



**Service
Authority**
AMHERST COUNTY | VIRGINIA



Raw Water Withdrawal Permit

James River Raw Water Pumping Station Project



- August 1, 2023
- Board of Directors Meeting

REASON FOR PROJECT

- VWP INDIVIDUAL PERMIT # 08-0619 – EXPIRATION MAY 2, 2025
- PERMIT ALLOWS FOR
 - TEMPORARY DISTURBANCE OF 0.735ACRE OF JAMES RIVER BOTTOM TO CONSTRUCT AND OPERATE A PERMANENT SURFACE WATER INTAKE STRUCTURE
 - TOTAL SURFACE WATER WITHDRAWAL OF 3.0 MGD FROM COMBINED SOURCES OF HARRIS CREEK AND GRAHAM CREEK RESERVOIR
 - WITHDRAW SURFACE WATER FROM JAMES RIVER TO REFILL GRAHAM CREEK RESERVOIR IN ACCORDANCE WITH SPECIAL CONDITIONS

MEET WITH DEQ

REGARDING VWP PERMIT

- MET IN RICHMOND AT DEQ OFFICE MONDAY 6/12/23
- MET WITH DEQ STAFF
 - ELIZABETH GALLUP – SURFACE WATER WITHDRAWAL TEAM LEAD (PERMIT WRITER)
 - MEGHAN MAYFIELD – DIRECTOR OFFICE OF WATER WITHDRAWAL
 - SCOTT MORRIS – CHIEF DEPUTY/DIRECTOR OF WATER
- DISCUSSED ISSUE “IS THE JAMES RIVER WITHDRAWAL A REQUIREMENT” – NO
- DISCUSSED CURRENT WATER WITHDRAWAL LEVELS – WELL UNDER PERMIT
- DISCUSSED PERMIT RENEWAL 2025
 - JAMES RIVER WITHDRAWAL NOT NEEDED FOR 3MGD LEVEL
 - WHEN IT BECOMES NEEDED IT IS A SIMPLE PERMIT MODIFICATION EFFORT (WITH MODIFICATION FEE)
- DEQ WOULD RATHER WE NOT DISTURB JAMES RIVER IF NOT NEEDED

JAMES RIVER WITHDRAWAL SPECIAL CONDITIONS

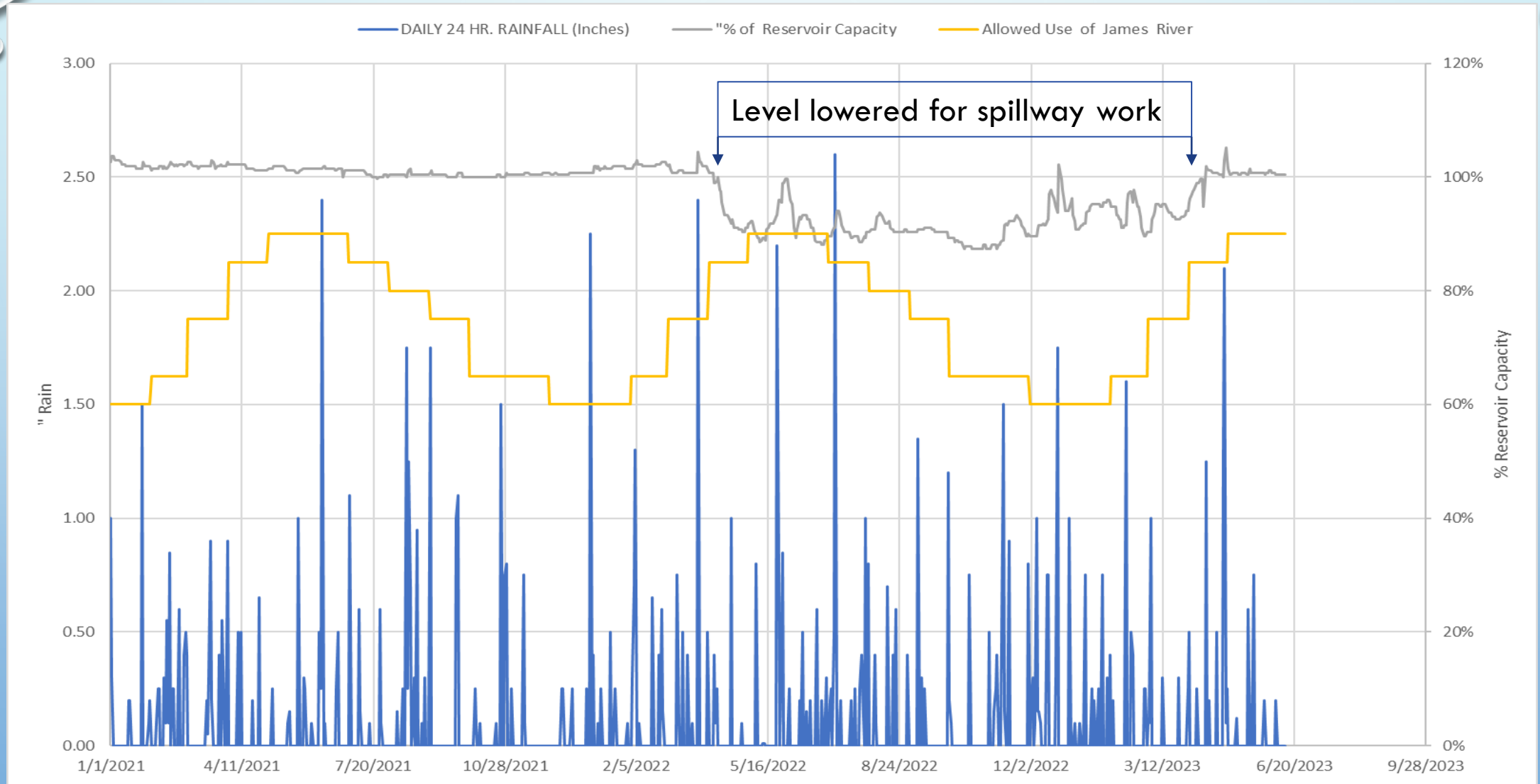
NO WITHDRAWAL FROM JAMES RIVER IS AUTHORIZED UNLESS USEABLE
RESERVOIR TRIGGERS ARE REACHED

Maximum Withdrawal (MGD)	Table 1: Usable Reservoir Volume Remaining Trigger (%) for James River Withdrawal											
	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec
1.5	<60	<65	<75	<85	<90	<90	<85	<80	<75	<70	<65	<60
2.0 ¹	<50	<55	<65	<75	<80	<80	<75	<70	<65	<60	<55	<50
3.0 ²	<35	<40	<50	<60	<65	<65	<60	<55	<50	<45	<40	<35

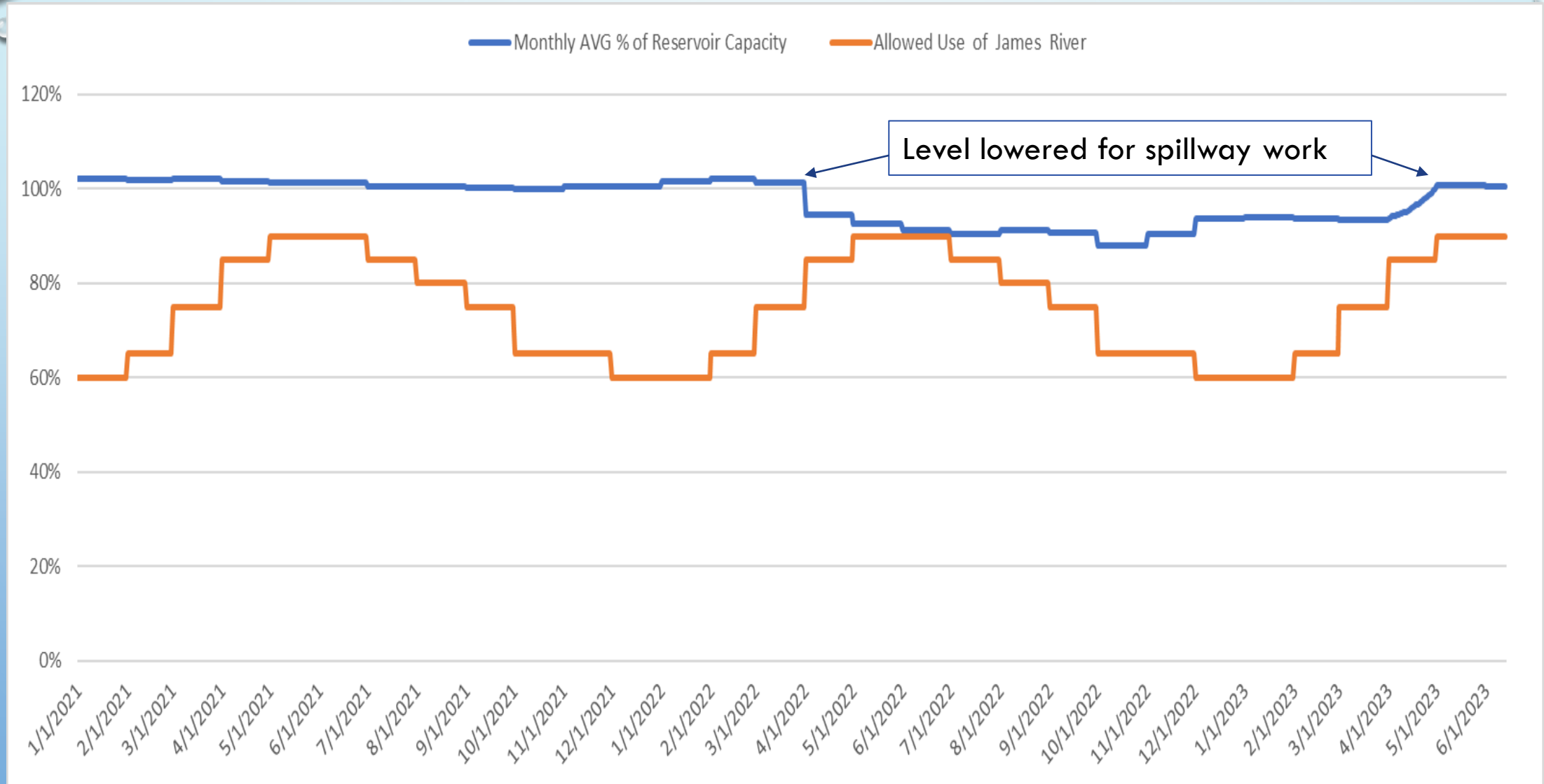
1 Voluntary water conservation measures shall be applied in the Amherst County Service Authority service area, as detailed in the most current version of the Region 2000 Regional Drought Response and Contingency Plan.

2 Mandatory water conservation measures shall be applied in the Amherst County Service Authority service area, as detailed in the most current version of the Region 2000 Regional Drought Response and Contingency Plan.

% OF RESERVOIR CAPACITY



ALLOWED USAGE OF JAMES RIVER



OTHER FACTORS

- EXISTING H.L. LANUM, JR. WATER TREATMENT PLANT CAPACITY IS 2 MGD
- EXISTING WATER PRODUCED 1.1 MGD ON AVERAGE
- SAFE YIELD FOR COMBINED SOURCES OF HARRIS CREEK AND GRAHAM CREEK RESERVOIR IS 3 MGD
- INTERCONNECTION WITH CITY OF LYNCHBURG
- REGION 2000 2050 REGIONAL WATER DEMAND IS 5 MGD

RECOMENDATIONS

- NOT CONSTRUCT JAMES RIVER RAW WATER PUMP STATION AT THIS TIME
- RETAIN FUNDS ACQUIRED THROUGH INTERIM FINANCING UNTIL.....
- STRATEGIC PLANNING AND WATER AND WASTEWATER SYSTEMS MASTER PLANNING CAN BE ACCOMPLISHED

QUESTIONS



