WCD Grant Project Updates

Municipal Roundtable 2026

Chelsea Patterson: Watershed Program Manager

Hank Bradish: Stormwater Technician/ EIT

Kylie Schultz : Watershed Specialist

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2025 Completed and Ongoing Projects

- Style-Rite Kitchens Streambank Stabilization
- Washington Township Exposed Sewer Streambank Stabilization
- YMCA Stormwater Retrofits
- Cedar Creek PennDOT Mitigation Project (Phase IIB)
- Irwin Discharge
- Bovard

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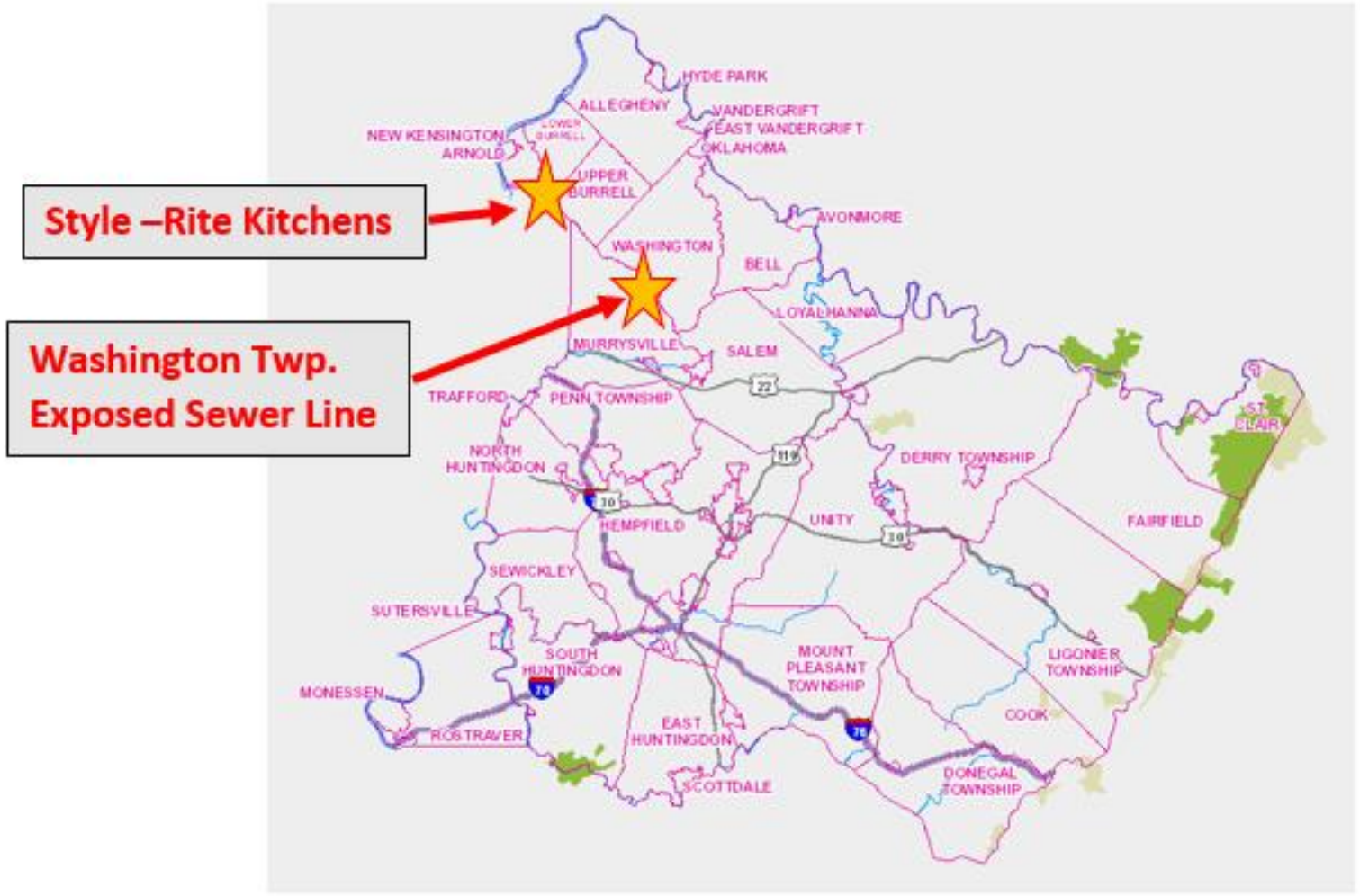
Emergency Watershed Protection Program

- Is a federal emergency recovery program, helps local communities recover after a natural disaster strikes. (not require a disaster declaration by federal or state government officials for program assistance to begin.)
- Recovery projects begin with a local sponsor or legal subdivision of state or tribal government.
- Grant program can cover up to 75% of construction activities.

NRCS Emergency Watershed Protection Program (EWPP)

CONSTRUCTION SPRING 2025



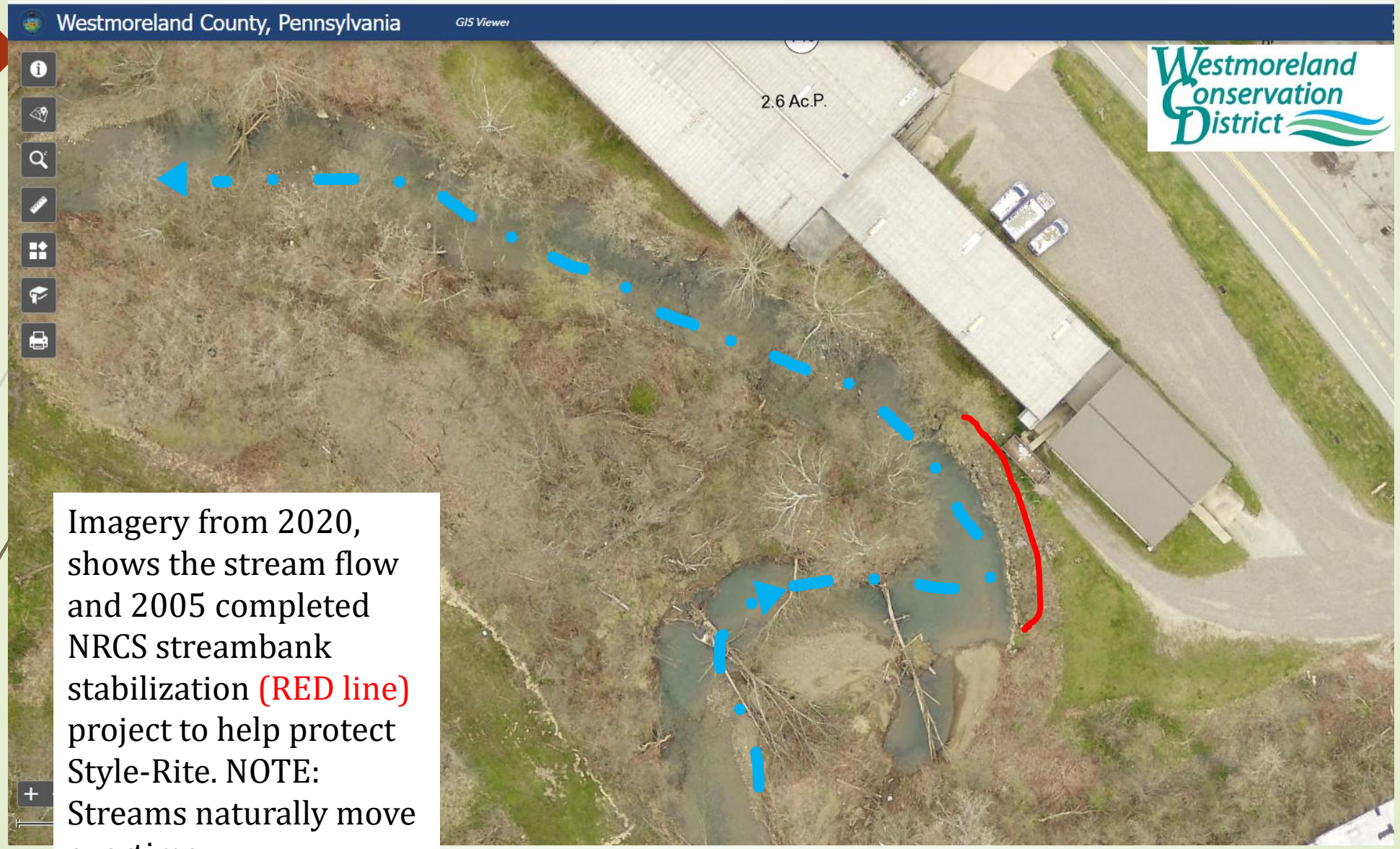
Style-Rite Kitchens

1306 Greensburg Road, New Kensington, PA 15068 (City of Lower Burrell)

On the April 3, 2024 flooding event, the stream naturally moved, taking the path of least resistance and created a new channel. This caused the stream to make a >90 degree bend. Due to the unstable soils of the streambank, it has eroded within one foot of the building.

Outcomes

- Project Cost: $93,738.99 EWP and DEP funds
- 1105 tons of R-8, R-5 and R-3 size rip-rap installed
- Stabilized over 260 feet of streambank
- Partnered with Style-Rite Kitchens (landowner), Natural Resources Conservation Service (NRCS)-Emergency Watershed Protection Program, Department of Environmental Protection (DEP), and RJL Excavating LLC.



Imagery from 2020, shows the stream flow and 2005 completed NRCS streambank stabilization (RED line) project to help protect Style-Rite. NOTE: Streams naturally move overtime.

Photo taken looking upstream shows a large gravel bar that formed that completely blocks the stream flow and 2005 completed NRCS streambank stabilization (RED line) project to help protect Style-Rite.

Additional view of newly established sediment/ gravel bar that formed, causing stream to redirect its flow.

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Washington Township Streambank Stabilization

40.496892, -79.659458

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Outcomes

- Project Cost: $73,907.79 EWP and DEP funds
- 27 feet of exposed sanitary sewer line encased in concrete
- R-8 and R-6 size rip-rap installed to stabilize eroding streambank
- Section of gravel bar removed to maintain uniform stream width.
- Stabilized over 238 feet of streambank
- Partnered with The Municipal Authority of Washington Township, Natural Resources Conservation Service (NRCS)- Emergency Watershed Protection Program, Department of Environmental Protection (DEP), and Eveready Contracting.

Municipal Authority of Washington Township Exposed Sanitary Line

Near Ludwig Road, and SR 366: Greensburg Road

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Regional Family YMCA of Laurel Highlands Stormwater Retrofit Project

- $186,500 Growing Greener Grant
- Partners: East Huntingdon Twp., Regional Family YMCA of Laurel Highlands, Roger Suter and Sons

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Purpose

- Control Stormwater Runoff at the YMCA Facility
- Detain a larger quantity of stormwater runoff within the existing basin
- Improve efficiency of stormwater runoff directed to the existing basin
- Reduce pollutant loading to Sherrick Run

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Outcomes

- Existing stormwater channel re-graded and maintained
- 4700 square feet of landscape islands constructed
- Stormwater basin outlet structure retrofitted to detain water for as longer duration
- x8 trees and x6 shrubs planted
- 7000 square feet of asphalt restored
- Entire parking lot seal coated
- New parking lines, arrows, and one way sign

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Before: Old Outlet Structure

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After: New Outlet Structure

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Before: Discharge pipes from culvert are buried and not functioning.

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After:
Discharge pipes cleaned of debris and pipe relocation for efficiency.

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Before: Existing channel filled with sediment and debris

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After: channel re-graded and sediment removed

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Before: Asphalt parking lot with no stormwater controls

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After:
Landscape islands to help reduce flooding and promote infiltration

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Before: Asphalt parking lot

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After:
Landscape
Islands

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After:
Landscape
Islands

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After:
Permeable
Paver
Crosswalks

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Cedar Creek PennDOT Mitigation Project (Phase IIB)

- $104,605 PennDOT Mitigation funds
- Partners: PennDOT, Westmoreland County Bureau of Parks and Recreation, PA Fish and Boat Commission, Phil Hays & Sons

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Purpose

- Stabilize streambanks along Cedar Creek to reduce sediment pollution to the stream and protect nearby trail
- Install in-stream fish habitat structures to improve habitat for aquatic organisms
- Complete a three phase project for PennDOT mitigation credits for the State Route 70, Section E10 PennDOT Highway Project.

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Outcomes

- Stabilized approximately 1,800 feet of stream along Cedar Creek by installing modified mudsills, log framed deflectors, single log vane deflectors, log framed stone deflectors, log framed cross vanes, streambank grading with rip-rap, and native tree plantings.
- Restored public access to the park's internal trail parallel to Cedar Creek - approximately 2,100 feet of trail was restored.

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Project Background

- Phase I involved Emergency repairs to Great Allegheny Passage Bridge over Cedar Creek, poured concrete, water wheel foundation removal.

- Phase IIA involved installing single log vane deflectors, root wads, rock cross vanes, modified mudsills, rip-rap, gravel bar removal, bank terracing/regrading, and riparian buffer plantings on first 900 feet

- **BEFORE:** Several sections of eroding streambank were in need of stabilization

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- **BEFORE:** The trail surface was constantly getting washed out/flooding during rain events

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- **DURING CONSTRUCTION:** The PA Fish and Boat Commission worked with Phil Hays & Sons Excavating to install several fish habitat structures including the mudsills being installed here.

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- **DURING CONSTRUCTION:** Additional photo of modified mudsills being installed. Hemlock logs are typically used for in-stream habitat structures

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- **AFTER CONSTRUCTION:**
  Installed modified mudsills

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- **AFTER CONSTRUCTION:** Stabilized streambank with native tree planting

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Irwin Discharge Conceptual Solutions Development Project

- $421,251 DEP AMD/AML Grant Program
- Partners: DEP Bureau of Abandoned Mine Reclamation (BAMR), Triad Engineering, Hedin Environmental, Turtle Creek Watershed Association, Community Foundation of Westmoreland County

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IRWIN DISCHARGE:

- One of the largest abandoned mine discharges in western Pennsylvania in terms of flow and pollutant loading
- averages 9.0 million gallons per day (6,225 gallons per minute)
- Alkaline discharge – but produces an average 5,388 pounds of iron per day into the stream

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RT 993
RT 993
RT 993
Water Street
Water Street
Water Street
Baynard Way
Station Alley
Syrian Alley
Western Alley
Main Street
1st Street
1st Street
1st Street
Pacific Street
Westmoreland Avenue
Glass Street
Quality Way
2nd Street
2nd Street
Western Avenue
Main Street
3rd Street
3rd Street
Depot Alley
Depot Alley
Diamond A
4th Street
Westmoreland Avenue

- **COAL RUN DISCHARGES:**
- The first minewater into Brush Creek, which enter the creek about 1,400 feet above Tinkers Run.
- The inflow is alkaline but deposits iron
- Little data has been gathered on these discharges, so they will be evaluated during this project
- One discharge is located inside a tunnel under Paintertown Road, which poses air quality dangers during testing

BIDDLE PROPERTY:

- Purchased by the Turtle Creek Watershed Association in 2024 with the help of Westmoreland County Commissioners and the Community Foundation of Westmoreland County
- 50 acre parcel that will likely serve as the location of the AMD treatment system due to its location within the mine system

BIDDLE PROPERTY:

- Parcel is covered in coal refuse left behind from previous mining activities
- DEP BAMR drilled over 50 boreholes at the site to test the refuse material
- According to BAMR, the only feasible management strategy is relocation of the refuse to a lined Coal Refuse Disposal Area (CRDA)


Bridge Street
Don Drive
Biddle Avenue
Poplar Street
Liberty Avenue
Manor Street
Walnut Street
Broadway Street
Wilson Street
Cedar Street
Holly Street
Sumac Street
Dogwood Street

GRANT PROJECT:

- WCD received AMD AML Grant agreement from DEP BAMR in June 2025 – solution development grant
- Triad Engineering partnered with Hedin Environmental was selected as the project consultant by the WCD Board of Directors
- Overall project goal: develop treatment method solutions for the Irwin discharge and Coal Run discharges; complete abandoned mine land assessment of the Biddle property to determine reclamation plan
- Next step: acquire grant to create engineered plans for treatment site and reclamation plans for Biddle property

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- **EXAMPLE ACTIVE TREATMENT FACILITY:** Gladden AMD Treatment System in South Fayette Township, Allegheny County

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Bovard Coal Refuse Reclamation Site: Design and Permitting Project

- $343,642 DEP AMD/AML Grant Program
- Partners: DEP Bureau of Abandoned Mine Reclamation (BAMR), Adam Eidemiller, and Hedin Environmental.

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Grant Scope of Work:

- Design engineering and permitting to reclaim 22 acre coal refuse site.
- Hedin Environmental was awarded as the project consultant.
- To date: spoil characterization, spoil amendment and hauling/ disposal plan has been developed. A NPDES permit with the final grading plan, site drawings and construction details have been submitted for review.
- Next steps: finalize construction costs, obtain approved permit, and prepare bid documents. Apply to AMD/AML grant program Spring 2026 for construction funds.


Burak St
Burak St
Burak St
Burak St
Brian T. Rusnock Amphitheater at Twin...
Franklin Dog Park at Twin Lakes
Peach Plaza
Twin Lakes Park, Pavilion 10
Georges Station Rd
Streetpark Lp
1053


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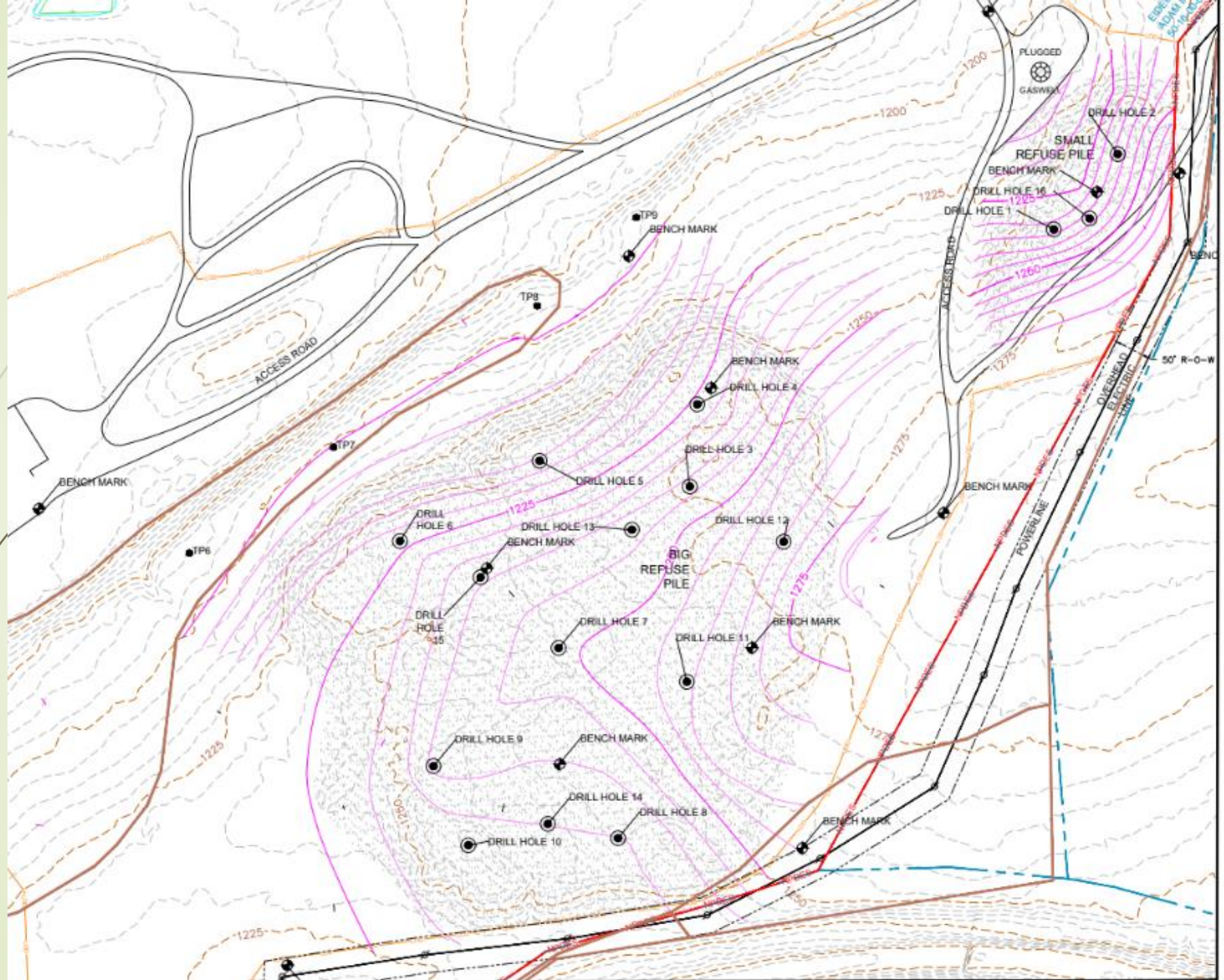
District



EXISTING CONDITIONS

HedinEnvironmental

Site Drilling: Several samples collected from each boring and sent for laboratory analysis for BTU, neutralization potential, etc.

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Questions?

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- Kylie Schultz: Kylie@wcdpa.com

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