



Westinghouse Electric Company
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USA

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Your ref:
Our ref: LTR-RAC-23-14

February 10, 2023

Subject: **January** 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 **January 10, 2023**. The following progress report is for work occurring from **January 1- 31, 2023**:

- (a) Actions during the previous month:

In accordance with the **Feasibility Study (FS) Work Plan, Item 7** of the CA, Westinghouse began preliminary work as follows:

- AECOM continued work to develop the groundwater flow model.
- Submitted an annual update to the State Historic Preservation Office and other interested parties on January 11, 2023 (LTR-RAC-23-02) stating there were no activities involving cultural resources at the Westinghouse site in 2022.

(b) Results of sampling and tests:

- **Semi-annual Groundwater Sampling, October 2022 (118 wells)**
Groundwater Resampling Event, January 2023 (26 wells)

Tabulated October 2022 groundwater analytical results are included as **Attachment A**. Also included in **Attachment A** are results from the January 2023 resampling event. Some groundwater samples from October 2022 were analyzed outside of holding because of issues at the external lab (particularly for fluoride). Westinghouse resampled some of the affected wells in January to validate the lab data used for plume map development. In January, 21 wells were resampled for fluoride and 5 wells were resampled for tetrachloroethylene. Results for samples analyzed outside the hold times are denoted in the table with a purple font alongside the January resample data. Potentiometric and plume figures from the October 2022 groundwater sampling campaign are included as **Attachment B**. Figures affected by the lab issues where resample data was used are identified in the figure notes.

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

To support continued groundwater data collection and analysis from the site:

- Preparation of the consolidated sealand project addendum to the draft RI report is approximately 85% complete, and the *Final* Remedial Investigation Report will be submitted in February.

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

- 100% of the **RI Report** scope is completed.
- 100% of Phase II **field** work scope completed.
- 25% of the **Groundwater Flow Model** 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
P. Donnelly, Regulatory Affairs Manager
ENOVIA Records

Attachment A: October 2022 Groundwater Analytical Results (118 wells)
January 2023 Groundwater Resampling Analytical Results (26 wells)
Attachment B: October 2022 Groundwater Sampling Event Potentiometric and Plume Figures

Attachment A

Groundwater Analytical Results

October 2022 (118 wells)

January 2023 Resampling Event (26 wells)

Fluoride	W-6, W-7A, W-10, W-13R, W-14, W-17, W-18R, W-22, W-28, W-29, W-30, W-32, W-59, W-76, W-77, W-78, W-79, W-80, W-93, W-102, and W-123
PCE	W-33, W-39, W-65, W-66, and W-120

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well Date Type	W-RW1 10/12/2022 N	W-RW2 10/17/2022 N	W-RW2 10/17/2022 FD	W-3A 10/20/2022 N	W-4R 10/20/2022 N	W-6 10/17/2022 N	W-6 1/5/2023 FD	W-6 1/5/2023 FD	W-7A 10/4/2022 N	W-7A 1/3/2023 N	W-10 10/6/2022 N	W-10 1/3/2023 N	W-11 10/4/2022 N	W-13R 10/4/2022 N	W-13R 1/3/2023 N	W-14 10/17/2022 N	W-14 1/5/2023 N	W-15 10/17/2022 N
Radiological	Alpha particles	15	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	4.14	NA	0.281 #	NA	NA	1.93 #	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	3.39 #	5.50	NA	NA	NA	NA	NA	85.8	NA	64.9	NA	NA	48.9	NA	NA	NA	125
Radiological	Tritium			pCi/L	NA	60.9 #	171 #	NA	NA	NA	NA	NA	189 #	NA	15.1 #	NA	NA	152 #	NA	NA	NA	0 #
Radiological	Technetium-99	900		pCi/L	2.72 #	8.92	9.47	0 #	0.693 #	2380	NA	NA	134	NA	91.6	NA	1530	105	NA	2.02 #	NA	231
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	< 0.0500	NA	< 0.0500	NA	< 0.0500	< 0.0500	NA	< 0.0500	NA	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	< 0.0700	NA	< 0.0700	NA	< 0.0700	< 0.0700	NA	< 0.0700	NA	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.175 J	NA	NA	0.477	NA	0.0995 J	NA	< 0.200	0.108 J	NA	0.251	NA	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.175 J	NA	NA	0.477	NA	0.0995 J	NA	< 0.200	0.108 J	NA	0.251	NA	< 0.200
Chemical	Fluoride	4		mg/L	< 0.10	0.14	0.16	< 0.10	0.11	0.11	0.24	0.24	6.1	5.9	3.1	3.3	< 0.10	9.8	8.9	< 0.10	< 0.10	1.9
Chemical	Nitrate as N	10		mg/L	1.8	13	13	< 0.020	0.037	7.4	NA	NA	310	NA	24	NA	35	19	NA	0.22	NA	45
VOCs	Acetone			ug/L	< 20	< 25.0	< 25.0	< 25.0	< 25.0	< 20	NA	NA	< 20	NA	< 20	NA	< 20	< 20	NA	< 25.0	NA	< 25.0
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	< 10	NA	< 10	NA	< 10	< 10	NA	< 5.0	NA	< 5.0
VOCs	Carbon disulfide			ug/L	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 2.0	NA	< 2.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	NA	< 1.0	NA	< 1.0
VOCs	Chloroform			ug/L	< 1.0	1.3	1.3	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 2.0	NA	< 2.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	NA	< 1.0	NA	< 1.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	2.2	2.3	< 1.0	< 1.0	2.9	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	0.4 J	NA	1
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	< 10	NA	< 10	NA	< 10	< 10	NA	< 5.0	NA	< 5.0
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 10.0	< 10.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 10.0	NA	< 10.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	NA	< 10	NA	< 10	NA	< 10	< 10	NA	< 5.0	NA	< 5.0
VOCs	Methylcyclohexane			ug/L	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	NA	NA	< 5.0	NA	< 5.0	NA	< 5.0	< 5.0	NA	< 10.0	NA	< 10.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 5.0	NA	< 5.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Tetrachloroethene	5		ug/L	1.7	146	144	< 1.0	< 1.0	20	NA	NA	1.2	NA	< 1.0	NA	11	30	NA	1.4	NA	8.3
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L	< 1.0			< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0
VOCs	Trichloroethene	5		ug/L	< 1.0	5.4	5.3	< 1.0	< 1.0	< 1.0	NA	NA	< 1.0									

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well Date Type	W-16	W-17	W-17	W-17	W-18R	W-18R	W-19B	W-20	W-22	W-22	W-23R	W-24	W-25	W-26	W-27	W-28	W-28	W-29	
					10/18/2022 N	10/11/2022 N	10/11/2022 FD	1/5/2023 N	10/7/2022 N	1/5/2023 N	10/18/2022 N	10/20/2022 N	10/7/2022 N	1/5/2023 N	10/17/2022 N	10/21/2022 N	10/21/2022 N	10/18/2022 N	10/19/2022 N	10/6/2022 N	1/5/2023 N	10/10/2022 N	
Radiological	Alpha particles	15	*	pCi/L	1.64 #	NA	NA	NA	2.88 #	NA	NA	NA	4.15 #	NA	NA	0.283 #	NA	0 #	NA	NA	NA	1.38 #	
Radiological	Beta particles	50	*	pCi/L	13.7	NA	NA	NA	61.1	NA	NA	NA	12.2	NA	NA	1.17 #	NA	13.7	NA	NA	NA	13.0	
Radiological	Tritium			pCi/L	0 #	NA	NA	NA	0 #	NA	NA	NA	0 #	NA	NA	151 #	NA	0 #	NA	NA	NA	48.3 #	
Radiological	Technetium-99	900		pCi/L	9.06	300	518	NA	110	NA	3.61	0.168 #	22.4	NA	2.53 #	0 #	0 #	7.24	1.86 #	0 #	NA	10.2	
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	NA	0.0318 J	NA	< 0.0700	< 0.0700	0.0115 J	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0302 J	NA	< 0.0700
Radiological	Uranium-238			ug/L	0.216	0.125 J	0.151 J	NA	2.52	NA	< 0.200	< 0.200	0.594	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	1.61	NA	0.396
Radiological	Total Uranium Isotopes	30		ug/L	0.216	0.125 J	0.151 J	NA	2.55	NA	< 0.200	< 0.200	0.606	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	1.64	NA	0.396
Chemical	Fluoride	4		mg/L	1.6	2.3	2.2	3.7	5.0	5.0	< 0.10	< 0.10	4.9	4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	5.7	5.4	2.7
Chemical	Nitrate as N	10		mg/L	0.76	13	14	NA	380	NA	3.6	< 0.020	58	NA	0.57	0.022	0.17	1.4	0.066	12	NA	35	
VOCs	Acetone			ug/L	< 25.0	< 20	< 20	NA	< 20	NA	< 25.0	< 25.0	< 20	NA	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 20	NA	< 20
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0
VOCs	2-Butanone			ug/L	< 5.0	< 10	< 10	NA	< 10	NA	< 5.0	< 5.0	< 10	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	< 10
VOCs	Carbon disulfide			ug/L	< 2.0	< 1.0	< 1.0	NA	< 1.0	NA	< 2.0	< 2.0	< 1.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	NA	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Chloroethane			ug/L	< 1.0	< 2.0	< 2.0	NA	< 2.0	NA	< 1.0	< 1.0	< 2.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	NA	< 2.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 2.0	< 1.0	< 1.0	NA	< 1.0	NA	< 2.0	< 2.0	< 1.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	NA	< 1.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 1.0	< 2.0	< 2.0	NA	< 2.0	NA	< 1.0	< 1.0	< 2.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	NA	< 2.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	0.49 J	1.1	1.2	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	2-Hexanone			ug/L	< 5.0	< 10	< 10	NA	< 10	NA	< 5.0	< 5.0	< 10	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	Methyl acetate			ug/L	< 10.0	< 1.0	< 1.0	NA	< 1.0	NA	< 10.0	< 10.0	< 1.0	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1.0	NA	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 5.0	< 10	< 10	NA	< 10	NA	< 5.0	< 5.0	< 10	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	NA	< 10
VOC																							

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well Date Type	W-29	W-30	W-30	W-32	W-32	W-33	W-33	W-35	W-36	W-37	W-38	W-39	W-39	W-39	W-40	W-41R	W-42	W-43
					1/5/2023 N	10/10/2022 N	1/5/2023 N	10/4/2022 N	1/3/2023 N	10/13/2022 N	1/6/2023 N	10/11/2022 N	10/11/2022 N	10/10/2022 N	10/6/2022 N	10/14/2022 N	1/6/2023 N	1/6/2023 FD	10/11/2022 N	10/17/2022 N	10/14/2022 N	10/14/2022 N
Radiological	Alpha particles	15	*	pCi/L	NA	13.7	NA	7.38	NA	3.00	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	57.0	NA	156	NA	5.21	NA	NA	NA	NA	NA	18.5	NA	NA	NA	11.5	NA	4.77
Radiological	Tritium			pCi/L	NA	0 #	NA	37.5 #	NA	94.9 #	NA	NA	NA	NA	NA	0 #	NA	NA	NA	0 #	NA	21.1 #
Radiological	Technetium-99	900		pCi/L	NA	34.0	NA	304	NA	0.711 #	NA	0 #	0 #	0 #	2.60 #	11.3	NA	NA	0 #	11.9	6.66	3.69
Radiological	Uranium-233/234			pCi/L	NA	8.69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	0.658	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	2.61	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	3.76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	NA	< 0.0500	NA	< 0.0500	NA	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	NA	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	NA	0.160	NA	< 0.0700	NA	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	NA	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	NA	6.49	NA	0.164 J	NA	< 0.200	NA	< 0.200	< 0.200	< 0.200	0.101 J	< 0.200	NA	NA	0.0778 J	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	NA	6.65	NA	0.164 J	NA	< 0.200	NA	< 0.200	< 0.200	< 0.200	0.101 J	< 0.200	NA	NA	0.0778 J	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	2.7	8.1	8.5	3.6	3.9	0.15	NA	< 0.10	< 0.10	< 0.10	0.80	< 0.10	NA	NA	0.19	< 0.10	2.1	< 0.10
Chemical	Nitrate as N	10		mg/L	NA	110	NA	150	NA	9.5	NA	4.4	0.88	1.8	3.3	74	NA	NA	3.4	46	4.5	7.6
VOCs	Acetone			ug/L	NA	< 20	NA	< 20	NA	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 20	< 50.0	< 20	< 20
VOCs	Benzene	5		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	NA	< 1.0	NA	< 1.0	NA	0.40 J	0.90 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Bromofrom			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10
VOCs	Carbon disulfide			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0
VOCs	Carbon tetrachloride	5		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	NA	< 2.0	NA	< 2.0	NA	< 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	NA	< 1.0	NA	< 1.0	NA	1.8	2.8	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 4.0	< 1.0	< 1.0
VOCs	Dibromochloromethane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	NA	< 2.0	NA	< 2.0	NA	< 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	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	NA	< 1.0	NA	< 1.0	NA	1.3	0.97 J	< 1.0	< 1.0	< 1.0	< 1.0	17	11	11	< 1.0	5.8	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10
VOCs	(1-Methylethyl)-Benzene			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 20.0	< 1.0	< 1.0
VOCs	Methyl tert-butyl ether			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10.0	< 10	< 10
VOCs	Methylcyclohexane			ug/L	NA	< 5.0	NA	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 20.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 1.0	< 1.0
VOCs	Styrene	100		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	NA	< 1.0	NA	< 1.0	NA	170	140	2.3	< 1.0	< 1.0	< 1.0	200	230	230	< 1.0	203	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,1,2-Trichlor-1,2,2-trifluoroethane			ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	NA	< 1.0	NA	< 1.0	NA	< 1.0												

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well	W-76	W-76	W-77	W-77	W-77	W-78	W-78	W-79	W-79	W-80	W-80	W-81	W-82	W-83	W-84	W-85	W-86	W-87	
				Date	10/6/2022	1/3/2023	10/6/2022	10/6/2022	1/3/2023	10/6/2022	1/5/2023	10/5/2022	1/3/2023	10/5/2022	1/3/2023	10/5/2022	10/5/2022	10/5/2022	10/4/2022	10/19/2022	10/19/2022	10/19/2022	10/19/2022
				Type	N	N	N	FD	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Radiological	Alpha particles	15	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	0.524 #	NA	25.3	7.54 #	NA	0 ##	NA	0 ##	NA	0 ##	NA	0.951 #	1.01 #	0.616 #	0 ##	0 ##	0 ##	0 ##	1.14 #
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	NA	0.0390 J	0.0390 J	NA	< 0.0500	NA	< 0.0500	NA	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	0.130	NA	4.63	4.49	NA	< 0.0700	NA	< 0.0700	NA	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	3.84	NA	108	105	NA	0.278	NA	< 0.200	NA	0.222	NA	0.504	0.128 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.503
Radiological	Total Uranium Isotopes	30		ug/L	3.97	NA	113	110	NA	0.278	NA	< 0.200	NA	0.222	NA	0.504	0.128 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.503
Chemical	Fluoride	4		mg/L	2.4	2.8	13	3.9	11	17	21	0.79	0.50	0.19	0.49	< 0.10	< 0.10	0.34	< 0.10	0.12	0.44	< 0.10	
Chemical	Nitrate as N	10		mg/L	13	NA	9.1	8.6	NA	4.7	NA	4.7	NA	6.3	NA	5.7	1.4	1.0	< 0.020	0.062	< 0.020	0.36	
VOCs	Acetone			ug/L	< 20	NA	< 20	< 20	NA	< 20	NA	< 20	NA	< 20	NA	< 20	< 20	< 20	< 20	< 25.0	< 25.0	< 20	
VOCs	Benzene	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromodichloromethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromoform			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	12	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Bromomethane			ug/L	< 2.0	NA	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	
VOCs	2-Butanone			ug/L	< 10	NA	< 10	< 10	NA	< 10	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	
VOCs	Carbon disulfide			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chlorobenzene	100		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloroethane			ug/L	< 2.0	NA	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	
VOCs	Chloroform			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	2.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Chloromethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Cyclohexane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 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	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	
VOCs	Dibromochloromethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	1.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1-Dichloroethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	NA	< 2.0	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 2.0	
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Ethylbenzene	700		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	2-Hexanone			ug/L	< 10	NA	< 10	< 10	NA	< 10	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Methyl acetate			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 10.0	< 10.0	< 1.0	
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	4-Methyl-2-pentanone			ug/L	< 10	NA	< 10	< 10	NA	< 10	NA	< 10	NA	< 10	NA	< 10	< 10	< 10	< 10	< 5.0	< 5.0	< 10	
VOCs	Methylcyclohexane			ug/L	< 5.0	NA	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 10.0	< 10.0	< 5.0	
VOCs	Methylene chloride	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 5.0	< 1.0	
VOCs	Styrene	100		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	Tetrachloroethene	5		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	41	
VOCs	Toluene	1000		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	NA	< 1.0	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	NA																	

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well Date Type	W-88	W-89	W-90	W-92	W-93	W-93	W-94	W-95	W-96	W-97	W-98	W-99	W-100	W-102	W-102	W-103	W-104	W-104	
					10/18/2022 N	10/18/2022 N	10/18/2022 N	10/19/2022 N	10/16/2022 N	1/3/2023 N	10/20/2022 N	10/19/2022 N	10/20/2022 N	10/19/2022 N	10/20/2022 N	10/18/2022 N	10/14/2022 N	10/14/2022 N	10/10/2022 N	1/5/2023 N	10/17/2022 N	10/20/2022 N	10/20/2022 FD
Radiological	Alpha particles	15	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	1.33 #	1.89 #	3.48	0.800 #	0 #	NA	0 #	0 #	1.25 #	11.3	10.4	45.7	33.0	84.2	NA	35.5	3.24 #	3.63 #	
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	NA	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	< 0.0700	0.0329 J	NA	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.194 J	0.188 J	1.76	NA	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	NA	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.194 J	0.188 J	1.80	NA	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	< 0.10	< 0.10	< 0.10	0.17	< 0.10	0.22	< 0.10	< 0.10	< 0.10	0.17	< 0.10	3.1	2.5	3.0	3.4	< 0.10	< 0.10	< 0.10	< 0.10
Chemical	Nitrate as N	10		mg/L	3.5	2.5	1.9	0.068	4.6	NA	0.077	0.089	0.025	2.0	9.4	0.095	2.7	89	NA	9.5	7.3	5.2	
VOCs	Acetone			ug/L	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	NA	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	NA	< 25.0	< 25.0	< 25.0
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 5.0	< 5.0	< 10.0	< 5.0	< 10	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	NA	< 5.0	< 5.0	< 5.0
VOCs	Carbon disulfide			ug/L	< 2.0	< 2.0	< 4.0	< 2.0	< 1.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 2.0	< 2.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromo-3-chloropropane	0.2		ug/L	< 2.0	< 2.0	< 4.0	< 2.0	< 1.0	NA	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 2.0	< 2.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 2.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	5.5	2.7	0.87 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	0.79 J	< 1.0	< 1.0
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 5.0	< 5.0	< 10.0	< 5.0	< 10	NA	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	NA	< 5.0	< 5.0	< 5.0
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 10.0	< 10.0	< 20.0	< 10.0	< 1.0	NA	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10.0	< 10.0	< 10.0

Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

		Well Date	W-105 10/20/2022	W-106 10/14/2022	W-107 10/21/2022	W-107 10/21/2022 FD	W-108 10/21/2022	W-109 10/20/2022	W-110 10/21/2022	W-111 10/20/2022	W-112 10/21/2022	W-113 10/13/2022	W-114 10/13/2022	W-115 10/12/2022	W-116 10/12/2022	W-117 10/13/2022	W-118 10/13/2022	W-119 10/13/2022	W-120 10/13/2022
Group	Analyte	MCL	note	Units															
Radiological	Alpha particles	15	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	0 #	2.69 #	0 #	0.740 #	0 #	0.825 #	0 #	1.02 #	0.607 #	0 #	0 #	1.26 #	2.78 #	1.87 #	2.71 #
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0979 J	< 0.200	0.142 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.495
Radiological	Total Uranium Isotopes	30		ug/L	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.0979 J	< 0.200	0.142 J	< 0.200	< 0.200	< 0.200	< 0.200	< 0.200	0.495
Chemical	Fluoride	4		mg/L	0.32	0.13	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chemical	Nitrate as N	10		mg/L	0.068	0.10	0.052	0.098	0.32	< 0.020	< 0.020	0.084	3.1	1.0	14	5.9	2.7	3.4	1.7
VOCs	Acetone			ug/L	< 25.0	< 20	< 25.0	< 25.0	< 25.0	< 25.0	< 25.0	< 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	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Carbon disulfide			ug/L	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	< 2.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 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	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 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	0.46 J	0.43 J	1.3	2.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.72 J
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	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 10.0	< 1.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 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	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
VOCs	Methylcyclohexane			ug/L	< 10.0	< 5.0	< 10.0	< 10.0	< 10.0	< 10.0	< 10.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
VOCs	Methylene chloride	5		ug/L	< 5.0	< 1.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 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	< 1.0	< 1.0	< 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-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	< 1.0	< 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	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1										

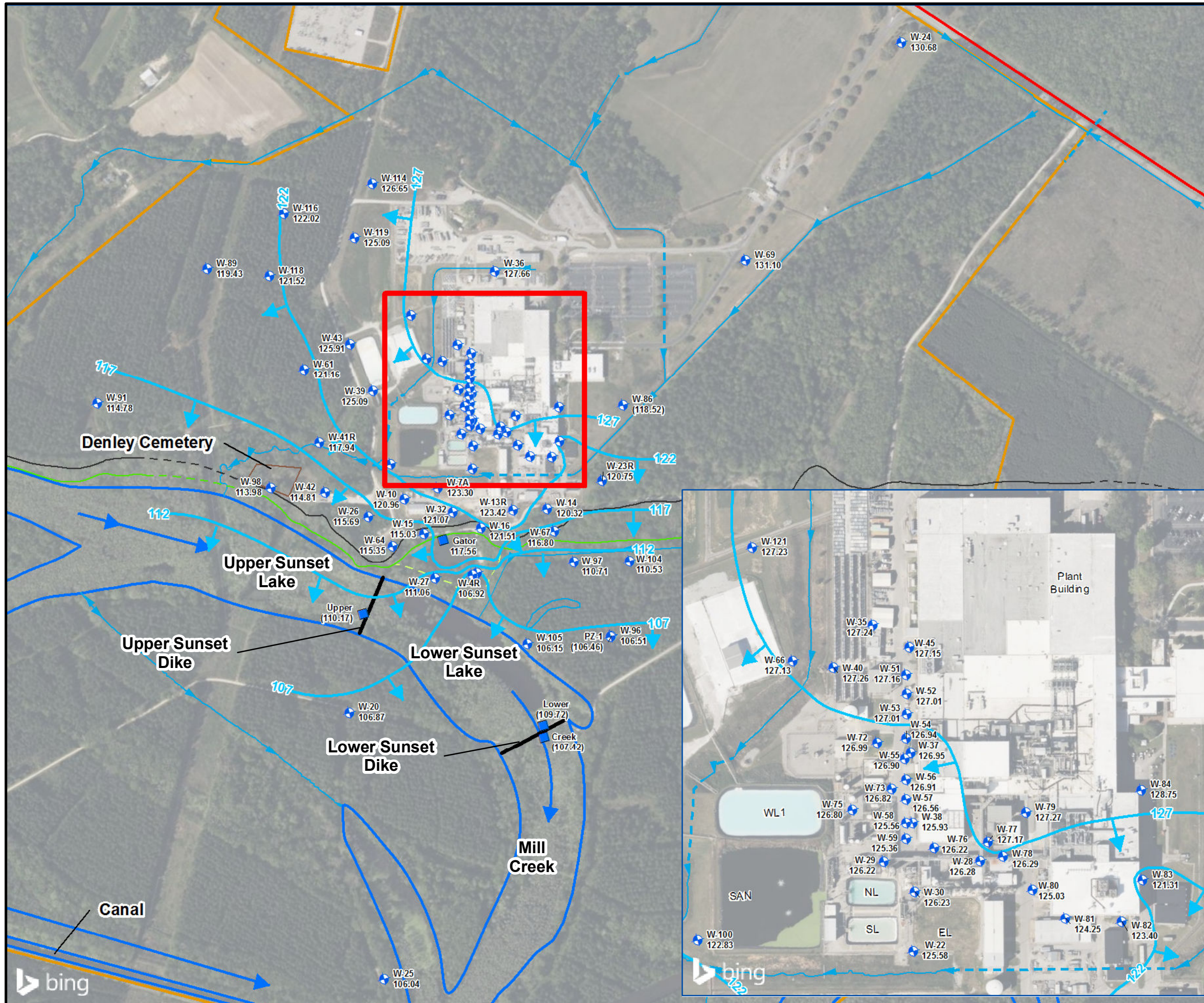
Attachment A - October 2022 Groundwater Analytical Results
Westinghouse Columbia Fuel Fabrication Facility, Hopkins, SC

Group	Analyte	MCL	note	Well Date Type	W-120	W-120	W-121	W-122	W-123	W-123	W-124	W-125	W-126
					10/13/2022 FD	1/6/2023 N	10/13/2022 N	10/13/2022 N	10/4/2022 N	1/3/2023 N	10/20/2022 N	10/20/2022 N	10/19/2022 N
Radiological	Alpha particles	15	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Beta particles	50	*	pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Tritium			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Technetium-99	900		pCi/L	0.706 #	NA	2.01 #	0 #	498	NA	0.705 #	1.20 #	0.983 #
Radiological	Uranium-233/234			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-235/236			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-238			pCi/L	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Percent Uranium-235			%	NA	NA	NA	NA	NA	NA	NA	NA	NA
Radiological	Uranium-234			ug/L	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500	NA	< 0.0500	< 0.0500	< 0.0500
Radiological	Uranium-235			ug/L	< 0.0700	NA	< 0.0700	< 0.0700	0.0118 J	NA	< 0.0700	< 0.0700	< 0.0700
Radiological	Uranium-238			ug/L	0.502	NA	< 0.200	< 0.200	1.76	NA	< 0.200	< 0.200	< 0.200
Radiological	Total Uranium Isotopes	30		ug/L	0.502	NA	< 0.200	< 0.200	1.77	NA	< 0.200	< 0.200	< 0.200
Chemical	Fluoride	4		mg/L	< 0.10	NA	< 0.10	< 0.10	9.5	9.2	< 0.10	0.10	< 0.10
Chemical	Nitrate as N	10		mg/L	3.3	NA	2.0	< 0.020	120	NA	< 0.020	0.10	< 0.020
VOCs	Acetone			ug/L	< 20	< 20	< 20	< 20	< 20	NA	< 25.0	< 25.0	< 25.0
VOCs	Benzene	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromodichloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromoform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Bromomethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 2.0	< 2.0	< 2.0
VOCs	2-Butanone			ug/L	< 10	< 10	< 10	< 10	< 10	NA	< 5.0	< 5.0	< 5.0
VOCs	Carbon disulfide			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 2.0	< 2.0	< 2.0
VOCs	Carbon tetrachloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chlorobenzene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloroethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloroform			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Chloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Cyclohexane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 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	NA	< 2.0	< 2.0	< 2.0
VOCs	Dibromochloromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dibromoethane	0.05		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichlorobenzene	600		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,3-Dichlorobenzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,4-Dichlorobenzene	75		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Dichlorodifluoromethane			ug/L	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1-Dichloroethene	7		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	cis-1,2-Dichloroethene	70		ug/L	0.79 J	0.74 J	< 1.0	< 1.0	2.0	NA	< 1.0	< 1.0	0.68 J
VOCs	trans-1,2-Dichloroethene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2-Dichloropropane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	cis-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	trans-1,3-Dichloropropene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Ethylbenzene	700		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	2-Hexanone			ug/L	< 10	< 10	< 10	< 10	< 10	NA	< 5.0	< 5.0	< 5.0
VOCs	(1-Methylethyl)-Benzene			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Methyl acetate			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 10.0	< 10.0	< 10.0
VOCs	Methyl tert-butyl ether			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	4-Methyl-2-pentanone			ug/L	< 10	< 10	< 10	< 10	< 10	NA	< 5.0	< 5.0	< 5.0
VOCs	Methylcyclohexane			ug/L	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NA	< 10.0	< 10.0	< 10.0
VOCs	Methylene chloride	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 5.0	< 5.0	< 5.0
VOCs	Styrene	100		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1,2,2-Tetrachloroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Tetrachloroethene	5		ug/L	230	200	25	< 1.0	27	NA	< 1.0	< 1.0	< 1.0
VOCs	Toluene	1000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloro-1,2,2-trifluoroethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,2,4-Trichlorobenzene	70		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1,1-Trichloroethane	200		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	1,1,2-Trichloroethane	5		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Trichloroethene	5		ug/L	12	9.3	0.44 J	< 1.0	8.8	NA	< 1.0	< 1.0	< 1.0
VOCs	Trichlorofluoromethane			ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Vinyl chloride	2		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0
VOCs	Xylenes, Total	10000		ug/L	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NA	< 1.0	< 1.0	< 1.0

Notes: MCL - Maximum Contaminant Level
 * - site-specific action level
 pCi/L - picocuries per liter
 ug/L - micrograms per liter
 mg/L - milligrams per liter
 VOCs - volatile organic compounds
 N - Normal sample
 FD - Field duplicate sample
 Concentrations in orange shaded cells exceed their MCL
 Bold concentrations indicate detections
 J - Result below reporting limit
 Concentrations in purple text were analyzed past their hold time
 NA - not analyzed
 # - value is below minimum detectable concentration
 ## - value shown as zero reported by analytical laboratory as a negative number

Attachment B

October 2022 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
 - 127.66 Groundwater Elevation
 - (118.52) Elevation for illustrative purposes only
- Based upon data collected on October 3, 2022

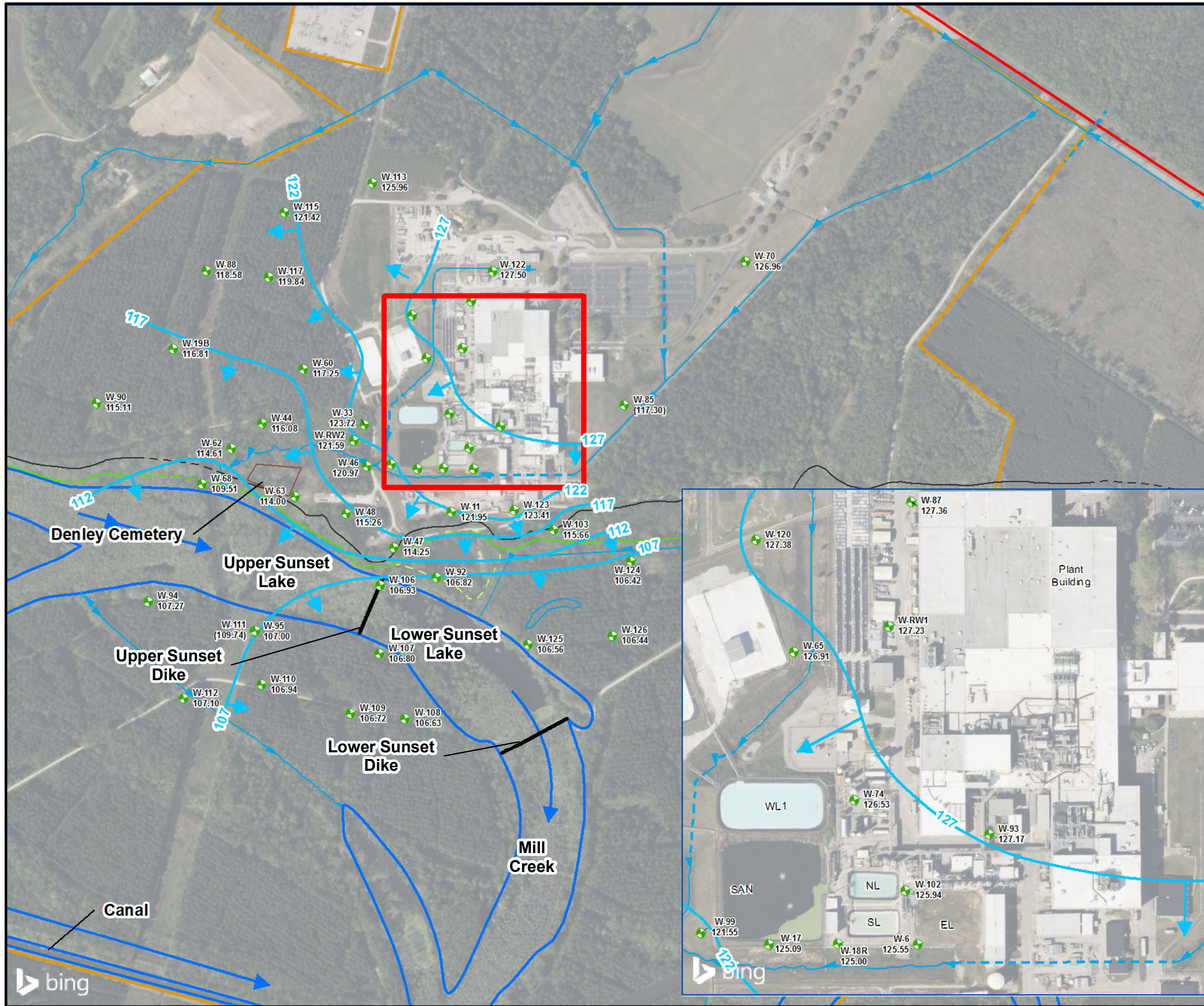


Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 Datum: North American 1983

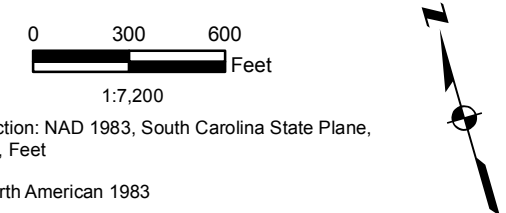
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Surficial Aquifer - Upper Zone Potentiometric Map October 2022
 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B1
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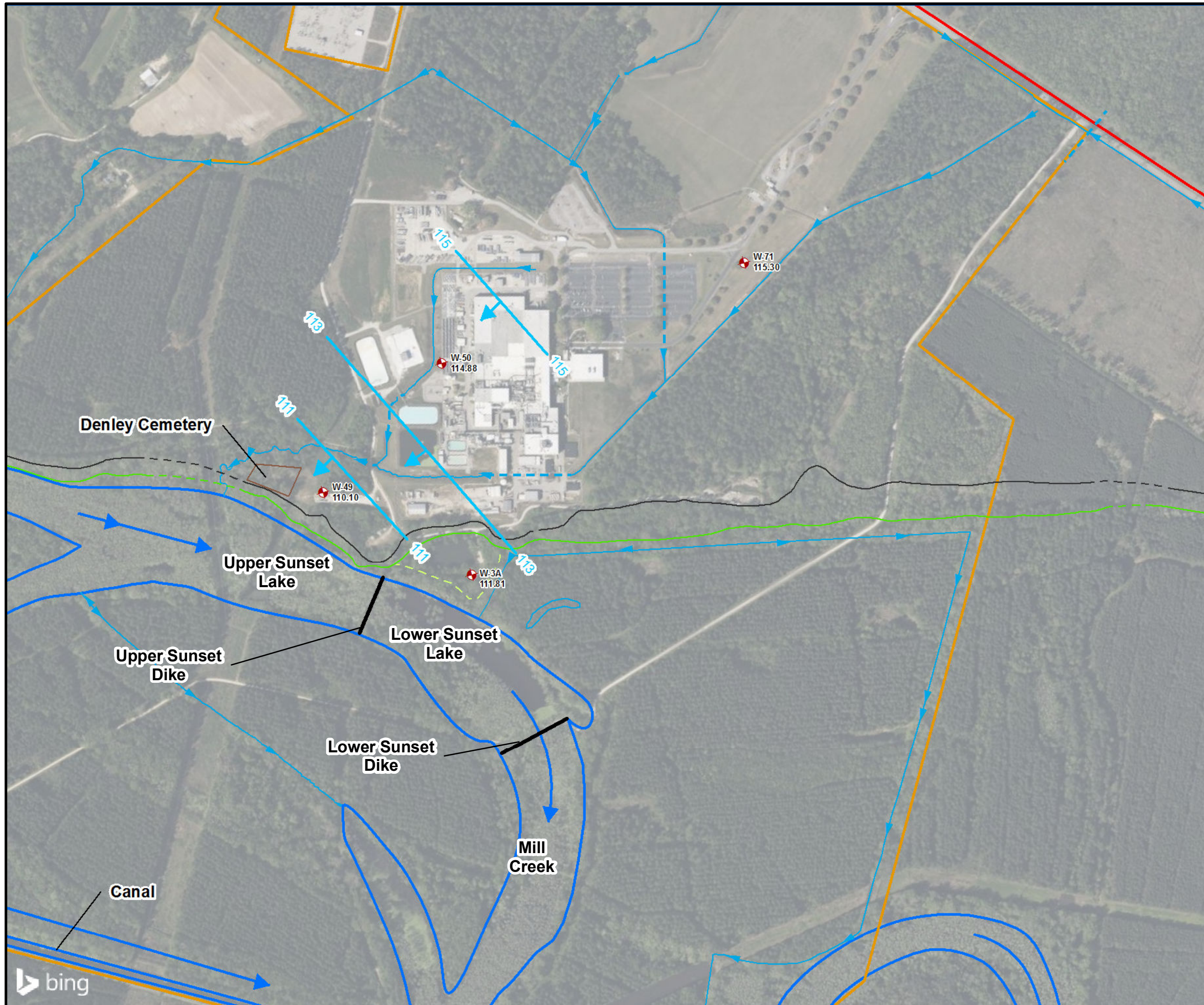
- Legend**
- Surficial Aquifer - Lower Zone Monitoring Well
 - Mill Creek
 - Property Line
 - SCRDI Bluff Road (Superfund Site)
 - Culvert
 - Ditch
 - Mill Creek Flow Direction
 - Dike Location
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff 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
 - 127.50 Groundwater Elevation
 - (117.30) Elevation for illustrative purposes only
- Based upon data collected on October 4, 2022



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Surficial Aquifer - Lower Zone Potentiometric Map October 2022
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HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B2
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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
 - 115.30 Groundwater Elevation
- Based upon data collected on October 4, 2022



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

Datum: North American 1983

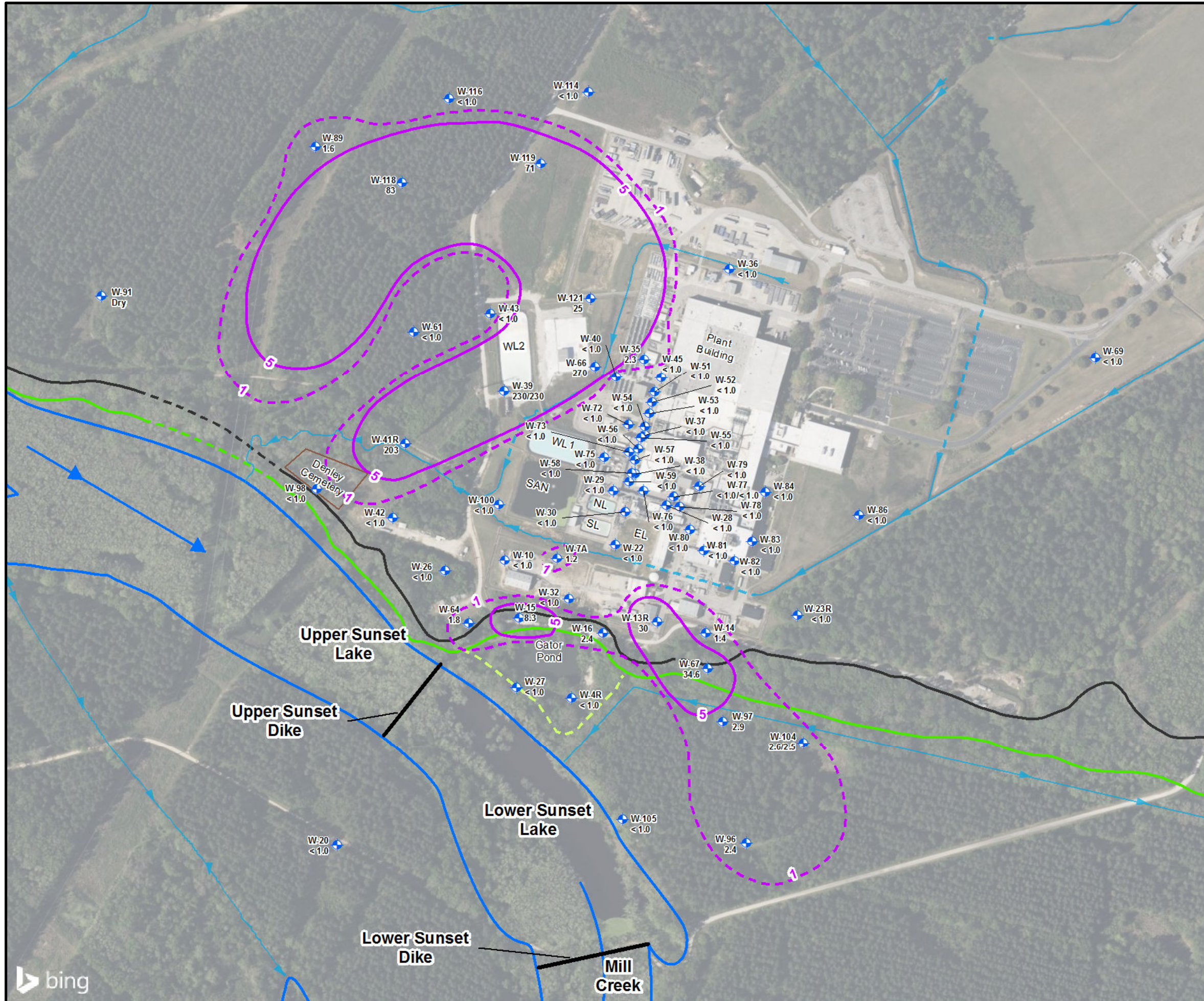


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**Black Creek Aquifer
Potentiometric Map October 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B3
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Legend

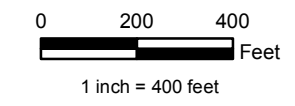
- Surficial Aquifer - Upper Zone Monitoring Well
- Ditch
- Culvert
- Dike Location
- Mill Creek
- Mill Creek Flow Direction
- Top of Bluff
- Inferred Top of Bluff
- Bottom of Bluff
- Inferred Bottom of Bluff
- Secondary Bluff Area
- PCE Isoconcentration Contour (5 µg/L)
- PCE Isoconcentration Contour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

270 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:
 Data from monitoring wells W-39 and W-66 is from January 2023 due to the October 2022 sample being analyzed out of hold time for PCE.

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.

Wells displaying two concentration values had a quality control duplicate sample taken.



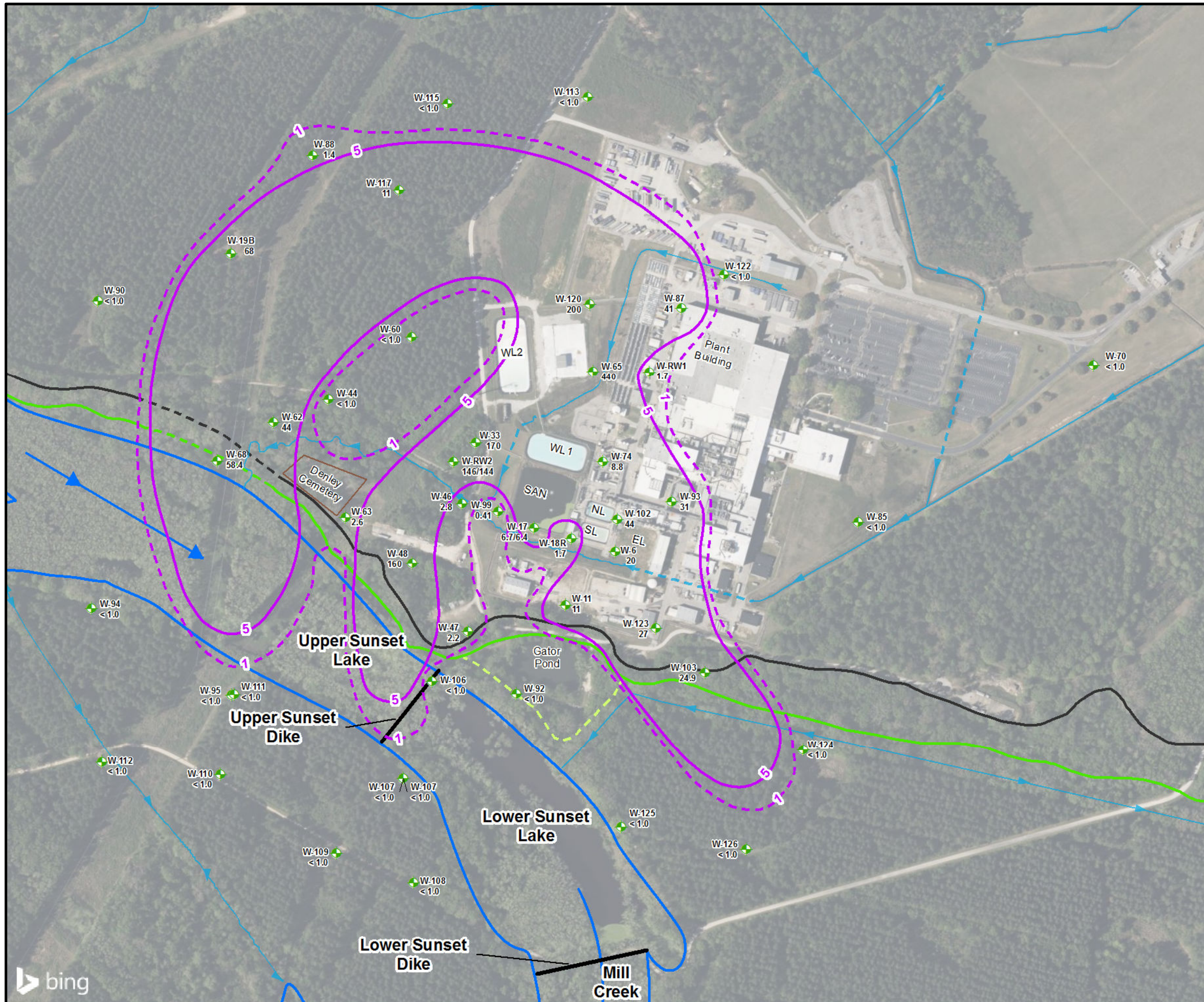
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 Datum: North American 1983

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**Extent of PCE -
 Surficial Aquifer - Upper Zone
 October 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B4
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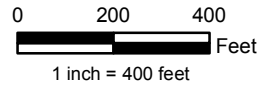


- Legend**
- Surficial Aquifer - Lower Zone Monitoring Well
 - Ditch
 - Culvert
 - Dike Location
 - Mill Creek Flow Direction
 - Mill Creek
 - Top of Bluff
 - Inferred Top of Bluff
 - Bottom of Bluff
 - Inferred Bottom of Bluff
 - Secondary Bluff Area
 - PCE Isoconcentration Contour (5 µg/L)
 - PCE Isoconcentration Contour at or Above the Detection Limit (µg/L)
- 440 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:
 Data from monitoring wells W-65 and W-120 is from January 2023 due to the October 2022 sample being analyzed out of hold time for PCE.

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.

Wells displaying two concentration values had a quality control duplicate sample taken.

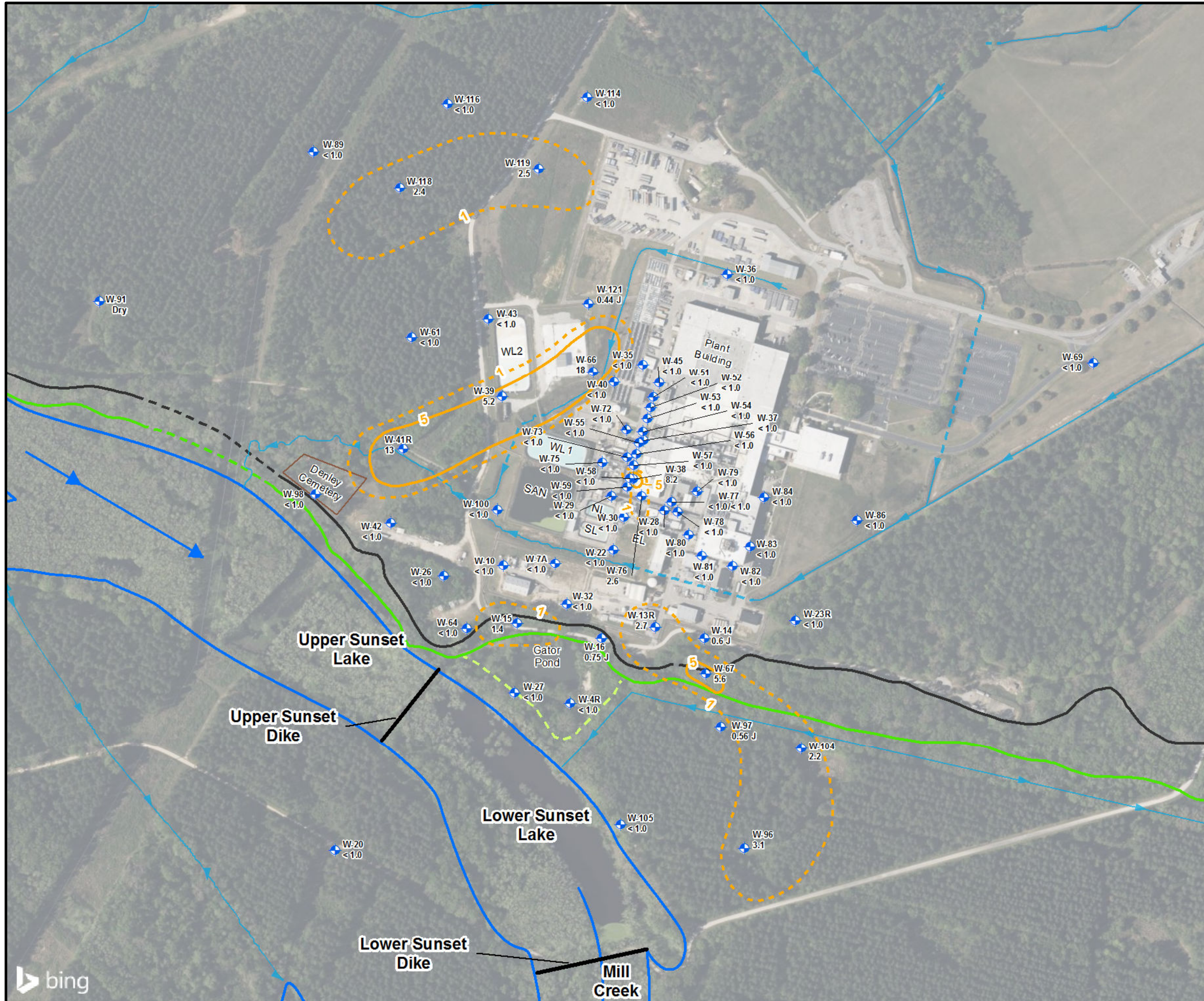


Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
 Datum: North American 1983

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**Extent of PCE
 Surficial Aquifer - Lower Zone
 October 2022**
 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B5
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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)

18 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.

Wells displaying two concentration values had a quality control duplicate sample taken.

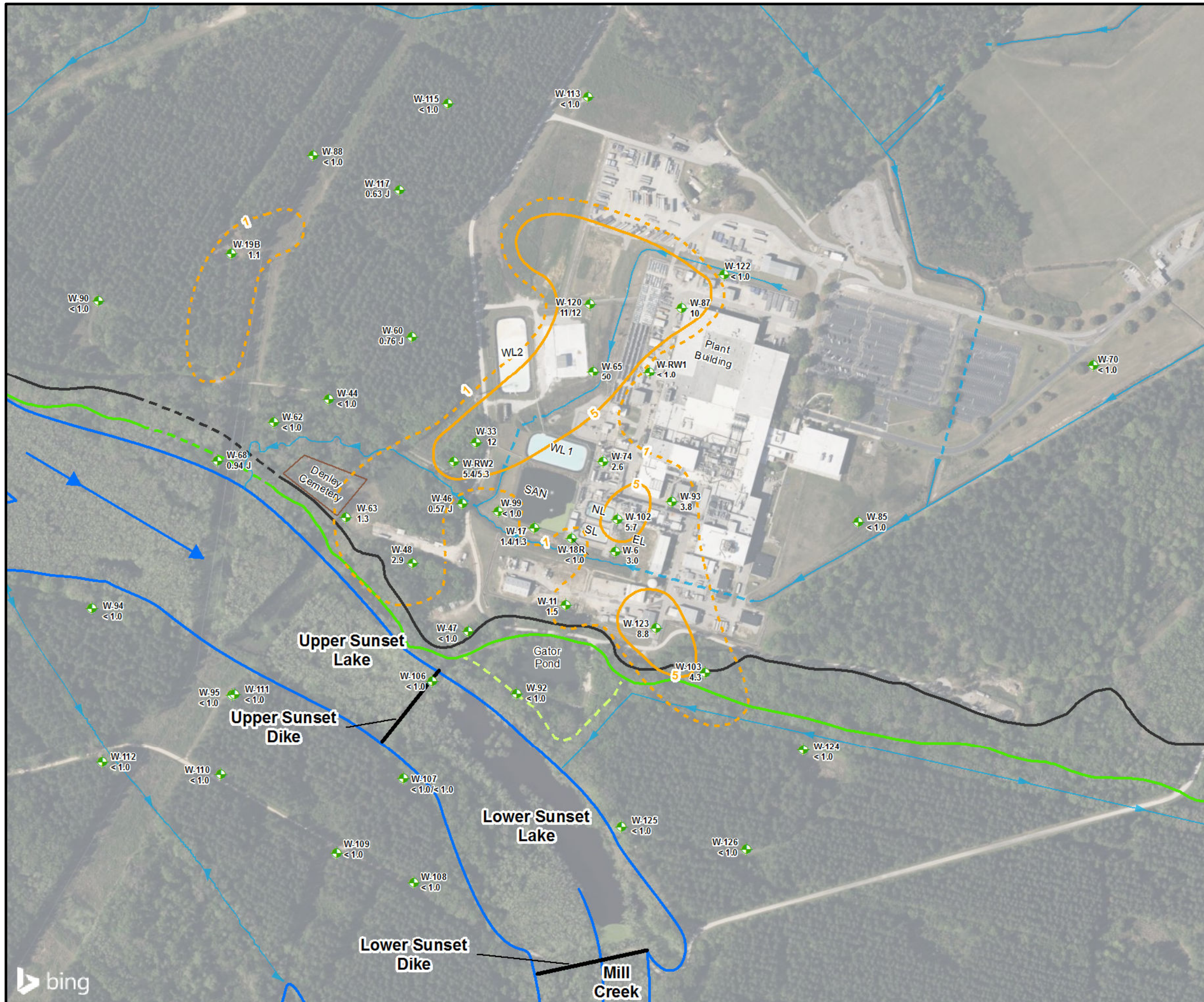
0 200 400
 Feet
 1 inch = 400 feet

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
 October 2022**
 WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

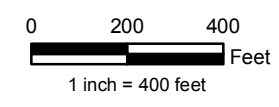
PROJECT NO: 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B6
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- Legend**
- Surficial Aquifer - Lower Zone Monitoring Well
 - Ditch
 - Culvert
 - Dike Location
 - Mill Creek Flow Direction
 - Mill Creek
 - Top of Bluff
 - Inferred Top of Bluff
 - 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)
- 50 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.

Wells displaying two concentration values had a quality control duplicate sample taken.



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

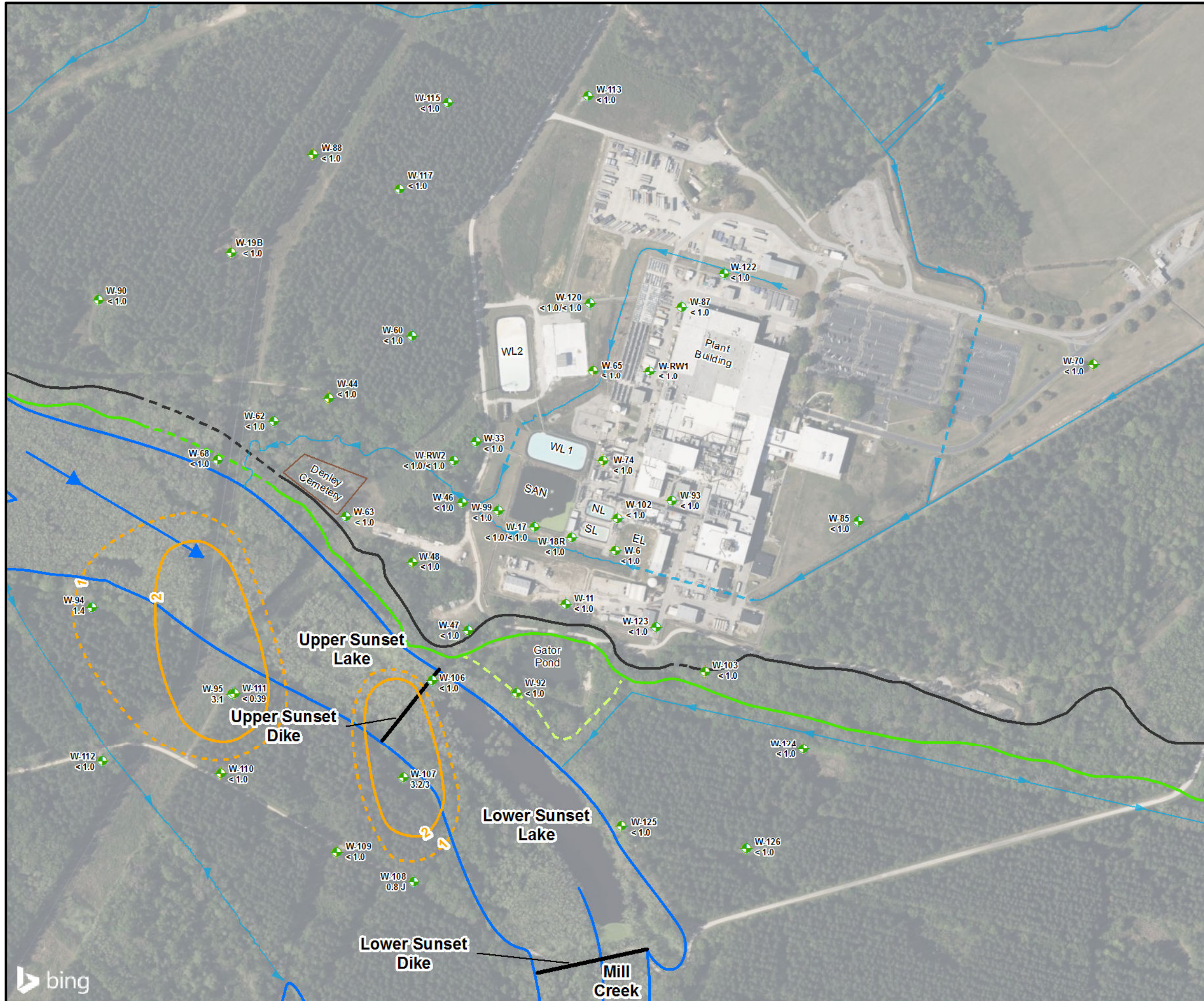


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**Extent of TCE
 Surficial Aquifer - Lower Zone
 October 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO. 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B7
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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)

3.1 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

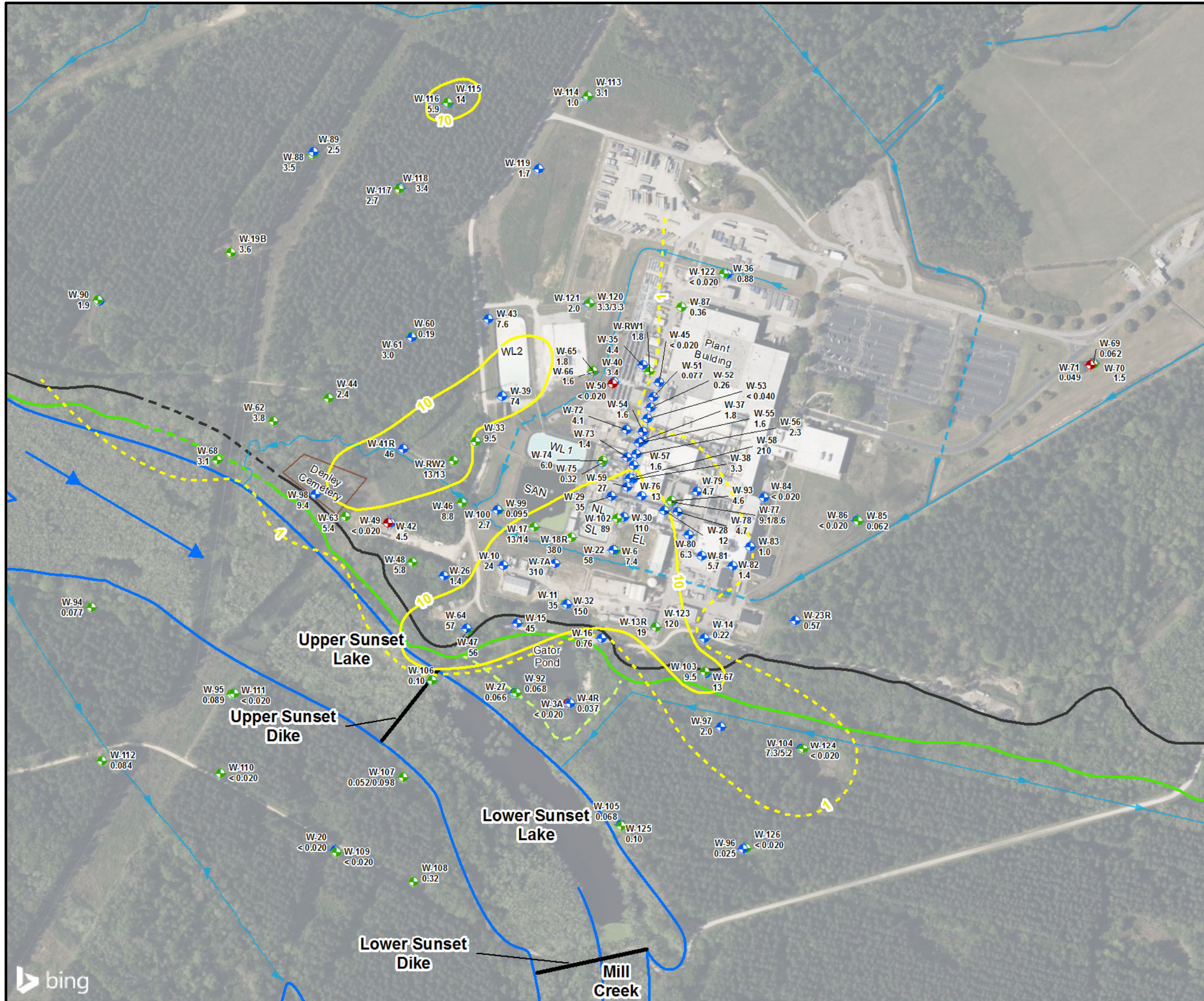
Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

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 VC Surficial Aquifer - Lower Zone October 2022	
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA	
PROJECT NO. 60641050	PREPARED BY: CCS
DATE: February 2023	FIGURE B8



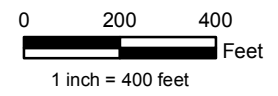
Legend

- ◆ 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)
- 380 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.

Wells displaying two concentration values had a quality control duplicate sample taken.



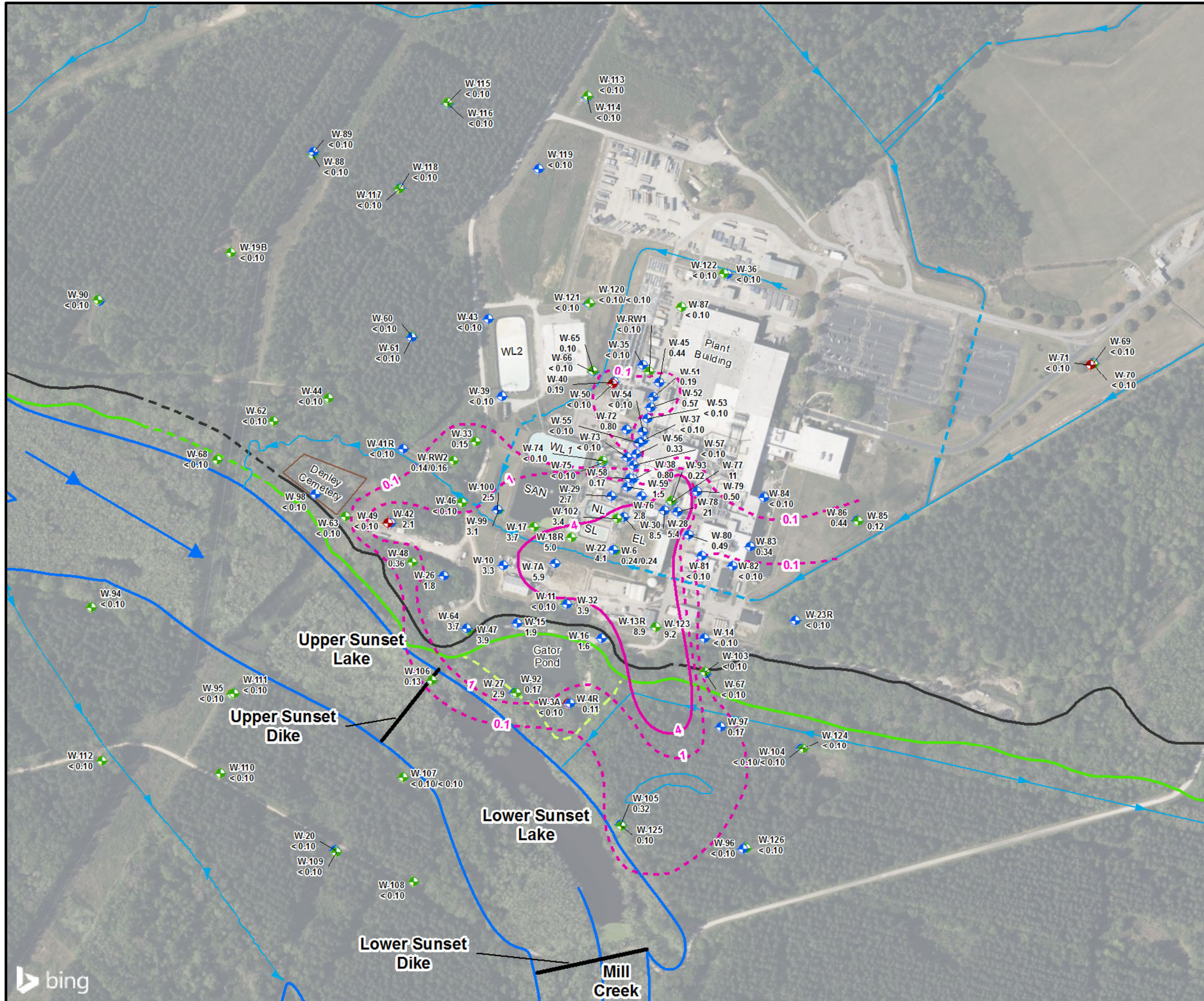
Map Projection: NAD 1983, South Carolina State Plane, FIPS 3900, Feet
Datum: North American 1983

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**Extent of Nitrate in Groundwater
October 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B9
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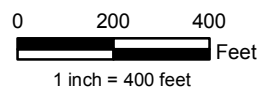
Legend

- ◆ 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)
- 21 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:
 Data from monitoring wells W-6, W-7A, W-10, W-13R, W-14, W-17, W-18R, W-22, W-28, W-29, W-30, W-32, W-59, W-76, W-77, W-78, W-79, W-80, W-93, W-102 and W-123 is from January 2023 due to the October 2022 sample being analyzed out of hold time for fluoride.

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.

Wells displaying two concentration values had a quality control duplicate sample taken.



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

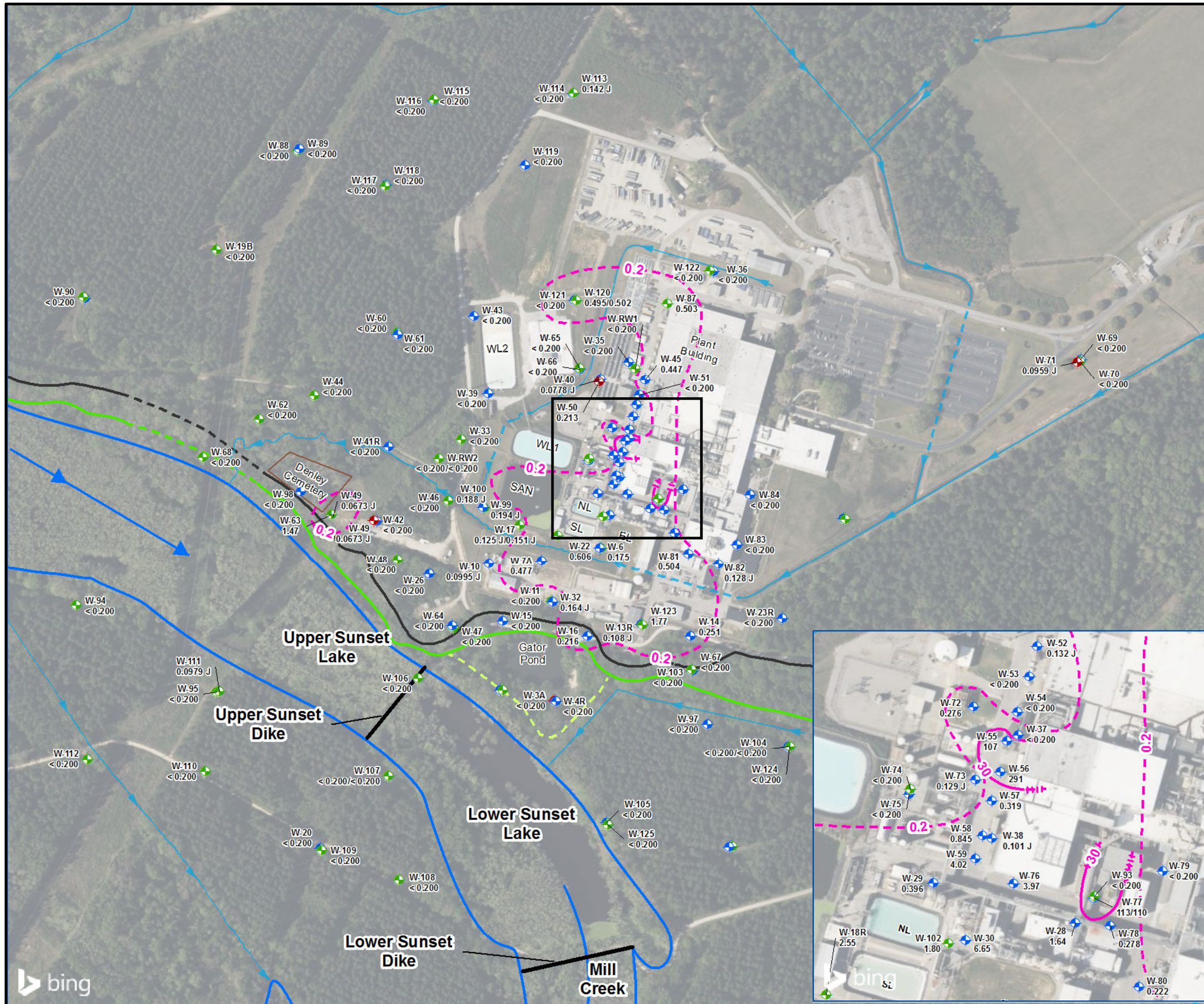


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**Extent of Fluoride in Groundwater
 October 2022**

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

PROJECT NO: 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B10
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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)

291 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

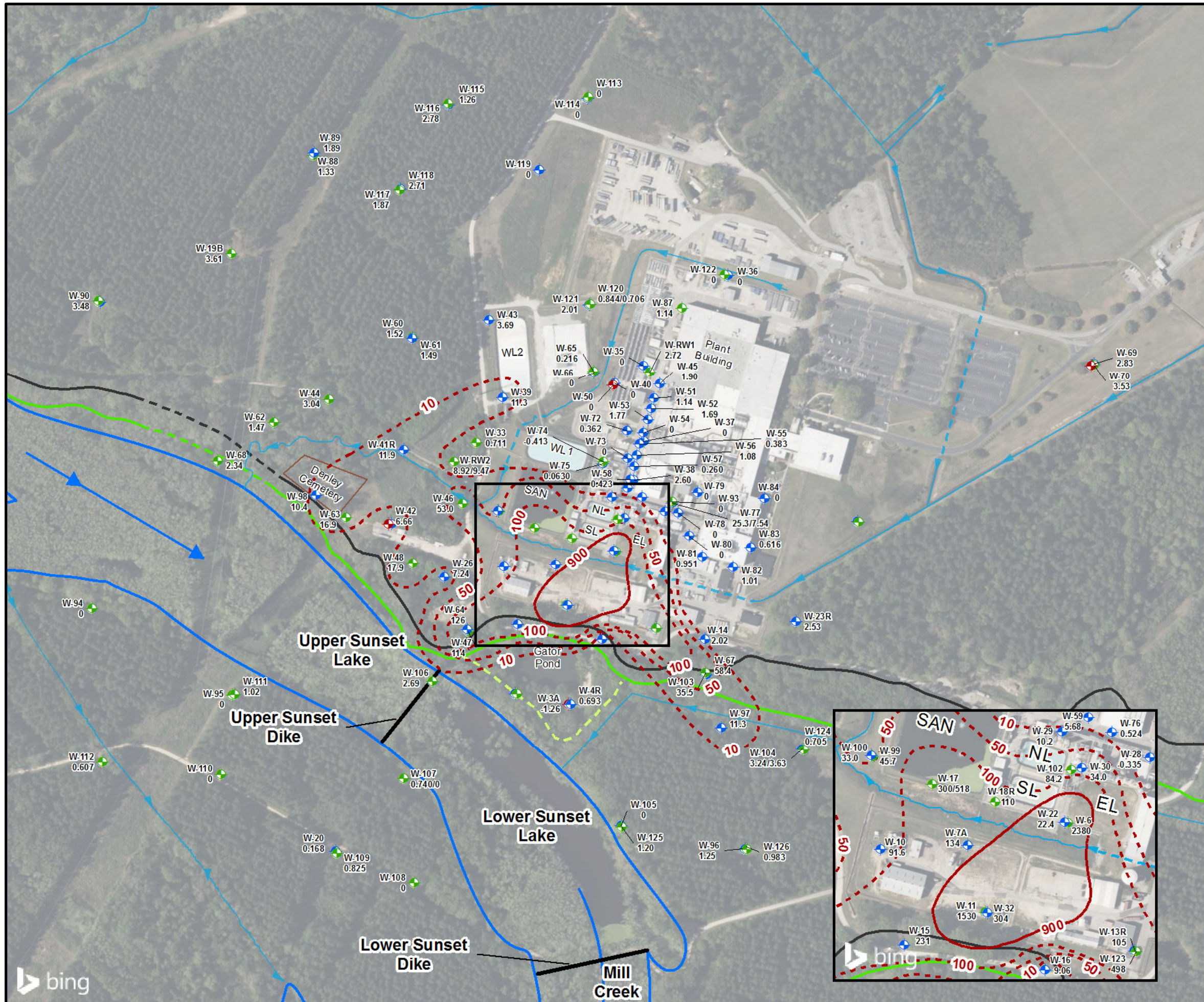
Notes:
 Although the river terrace sediments above and below the bluff are of different geologic ages (Pleistocene-vs-Holocene), they were deposited under similar conditions, have similar lithologies and are hydrogeologically connected as a single surficial aquifer.

Wells displaying two concentration values had a quality control duplicate sample taken.

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 October 2022			
WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY HOPKINS, SOUTH CAROLINA			
PROJECT NO. 60641050	PREPARED BY: CCS	DATE: February 2023	FIGURE B11



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)

2380 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.

Wells displaying two concentration values had a quality control duplicate sample taken.

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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 Columbia, SC 29203
 T: (803) 254-4400 F: (803) 771-6676

Extent of Technetium-99 in Groundwater October 2022

WESTINGHOUSE COLUMBIA FUEL FABRICATION FACILITY
 HOPKINS, SOUTH CAROLINA

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