0.195 #	0 ##	0.00115 #	0.142 #	0.125 #	0.185 #	0.0169 #	0 ##	0 ##	0.0697 #	0.0547 #	0 ##	0 ##	0.0332 #
Radiological	Uranium-235/236			pCi/L	0.103 #	0.125 #	0 #	0.0368 #	0.0839 #	0 ##	0.0932 #	0.0195 #	0 ##	0.0380 #	0.0935 #	0.108 #	0 ##	0.0386 #
Radiological	Uranium-238			pCi/L	0.122 #	0.0573 #	0 ##	0 ##	0.0414 #	0.170 #	0.0769 #	0.00122 #	0.118 #	0 ##	0.0575 #	0 ##	0 ##	0.0325 #
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.0693 J**	**0.136 J**	**0.137 J**	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	**0.0693 J**	**0.136 J**	**0.137 J**	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	**0.154**	**0.082 J**	**0.098 J**	**0.087 J**	**0.051 J**	**0.032 J**	**0.012 J**	**0.076 J**	**0.181**	**0.247**	**0.026 J**	**0.025 J**	**0.029 J**	**0.047 J**
Chemical	Nitrate as N	10		mg/L	**0.084**	**0.089**	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	**0.077**	**2.2**	**1.1**	**3.4**	**5.9**	**2.4**	**3.9**
Chemical	Ammonia as N			mg/L	**1.58**	**0.334**	**0.158**	**0.148**	**0.0756 J**	**0.032 J**	**0.031 J**	**0.809**	**0.025 J**	**0.0237 J**	**0.0148 J**	**0.0159 J**	**0.0207 J**	**0.0138 J**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	**1.5**	**1.6**	**1.5**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.2**	**85**
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	**2.1**
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	**3.7**	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-119	W-120	W-121	W-122	W-123	W-124	W-125	W-126
				Date	10/18/2021 8:58	10/15/2021 9:04	10/15/2021 10:10	10/13/2021 10:56	10/5/2021 12:02	10/25/2021 12:55	10/25/2021 12:15	10/25/2021 10:16
				Type	N	N	N	N	N	N	N	N
Group	Analyte	MCL	note	Units								
Radiological	Alpha particles	15	*	pCi/L	2.25 #	1.26 #	0 ##	**3.49**	**5.31**	0 ##	2.74 #	**4.23**
Radiological	Beta particles	50	*	pCi/L	2.00 #	3.56 #	**5.06**	1.45 #	**239**	1.59 #	**6.77**	**4.02**
Radiological	Tritium			pCi/L								
Radiological	Technetium-99	900		pCi/L	0 ##	1.01 #	1.62 #	0.494 #	**424**	0 ##	1.15 #	0 ##
Radiological	Uranium-233/234			pCi/L	0 ##	**0.393**	0.0102 #	0 ##	**0.333**	0 ##	0.0880 #	0 ##
Radiological	Uranium-235/236			pCi/L	0.0153 #	0 ##	0.0118 #	0 ##	0.0432 #	0.0128 #	0.0279 #	0 ##
Radiological	Uranium-238			pCi/L	0 ##	0.278 #	0 ##	0 ##	**0.421**	0.0297 #	0.0250 #	0 ##
Radiological	Percent Uranium-235			%	0 #	0 #	0 #	0 #	0 #	0 #	0 #	0 #
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	**0.0118 J**	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	**0.623**	< 0.200	< 0.200	**1.60**	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	**0.623**	< 0.200	< 0.200	**1.61**	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	**0.016 J**	**0.083 J**	**0.057 J**	**0.056 J**	**8.13**	**0.056 J**	**0.257**	**0.251**
Chemical	Nitrate as N	10		mg/L	**1.5**	**4.5**	**2.5**	< 0.020	**120**	< 0.020	**0.073**	**0.060**
Chemical	Ammonia as N			mg/L	**0.0635 J**	**0.0228 J**	**0.0484 J**	**0.0248 J**	**95**	**0.173**	**5.42**	**2.9**
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	**1.3**	< 1.0	< 1.0	**1.9**	< 1.0	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	**74**	**340**	**82**	< 1.0	**23**	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	**2.3**	**17**	**2.4**	< 1.0	**7.7**	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment B

Tabulated Groundwater Wells Analytical Results, October 2021

Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-RW2	W-26	W-41R	W-48
				Date	10/21/2021 10:03	10/19/2021 11:53	10/21/2021 9:06	10/19/2021 13:35
				Type	N	N	N	N
Group	Analyte	MCL	note	Units				
SVOCs	1,1'-Biphenyl			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4,5-Trichlorophenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4,6-Trichlorophenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dichlorophenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dimethylphenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2,4-Dinitrophenol			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	2,4-Dinitrotoluene			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2,6-Dinitrotoluene			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2-Chloronaphthalene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Chlorophenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Methylnaphthalene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	2-Methylphenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	2-Nitroaniline			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	2-Nitrophenol			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	3,3'-Dichlorobenzidine			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	3-Nitroaniline			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4,6-Dinitro-2-methylphenol			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	4-Bromophenyl phenyl ether			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chloro-3-methylphenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chloroaniline			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Chlorophenyl phenyl ether			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	4-Methylphenol			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4-Nitroaniline			ug/L	< 1.6	< 1.6	< 1.6	< 1.6
SVOCs	4-Nitrophenol			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Acenaphthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Acenaphthylene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Acetophenone			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Anthracene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Atrazine	3		ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Benz(a)anthracene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzaldehyde			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Benzo(a)pyrene	0.2		ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(b)fluoranthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(g,h,i)perylene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Benzo(k)fluoranthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Bis(2-chloroethoxy)methane			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroethyl)ether			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-chloroisopropyl)ether			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Bis(2-ethylhexyl)phthalate	6		ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Butyl benzyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Caprolactam			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Carbazole			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Chrysene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Di-n-butyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Di-n-octyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dibenz(a,h)anthracene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Dibenzofuran			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Diethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Dimethyl phthalate			ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Fluoranthene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Fluorene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Hexachlorobenzene	1		ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorobutadiene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Hexachlorocyclopentadiene	50		ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Hexachloroethane			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Indeno(1,2,3-cd)pyrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Isophorone			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	N-Nitrosodi-n-propylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	N-Nitrosodiphenylamine			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Naphthalene			ug/L	< 0.16	**0.33**	< 0.16	**1.1**
SVOCs	Nitrobenzene			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Pentachlorophenol	1		ug/L	< 4.0	< 4.0	< 4.0	< 4.0
SVOCs	Phenanthrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16
SVOCs	Phenol			ug/L	< 0.80	< 0.80	< 0.80	< 0.80
SVOCs	Pyrene			ug/L	< 0.16	< 0.16	< 0.16	< 0.16

Notes: MCL - Maximum Contaminant Level

Concentrations in orange shaded cells exceed their MCL

* - site-specific action level

Bold concentrations indicate detections

J - Result below reporting limit

NA - not analyzed

- value is below minimum detectable concentration

- value shown as zero reported by analytical laboratory as a negative number

pCi/L - picocuries per liter

ug/L - micrograms per liter

mg/L - milligrams per liter

SVOCs - semivolatile organic compounds

VOCs - volatile organic compounds

N - Normal sample

FD - Field duplicate sample