



Westinghouse Electric Company  
Nuclear Fuel  
Columbia Fuel Fabrication Facility  
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USA

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Your ref:  
Our ref: LTR-RAC-23-45

July 13, 2023

Subject: **June 2023 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 **June 2, 2023**. The following progress report is for work occurring from **June 1- 30, 2023**:

- (a) Actions during the previous month:

In accordance with the **Feasibility Study (FS) Work Plan, Item 7** of the CA due on or before July 15, 2023, Westinghouse continued work as follows:

- Conducted its internal review of the draft FS Work Plan.
- Conducted a meeting on June 29<sup>th</sup> to discuss the Feasibility Study Work Plan with the Department prior to the July 15<sup>th</sup> due date.
- AECOM continued to refine the FS Work Plan.

(b) Results of sampling and tests:

- Tabulated results of the semi-annual groundwater sampling campaign conducted in April 2023 are included as **Attachment A** (118 wells). Potentiometric and plume figures from the April 2023 groundwater sampling campaign are included as **Attachment B**.

(c) Brief description of all actions which are scheduled for the next month:

- AECOM will finalize and CFFF will prepare the FS Work Plan for submission to the Department by July 15, 2023.
- Submit a work plan for the Department's approval for soil and sediment sampling within the site's Middle Ditch.
- Continue to develop site specific remedial goals for radionuclide impact assessment.
- Begin particle tracking in groundwater flow model.

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

- 100% of the **Remedial Investigation** is complete.
- 100% of the **Groundwater Flow Model** is completed.
- 80% of the **Feasibility Study Work Plan** is 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  
S. Subosits, Licensing Engineer  
ENOVIA Records

**Attachment A:** April 2023 Groundwater Analytical Results (118 wells)

**Attachment B:** April 2023 Groundwater Sampling Event Potentiometric and Plume Figures

# **Attachment A**

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Tabulated Groundwater Analytical Results

**April 2023 (118 wells)**

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-RW1	W-RW2	W-3A	W-4R	W-6	W-7A	W-11	W-13R	W-14	W-15	W-16	W-17
				Date Type	4/13/2023 8:57:00 AM N	4/14/2023 11:16:00 AM N	4/20/2023 11:13:00 AM N	4/21/2023 9:08:00 AM N	4/11/2023 12:39:00 PM N	4/5/2023 11:01:00 AM N	4/5/2023 12:54:00 PM N	4/6/2023 10:07:00 AM N	4/10/2023 12:18:00 PM N	4/13/2023 12:49:00 PM N	4/10/2023 1:43:00 PM N	4/17/2023 9:57:00 AM N
Alpha particles	15	*	pCi/L		NA	0.747 #	NA	NA	NA	2.12 #	NA	4.16 #	NA	9.32 4.20	0.278 #	NA
Beta particles	50	*	pCi/L		NA	1.52 #	NA	NA	NA	66.2	NA	NA	NA	80.4 88.7	13.2	NA
Tritium			pCi/L		NA	0 #	NA	NA	NA	165 #	NA	96.2 #	NA	164 #	395 #	NA
Technetium-99	900		pCi/L		0 #	3.43 #	0.146 #	5.42	1750	145	1750	70.1	3.69 #	185	8.85	189
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
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
Uranium-238			ug/L		< 0.200	< 0.200	< 0.200	< 0.200	0.101 J	0.476	< 0.200	0.154 J	0.342	< 0.200	0.126 J	0.274
Total Uranium Isotopes	30		ug/L		< 0.200	< 0.200	< 0.200	< 0.200	0.101 J	0.476	< 0.200	0.154 J	0.342	< 0.200	0.126 J	0.274
Fluoride	4		mg/L		< 0.10	0.17	< 0.10	< 0.10	0.13	5.1	< 0.10	7.3	< 0.10	1.8	6.5	3.2
Nitrate as N	10		mg/L		2.7	8.1	< 0.020	0.23	180	250	35	17	0.071	45	2.5	11
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
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
Bromodichloromethane			ug/L		< 1.0	0.81 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
Chloroform			ug/L		< 1.0	3.4	< 1.0	< 1.0	< 1.0	< 1.0	0.58 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-Dichloroethene	7		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	0.59 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		ug/L		< 1.0	0.64 J	< 1.0	< 1.0	1.8	< 1.0	1.3	0.68 J	0.58 J	0.93 J	< 1.0	< 1.0
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
1,2-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
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
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
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
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(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
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		1.6	120	< 1.0	< 1.0	12	1.1	11	28	1.3	8.7	2.4	1.9
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	8.5	< 1.0	< 1.0	2.1	< 1.0	1.9	2.6	0.70 J	1.7	0.77 J	0.61 J
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
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
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-18R	W-19B	W-19B	W-20	W-22	W-23R	W-23R	W-24	W-25	W-26	W-27	W-28
				Date Type	4/17/2023 11:38:00 AM N	4/17/2023 2:00:00 PM N	4/17/2023 2:00:00 PM FD	4/21/2023 12:23:00 PM N	4/11/2023 2:00:00 PM N	4/10/2023 9:27:00 AM N	4/10/2023 9:27:00 AM FD	4/18/2023 2:33:00 PM N	4/21/2023 12:20:00 PM N	4/17/2023 1:03:00 PM N	4/20/2023 10:07:00 AM N	4/6/2023 11:25:00 AM N
Alpha particles	15	*	pCi/L		0.801 # 7.15	NA	NA	NA	1.40 #	NA	NA	2.90 # 2.37 #	NA	7.07 5.94	NA	NA
Beta particles	50	*	pCi/L		54.7 59.1	NA	NA	NA	9.27	NA	NA	56.1 56.1	NA	69.9 74.6	NA	NA
Tritium			pCi/L		316 #	NA	NA	NA	233 #	NA	NA	201 #	NA	349 #	NA	NA
Technetium-99	900		pCi/L		138	0 #	0 #	7.45	9.13	4.09 #	1.34 #	0.311 #	0 #	7.90	2.03 #	0 #
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
Uranium-235			ug/L		0.0211 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0434 J
Uranium-238			ug/L		2.09	< 0.200	< 0.200	< 0.200	0.411	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	2.14
Total Uranium Isotopes	30		ug/L		2.11	< 0.200	< 0.200	< 0.200	0.411	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	2.19
Fluoride	4		mg/L		5.1	< 0.10	< 0.10	< 0.10	2.8	< 0.10	< 0.10	< 0.10	< 0.10	1.8	3.0	4.3
Nitrate as N	10		mg/L		350	3.1	3.1	< 0.020	15	0.68	0.66	0.020	0.22	2.7	< 0.020	9.1
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
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
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
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
Chloroform			ug/L		0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-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
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
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
1,2-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
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
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
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
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(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
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		1.6	44	48	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	0.76 J	0.85 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-29	W-30	W-32	W-33	W-35	W-36	W-37	W-38	W-39	W-40	W-41R	W-42
				Date Type	4/6/2023 2:00:00 PM N	4/11/2023 11:02:00 AM N	4/5/2023 11:54:00 AM N	4/14/2023 9:12:00 AM N	4/12/2023 10:15:00 AM N	4/13/2023 9:38:00 AM N	4/11/2023 11:15:00 AM N	4/6/2023 1:15:00 PM N	4/10/2023 11:47:00 AM N	4/18/2023 12:09:00 PM N	4/14/2023 10:11:00 AM N	4/14/2023 11:25:00 AM N
Alpha particles	15	*	pCi/L		1.21 #	11.7 7.39	38.1 29.1	0 #	NA	NA	NA	NA	2.23 #	NA	3.34 #	NA
Beta particles	50	*	pCi/L		NA	71.5 74.9	267 260	1.52 #	NA	NA	NA	NA	7.90	NA	1.82 #	NA
Tritium			pCi/L		298 #	163 #	294 #	285 #	NA	NA	NA	NA	249 #	NA	78.3 #	NA
Technetium-99	900		pCi/L		44.8	30.5	305	3.22 #	0.971 #	0.0795 #	0.530 #	0 #	6.80	0 #	4.78	3.61
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
Uranium-235			ug/L		< 0.0700	0.147	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238			ug/L		0.389	6.22	0.163 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.155 J	< 0.200	< 0.200
Total Uranium Isotopes	30		ug/L		0.389	6.37	0.163 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.155 J	< 0.200	< 0.200
Fluoride	4		mg/L		2.0	8.2	3.0	0.17	< 0.10	< 0.10	< 0.10	0.31	< 0.10	0.15	< 0.10	0.63
Nitrate as N	10		mg/L		25	150	140	6.6	2.1	0.44	1.4	3.4	61	0.63	17	2.5
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
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
Bromodichloromethane			ug/L		< 1.0	< 1.0	< 1.0	0.65 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
Chloroform			ug/L		< 1.0	0.48 J	< 1.0	1.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-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
cis-1,2-Dichloroethene	70		ug/L		< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 1.0	< 1.0	< 1.0	8.5	< 1.0	2.0	< 1.0
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
1,2-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
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
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
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
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(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
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		< 1.0	< 1.0	0.88 J	150	1.8	< 1.0	< 1.0	0.70 J	220	< 1.0	120	< 1.0
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	23	< 1.0	< 1.0	< 1.0	15	4.0	< 1.0	4.7	< 1.0
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
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
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-43	W-44	W-45	W-45	W-46	W-47	W-48	W-49	W-50	W-51	W-52	W-53
				Date Type	4/14/2023 9:06:00 AM N	4/14/2023 12:26:00 PM N	4/12/2023 11:30:00 AM N	4/12/2023 11:30:00 AM FD	4/14/2023 12:34:00 PM N	4/13/2023 1:54:00 PM N	4/17/2023 2:12:00 PM N	4/14/2023 10:29:00 AM N	4/18/2023 10:52:00 AM N	4/12/2023 12:36:00 PM N	4/11/2023 3:05:00 PM N	4/11/2023 12:53:00 PM N
Alpha particles	15	*	pCi/L		0.0324 #	0 ##	NA	NA	NA	0.816 # 4.94	0.422 #	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		1.16 #	1.40 #	NA	NA	NA	81.2 70.6	9.73	NA	NA	NA	NA	NA
Tritium			pCi/L		153 #	11.6 #	NA	NA	NA	165 #	263 #	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		2.86 #	0.933 #	1.41 #	1.02 #	54.4	120	13.1	1.81 #	0 #	0.559 #	3.22 #	1.16 #
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
Uranium-235			ug/L		< 0.0700	< 0.0700	0.0307 J	0.0325 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0107 J	< 0.0700
Uranium-238			ug/L		< 0.200	< 0.200	1.33	1.36	< 0.200	< 0.200	< 0.200	0.103 J	0.123 J	< 0.200	0.416	< 0.200
Total Uranium Isotopes	30		ug/L		< 0.200	< 0.200	1.36	1.40	< 0.200	< 0.200	< 0.200	0.103 J	0.123 J	< 0.200	0.427	< 0.200
Fluoride	4		mg/L		< 0.10	< 0.10	0.53	0.53	< 0.10	4.0	0.41	< 0.10	< 0.10	0.17	0.87	< 0.10
Nitrate as N	10		mg/L		8.4	2.6	0.85	0.31	8.2	62	4.7	0.028	< 0.020	0.13	0.60	0.094
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Benzene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 1.0
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
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
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
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-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
cis-1,2-Dichloroethene	70		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
1,2-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
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
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
Ethylbenzene	700		ug/L		< 1.0	< 1.0	1.1	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.6	< 1.0	< 1.0
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(1-Methylethyl)-Benzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.6	1.2	< 1.0
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane			ug/L		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	3.0 J	< 5.0	< 5.0
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	2.6	2.8	150	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	0.60 J	0.66 J	5.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
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
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	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 Type	4/11/2023 12:10:00 PM N	4/4/2023 1:17:00 PM N	4/4/2023 11:28:00 AM N	4/11/2023 8:54:00 AM N	4/6/2023 2:04:00 PM N	4/4/2023 10:34:00 AM N	4/10/2023 1:07:00 PM N	4/10/2023 2:09:00 PM N	4/17/2023 10:30:00 AM N	4/18/2023 12:50:00 PM N	4/13/2023 2:10:00 PM N	4/7/2023 11:55:00 AM N
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		1.61 #	0 #	1.20 #	1.91 #	0.977 #	17.3	3.28 #	4.02 #	0.314 #	21.9	123	2.00 #
Uranium-234			ug/L		< 0.0500	0.0290 J	0.138	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235			ug/L		< 0.0700	2.99	14.0	< 0.0700	0.0199 J	0.195	< 0.0700	< 0.0700	< 0.0700	0.0107 J	< 0.0700	< 0.0700
Uranium-238			ug/L		0.0703 J	86.6	432	0.0697 J	0.654	6.30	< 0.200	0.0833 J	< 0.200	1.45	< 0.200	< 0.200
Total Uranium Isotopes	30		ug/L		0.0703 J	89.6	446	0.0697 J	0.674	6.49	< 0.200	0.0833 J	< 0.200	1.46	< 0.200	< 0.200
Fluoride	4		mg/L		< 0.10	< 0.100	0.305	< 0.10	< 0.10	1.33	< 0.10	< 0.10	< 0.10	< 0.10	3.9	< 0.10
Nitrate as N	10		mg/L		1.1	2.17	1.88	1.8	7.2	77.4	0.060	2.0	2.9	5.9	61	1.6
Acetone			ug/L		< 20	< 5.00	< 5.00	< 20	< 20	< 5.00	< 20	< 20	< 20	< 20	< 20	< 20
Benzene	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			ug/L		< 2.0	< 1.00	< 1.00	< 2.0	< 2.0	< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone			ug/L		< 10	< 5.00	< 5.00	< 10	< 10	< 5.00	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide			ug/L		< 1.0	< 5.00	< 5.00	< 1.0	< 1.0	< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			ug/L		< 2.0	< 1.00	< 1.00	< 2.0	< 2.0	< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	0.2		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.05		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			ug/L		< 2.0	< 1.00	< 1.00	< 2.0	< 2.0	< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		ug/L		0.69 J	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	15
trans-1,2-Dichloroethene	100		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone			ug/L		< 10	< 5.00	< 5.00	< 10	< 10	< 5.00	< 10	< 10	< 10	< 10	< 10	< 10
(1-Methylethyl)-Benzene			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl acetate			ug/L		< 1.0	< 5.00	< 5.00	< 1.0	< 1.0	< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone			ug/L		< 10	< 5.00	< 5.00	< 10	< 10	< 5.00	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane			ug/L		< 5.0	< 1.00	< 1.00	< 5.0	< 5.0	< 1.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	5		ug/L		< 1.0	< 2.00	< 2.00	< 1.0	< 1.0	< 2.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	100		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5		ug/L		0.44 J	< 1.00	< 1.00	0.53 J	0.61 J	0.480 J	0.41 J	< 1.0	69	2.2	1.9	320
Toluene	1000		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L		< 1.0	< 5.00	< 5.00	< 1.0	< 1.0	< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	70		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	200		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	1.0	< 1.0	1.2	1.4	0.46 J	43	
Trichlorofluoromethane			ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2		ug/L		< 1.0	< 1.00	< 1.00	< 1.0	< 1.0	< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	10000		ug/L		< 1.0	< 3.00	< 3.00	< 1.0	< 1.0	< 3.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0



Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-66	W-67	W-68	W-69	W-69	W-70	W-71	W-72	W-73	W-74	W-75	W-76
				Date Type	4/7/2023 12:37:00 PM N	4/10/2023 11:30:00 AM N	4/17/2023 9:34:00 AM N	4/19/2023 11:38:00 AM N	4/19/2023 11:38:00 AM FD	4/19/2023 10:23:00 AM N	4/19/2023 9:20:00 AM N	4/11/2023 10:21:00 AM N	4/11/2023 9:37:00 AM N	4/13/2023 11:38:00 AM N	4/13/2023 10:53:00 AM N	4/6/2023 12:25:00 PM N
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		0 #	52.1	0.285 #	0.232 #	0 #	0 #	0 #	3.97	2.01 #	0.570 #	1.29 #	0 #
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
Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0469 J	< 0.0700	< 0.0700	< 0.0700	0.102
Uranium-238			ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.211	1.51	0.130 J	< 0.200	< 0.200	2.99
Total Uranium Isotopes	30		ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.211	1.55	0.130 J	< 0.200	< 0.200	3.09
Fluoride	4		mg/L		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.78	< 0.10	< 0.10	< 0.10	2.0
Nitrate as N	10		mg/L		1.7	11	1.7	0.45	0.44	1.4	< 0.020	3.7	1.3	6.0	0.56	11
Acetone			ug/L		< 100	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	17 J	< 20
Benzene	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			ug/L		< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone			ug/L		< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			ug/L		< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	0.2		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.05		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			ug/L		< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		ug/L		24	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	< 1.0	< 1.0
trans-1,2-Dichloroethene	100		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone			ug/L		< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(1-Methylethyl)-Benzene			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl acetate			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone			ug/L		< 50	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane			ug/L		< 25	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	100		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5		ug/L		460	43	59	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.74 J	7.8	0.40 J	0.94 J
Toluene	1000		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	70		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	200		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	5		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5		ug/L		11	7.7	1.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	3.2
Trichlorofluoromethane			ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	10000		ug/L		< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-77	W-78	W-79	W-80	W-81	W-82	W-83	W-84	W-85	W-86	W-87	W-88
				Date Type	4/4/2023 2:13:00 PM N	4/6/2023 12:13:00 PM N	4/6/2023 11:06:00 AM N	4/6/2023 8:53:00 AM N	4/11/2023 1:55:00 PM N	4/5/2023 2:33:00 PM N	4/5/2023 2:34:00 PM N	4/5/2023 1:16:00 PM N	4/19/2023 1:28:00 PM N	4/19/2023 2:15:00 PM N	4/12/2023 8:57:00 AM N	4/18/2023 11:18:00 AM N
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		0 #	0 #	0 #	0.145 #	0.475 #	2.04 #	1.95 #	2.13 #	1.24 #	0.473 #	0 #	0 #
Uranium-234			ug/L		0.0180 J	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Uranium-235			ug/L		1.52	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238			ug/L		38.0	0.0807 J	< 0.200	0.287	0.240	0.209	< 0.200	< 0.200	< 0.200	< 0.200	0.180 J	< 0.200
Total Uranium Isotopes	30		ug/L		39.5	0.0807 J	< 0.200	0.287	0.240	0.209	< 0.200	< 0.200	< 0.200	< 0.200	0.180 J	< 0.200
Fluoride	4		mg/L		7.86	16	0.62	0.11	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.40	< 0.10	< 0.10
Nitrate as N	10		mg/L		4.77	3.7	3.9	15	3.8	0.87	1.1	0.089	0.028	< 0.020	0.46	3.2
Acetone			ug/L		2.75 J	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
Benzene	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			ug/L		< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone			ug/L		< 5.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Carbon disulfide			ug/L		< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			ug/L		< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			ug/L		4.15	< 1.0	< 1.0	0.45 J	1.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	0.2		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.05		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			ug/L		< 1.00	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,2-Dichloroethene	100		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone			ug/L		< 5.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(1-Methylethyl)-Benzene			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl acetate			ug/L		< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone			ug/L		< 5.00	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Methylcyclohexane			ug/L		< 1.00	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	5		ug/L		0.520 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	100		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	39	1.3
Toluene	1000		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L		< 5.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	70		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	200		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethene	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.40 J	< 1.0	< 1.0	< 1.0	12	< 1.0
Trichlorofluoromethane			ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2		ug/L		< 1.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	10000		ug/L		< 3.00	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-89	W-89	W-90	W-91	W-92	W-93	W-94	W-95	W-96	W-97	W-98	W-99
				Date Type	4/18/2023 10:17:00 AM N	4/18/2023 10:17:00 AM FD	4/17/2023 11:20:00 AM N	4/17/2023 12:50:00 PM N	4/20/2023 9:12:00 AM N	4/6/2023 9:55:00 AM N	4/24/2023 12:55:00 PM N	4/24/2023 11:45:00 AM N	4/20/2023 9:41:00 AM N	4/21/2023 10:57:00 AM N	4/18/2023 1:59:00 PM N	4/12/2023 2:03:00 PM N
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		0 #	0 #	0.103 #	0 #	2.56	0.0508 #	0 #	0.160 #	0.888 #	10.1	6.87	39.9
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
Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0177 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238			ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.429	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.150 J
Total Uranium Isotopes	30		ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.447	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.150 J
Fluoride	4		mg/L		< 0.10	< 0.10	< 0.10	< 0.10	0.15	< 0.10	< 0.10	< 0.10	< 0.10	0.18	< 0.10	1.9
Nitrate as N	10		mg/L		2.2	2.3	< 0.020	1.3	< 0.020	5.5	< 0.020	< 0.020	< 0.020	2.6	9.5	1.5
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
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
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
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
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
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-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
cis-1,2-Dichloroethene	70		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.2	2.8	0.48 J	0.83 J	< 1.0	1.5
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
1,2-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
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
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
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
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(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
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		0.78 J	0.59 J	< 1.0	< 1.0	< 1.0	26	< 1.0	< 1.0	0.89 J	4.7	< 1.0	11
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.6	< 1.0	< 1.0	1.7	1.4	< 1.0	1.8
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
Vinyl chloride	2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	2.7	< 1.0	< 1.0	< 1.0	< 1.0
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-100	W-102	W-103	W-104	W-105	W-106	W-107	W-108	W-109	W-110	W-111	W-112
				Date Type	4/12/2023 2:52:00 PM N	4/11/2023 9:46:00 AM N	4/10/2023 10:38:00 AM N	4/20/2023 1:25:00 PM N	4/19/2023 1:27:00 PM N	4/13/2023 1:13:00 PM N	4/24/2023 11:37:00 AM N	4/21/2023 10:37:00 AM N	4/21/2023 11:28:00 AM N	4/21/2023 1:18:00 PM N	4/24/2023 10:45:00 AM N	4/21/2023 1:43:00 PM N
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		1.98 #	89.8	30.6	4.28	0 #	2.34 #	0 #	1.75 #	0 #	0.468 #	1.16 #	0.667 #
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
Uranium-235			ug/L		< 0.0700	0.0241 J	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Uranium-238			ug/L		0.104 J	1.30	< 0.200	< 0.200	0.0809 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.179 J	0.231
Total Uranium Isotopes	30		ug/L		0.104 J	1.32	< 0.200	< 0.200	0.0809 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.179 J	0.231
Fluoride	4		mg/L		0.39	2.9	< 0.10	< 0.10	0.32	0.14	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nitrate as N	10		mg/L		1.6	91	8.4	4.7	0.059	0.17	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20
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
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
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
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-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
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
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
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
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
1,2-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
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
1,2-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
1,2-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
1,3-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
1,4-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
1,1-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
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
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
1,1-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
cis-1,2-Dichloroethene	70		ug/L		< 1.0	4.1	0.79 J	< 1.0	< 1.0	< 1.0	< 1.0	1.1	2.4	< 1.0	< 1.0	< 1.0
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
1,2-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
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
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
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
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
(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
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
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
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
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
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
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
1,1,2,2-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
Tetrachloroethene	5		ug/L		< 1.0	41	27	2.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
1,1,2-Trichloro-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
1,2,4-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
1,1,1-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
1,1,2-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
Trichloroethene	5		ug/L		< 1.0	6.0	5.4	1.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
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
Vinyl chloride	2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	3.4	1.2	0.43 J	< 1.0	< 1.0	< 1.0
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

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Analyte	MCL	note	Units	Well	W-113	W-114	W-115	W-116	W-117	W-118	W-119	W-120	W-121	W-122	W-123	W-123
				Date Type	4/7/2023 9:04:00 AM N	4/7/2023 10:25:00 AM N	4/7/2023 11:17:00 AM N	4/7/2023 12:31:00 PM N	4/7/2023 1:54:00 PM N	4/7/2023 2:03:00 PM N	4/14/2023 8:22:00 AM N	4/7/2023 9:25:00 AM N	4/7/2023 10:32:00 AM N	4/13/2023 8:50:00 AM N	4/6/2023 9:13:00 AM N	4/6/2023 9:13:00 AM FD
Alpha particles	15	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beta particles	50	*	pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tritium			pCi/L		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Technetium-99	900		pCi/L		0 #	0.463 #	0.252 #	0.155 #	0.211 #	0.669 #	1.09 #	2.06 #	3.18 #	0.976 #	260	490
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
Uranium-235			ug/L		< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0133 J	0.0117 J
Uranium-238			ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.554	< 0.200	< 0.200	1.73	1.65
Total Uranium Isotopes	30		ug/L		< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.554	< 0.200	< 0.200	1.74	
Fluoride	4		mg/L		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	8.3	8.3
Nitrate as N	10		mg/L		2.5	1.3	3.2	4.4	2.2	2.9	1.5	3.0	1.8	0.030	130	120
Acetone			ug/L		< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 100	< 20	< 20	< 20	< 20
Benzene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0
2-Butanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10
Carbon disulfide			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Carbon tetrachloride	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Cyclohexane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	0.2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	0.05		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	600		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	75		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			ug/L		< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0
1,2-Dichloroethane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	7		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,2-Dichloroethene	70		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	1.8	1.7
trans-1,2-Dichloroethene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
cis-1,3-Dichloropropene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
trans-1,3-Dichloropropene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	700		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Hexanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10
(1-Methylethyl)-Benzene			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl acetate			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Methyl tert-butyl ether			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Methyl-2-pentanone			ug/L		< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 50	< 10	< 10	< 10	< 10
Methylcyclohexane			ug/L		< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0
Methylene chloride	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	100		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	0.47 J	4.9	52	53	260	5.0	< 1.0	29	28
Toluene	1000		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	70		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	200		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	5		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6	2.6	11	< 1.0	< 1.0	9.7	9.5
Trichlorofluoromethane			ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	2		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylenes, Total	10000		ug/L		< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0

Attachment A - April 2023 Groundwater Analytical Results  
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

				Well	W-124	W-125	W-126
				Date	4/21/2023 9:43:00 AM	4/19/2023 2:22:00 PM	4/20/2023 10:20:00 AM
				Type	N	N	N
Analyte	MCL	note	Units				
Alpha particles	15	*	pCi/L	NA	NA	NA	NA
Beta particles	50	*	pCi/L	NA	NA	NA	NA
Tritium			pCi/L	NA	NA	NA	NA
Technetium-99	900		pCi/L	5.67	2.17 #	0.558 #	
Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	
Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	
Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	
Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	
Fluoride	4		mg/L	< 0.10	0.18	< 0.10	
Nitrate as N	10		mg/L	< 0.020	0.10	< 0.020	
Acetone			ug/L	< 20	< 20	< 20	
Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	
Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	
Bromoform			ug/L	< 1.0	< 1.0	< 1.0	
Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	
2-Butanone			ug/L	< 10	< 10	< 10	
Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	
Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	
Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	
Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	
Chloroform			ug/L	< 1.0	< 1.0	< 1.0	
Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	
Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	
1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 1.0	< 1.0	
Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	
1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	
1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	
1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	
1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	
Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	
1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	
1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	
cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	0.56 J	
trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	
1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	
cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	
trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	
Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	
2-Hexanone			ug/L	< 10	< 10	< 10	
(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	
Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	
Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	
4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	
Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	
Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	
Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	
1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	
Tetrachloroethene	5		ug/L	< 1.0	< 1.0	0.43 J	
Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	
1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	
1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	
1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	
Trichloroethene	5		ug/L	< 1.0	< 1.0	1.8	
Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	
Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	
Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	

Notes:

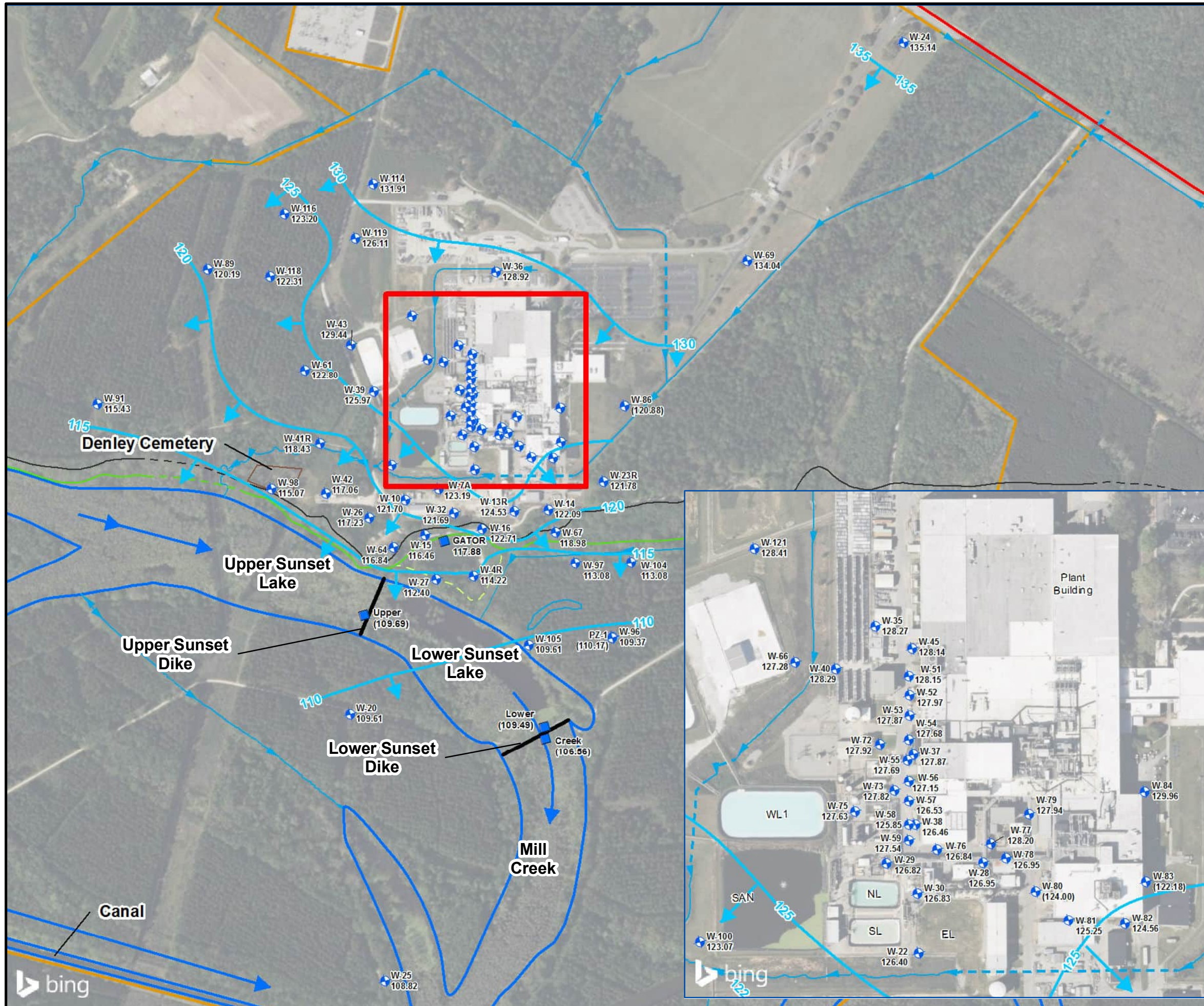
- MCL - Maximum Contaminant Level
- Concentrations in orange shaded cells exceed their MCL
- \* - site-specific action level
- Bold concentrations indicate detections
- J - Result below reporting limit
- NA - not analyzed
- # - value is below minimum detectable concentration
- ## - value shown as zero 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

## **Attachment B**

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April 2023 Groundwater Sampling Event Potentiometric and Plume Figures





**Legend**

- Surficial Aquifer - Upper Zone Monitoring Well
- Mill Creek
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Culvert
- Ditch
- Mill Creek Flow Direction
- Dike Location
- Staff Gauge Location
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon I
- WL2 West Lagoon II
- Potentiometric Line (C.I. = 5 feet)
- Direction of Groundwater
- 127.28 Groundwater Elevation
- (120.88) Elevation for illustrative purposes only

Based upon data collected on April 3, 2023

0 300 600 Feet  
1:7,200

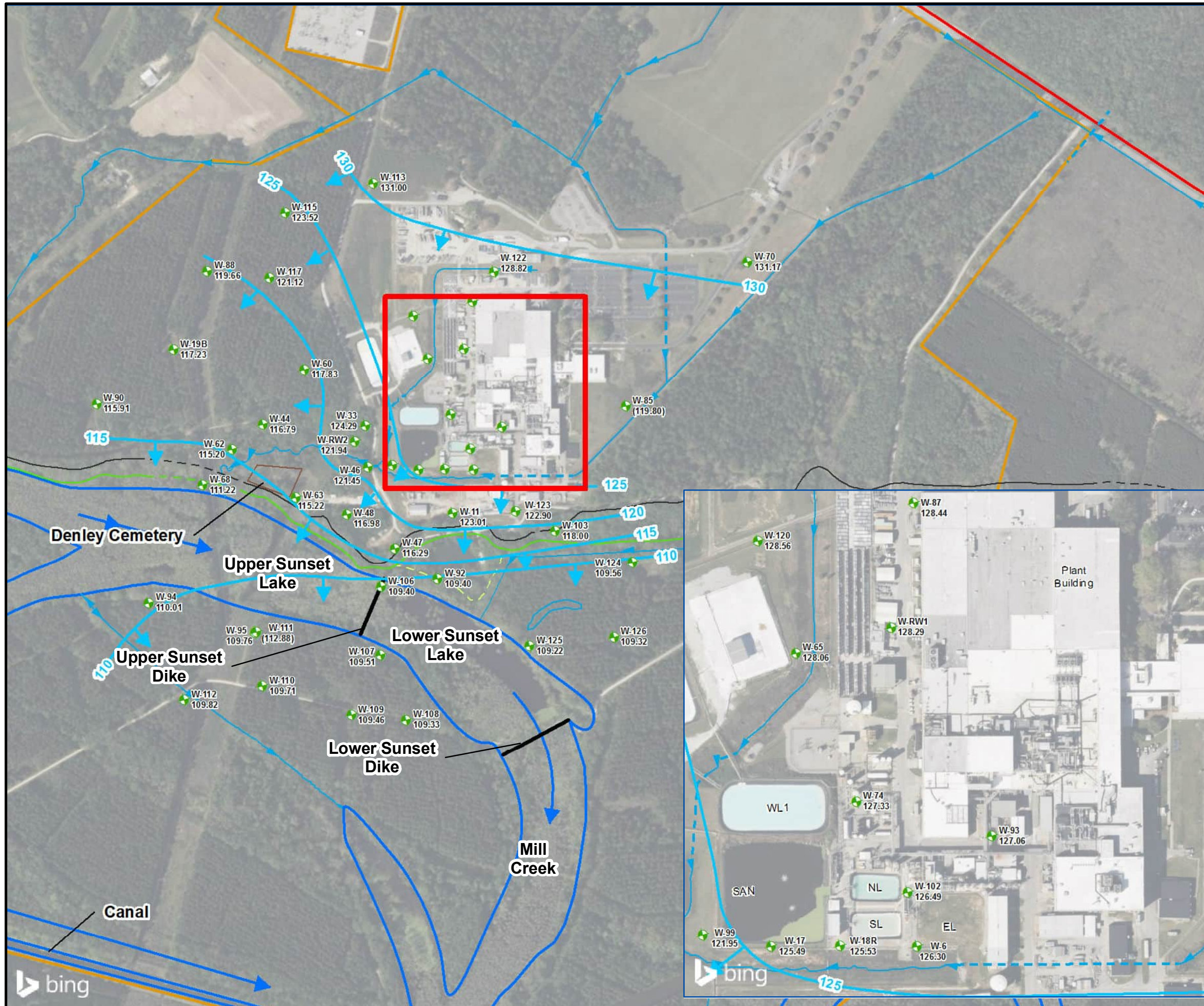
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983

**AECOM** 101 Research Drive  
Columbia, SC 29203  
T: (803) 254-4400 F: (803) 771-6676

**Surficial Aquifer - Upper Zone Potentiometric Map April 2023**  
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B1</b>
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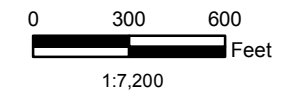




**Legend**

- Surficial Aquifer - Lower Zone Monitoring Well
- Mill Creek
- Property Line
- SCRDI Bluff Road (Superfund Site)
- Culvert
- Ditch
- Mill Creek Flow Direction
- Dike Location
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon I
- WL2 West Lagoon II
- Potentiometric Line (C.I. = 5 feet)
- Direction of Groundwater
- 128.00 Groundwater Elevation
- (119.80) Elevation for illustrative purposes only

Based upon data collected on April 3, 2023



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983



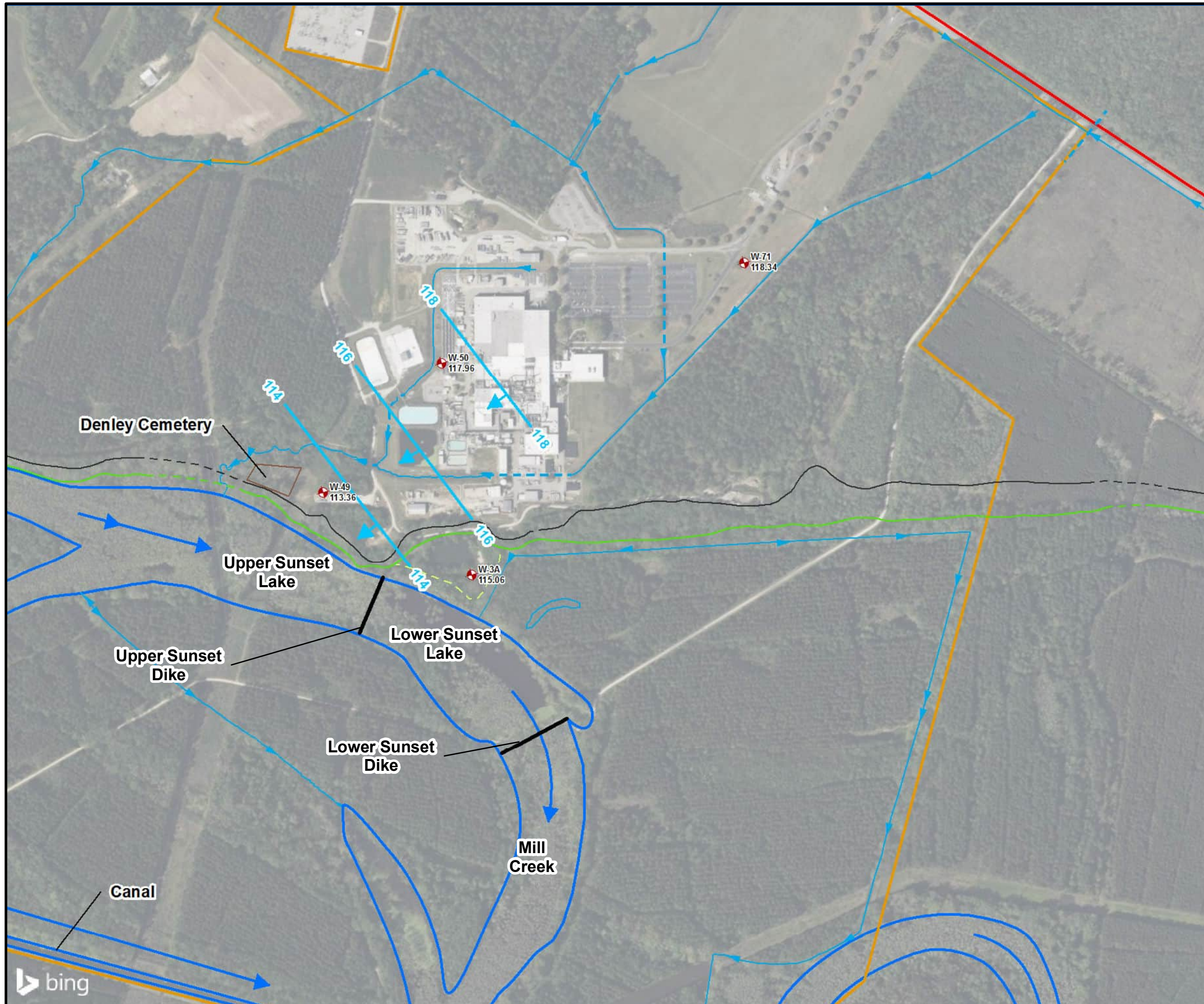
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**Surficial Aquifer - Lower Zone Potentiometric Map April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B2</b>
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- Legend**
- Black Creek Aquifer Monitoring Well
  - Mill Creek
  - Property Line
  - SCRDI Bluff Road (Superfund Site)
  - Culvert
  - Ditch
  - Mill Creek Flow Direction
  - Dike Location
  - Top of Bluff
  - Inferred Top of Bluff
  - Bottom of Bluff
  - Inferred Bottom of Bluff
  - Secondary Bluff Area
  - EL Former East Lagoon
  - NL North Lagoon
  - SL South Lagoon
  - SAN Sanitary Lagoon
  - WL1 West Lagoon I
  - WL2 West Lagoon II
  - Potentiometric Line (C.I. = 2 feet)
  - Direction of Groundwater
  - 115.06 Groundwater Elevation
- Based upon data collected on April 3, 2023



Map Projection: NAD 1983, South Carolina State Plane,  
FIPS 3900, Feet

Datum: North American 1983



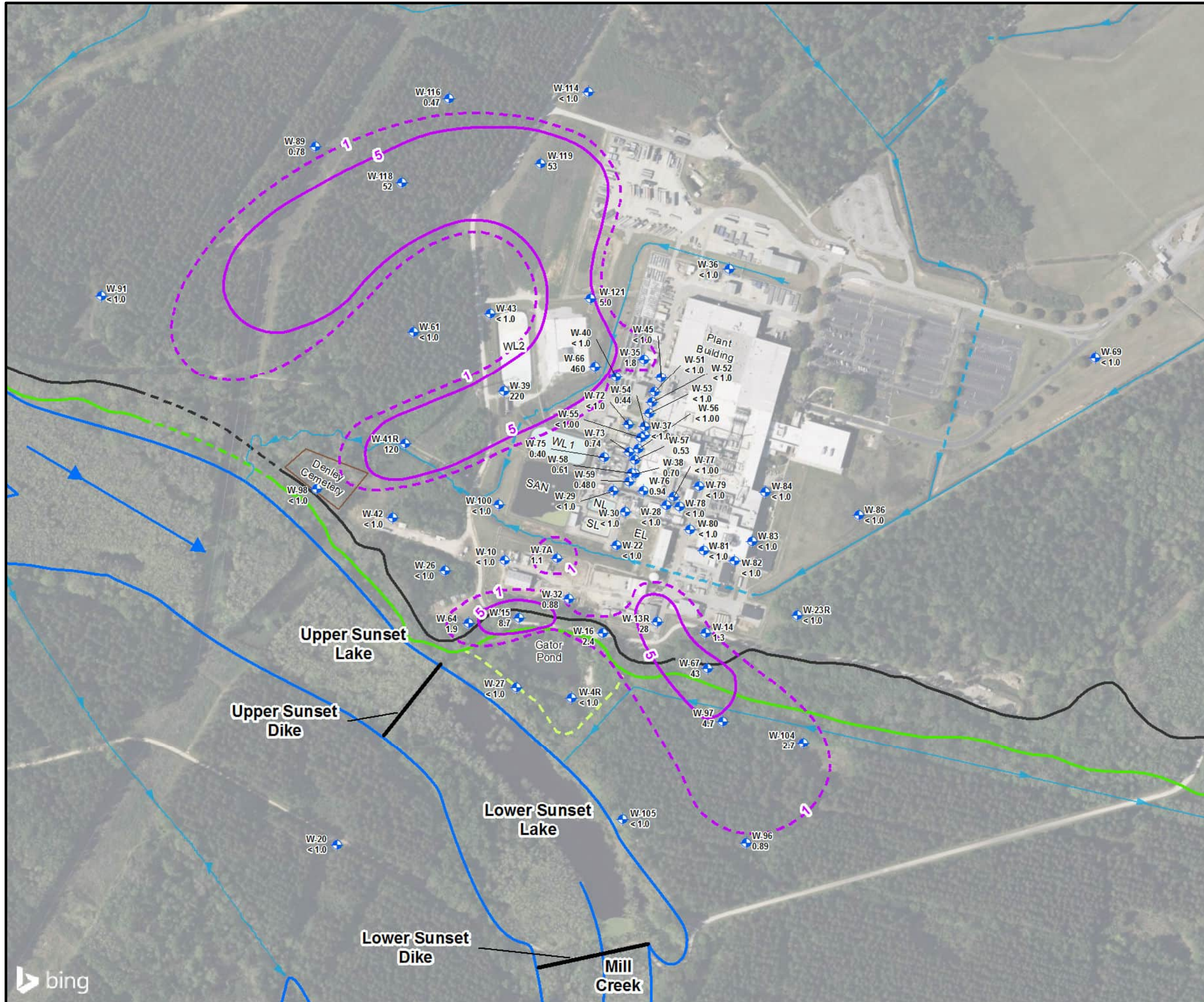
<b>AECOM</b>	101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676
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**Black Creek Aquifer  
Potentiometric Map April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60700380	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B3</b>
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**Legend**

- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek
- Mill Creek Flow Direction
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)

460 PCE Concentration in µg/L  
 EL Former East Lagoon  
 NL North Lagoon  
 SL South Lagoon  
 SAN Sanitary Lagoon  
 WL1 West Lagoon 1  
 WL2 West Lagoon 2

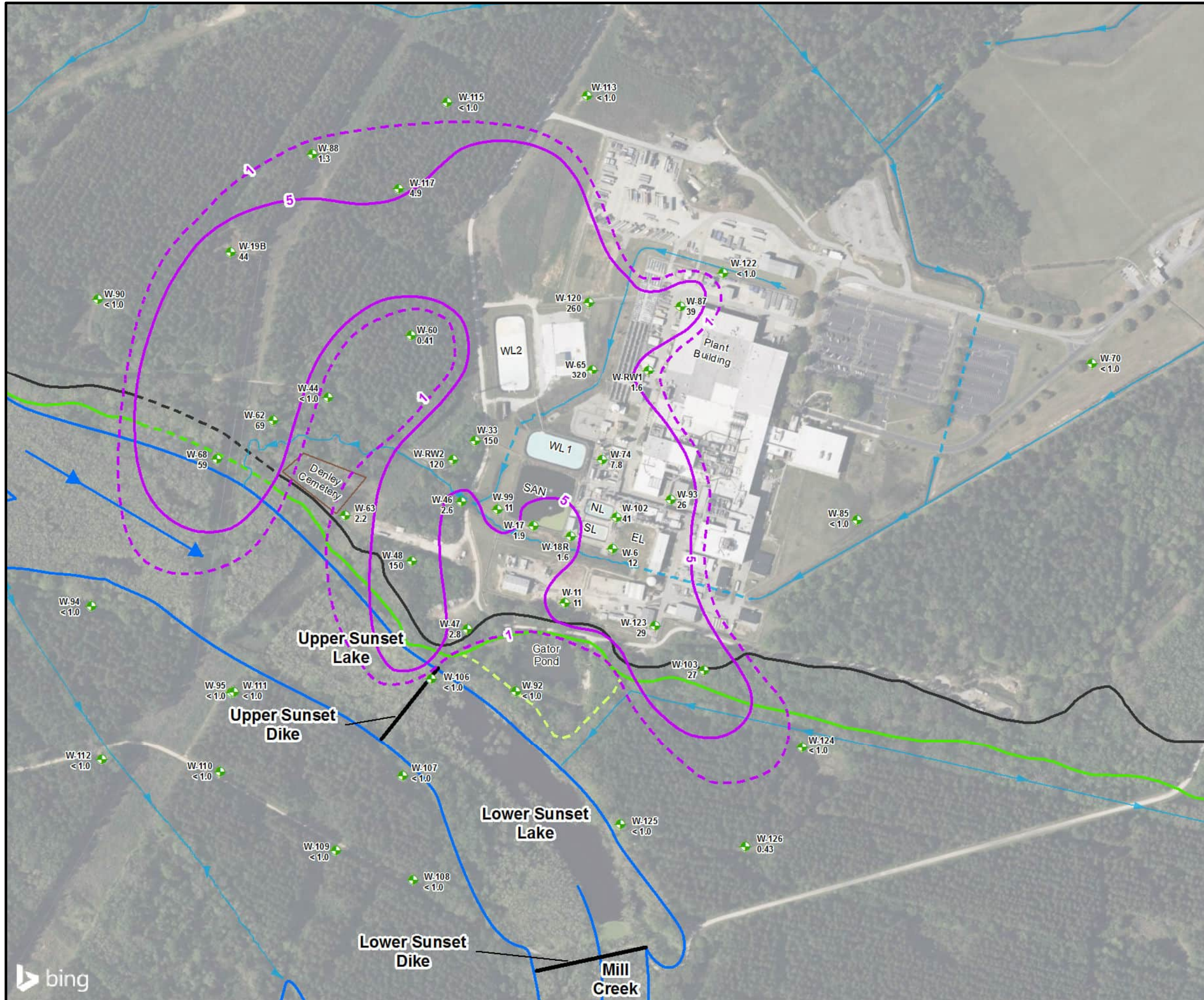
**Notes:**  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983

		101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676	
<b>Extent of PCE - Surficial Aquifer - Upper Zone April 2023</b>			
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA			
PROJECT NO: 60641050	PREPARED BY: CCS	DATE: July 2023	<b>FIGURE B4</b>





**Legend**

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)

320 PCE Concentration in µg/L  
 EL Former East Lagoon  
 NL North Lagoon  
 SL South Lagoon  
 SAN Sanitary Lagoon  
 WL1 West Lagoon 1  
 WL2 West Lagoon 2

**Notes:**  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983

**AECOM**

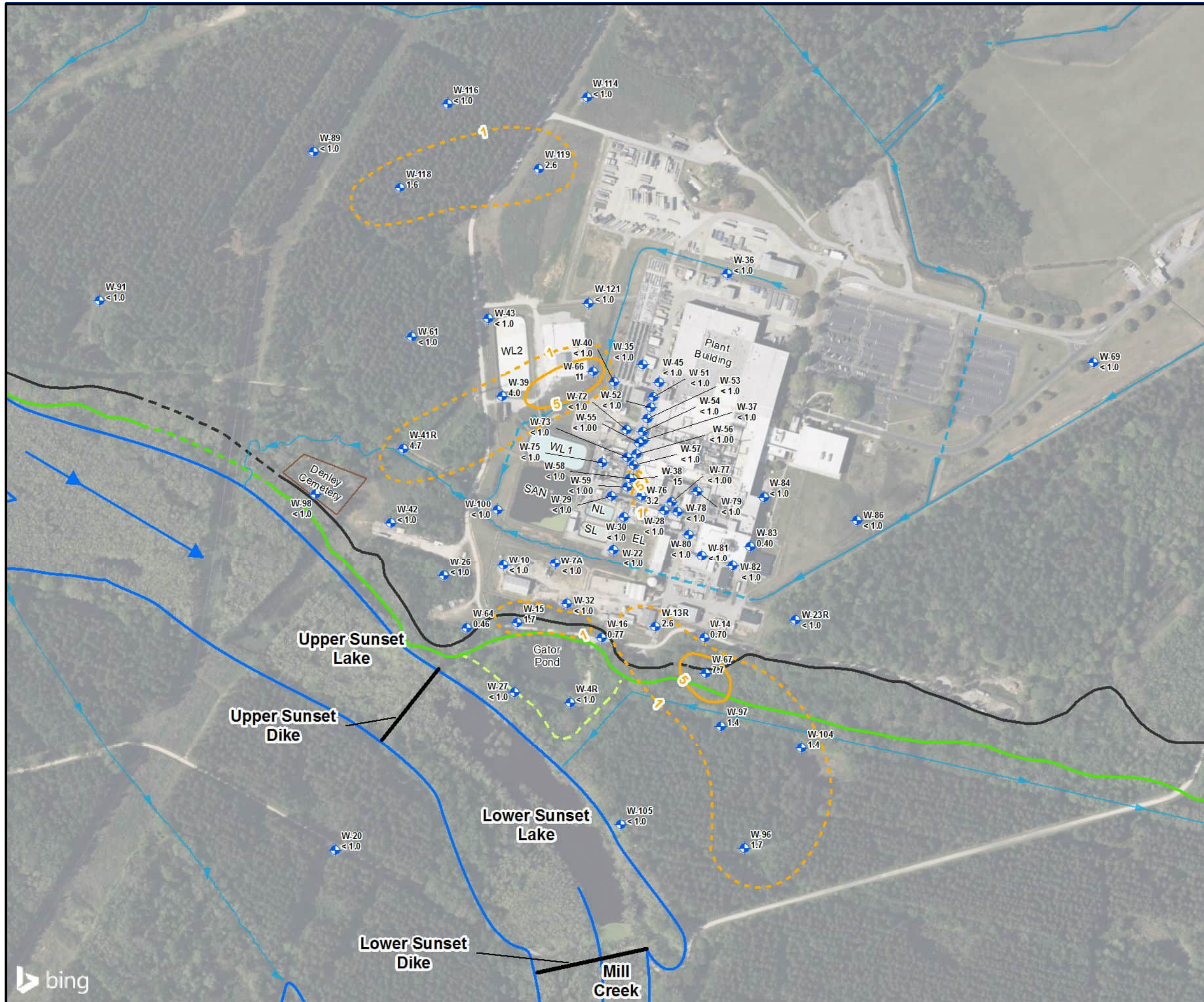
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**Extent of PCE  
 Surficial Aquifer - Lower Zone  
 April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: July 2023	<b>FIGURE B5</b>
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- Legend**
- Surficial Aquifer - Upper Zone Monitoring Well
  - Ditch
  - Culvert
  - Dike Location
  - Mill Creek Flow Direction
  - Mill Creek
  - Top of Bluff
  - Inferred Top of Bluff
  - Bottom of Bluff
  - Inferred Bottom of Bluff
  - Secondary Bluff Area
  - TCE Isoconcentration Contour (5 ug/L)
  - TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 15 TCE Concentration in ug/L  
 J Result below reporting limit  
 EL Former East Lagoon  
 NL North Lagoon  
 SL South Lagoon  
 SAN Sanitary Lagoon  
 WL1 West Lagoon 1  
 WL2 West Lagoon 2

**Notes:**  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983

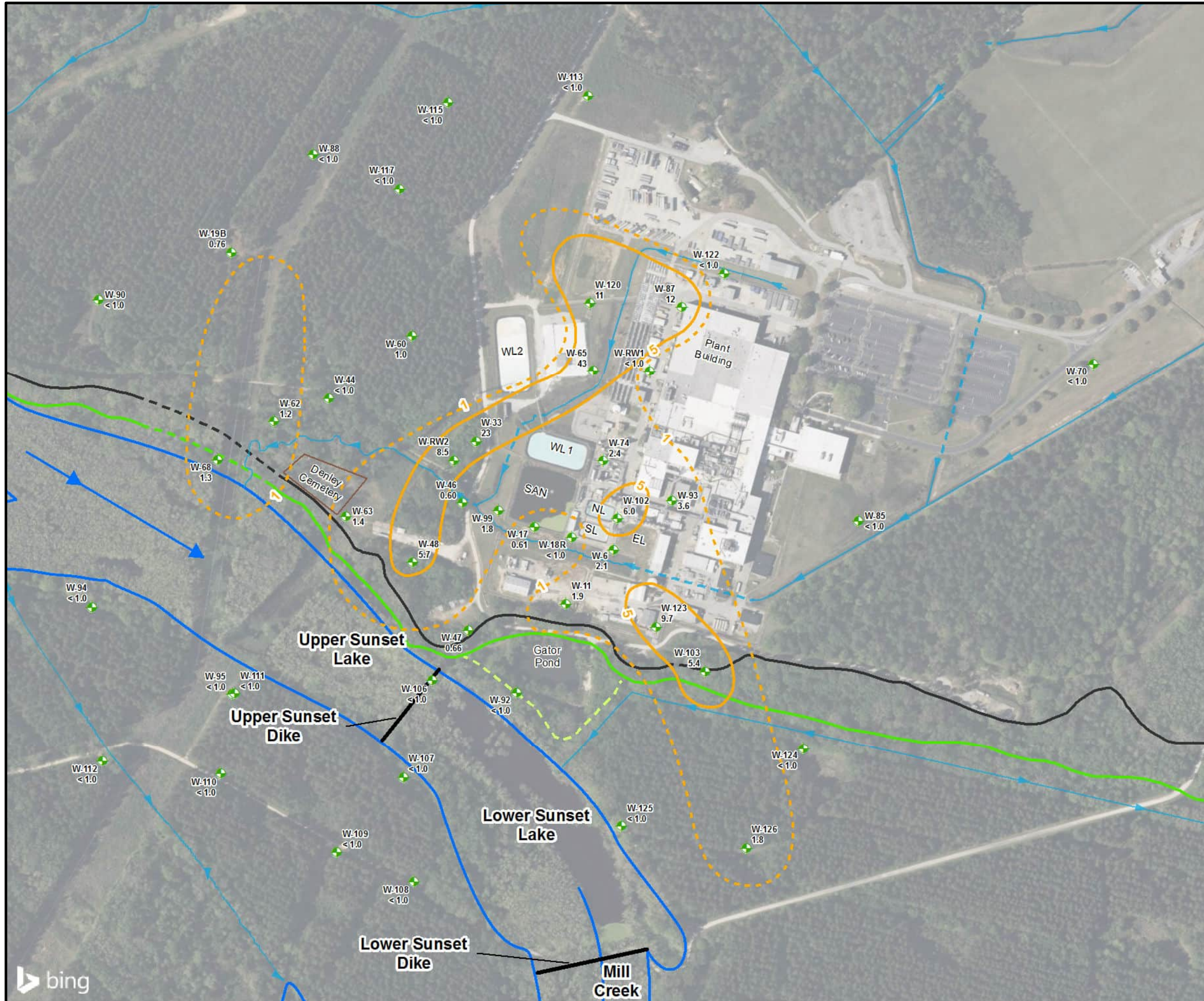
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**Extent of TCE  
 Surficial Aquifer - Upper Zone  
 April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B6</b>
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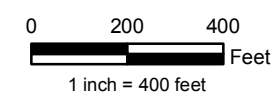


**Legend**

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- TCE Isoconcentration Contour (5 ug/L)
- TCE Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 43 TCE Concentration in ug/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

**Notes:**

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
Datum: North American 1983



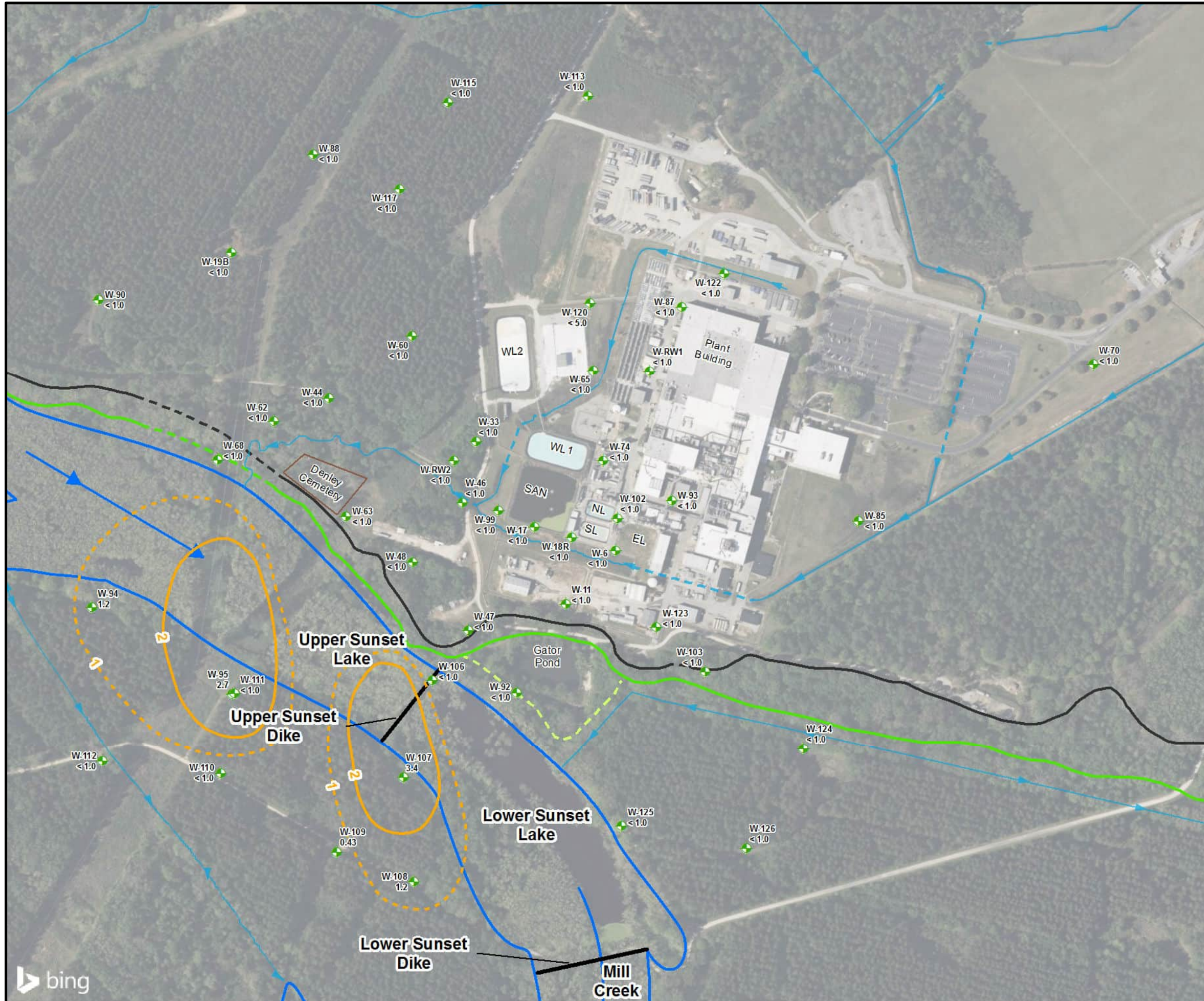
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**Extent of TCE  
Surficial Aquifer - Lower Zone  
April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: July 2023	<b>FIGURE B7</b>
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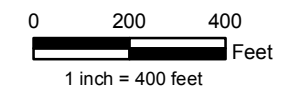


**Legend**

- Surficial Aquifer - Lower Zone Monitoring Well
- Ditch
- Culvert
- Ditch
- Mill Creek Flow Direction
- Mill Creek
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- VC Isoconcentration Contour (2 ug/L)
- VC Isoconcentration Contour at or Above the Detection Limit (ug/L)
- 3.4 VC Concentration in ug/L
- J Result below reporting limit
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

**Notes:**

Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet

Datum: North American 1983

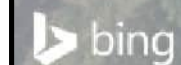


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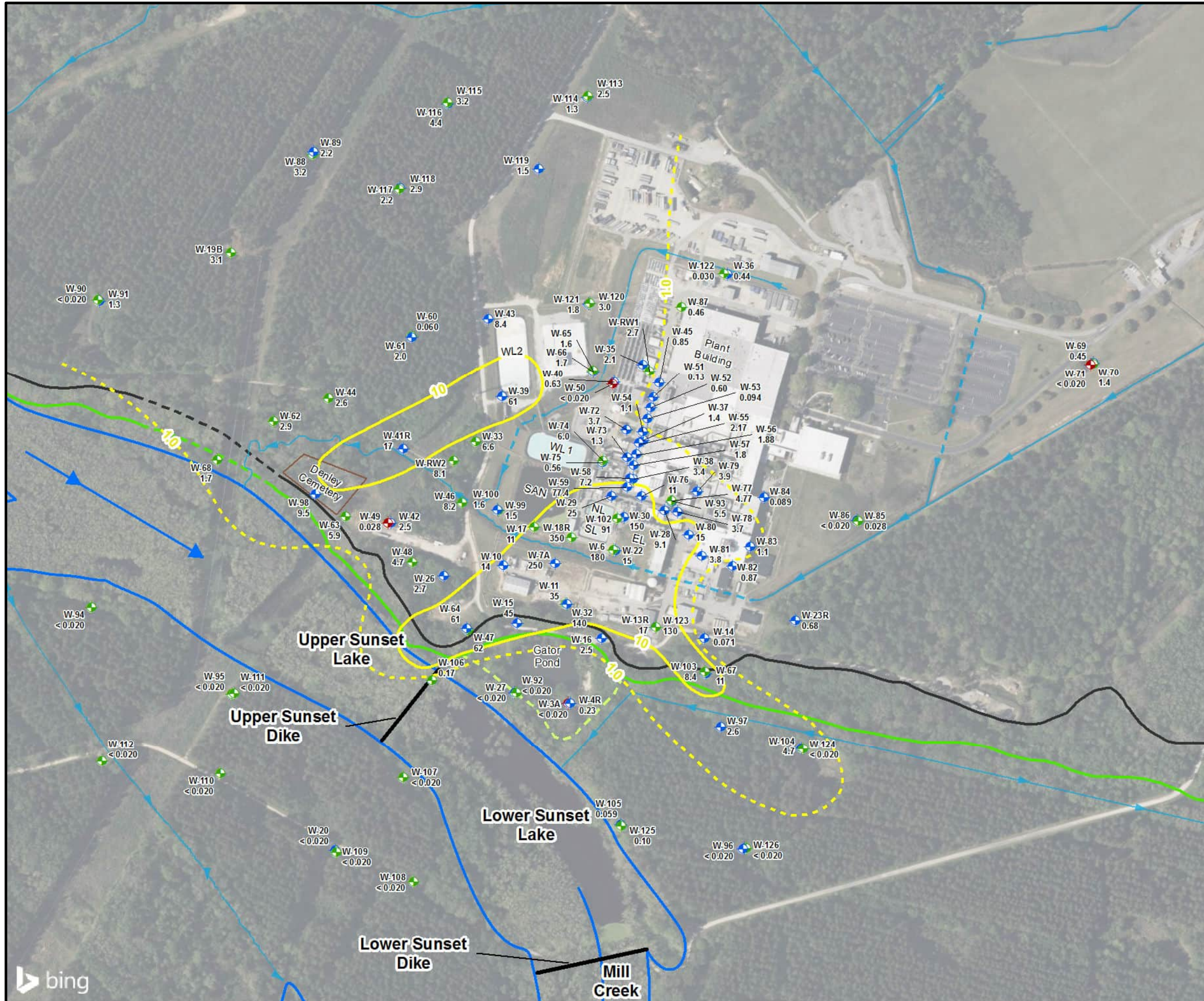
**Extent of VC  
Surficial Aquifer - Lower Zone  
April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B8</b>
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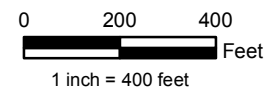




**Legend**

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
  - ◆ Surficial Aquifer - Lower Zone Monitoring Well
  - ◆ Black Creek Aquifer Monitoring Well
  - Ditch
  - - - Culvert
  - Dike Location
  - ▶ Mill Creek Flow Direction
  - Mill Creek
  - Top of Bluff
  - Inferred Top of Bluff
  - Bottom of Bluff
  - Inferred Bottom of Bluff
  - Secondary Bluff Area
  - Nitrate Isoconcentration Contour (10 mg/L)
  - Nitrate Isoconcentration Contour at or Above the Detection Limit (mg/L)
- 15 Nitrate Concentration in mg/L
- EL Former East Lagoon
- NL North Lagoon
- SL South Lagoon
- SAN Sanitary Lagoon
- WL1 West Lagoon 1
- WL2 West Lagoon 2

Notes:  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.



Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983

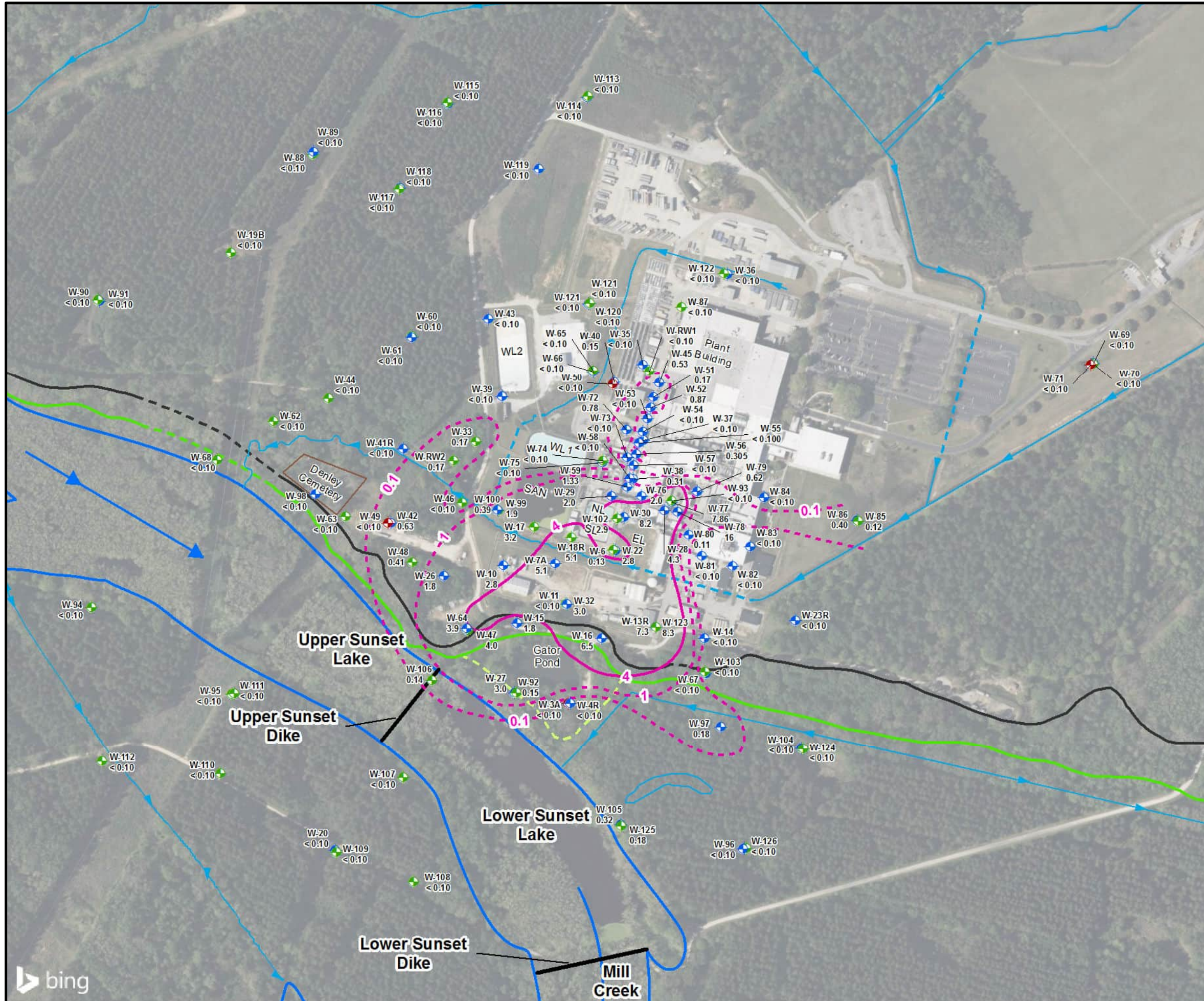
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**Extent of Nitrate in Groundwater  
 April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B9</b>
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**Legend**

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- ➔ Mill Creek Flow Direction
- ▭ Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- - - Secondary Bluff Area
- Fluoride Isoconcentration Contour (4 mg/L)
- - - Fluoride Isoconcentration Contour at or Above the Detection Limit (mg/L)

16 Fluoride Concentration in mg/L  
 EL Former East Lagoon  
 NL North Lagoon  
 SL South Lagoon  
 SAN Sanitary Lagoon  
 WL1 West Lagoon 1  
 WL2 West Lagoon 2

Notes:  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 NAD: North American Datum 1983

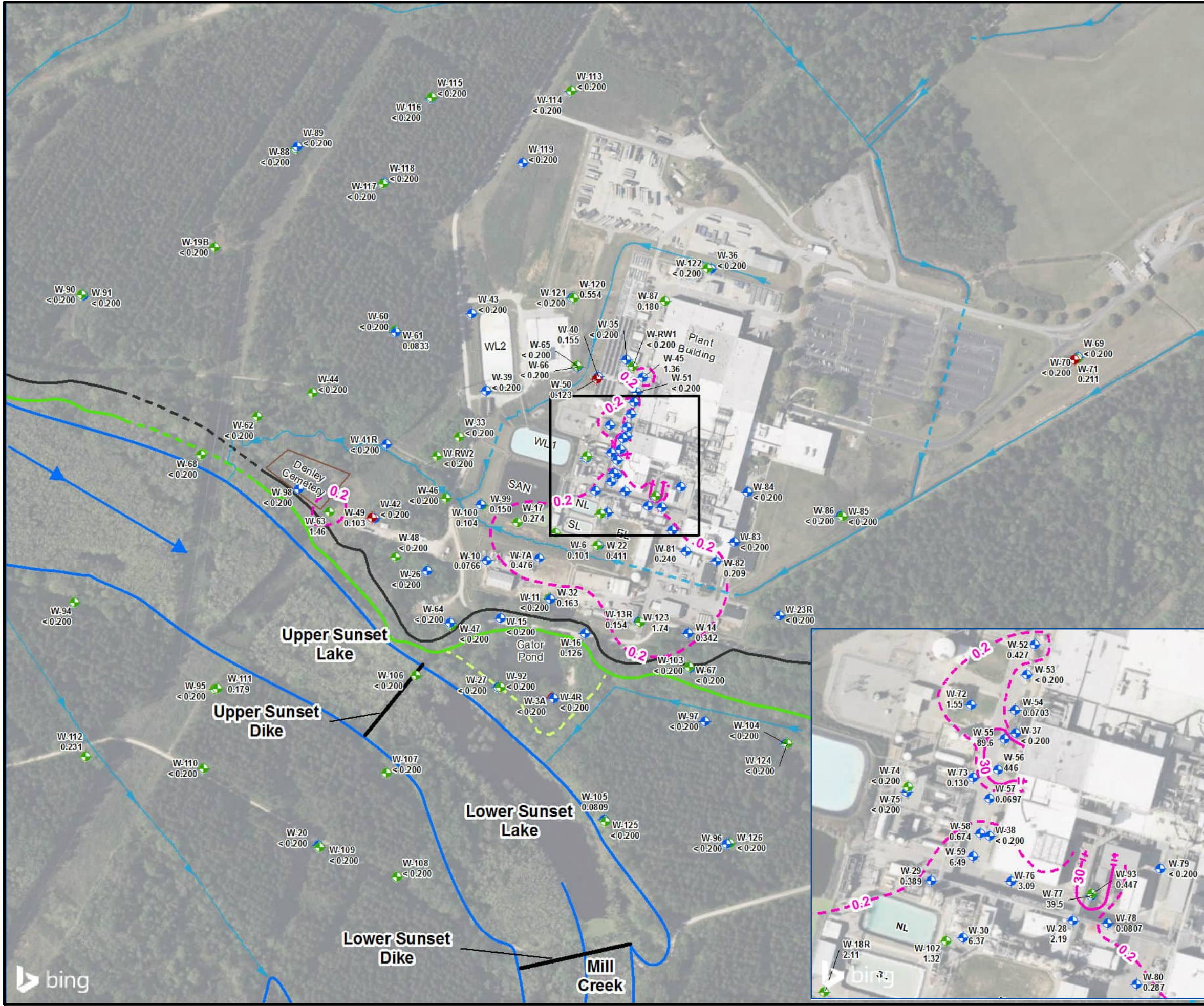
<b>AECOM</b>	101 Research Drive Columbia, SC 29203 T: (803) 254-4400 F: (803) 771-6676

**Extent of Fluoride in Groundwater  
 April 2023**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: July 2023	<b>FIGURE B10</b>
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- Legend**
- ◆ Surficial Aquifer - Upper Zone Monitoring Well
  - ◆ Surficial Aquifer - Lower Zone Monitoring Well
  - ◆ Black Creek Aquifer Monitoring Well
  - Ditch
  - - - Culvert
  - Dike Location
  - ▶ Mill Creek Flow Direction
  - ▭ Mill Creek
  - Top of Bluff
  - - - Inferred Top of Bluff
  - Bottom of Bluff
  - - - Inferred Bottom of Bluff
  - - - Secondary Bluff Area
  - Uranium Isoconcentration Contour (30 µg/L)
  - - - Uranium Inferred Isoconcentration Contour (µg/L)
  - - - Uranium Isoconcentration Contour at or Above the Minimum Detectible Concentration (µg/L)
- 446 Total Uranium in µg/L
  - J Result below reporting limit
  - EL Former East Lagoon
  - NL North Lagoon
  - SL South Lagoon
  - SAN Sanitary Lagoon
  - WL1 West Lagoon 1
  - WL2 West Lagoon 2

Notes:  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983



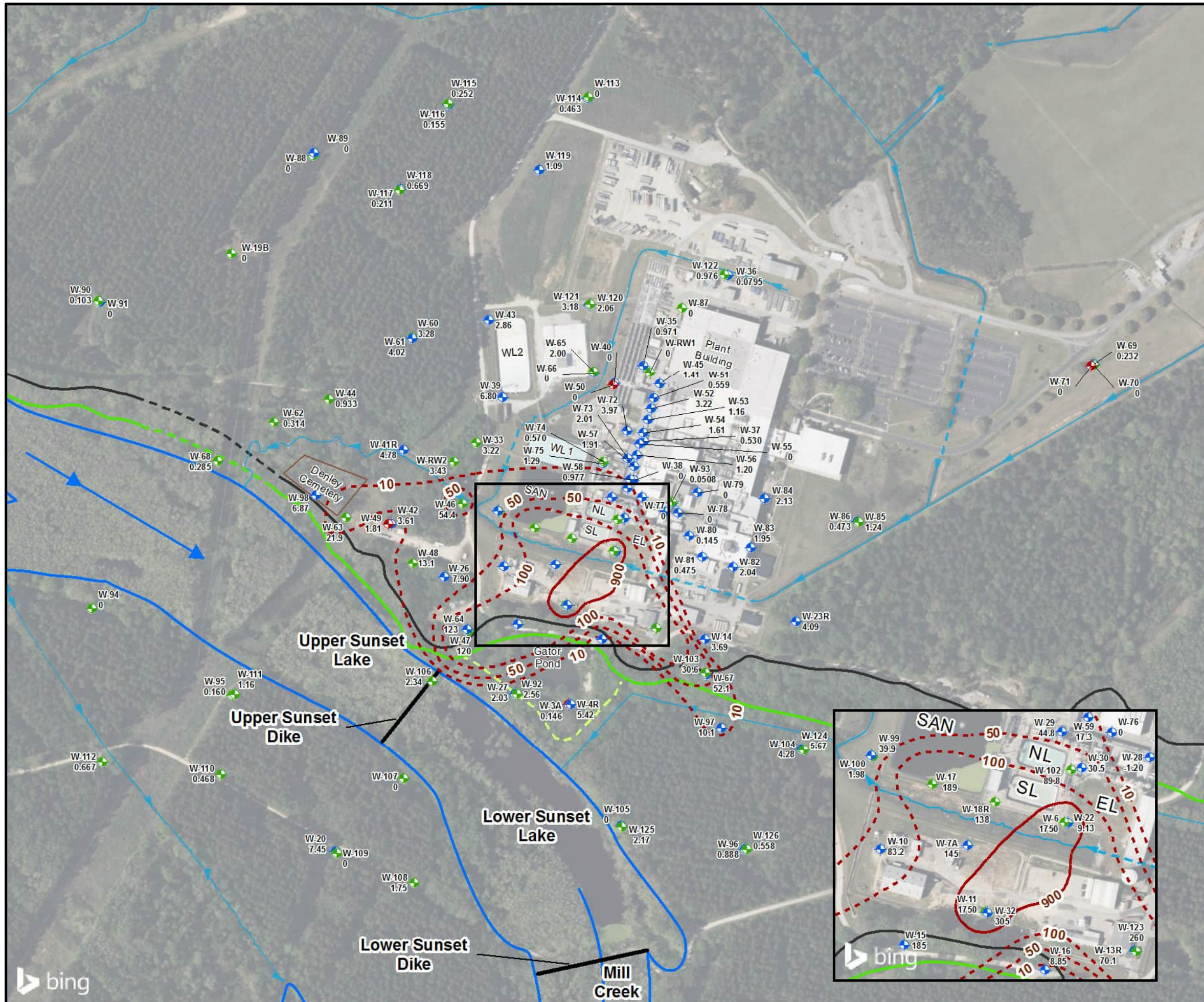
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## Extent of Uranium in Groundwater April 2023

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: June 2023	<b>FIGURE B11</b>
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### Legend

- ◆ Surficial Aquifer - Upper Zone Monitoring Well
- ◆ Surficial Aquifer - Lower Zone Monitoring Well
- ◆ Black Creek Aquifer Monitoring Well
- Ditch
- - - Culvert
- Dike Location
- ▶ Mill Creek Flow Direction
- ▭ Mill Creek
- Top of Bluff
- - - Inferred Top of Bluff
- Bottom of Bluff
- - - Inferred Bottom of Bluff
- - - Secondary Bluff Area
- Tc-99 Isoconcentration Contour (10 pCi/L)
- - - Tc-99 Isoconcentration Contour at or Above the Minimum Detectable Concentration (pCi/L)

1,750 Technetium-99 Concentration in pCi/L

0 Concentration reported as a negative number by the analytical laboratory

EL Former East Lagoon  
 NL North Lagoon  
 SL South Lagoon  
 SAN Sanitary Lagoon  
 WL1 West Lagoon 1  
 WL2 West Lagoon 2

Notes:  
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

0 200 400  
 Feet  
 1 inch = 400 feet

Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet  
 Datum: North American 1983

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## Extent of Technetium-99 in Groundwater April 2023

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY  
HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: July 2023	FIGURE B12
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