Savannah River NUCLEAR SOLUTIONS℠

488-4D Ash Landfill
Annual Groundwater Monitoring Report

2025 Data

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LIST OF ABBREVIATIONS AND ACRONYMS

bgs	below ground surface
DAG	D-Area Groundwater
DCSA	484-17D D-Area Coal Storage Area
CPRB	489-D D-Area Coal Pile Runoff Basin
ft	foot, feet
ft amsl	feet above mean sea level
GCU	Gordon Confining Unit
m	meters
MCL	Maximum Contaminant Level
µg/L	microgram per Liter
NSDWS	National Secondary Drinking Water Standard
OU	Operable Unit
PCE	tetrachloroethylene
PFAS	per- and polyfluoroalkyl substances
RSL	Regional Screening Level
SCDES	South Carolina Department of Environmental Services[1]
SRS	Savannah River Site
TCE	trichloroethylene
USEPA	United States Environmental Protection Agency
UTRA	Upper Three Runs Aquifer
VOC	volatile organic compounds

[1] South Carolina Department of Environmental Services (SCDES) was known as South Carolina Department of Health and Environmental Control (SCDHEC) prior to July 1, 2024.

1.0 SITE DESCRIPTION AND BACKGROUND

The 488-4D Ash Landfill is a 15-acre landfill located in D Area on the Savannah River Site (SRS). The ash landfill received coal ash from the 484-D D-Area Coal Powerhouse. The 488-4D Ash Landfill was closed in 2016 under a non-time critical removal action and was included in the DAOU Second Early Action Record of Decision (SRNS 2020). The groundwater associated with the landfill was previously monitored and reported to South Carolina Department of Environmental Services (SCDES) under the Solid Waste Division (previous Solid Waste Permit #025800-1602). In 2018, groundwater monitoring and reporting for the 488-4D Ash Landfill was combined with the DAG OU. The DAG OU has now transitioned to the RCRA Facility Investigation/Remedial Investigation/Baseline Risk Assessment project phase. As agreed to by the U.S. Environmental Protection Agency (USEPA) and SCDES in the November 2023 DAG OU Post-Characterization Scoping Meeting (SRNS 2023), the last full monitoring report for the DAG OU was submitted in 2023 with sampling of the DAG OU continuing until submittal of a Corrective Measures Study/Feasibility Study. To fulfill the SCDES post-closure care requirements for the 488-4D Ash Landfill, a focused groundwater monitoring report specifically for the landfill is submitted annually.

This annual groundwater monitoring data report for the 488-4D Ash Landfill describes sampling activities specifically conducted at the five landfill monitoring wells during calendar year 2025.

2.0 GROUNDWATER MONITORING

The 488-4D Ash Landfill groundwater monitoring and current sampling schedule is reported in the most recent DAG OU report (SRNS 2025). Five (5) groundwater wells (DCB077, DCB078, DCB079, DCB080 and DCB 8) make up the monitoring network at the 488-4D Ash Landfill (**Figure 1 and Table 1**). **Table 2** includes the sampling schedule and requirements for the 488-4D Ash Landfill groundwater monitoring. Monitoring wells DCB078, DCB079, and DCB080 are located downgradient of the 488-4D Ash Landfill. DCB078 is the replacement well for DCB 47C that was abandoned during closure of the D-Area ash basins. A fourth well, DCB077, is located upgradient and northwest of the landfill. These four wells are also downgradient of the 484-17D D-Area Coal Storage Area (DCSA) and the 489-D Coal Pile Runoff Basin (CPRB), which are

primary sources of metals contamination in D Area. Additionally, a fifth well, DCB 8, is upgradient 500 meters (m) (1,640 feet [ft]) of the landfill and is also upgradient of the 484-17D DCSA and the 489-D CPRB. All five (5) 488-4D Ash Landfill wells are water table wells and screened no deeper than 13.4 m (44 ft) below ground surface (bgs).

Groundwater monitoring wells in the DAG OU monitoring program downgradient of the 484-17D DCSA and 489-D CBRB indicate metal contamination in the low-pH conditions. Groundwater at the 488-4D Ash Landfill has been impacted by the acidic leachate from the 484-17D DCSA and the 489-D CPRB source units. **Figure 2** displays the beryllium plume across D Area. Tritium, volatile organic compounds (VOCs), and per- and polyfluoroalkyl substances (PFAS) contamination present in D Area is not associated with the 488-4D Ash Landfill and originate from upgradient sources as shown in **Figure 3** (SRNS 2025). The tritium, VOC, and PFAS groundwater contaminants are monitored and reported as part of the DAG OU (SRNS 2025).

2.1 Site Geology and Hydrogeology

The SRS is underlain by Atlantic Coastal Plan sediments that thicken to the southeast. Sediments range in age from Late Cretaceous to recent and are approximately 270 m (900 ft) thick at SRS (Aadland et al., 1995; Fallaw and Price, 1995). The pertinent stratigraphy beneath D Area, in ascending order, is the Snapp, Fourmile Branch, Congaree, Warley Hill, Tinker/Santee, and Clinchfield Formations (Aadland et. al, 1995). Quaternary Savannah River deposits exist at D Area, with more extensive reworking of the shallow material west of the 488-D D-Area Ash Basin and 488-4D Ash Landfill near the current Savannah River as shown in **Figure 1** and in cross-sectional view in **Figure 4**.

The shallow aquifer system at D Area includes a semi-confined and an unconfined aquifer system. The semi-confined Gordon Aquifer is a 15 m (50 ft) thick sequence of fine to medium-grained sand that is overlain by the Gordon Confining Unit (GCU); the GCU can be up to a 3 m (10 ft) thick clay layer or consist of silty/sandy clays to silty sands. The GCU is overlain by the Upper Three Runs Aquifer (UTRA), which is an unconfined series of interbedded and laterally discontinuous sand, silt, and clay beds ranging in thickness from 12 m (40 ft) to 18 m (60 ft) beneath D Area. In D Area, the UTRA has been partially eroded and the tan clay confining layer

is not present; therefore, the UTRA in D Area is not defined by upper and lower zones separated by a confining layer as often seen at other units at SRS. A schematic of the lithostratigraphy and hydrostratigraphy generally observed at SRS is provided in **Figure 5**. The 488-4D Ash Landfill monitoring wells are screened within the UTRA.

2.2 Groundwater Constituents and Parameters

The five 488-4D Ash Landfill wells (DCB077, DCB078, DCB079, DCB080 and DCB 8) are monitored according to the DAG OU *Groundwater Samples Analyte List and Sample Frequency* table that is included in the DAG OU groundwater monitoring reports and letters (SRNS 2025; *Appendix B, Table B-1*). **Table 2** lists the required analytical and field parameters being monitored for the 488-4D Ash Landfill. Results are compared to Maximum Contaminant Levels (MCLs), National Secondary Drinking Water Standards (NSDWS), or USEPA Regional Screening Levels (RSLs), in that order.

3.0 RESULTS

Groundwater water elevations were collected in the second and fourth quarter of 2025 and analytical samples were collected in second quarter of 2025 for all five (5) wells associated with the 488-4D Ash Landfill (**Table 3**). These wells were also used for monitoring groundwater elevations and/or metals/sulfate in the D-Area Treatability Study (SRNS 2026). Wells DCB 8, DCB077, and DCB078 included additional groundwater elevations and metal/sulfate analyses during the first and fourth quarters of 2025, as well as additional groundwater elevations during the third quarter of 2025. Wells DCB079 and DCB080 included additional groundwater elevations during first and third quarters of 2025. Additionally, all five wells were sampled in fourth quarter of 2025 as part of the DAG OU PFAS sampling event. For completeness, all groundwater elevations, field measurements, and metals/sulfate data collected at the five 488-4D Ash Landfill monitoring wells are presented in **Table 3**.

3.1 Groundwater Flow

Water elevation data for the second quarter 2025 are presented in **Figure 1**. The water table near the 488-4D Ash Landfill is approximately 4.0 to 7.3 m (13 to 24 ft) bgs, and groundwater in the UTRA flows toward the southwest. Depth to water at the five 488-4D Ash Landfill monitoring

wells ranged from 0.8 to 7.3 m (2.5 to 24.0 ft) bgs throughout 2025. Water elevations at downgradient wells DCB078, DCB079, and DCB080 have been stable or slightly increasing in recent years. Water elevations vary more at well DCB077 due to localized effects from the screen zone being directly above a thick competent clay layer causing some perched effects. Well DCB 8, located within the injection field line of the D-Area Treatability Study, has displayed elevated groundwater elevations since March 2022 due to the groundwater injections. However, the D-Area Treatability Study groundwater injections did not impact groundwater elevations at the four monitoring wells surrounding the 488-4D Ash Landfill. The groundwater injections associated with the D-Area Treatability Study were discontinued in May 2026. Additional information about the D-Area Treatability Study can be found in the most recent treatability study data report (SRNS 2026). Water elevations measured during 2025 are provided in **Table 3** and include any additional measurements collected as part of the D-Area Treatability Study. Hydrographs for the five monitoring wells are provided in **Figures 6 through 8**.

3.2 Results Above Regulatory Threshold Limits

Analytical results from the 2025 sampling show the following six metals/sulfate constituents were detected in the five 488-4D Ash Landfill monitoring wells at concentrations above their applicable regulatory threshold level in at least one monitoring well:

- Aluminum (NSDWS & RSL)
- Beryllium (MCL)
- Cobalt (RSL)
- Iron (NSDWS & RSL)
- Manganese (NSDWS & RSL)
- Sulfate (NSDWS)

These are the same constituents observed within the DAG OU (SRNS 2025). Metals contamination is sourced from the 484-17D CBRB DCSA and 489-D CPRB from low-pH groundwater conditions caused by long-term coal storage and subsequent dissolution of coal and natural aquifer minerals due to acidic water leachate. Although the groundwater has elevated metal concentrations, the concentrations have been generally steady or decreasing for the last eight years. As an example, **Figures 9 through 11** show the time-series plots for beryllium at the five 488-4D Ash Landfill monitoring wells. Additionally, upgradient DAG OU wells, such as DCB 23C, display higher groundwater concentrations of metals including beryllium indicating metals

contamination originates from upgradient sources (i.e., the 484-17D DCSA and 489-D CPRB) (**Figure 2**).

Groundwater will continue to be monitored at the five 488-4D Ash Landfill monitoring wells annually as part of the DAG OU monitoring. Subsequent 488-4D Ash Landfill groundwater data will be reported in July the year after the data was collected.

4.0 REFERENCES

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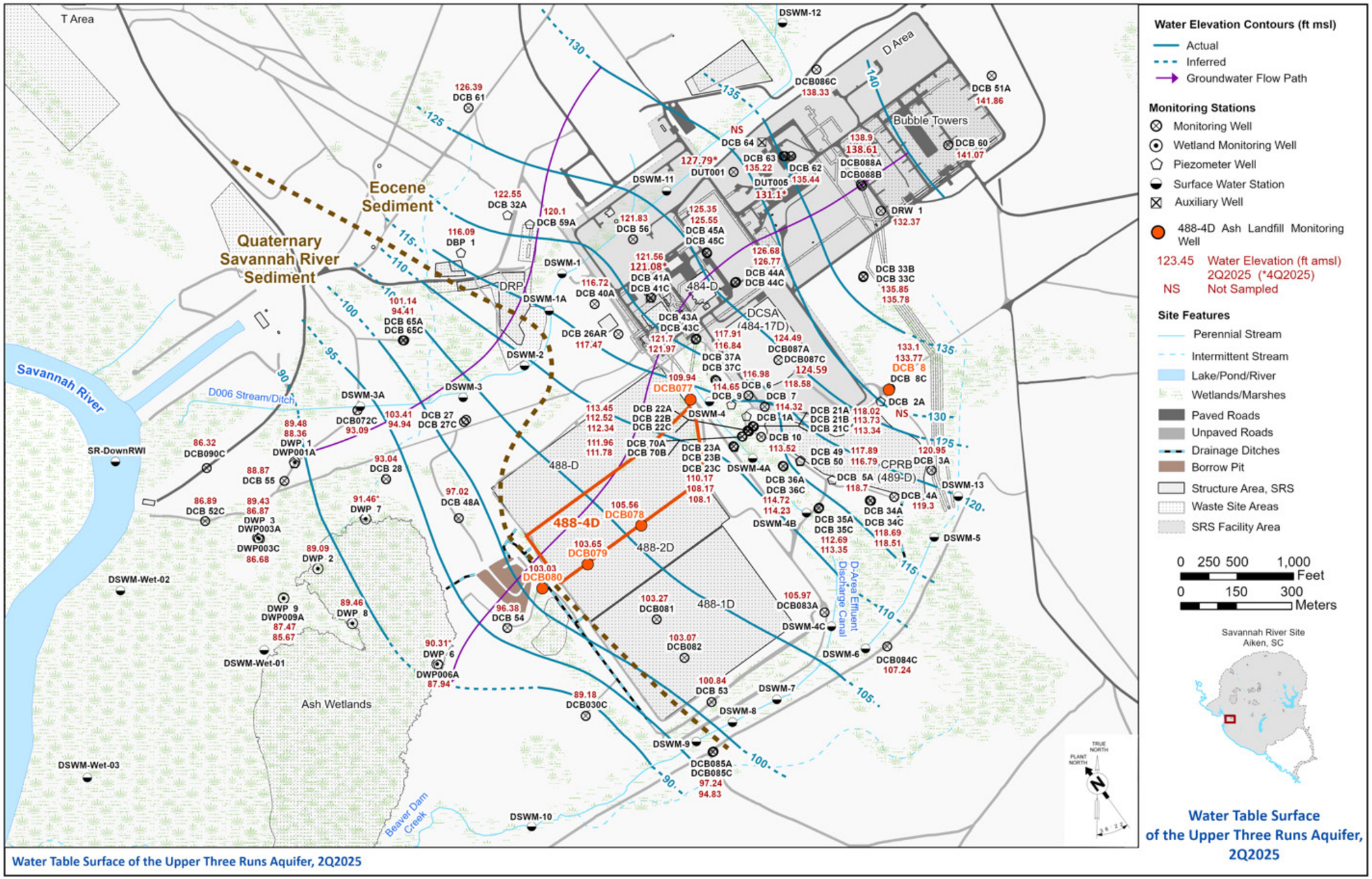


Figure 1. Monitoring Well Locations at the 488-4D Ash Landfill and 2Q2025 Water Level Elevations

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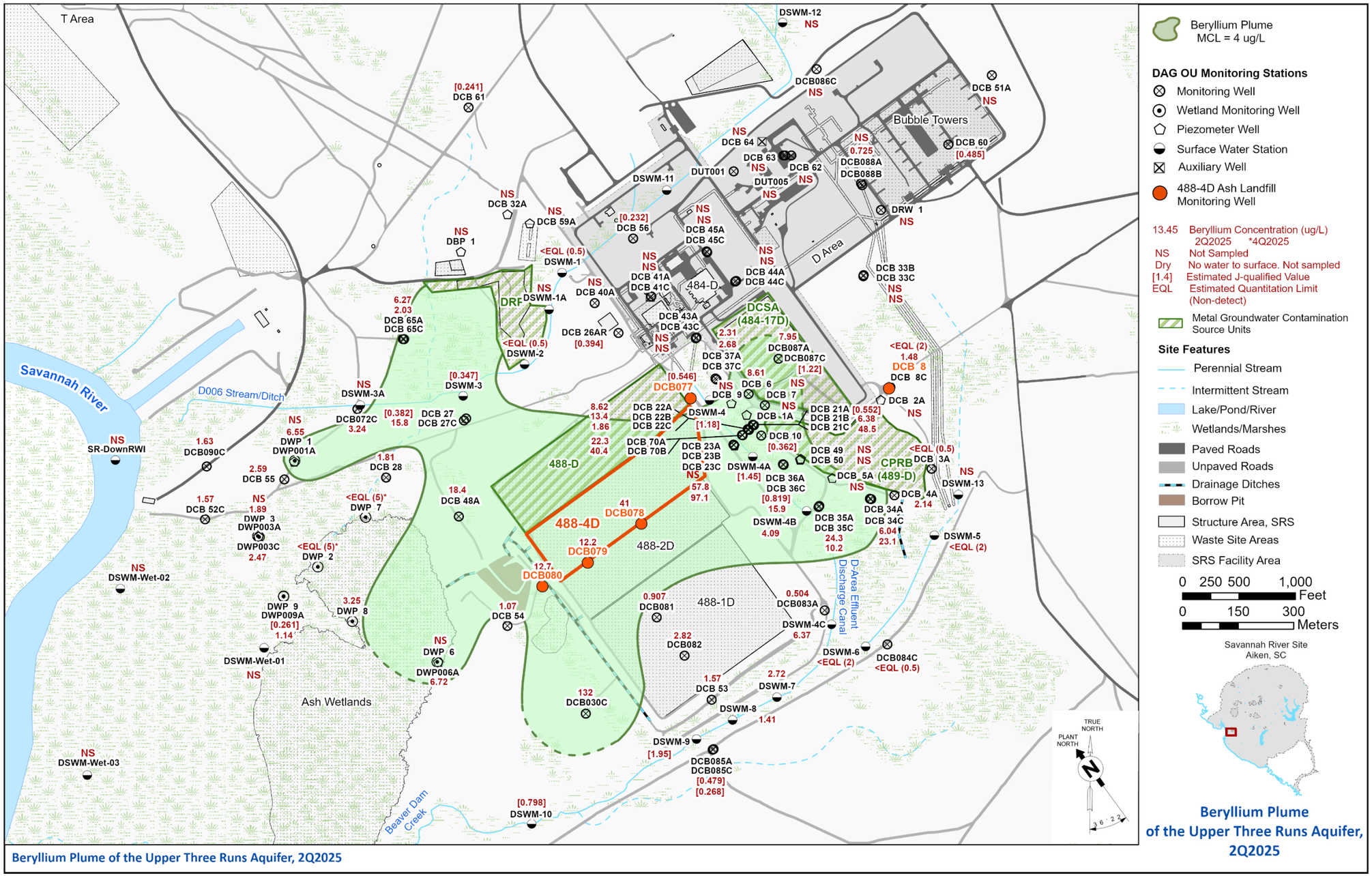


Figure 2. Beryllium Concentrations at the 488-4D Ash Landfill, Second Quarter 2025

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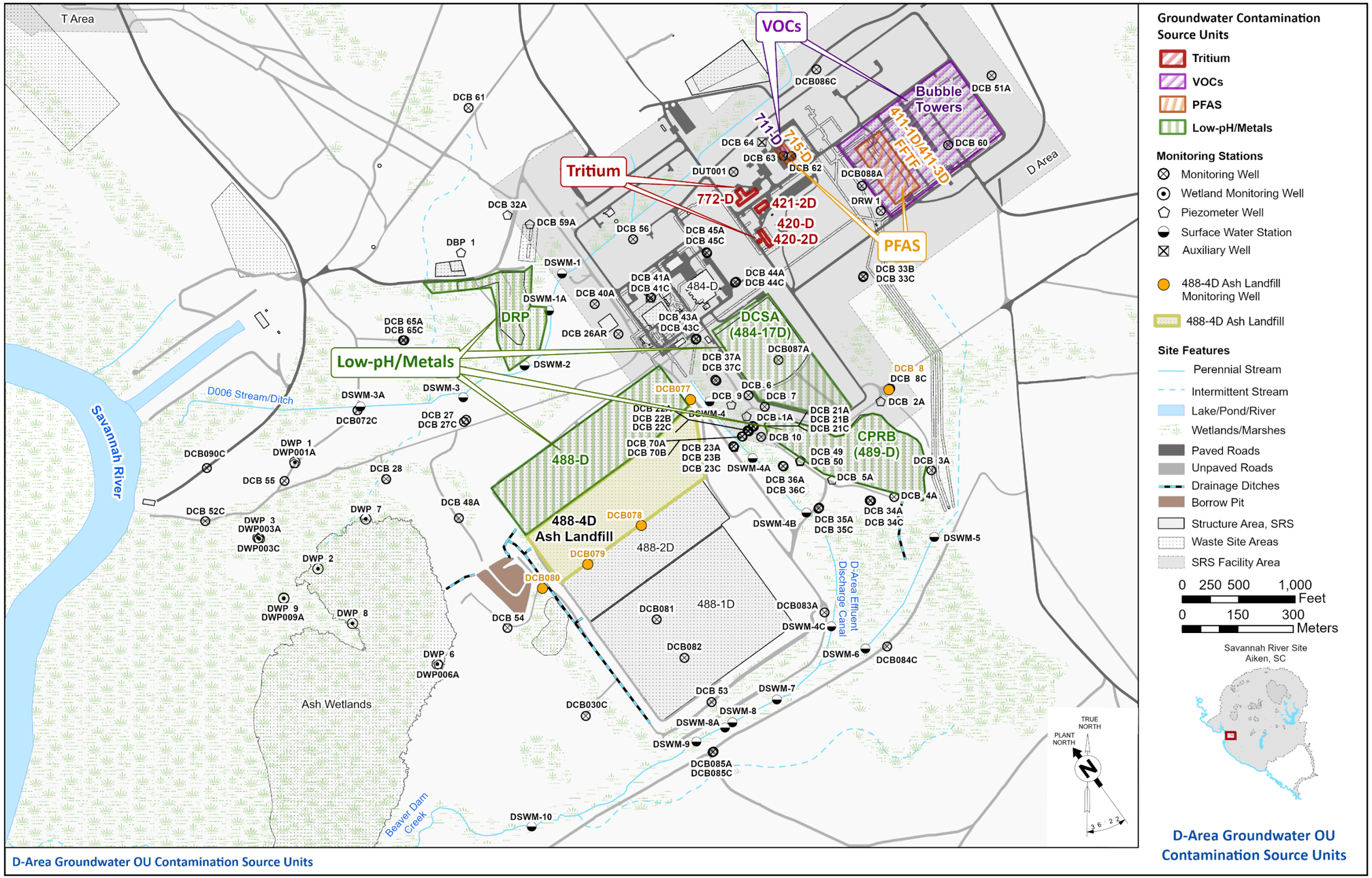


Figure 3. Upgradient Sources of Tritium, VOCs, and PFAS Constituents in D Area

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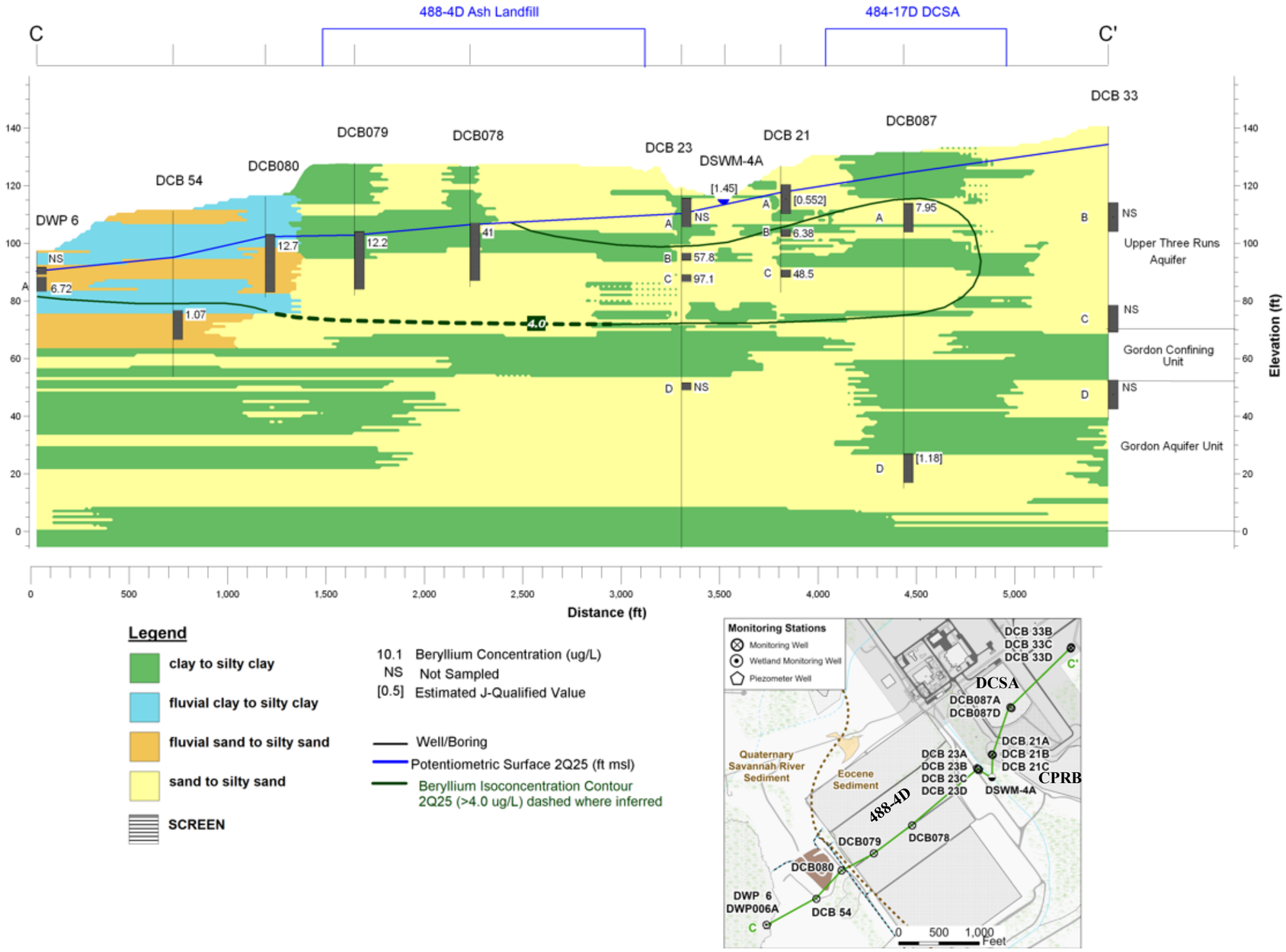


Figure 4. Cross-Sectional View at the 488-4D Ash Landfill and Surrounding Area with Beryllium Plume and Water Elevations from 2Q2025

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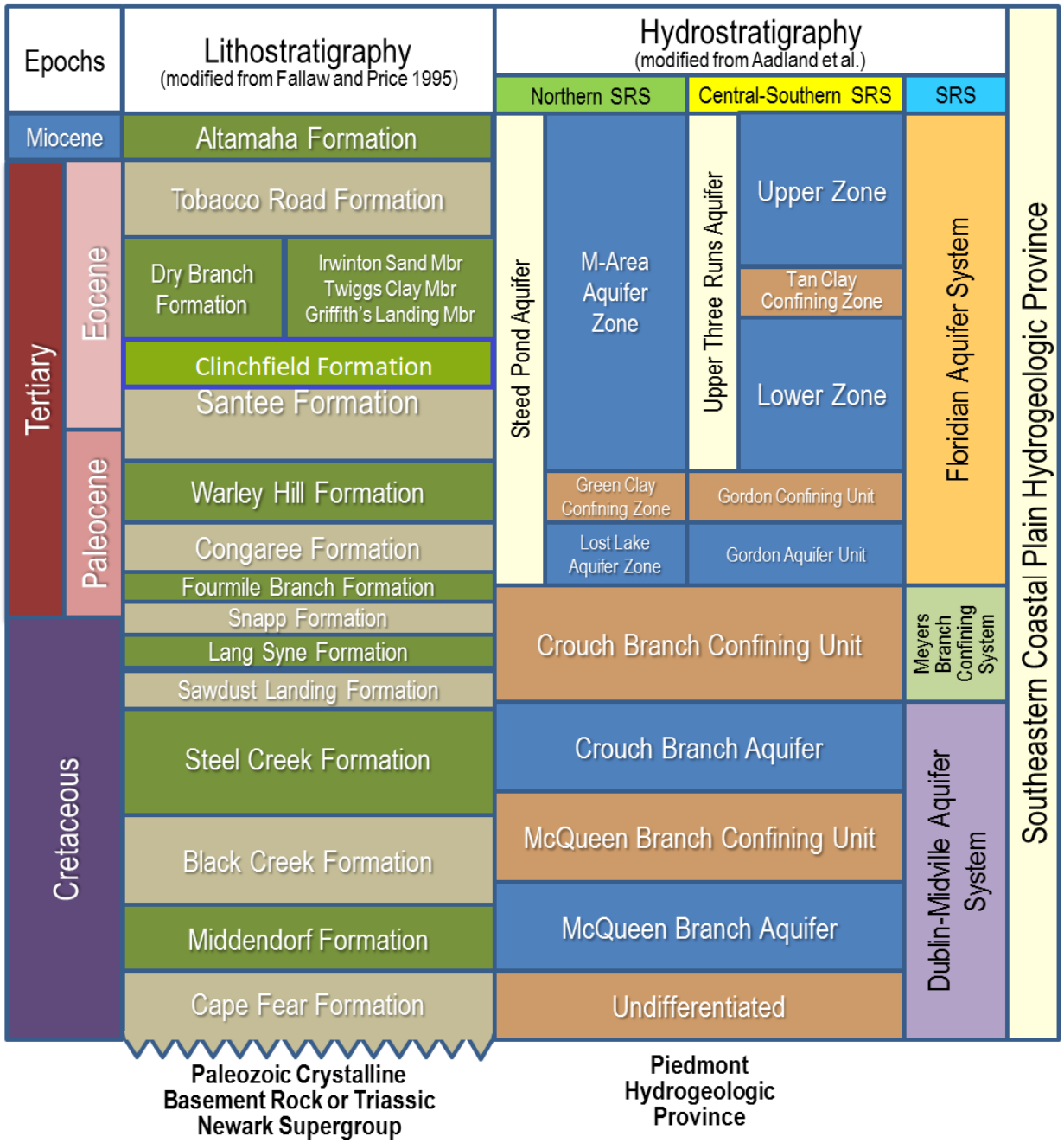
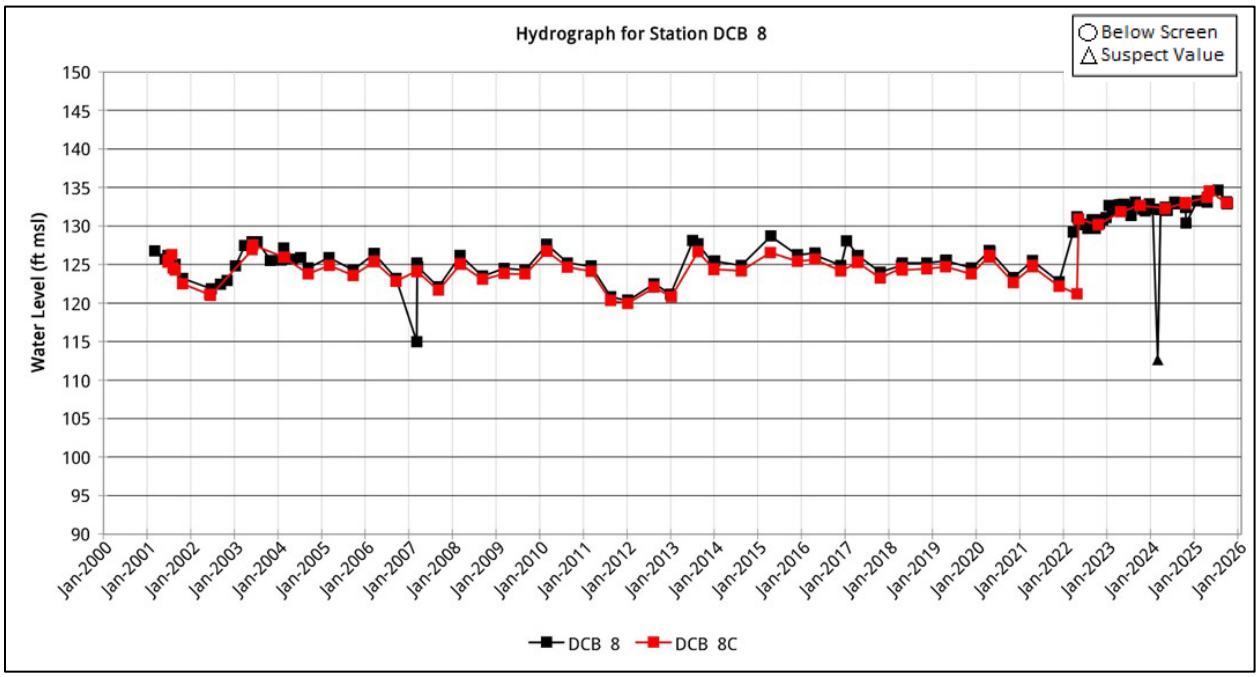


Figure 5. Lithostratigraphic and Hydrostratigraphic Units at SRS

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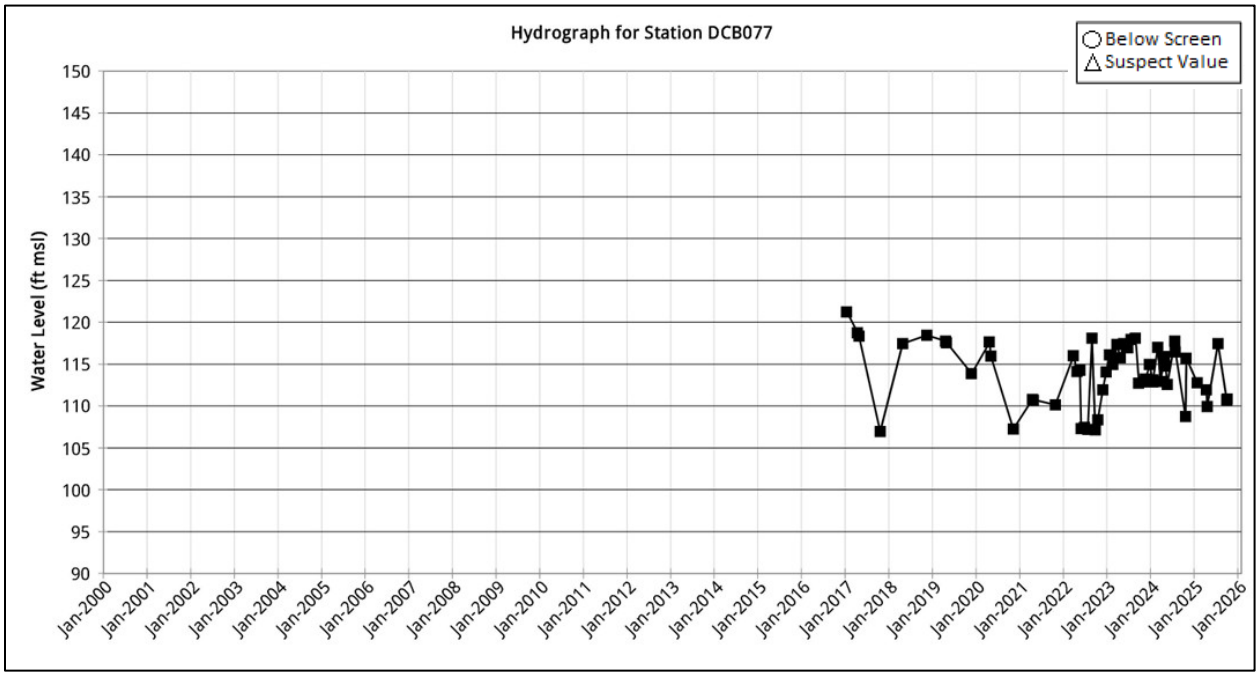
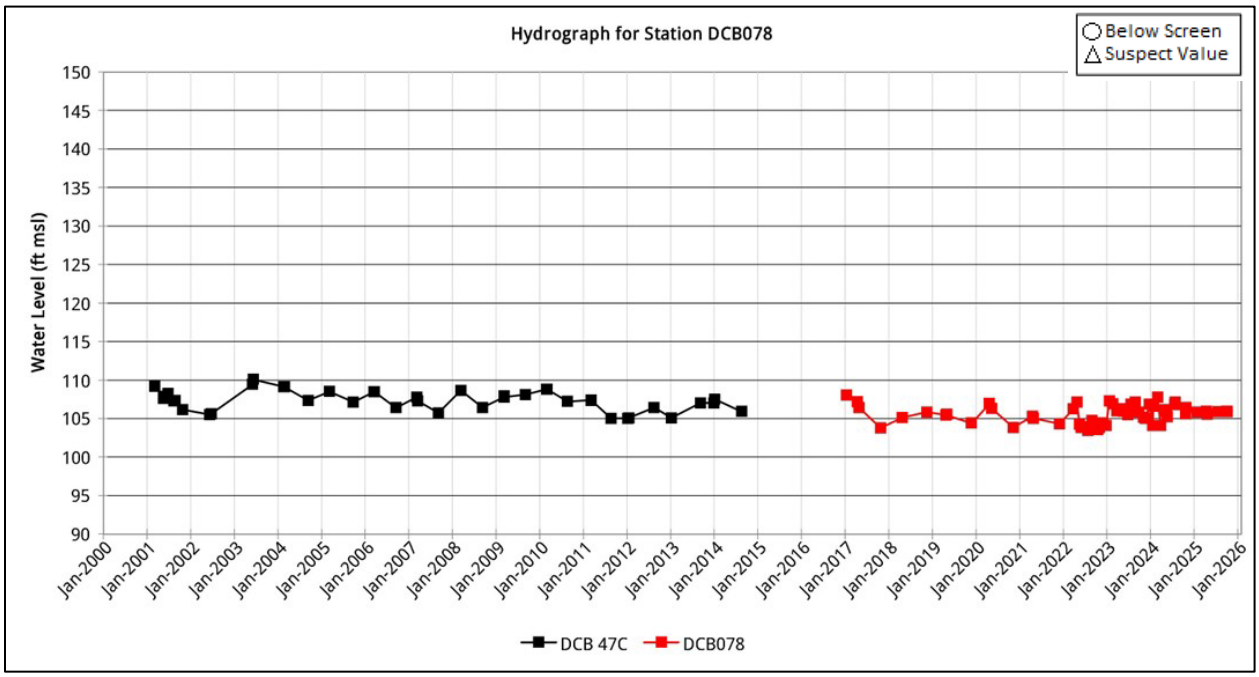


Figure 6. Hydrographs at DCB 8 and DCB077



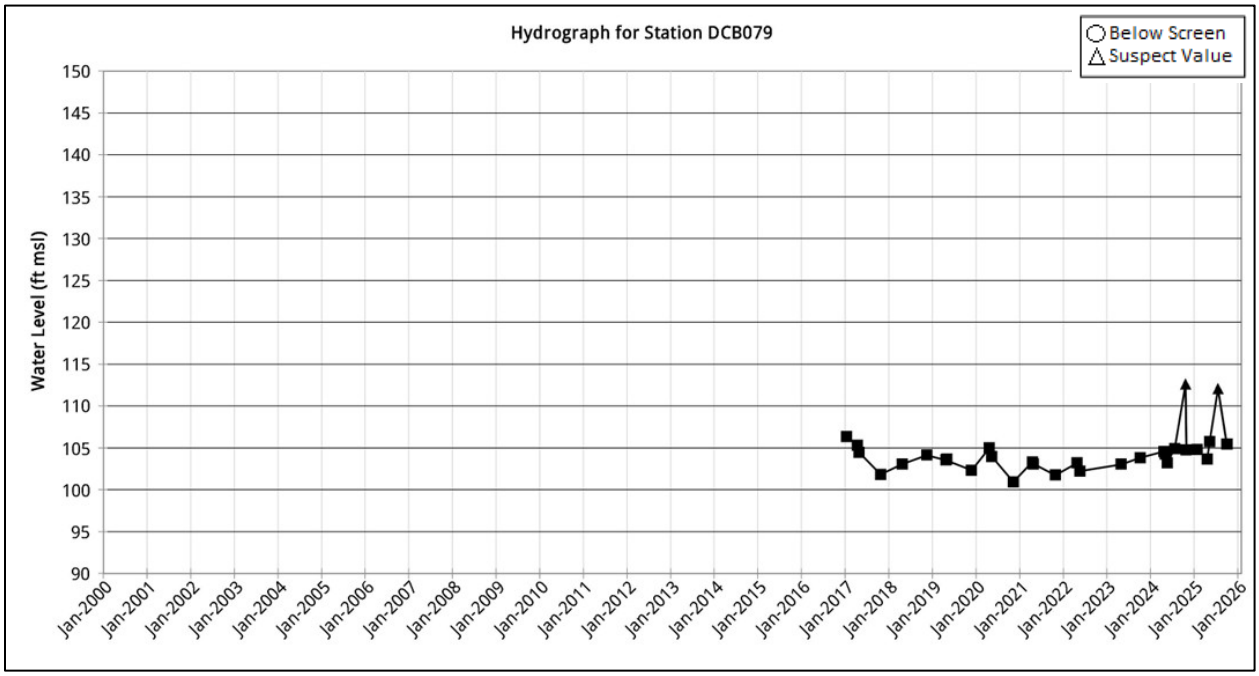


Figure 7. Hydrographs at DCB078 (and abandoned well DCB 47C) and DCB079

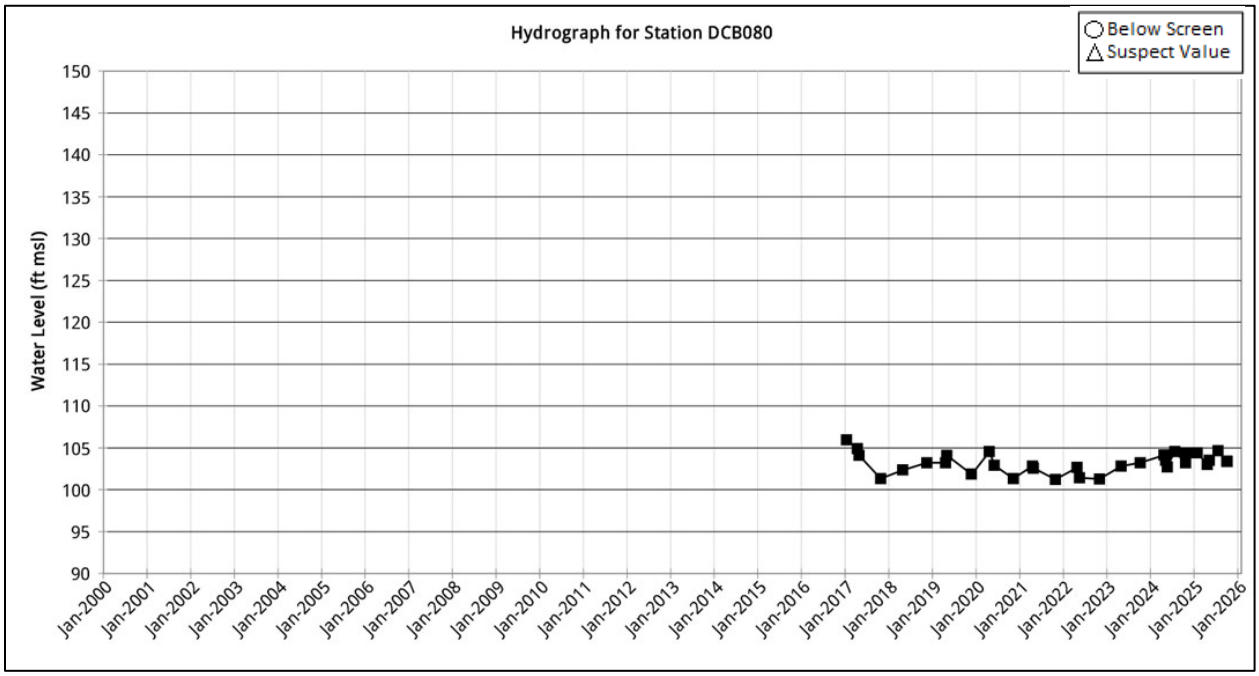
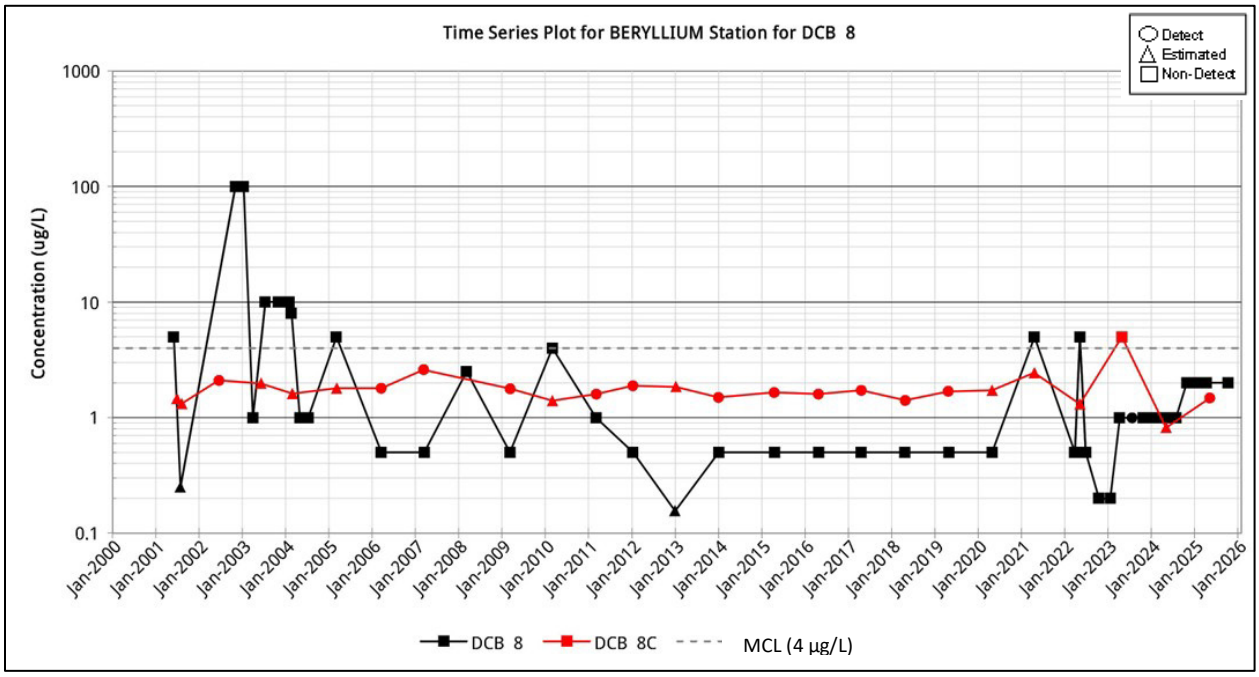


Figure 8. Hydrograph at DCB080



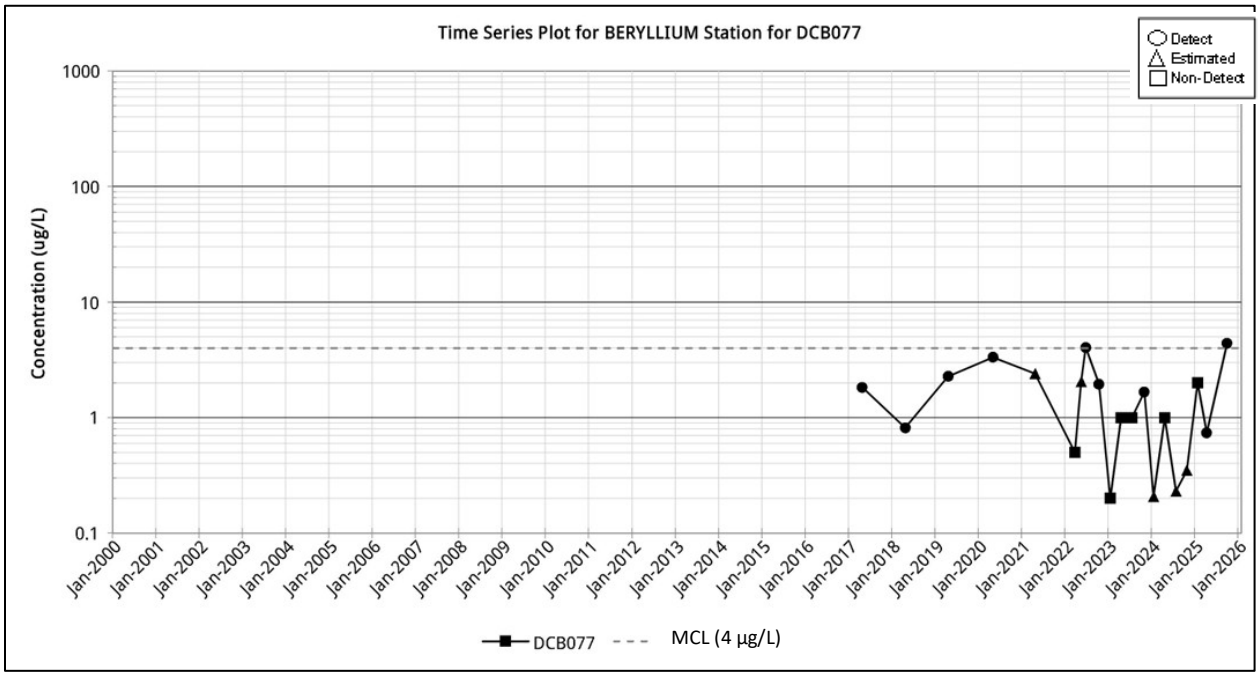
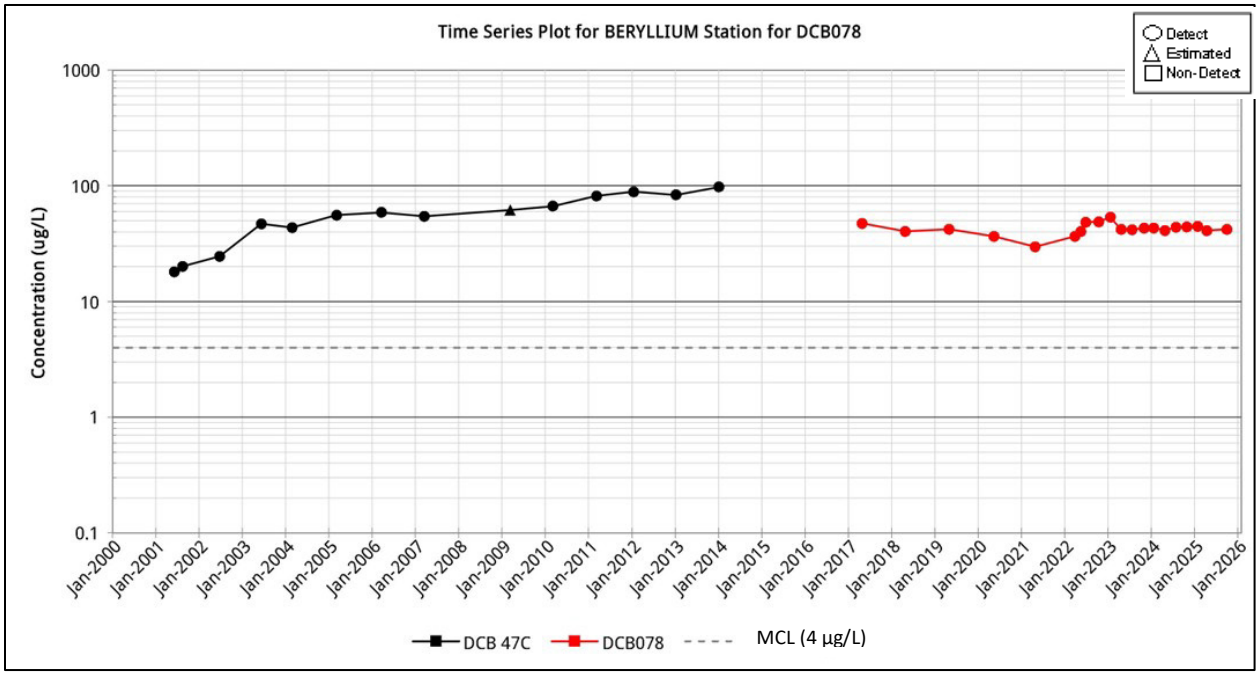


Figure 9. Beryllium Time Series Plots at DCB 8 and DCB077



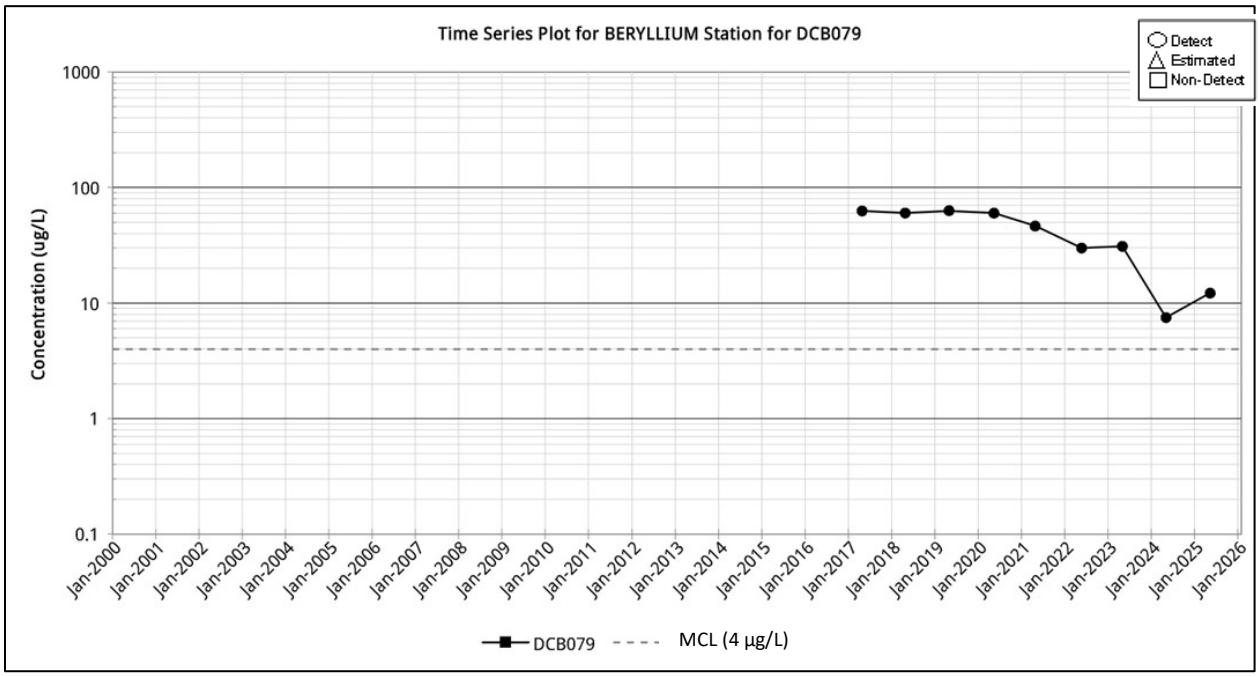


Figure 10. Beryllium Time Series Plots at DCB078 (and abandoned well DCB 47C) and DCB079

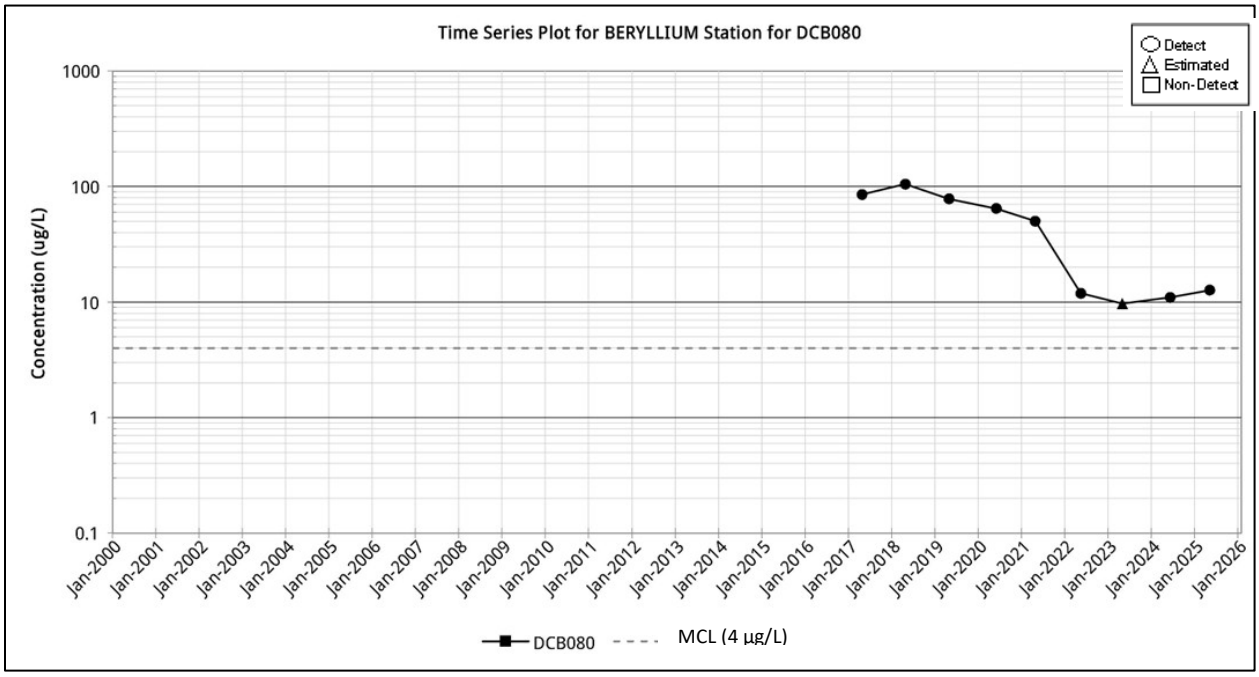


Figure 11. Beryllium Time Series Plot at DCB080

Table 1. Groundwater Monitoring Network at the 488-4D Ash Landfill

Station	Well Use	Aquifer	UTM East (NAD 27)	UTM North (NAD 27)	Reference Elevation *(ft amsl)*	Ground Elevation *(ft amsl)*	Depth to Top of Screen Zone *(ft bgs)*	Depth to Bottom of Screen Zone *(ft bgs)*
DCB 8	upgradient	UTRA	431521.3	3673555.1	137.20	134.80	4.5	24.5
DCB077	upgradient	UTRA	430985.68	3673528.71	130.64	127.7	9.7	29.7
DCB078	downgradient	UTRA	430852.27	3673189.19	126.56	126.7	19.7	39.7
DCB079	downgradient	UTRA	430707.50	3673083.91	127.65	127.8	23.7	43.7
DCB080	downgradient	UTRA	430585.51	3673019.20	119.03	116.1	13.1	33.1

UTM – Universal Transverse Mercator; NAD – North American Datum; UTRA – Upper Three Runs Aquifer (water table)

Table 2. Required Monitored Constituents for the 488-4D Ash Landfill

Monitoring Well	Second Quarter	Fourth Quarter
DCB 8	Fp, M, S, U	W
DCB077	Fp, M, S	W
DCB078	Fp, M, S	W
DCB079	Fp, M, S	W
DCB080	Fp, M, S	W

Fp-Field Parameters; M-Metals; S-Sulfate; U-Uranium; W-Water Elevation Only

Metals/Sulfate	
Aluminum	Magnesium
Antimony	Manganese
Arsenic	Mercury
Barium	Nickel
Beryllium	Potassium
Cadmium	Selenium
Calcium	Silver
Chromium	Sodium
Cobalt	Sulfate
Copper	Thallium
Iron	Vanadium
Lead	Zinc

Field Parameters
Depth to Water
Purge Volume
Turbidity
Water Temperature
pH
Specific Conductance
Alkalinity
Dissolved Oxygen

Table 3. 2025 Sampling Results for the 488-4D Ash Landfill

See insert on next page

DOSB 2025 Field Parameters Table

			Field Data															Analytical Data							
			SAMPLE COLLECTION DATE	DEPTH TO WATER	SAMPLING EVENT WATER ELEVATION	OXIDATION/REDUCTION POTENTIAL	OXYGEN	PH	PHENOLPHTHALEIN ALKALINITY (AS CACO3)	SPECIFIC CONDUCTANCE	TOTAL ALKALINITY (AS CACO3)	TURBIDITY	VOLUME PURGED	WATER TEMPERATURE	SYNCHRONOUS WATER ELEVATION	SYNCHRONOUS MEASUREMENT DATE	FIELD CONDITIONS	Compliance Comparison	1,1-DICHLOROETHYLENE	BENZENE	CHLOROETHENE (VINYL CHLORIDE)	CIS-1,2-DICHLOROETHYLENE	DICHLOROMETHANE (METHYLENE CHLORIDE	TETRACHLOROETHYLENE (PCE)	TRICHLOROETHYLENE (TCE)	1,4-DIOXANE
																		Unit	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
																		Limit for Plume Boundary Wells - MZCL	7	5	147	1164	5	78	200	
																		Limit for Plume Boundary Wells - MCL	7	5	2	70	5	5	5	0.46*
Station	Well Use	Aquifer Zone	Day-Month-Year	ft	ft msl	mV	mg/L	pH	mg/L	uS/cm	mg/L	NTU	gal	degC	ft	Day-Month-Year		Limit for Each Well								
DOB 11	Additional	AQ2	21-May-2025	8.63	146.1	-11	4.83	7.3	0	250	164	81	6	18.4	146.1	22-May-2025	No Comments	NR	<EQL (1)	[0.92]	2.97	5.69	<EQL (5)	1.78	7.62	NS
DOB 12	Additional	AQ2	21-May-2025	8.6	147.275	210	4.4	5.4	0	60	8	3.2	5	18.2	147.275	22-May-2025	No Comments	NR	<EQL (1)	<EQL (1)	<EQL (1)	2.16	<EQL (5)	1.99	3.64	NS
DOB 13	Additional	AQ2	21-May-2025	9.97	145.753	200	5.73	5.5	0	63	17	3.9	7	19.1	145.753	22-May-2025	No Comments	NR	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 14	Additional	AQ2	21-May-2025	9.73	145.945	201	6.71	5.5	0	49	17	5.8	4	18.8	145.945	22-May-2025	No Comments	NR	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 9	Background Well	AQ1/2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	MCL	NS	NS	NS	NS	NS	NS	NS	NS
DOL 1	Background Well	AQ3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	No Comments	MCL	NS	NS	NS	NS	NS	NS	NS	NS
DOB 20	Boundary Compliance	AQ3	21-May-2025	9.07	143.153	120	4.99	6.3	0	208	9	0.5	13	18.8	143.153	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 20A	Boundary Compliance	AQ1/2	21-May-2025	9.05	142.907	193	4.95	4.7	0	46	0	0.9	9	17.6	142.907	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 21	Boundary Compliance	AQ3	21-May-2025	8.48	142.721	21	4.49	6.8	0	154	10	0.5	13	18.8	142.721	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 21A	Boundary Compliance	AQ1/2	21-May-2025	8.62	142.748	153	4.77	5	0	46	1	0.7	8	17.8	142.748	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 21PZ	Boundary Compliance	GAU	21-May-2025	17.68	133.674	183	3.39	4.7	0	39	0	0.3	31	19	133.674	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 22	Boundary Compliance	AQ3	21-May-2025	9.29	140.831	38	1.59	6.6	0	140.2	18	1.1	13	19	140.831	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	[0.35]	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 22A	Boundary Compliance	AQ1/2	21-May-2025	9.12	140.683	194	3.21	4.9	0	49	9	0.3	10	18.5	140.683	22-May-2025	No Comments	MCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 15	Plume Compliance	AQ3	21-May-2025	7.93	145.515	284	3.44	4.6	0	183	0	1.1	10	18.5	145.515	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	8.36	39.1	<EQL (5)	3.94	10.1	0.628
DOB 15A	Plume Compliance	AQ2	21-May-2025	6.45	146.288	68	4.1	5.8	0	129	18	1	10	18	146.288	22-May-2025	No Comments	MZCL	<EQL (1)	[0.89]	8.81	10.7	<EQL (5)	1.72	3.34	NS
DOB 15D	Plume Compliance	GAU	21-May-2025	10.1	142.858	205	5.6	4.9	0	32	0	1	30	19	146.508	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 15PZ	Plume Compliance	GAU	21-May-2025	12.7	139.817	178	3.5	4.8	0	52	0	0.8	30	19.1	139.817	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (1)	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOB 16	Plume Compliance	AQ_Unnamed	21-May-2025	9.26	144.793	12	3.97	6.3	0	242	72	1.7	12	17.9	144.793	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	[0.63]	8.17	<EQL (5)	<EQL (1)	<EQL (1)	3.01
DOB 19	Plume Compliance	AQ3	21-May-2025	6.31	143.113	144	2.77	6.6	0	170.3	16	0.7	13	19.6	143.113	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	<EQL (1)	1.4	<EQL (5)	<EQL (1)	[0.35]	NS
DOB 19A	Plume Compliance	AQ2	21-May-2025	6.42	142.765	120	2.72	6.4	0	174.2	14	0.7	8	18.5	142.765	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	[0.74]	2.03	<EQL (5)	<EQL (1)	[0.7]	NS
DOB 23	Plume Compliance	GAU	21-May-2025	8.92	140.467	202	2.98	5.5	0	42.8	14	0.9	22	19.2	140.467	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	<EQL (1)	[0.79]	<EQL (5)	<EQL (1)	<EQL (1)	NS
DOL 2	Plume Compliance	AQ3	21-May-2025	11.63	144.46	260	4.83	4.5	0	203	0	4.8	11	18	144.46	22-May-2025	No Comments	MZCL	<EQL (1)	<EQL (1)	[0.71]	10.6	<EQL (5)	1.99	5.31	1.57
DOBSW1	Surface Water	AQ1/2	21-May-2025	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	NS	NS	NS	Dry	NR	NS	NS	NS	NS	NS	NS	NS	NS

* The Regional Screening Value (RSL) is used for 1,4-Dioxane instead of an MCL

Explanation

[##]	EPA Functional Guideline Code of 'J' was applied to the result, indicating an estimated quantity.
<EQL(##)	Constituent was below detection. The sample-specific Estimated Quantitation Limit is in parentheses.
	Result exceeds applicable limit.
	Result exceeds MCL but is below the applicable limit of the MZCL
REJ	Result Rejected.
	Result is less than the applicable limit and without EPA Functional Guidline qualifiers.
NS	Requested to be sampled but was not. See comments as to why not.
Blue Text	Not a required sample analysis.
NA	Not Applicable