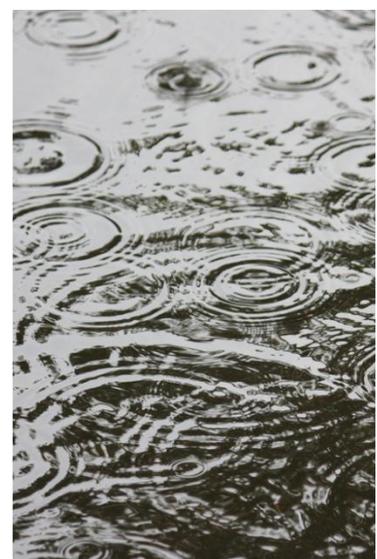


Presented to an advisory committee of the DRBC on February 11, 2026. Contents should not be published or re-posted in whole or in part without the permission of DRBC.

# Storage Study Phase II Update

Chad Pindar, P.E.  
*Manager of Water Resource Planning*

Water Management Advisory  
Committee  
February 11, 2026



# Storage Study Phase II Update – WMAC; Feb 11, 2026

## ■ Agenda

- Storage Study Phase I refresher
- DRB Water Management Schematic
- Current status of Phase II projects considered
  - Moores Station Quarry, Mercer County, NJ (closed)
  - Penns Park Quarry, Bucks County, PA (active)
  - Evansville Quarry, Berks County, PA (active)
  - Cannonsville Reservoir, Delaware County, NY



# Storage Study Phase II Update – WMAC; Feb 11, 2026

April 2023

## EVALUATION OF ADDITIONAL STORAGE IN THE DELAWARE RIVER BASIN

Technical Report No. 2023-2

*Prepared by Mott MacDonald in  
association with GEI Consultants*

Managing, Protecting and Improving  
the Water Resources of the  
Delaware River Basin since 1961



## *Evaluation of Additional Storage in the Delaware River Basin - published April 2023*

- Technical Report No. 2023-2
- <https://www.state.nj.us/drbc/programs/flow/reservoir-storage-study.html>
- Prepared by Mott MacDonald in association with GEI Consultants
  - Mott MacDonald team: Kirk Barrett, Gary Snyder, Jane Rowan, Ken Najjar
  - GEI team: Katie Laird, Roger Putty
  - Normandeau Associates
  - Advisors: Anthony Bonasera, Tony Fernandes, Frank Falcone
- Suggested Citation:

DRBC (2023). *Evaluation of Additional Storage in the Delaware River Basin: Technical Report No. 2023-2*. Prepared by Mott MacDonald in association with GEI Consultants. West Trenton, New Jersey. Delaware River Basin Commission.

# Storage Study Phase II Update – WMAC; Feb 11, 2026

**Table 1.3-1: Number of Potential Projects Involved at Different Stages in the Study**

Project Stage	Potential Storage Project Category				Total
	New reservoirs	Existing reservoirs	Quarries	Abandoned mines	
Identifying potential projects	22	1,041	1,421	29	2,513
Passing pre-screening	22	34	66	5	127
Passing initial screening	7	16	33	5	61
Passing supplemental screening (evaluated projects)	7	8	18	5	38
Recommended projects	0	2	12	0	14

These 38 projects all had Storage Project Summaries (SPS) developed.

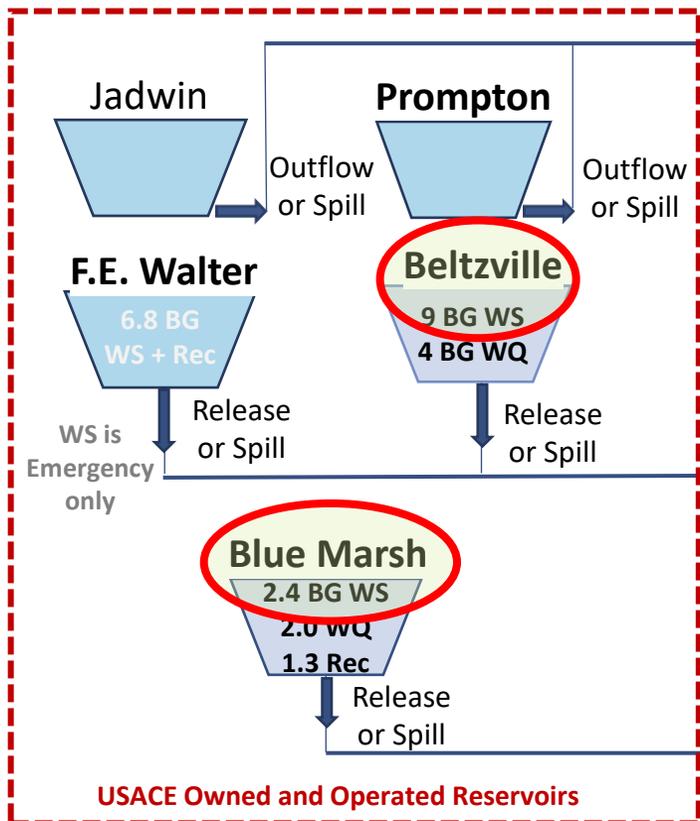
Pre-Screening

Initial Screening

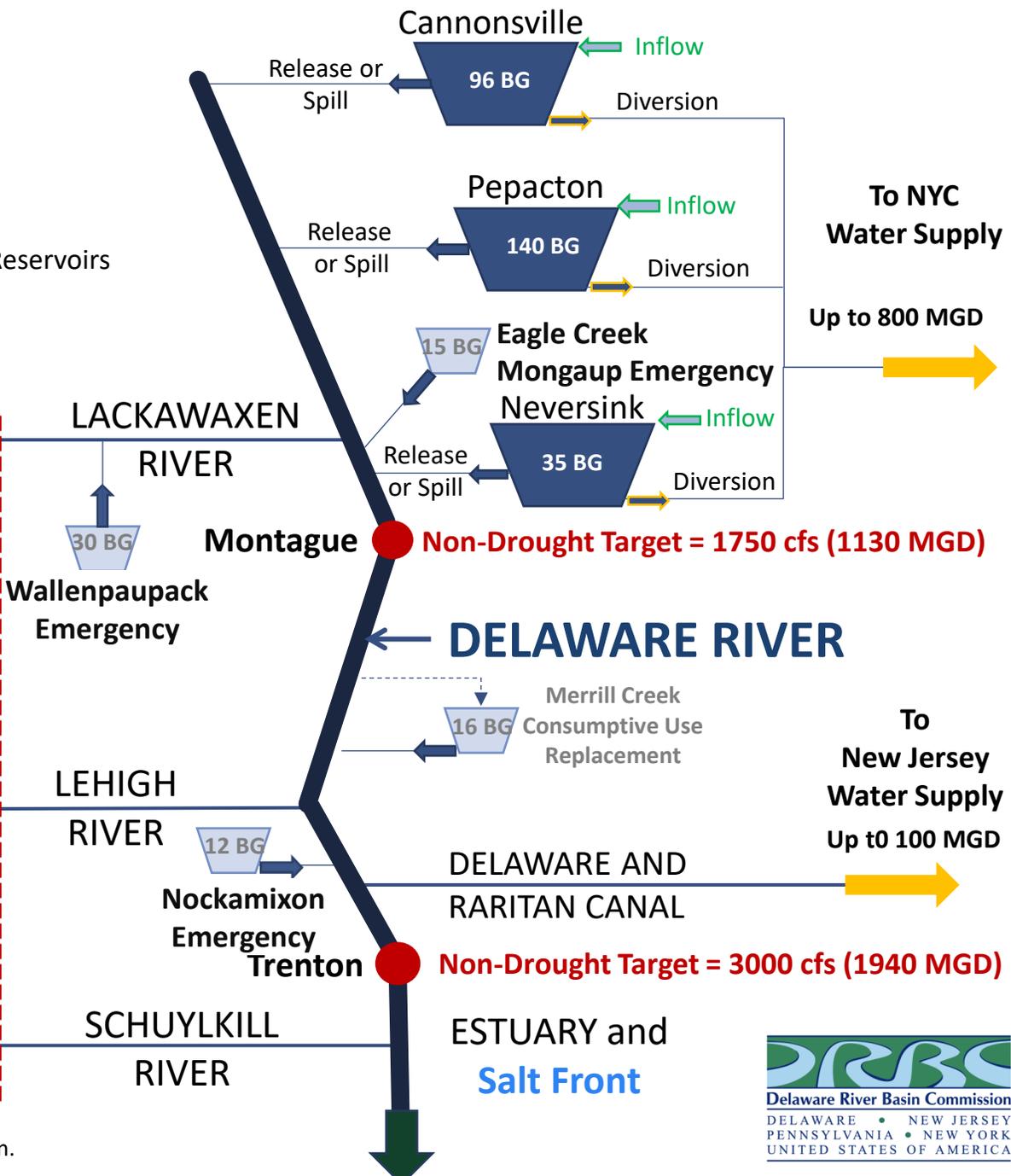
Supplemental Screening

# Water Management Schematic for the Delaware River Basin

-  Out-of-Basin Diversion
-  Primarily Water Supply Reservoirs
-  Multi-Purpose (Flood/Power/WS/Recreation) Reservoirs
-  Primarily Flood Control Reservoir
-  Flow Management Objective



**DRBC Owned Water Supply Storage**  
**11.4 BG**



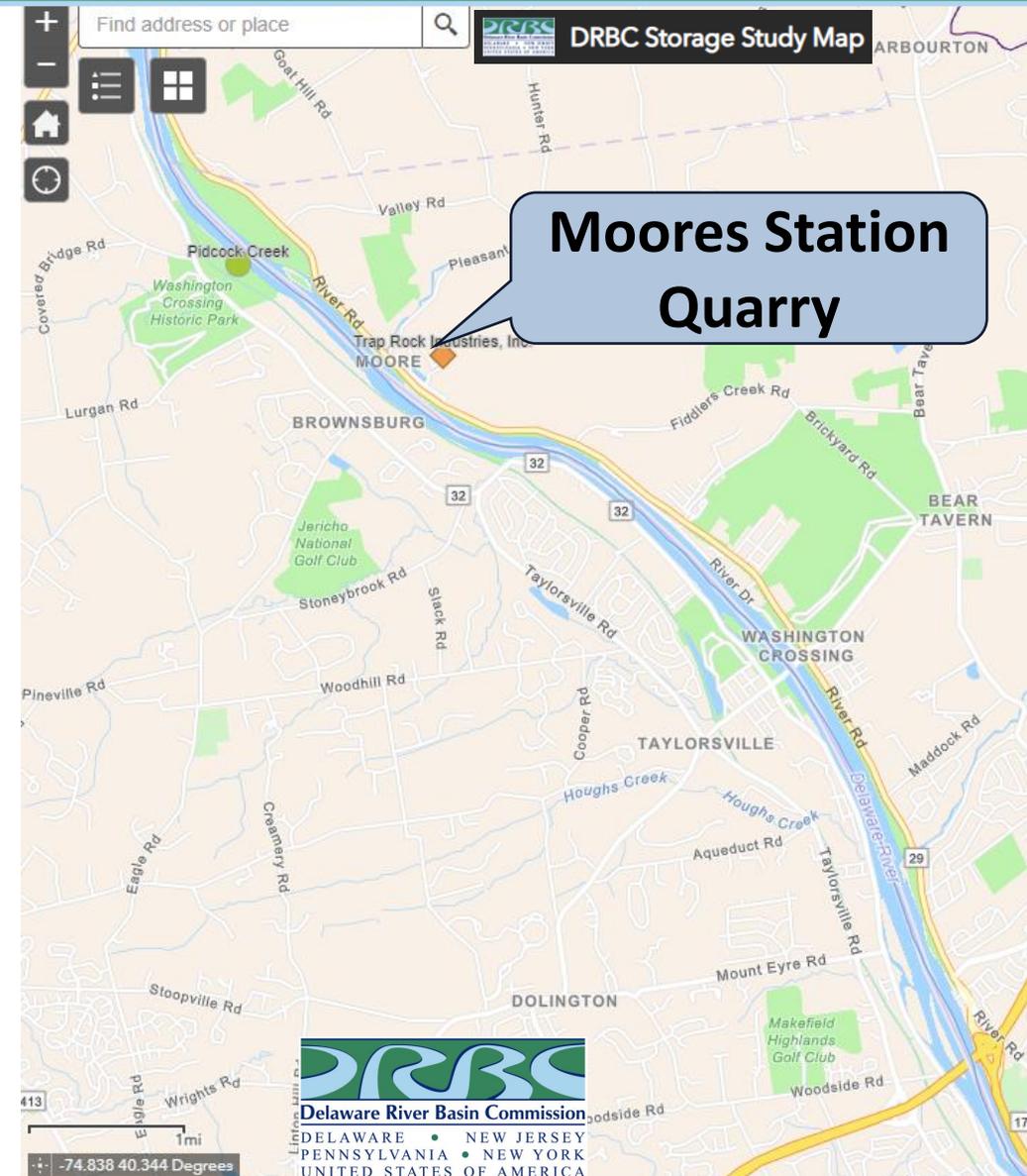
Note: Not all reservoirs, tributaries, and diversions are shown.



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## Moores Station / Trap Rock Quarry (adjacent to Delaware River, Mercer County, NJ)

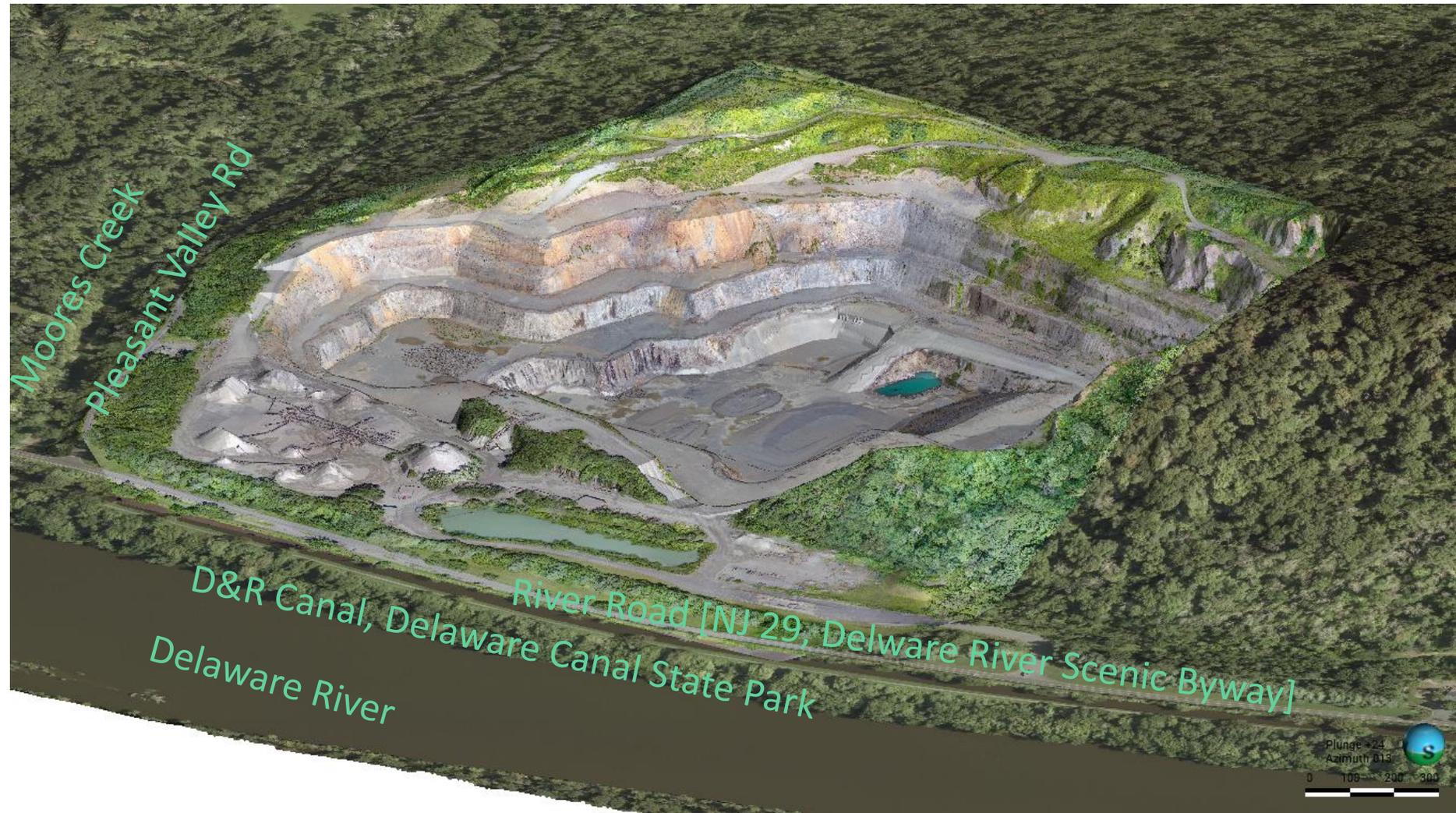
- Introductory meeting held with MM, DRBC and Mercer County on 5/22/2025
  - Points of contacts confirmed
  - Exchange of water elevation information, etc.
- Site visit for MM held on 6/10/2025
- Two options – existing & addition of saddle wall
- NJDEP Permit Coordination
  - intro meeting with David Pepe on 10/16/2025
  - information submittal on 11/26/2025
  - meeting with Mercer County on 12/8/2025
  - 1/13/2026 – Permit Coordination – Office of Land Transactions, Green Acres, State Parks, Historic Preservation Office, D&R Canal Commission
  - Require additional meeting regarding issues related to Green Acres funding



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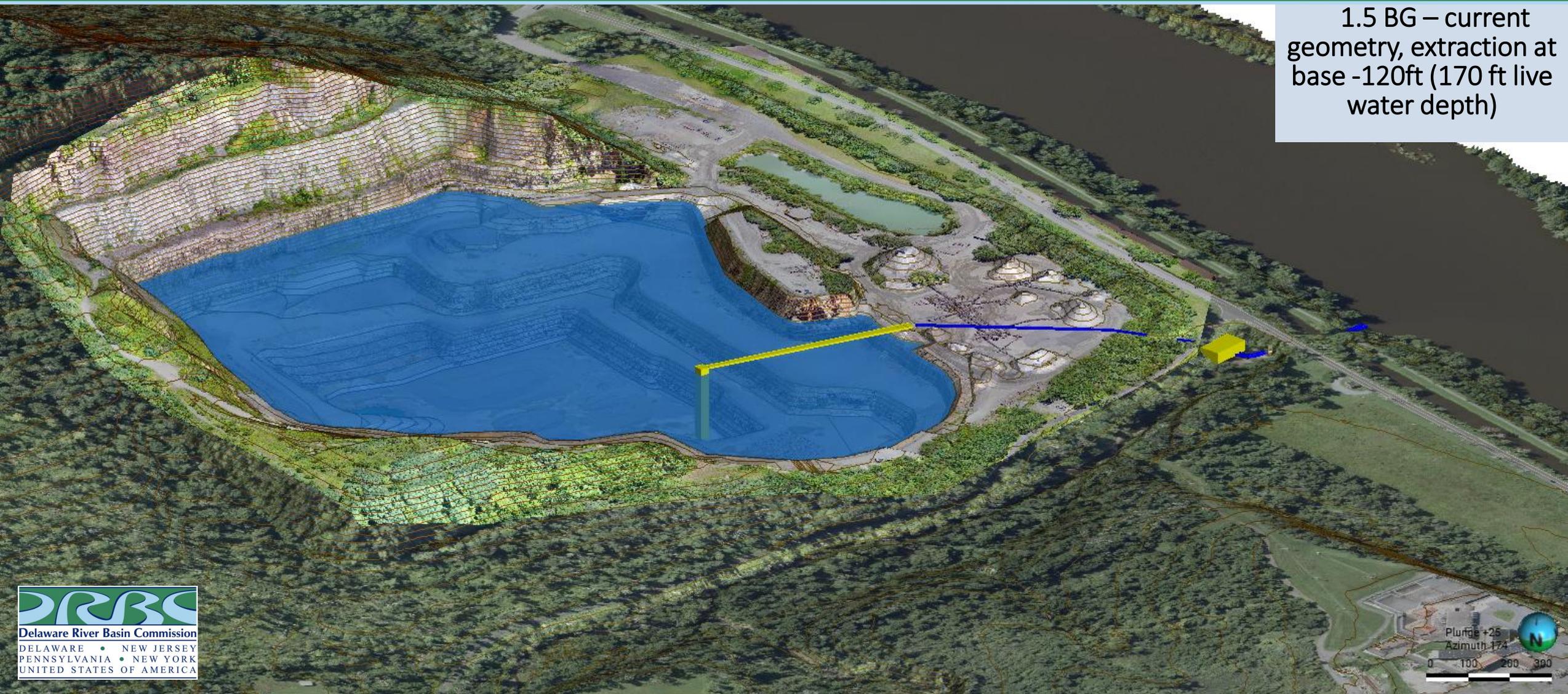
## Moores Station / Trap Rock Quarry (adjacent to Delaware River, Mercer County, NJ)

- Concept is to pump water from Delaware River into the quarry.
- Pump water out of quarry at low flows to support flow objectives.
- Pumped storage.



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1.5 BG – current geometry, extraction at base -120ft (170 ft live water depth)



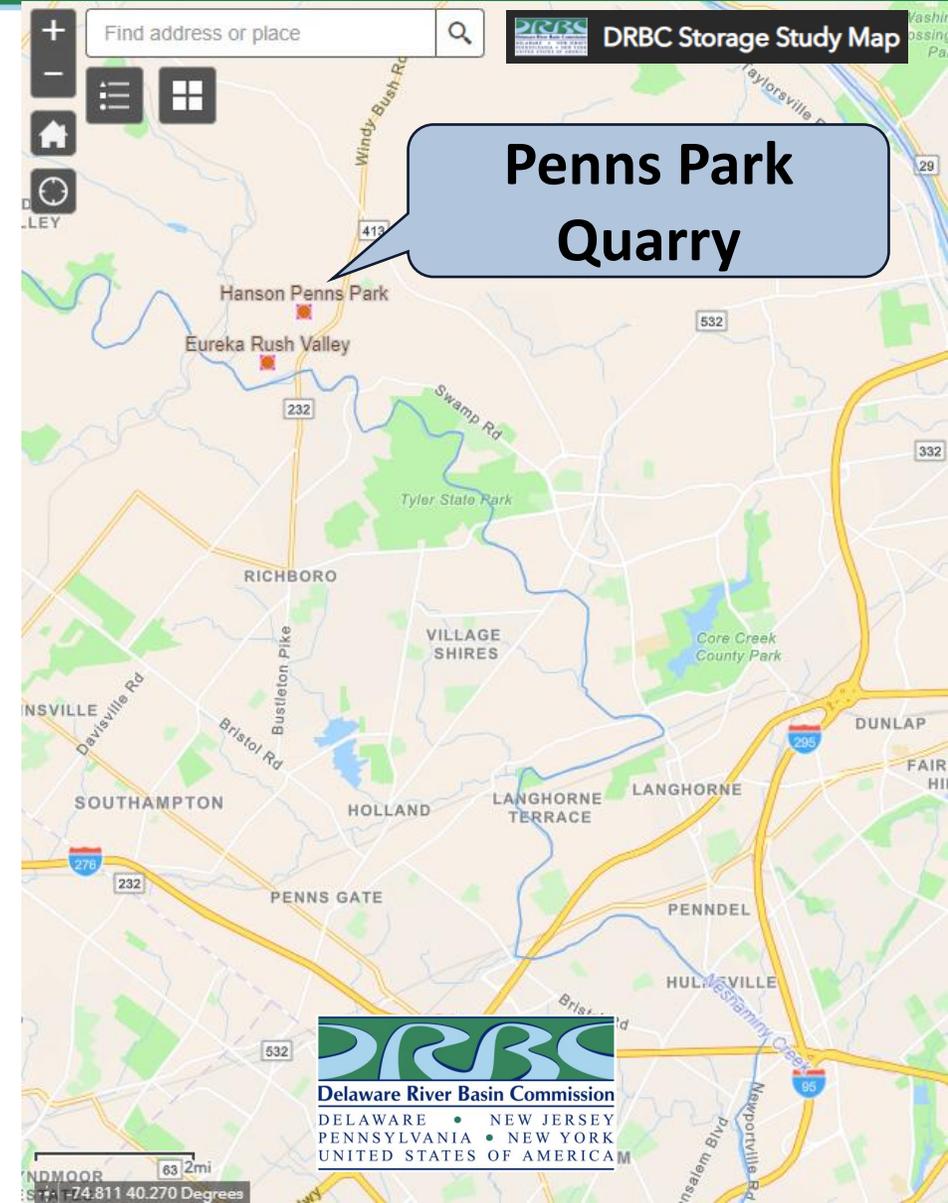
Please note the yellow pump station tower and bridge in the quarry is highly simplified – as shown this is a 170ft tall structure.

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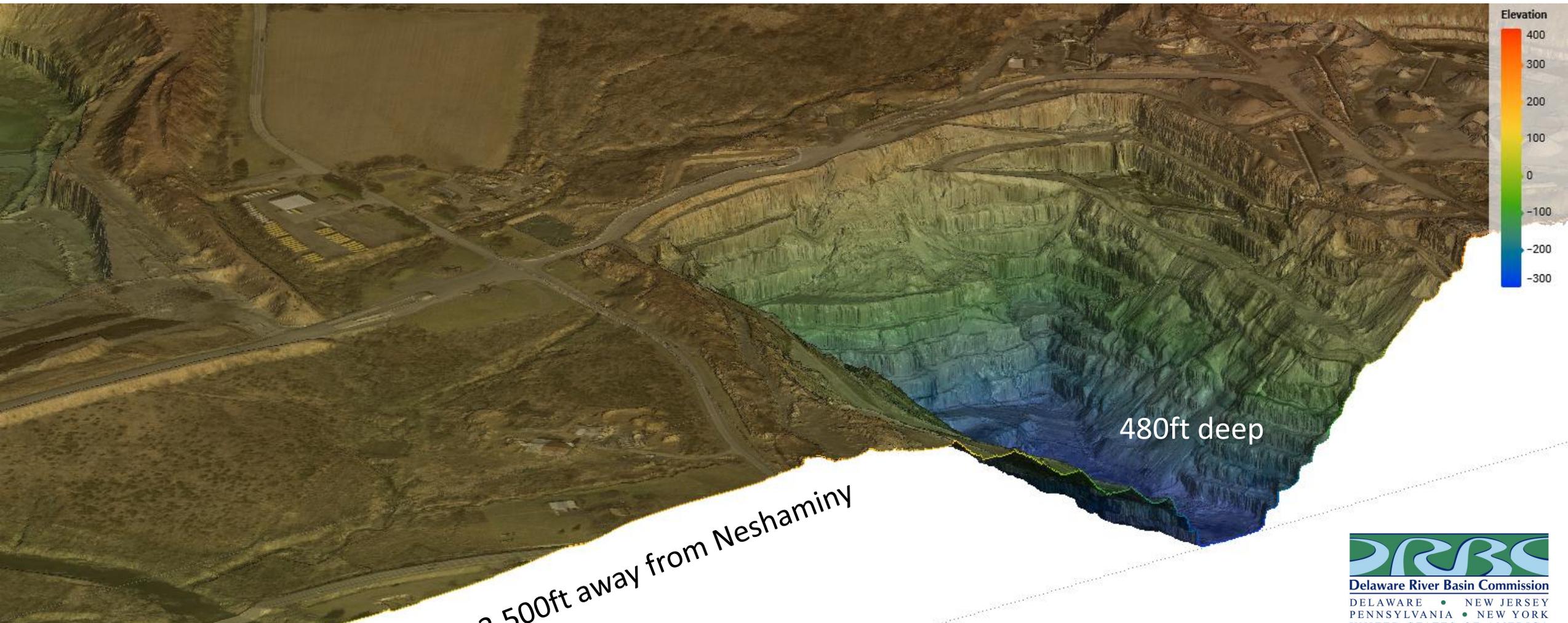
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- Penns Park (adjacent to Neshaminy Creek, Bucks County, PA)
  - Heidelberg Materials
    - Same ownership and point of contact: Andrew Gutshall
    - Time remaining for quarry unclear – shorter if expansion isn't approved
    - PADEP permit coordination meeting with SCRO / SERO on 12/3/2025

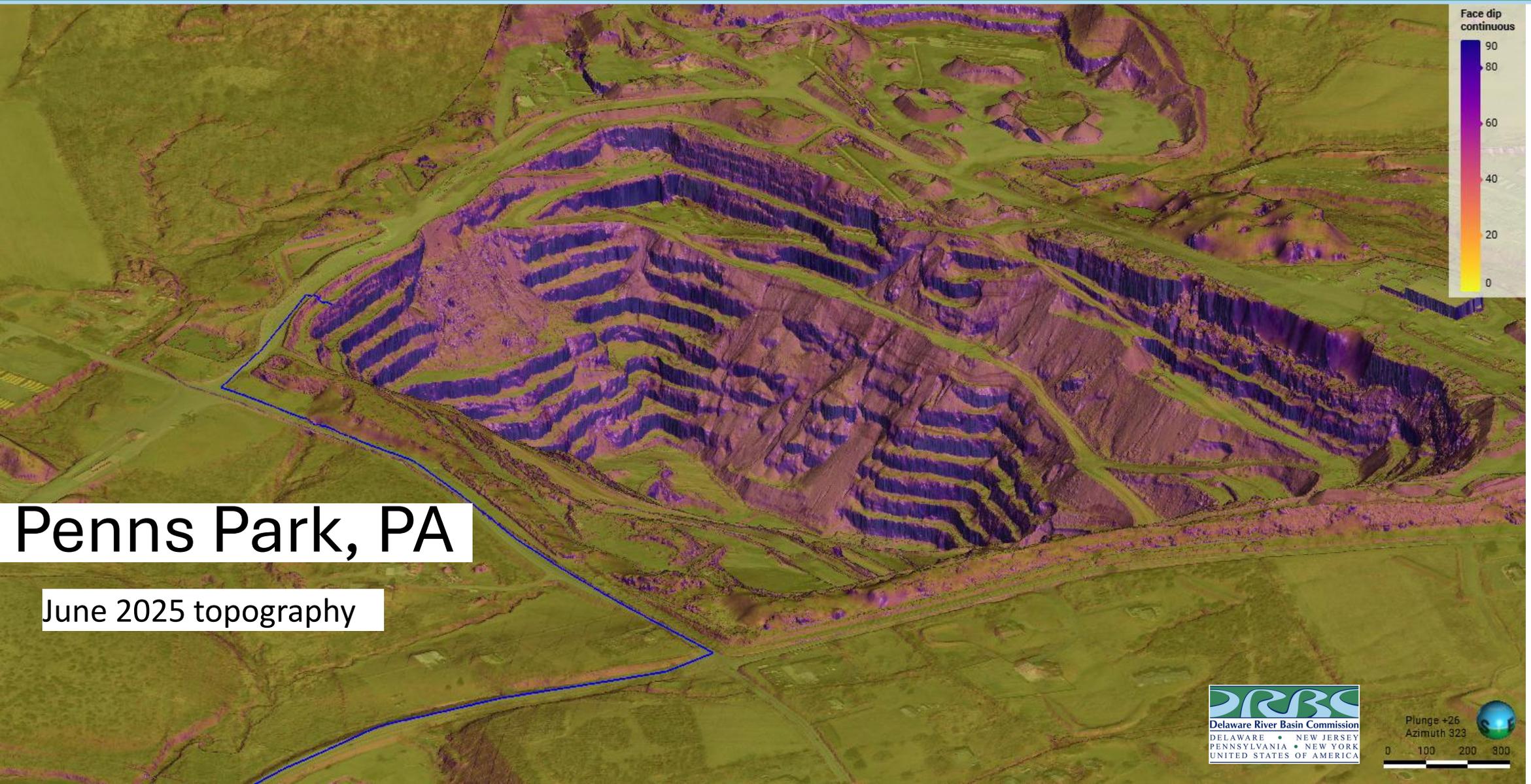


# Storage Study Phase II Update – WMAC; Feb 11, 2026

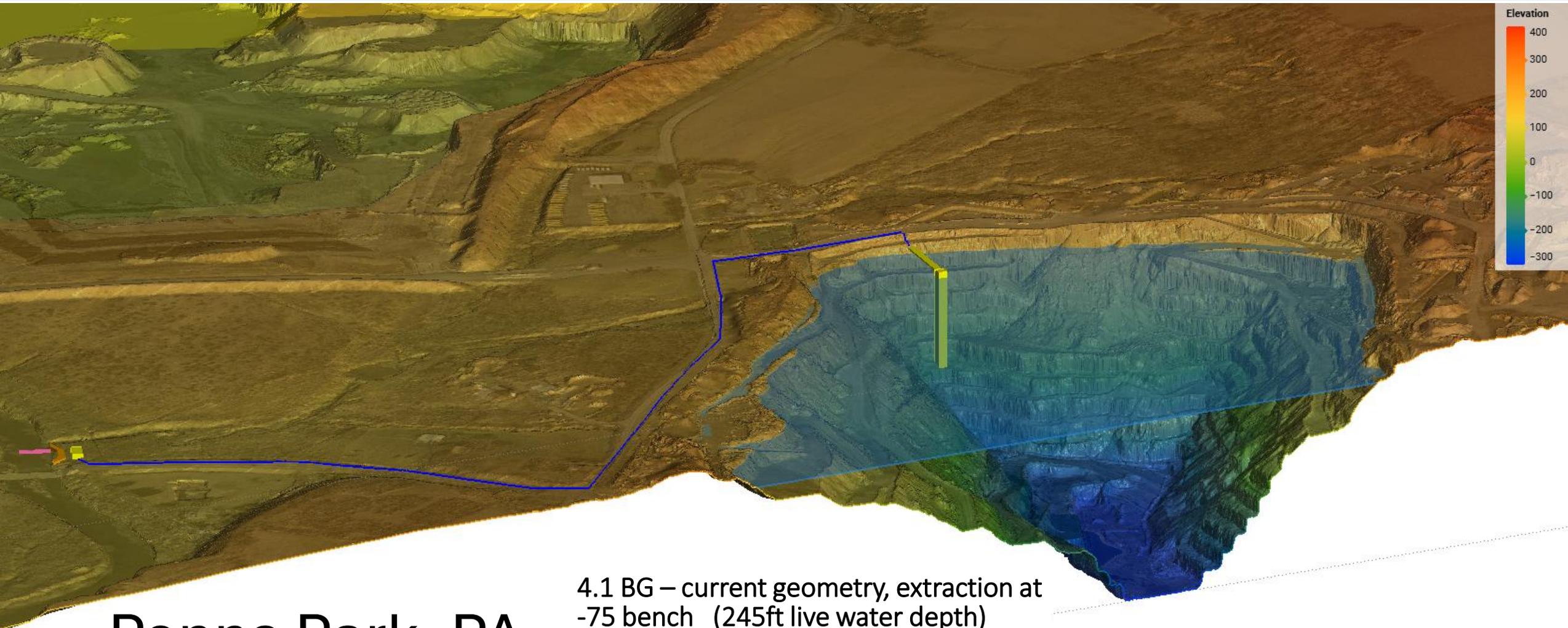
- Penns Park (adjacent to Neshaminy Creek, Bucks County, PA) - Heidelberg Materials
  - Site visit on 7/11/2025



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# Storage Study Phase II Update – WMAC; Feb 11, 2026

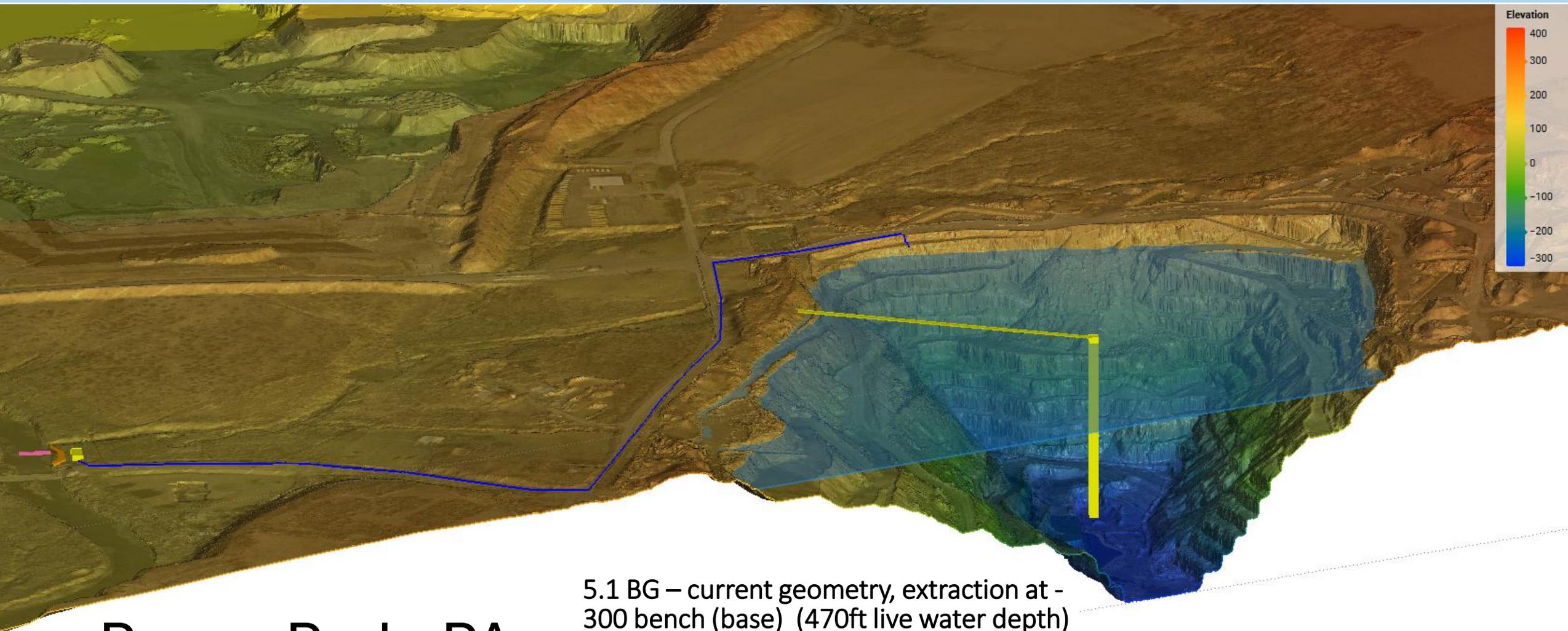


## Penns Park, PA

4.1 BG – current geometry, extraction at -75 bench (245ft live water depth)

Please note the yellow pump station tower and bridge in the quarry is highly simplified – as shown this is a 250ft tall structure

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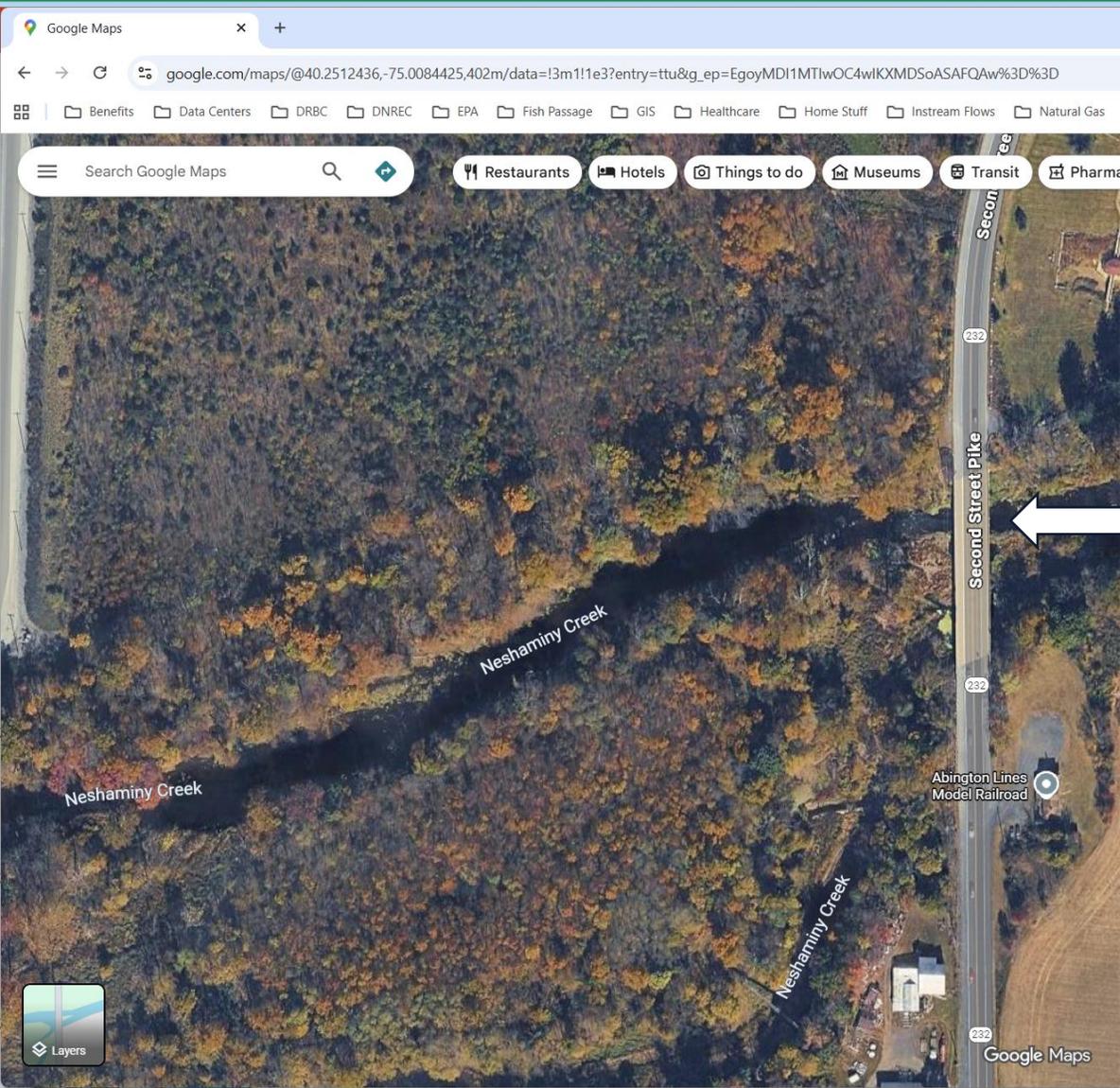


## Penns Park, PA

5.1 BG – current geometry, extraction at -300 bench (base) (470ft live water depth)

Please note the yellow pump station tower and bridge in the quarry is highly simplified – as shown this is a 475ft tall structure

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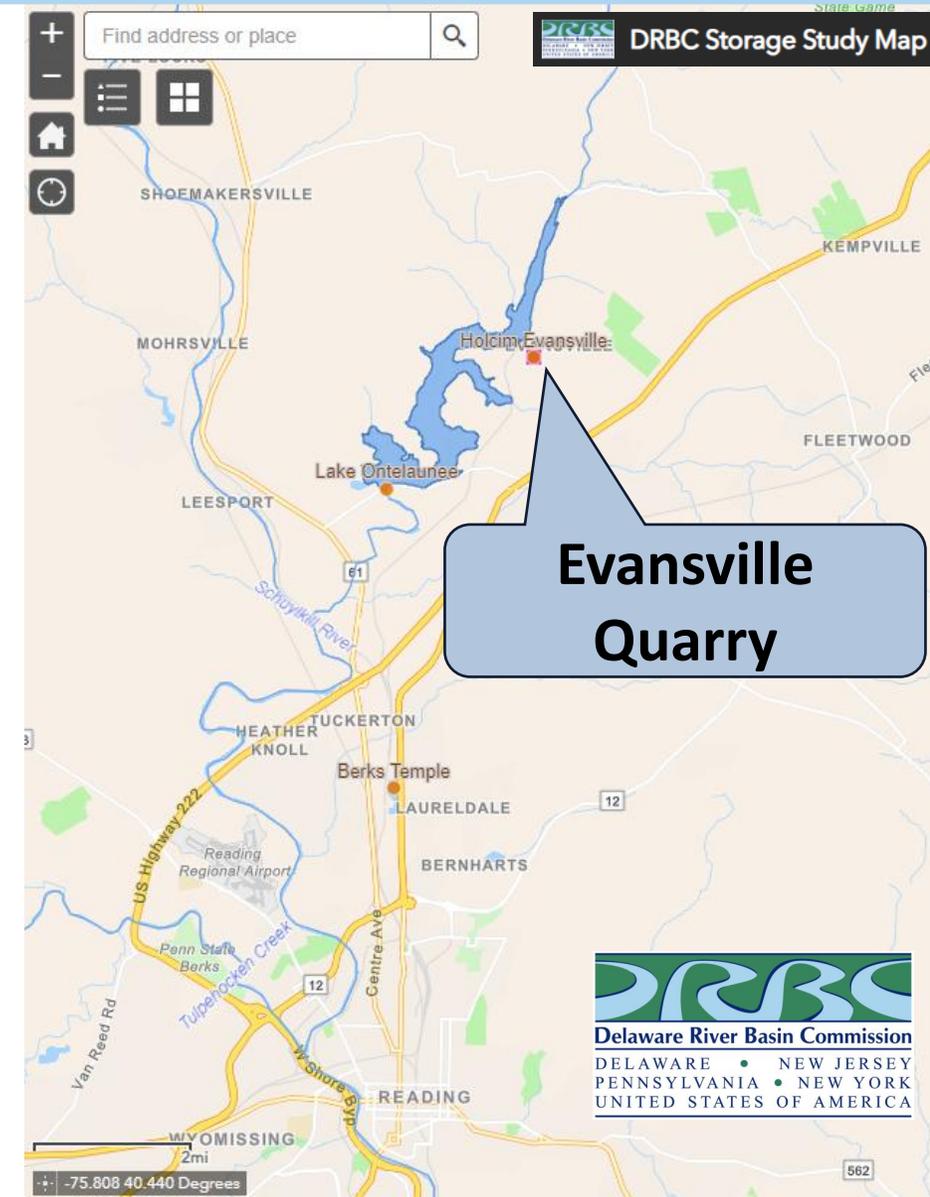


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# Storage Study Phase II Update – WMAC; Feb 11, 2026

- **Evansville (adjacent to Lake Ontelaunee, Berks County, PA) – Heidelberg Materials**
  - Same ownership and point of contact: Andrew Gutshall
  - Site visit on 9/26/2025; exchange of information
  - Briefing with Reading Area Water Authority (RAWA) on 11/20/2025
  - RAWA sharing of flow / release information from Lake Ontelaunee on 11/21/2025
  - PADEP permit coordination meeting with SCRO / SERO on 12/3/2025



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- Evansville (adjacent to Lake Ontelaunee, Berks County, PA) – Heidelberg Materials
  - Concept is to fill quarry from Lake Ontelaunee when “excess” water is available
  - Decades left of active quarrying



# Storage Study Phase II Update – WMAC; Feb 11, 2026

## ■ Cannonsville Reservoir Modification

- Complete DRBC & NYCDEP contract
- Complete DRBC & MM contract
- Kickoff meeting - TBD
- Site visit - TBD

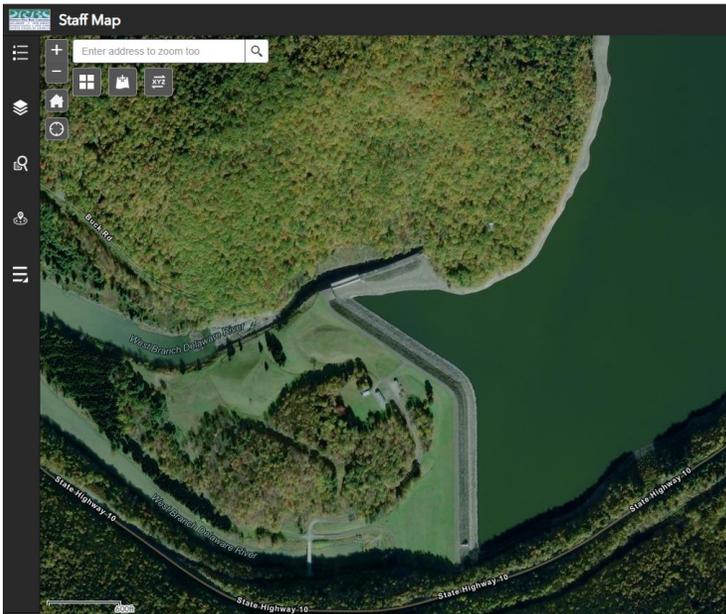


Figure 3.1: Overview of dam and spillway modifications



# Storage Study Phase II Update – WMAC; Feb 11, 2026

## ■ Next Steps

### ○ Quarries

- Continue with existing information exchange
- Technical evaluations
  - Volume estimates
  - Hydrologic analyses on fill / discharge / refill
  - Intake / pump / dewatering designs
- Fall 2026 Report Completion

### ○ Cannonsville

- Complete contract between DRBC & NYCDEP
- Complete DRBC & MM contract
- Kickoff meeting
- Site visit