## APPENDIX D – CCR MANAGEMENT UNIT CROSS SECTIONS



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Exhibit No. D-1

Title

# **Cross Section Transect Map**

### Client/Project

# Tennessee Valley Authority Johnsonville Fossil (JOF) Plant TDEC Order

Project Location New Johnsonville, Tennessee				175568286 Prepared by DMB on 2023-08-17 Technical Review by MD on 2023-08-17						
	0	450	900	1,350	1,800					
_	1	:5,400 (At orig	jinal docum	ent size of 22	x34)					
Leg	end									
	- Cross S	ection Alignm	ient							
•	Boring	Boring								
<del>\$</del>	Ground	Groundwater Investigation Monitoring Well								
<b></b>	Other N	Other Monitoring Well								
<b>+</b>	Tempo	Temporary Well within CCR Material								
÷	Tennes	Tennessee River/Kentucky Lake Gauging Station								
	2017 Imagery Boundary									
	2018 lm	2018 Imagery Boundary								
	CCR Management Unit Area (Approximate)									
	Former	Coal Yard (A	pproximate	)						
	Former	Stilling Pond (	Approximat	e)						

CCR: Coal combustion residuals

#### Notes Coordinate System: NAD 1983 StatePlane Tennessee FIPS 4100 Feet Imagery Provided by TVA (2017 & 2018) and Esri World Imagery Marshal Kentucky Todd lickman Calloway Montgomery Cheatham Weakley Houston Johnsonville Fossil Plant Tennessee Dickson Humphreys Gibson Carroll Williamson Hickman Decatur Henderson Perr



Page 01 of 01



(13) NOILY 420 NOILY 420 







SCREEN INTERVAL SHOWING GROUNDWATER PRESSURE EXPRESSED IN FEET OF ELEVATION (AUGUST 10-11, 2020)

SCREEN INTERVAL SHOWING PORE WATER PRESSURE EXPRESSED IN FEET OF ELEVATION (AUGUST 10-11, 2020)







SCREEN INTERVAL SHOWING PORE WATER PRESSURE EXPRESSED IN FEET OF ELEVATION

GENERAL GROUNDWATER FLOW DIRECTION SCREEN INTERVAL SHOWING GROUNDWATER PRESSURE EXPRESSED IN FEET OF ELEVATION

					D' (	(E)
						440
						420
						420
						400
						+00
					00	380
					00.	
					22+	360
					.1	
					STA	340
					INE	320
					CHL	
					1AT(	300
					~	
						280
						260
116-	+00	 +00	120+	00	122	+00

# Exhibit No. D-4 **CROSS SECTION - ACTIVE ASH POND 2** AND FORMER COAL YARD

Client/Project

Tennessee Valley Authority Johnsonville Fossil (JOF) Plant

Project Location

New Johnsonville, Tennessee

175568286 Prepared by KB on 2023-12-21 Technical Review by MD on 2023-12-21



Water Table turated Zone Aquifer Groundwater Flow Direction

Groundwater is subsurface water that occurs in pore spaces in soil or bedrock. Groundwater level measurements taken in a well screened near the water table in an unconfined aquifer represent the water level in the aquifer. Groundwater level measurements are used to estimate directions of groundwater movement. Groundwater generally flows much more slowly than water in a surface stream or river.

## Notes

- 1. Elevations are in feet amsl
- 2. Groundwater and pore water elevation data are from the CUF Plant Groundwater Investigation SAR event.
- 3. Complexity of bedrock not shown herein; refer to Bulletin 68 (Wilson, et al 1968) for a more detailed discussion of bedrock geology.



