

**1. Why are we doing this?**

*The subject water withdrawal would be used to support upcoming well development operations at the PER B50 Well Pad on Amsler Ridge Road in Economy Borough.*

**2. How will the project area be impacted?**

*During operations you can expect to see a water pump and a series of hoses moving water from the stream. The intake section will consist of engineered structures that float or are supported off the bottom of the stream to withdraw water. The discharge section will be a temporary waterline placed on the ground surface except for under road crossings. The equipment will be fenced in and parking will be provided for personnel.*

*See page 41 of 105 in the Big Sewickley Creek Water Management Plan Application for a detailed site plan.*

**3. Why not take water from PennEnergy's existing OH River Intake or other location?**

*Consistent with PennEnergy Resources' Core Values and the industry's best practices, we endeavor to source water close in proximity to the well pads receiving the water. Thereby facilitating water delivery via temporary water lines and minimizing truck traffic that would otherwise be necessary to transport water from the existing Ohio River Intake or another approved location.*

*See page 146 of 270 in the B50 Temporary Above-Ground Waterline Individual Permit Application for a detailed alternatives analysis.*

**4. Will the withdrawal render stream flow inadequate to support aquatic life or otherwise interfere with other uses of the stream?**

*No. The requested maximum withdrawal rate from Big Sewickley Creek (1.5MMgal/day) represents about 10.7% of the weighted average daily flow (ADF), or 2.3 cubic feet per second (cfs). This withdrawal rate will be reduced as necessary to maintain pass-by volumes sufficient to ensure protection aquatic life and other uses of the stream. Per the USGS StreamStats report the average daily flow (ADF) of Big Sewickley Creek is 13,957,713 gallons, or 21.6 cubic feet per second.*

*Regardless of the pass-by flow rates, pumping is to be curtailed or stopped during periods of drought. PennEnergy will monitor drought status updates and reduce the intake volume accordingly should drought conditions develop during these operations as outlined on page 18 of 105 of the Big Sewickley Creek Water Management Plan.*

**5. Will the withdrawal suck the fish out of the creek or otherwise harm aquatic life in the creek?**

*No. The withdrawal is designed to protect aquatic wildlife in the stream during operation. The in-stream section of the withdrawal is a group of screened manifolds to draw water from just below the water surface. Screen size and velocity requirements set by the Susquehanna River Basin Commission are implemented to avoid harm to wildlife in the immediate vicinity of the intake. The intakes are part of an engineered design and regularly inspected during operation. Further, using an intake supported off the stream bottom mitigates the disturbance of silt, sand, and sediment from the creek bed, where many macroinvertebrates live.*

*See page 75 of 105 in the Big Sewickley Creek Water Management Plan Application for details on the engineered intake structures.*

**6. Will the water withdrawal harm or interfere with habitat utilized by any threatened or endangered species?**

*As part of the water management plan application process, PennEnergy reports the project to the Pennsylvania Natural Diversity Inventory (PNDI) database to determine if any threatened or endangered species will be affected by the proposed operations. The PNDI review revealed the probable presence of the Southern Redbelly Dace fish species. While the species is not threatened or endangered federally, it has a limited presence in Pennsylvania, and is considered locally threatened.*

*PennEnergy met with the PFBC in August of 2021 to review the proposed withdrawal. Following that meeting, PFBC provided a clearance letter stating the proposed withdrawal will not have any significant adverse impacts to the Southern Redbelly Dace population in the Big Sewickley Creek Watershed if the following conditions were met:*

- *Maintain a pass-by-flow of 25% ADF*
- *Install local gage station and model parameters to monitor pass-by flow.*
- *Use intake screen size opening no larger than 3/16"*
- *Do not exceed a maximum intake velocity of 0.5 ft/sec.*
- *Report total daily withdrawal volumes to PFBC monthly.*
- *Provide schedule notice to and coordinate installation of equipment with PFBC Waterways Conservation Officer*

*See page 51 of 105 in the Big Sewickley Creek Water Management Plan Application for the PNDI and Pennsylvania Fish and Boat Commission responses.*

**7. How are these withdrawals monitored?**

*PennEnergy and contracted personnel will monitor a localized stream gage regularly during operations and will adjust or cease the withdrawal rate per the engineered parameters in the approved Water Management Plan. PennEnergy is required to log and keep records of volumes and rates to be made available to DEP upon request. PER also reports the water source and volumes used for well development operations monthly to DEP per Act 220.*

*See page 21 of 105 in the Big Sewickley Creek Water Management Plan Application for a detailed report on the localized stream gage on Big Sewickley Creek.*

**8. How are limitations on the withdrawals (min pass-by flow, maximum intake velocity, etc.) enforced?**

*Water Management Plan compliance is enforced by the PA DEP through routine or follow up inspections. Any enforcement would be congruent with 25 Pa. Code § 78a.69(f)(3), which reads, “The Department may suspend or revoke an approved water source within a WMP for failure to comply with the WMP or for any reasons in section 3211(m) of the act and sections 3252 and 3259 of the act (relating to public nuisances; and unlawful conduct).”*

**9. How is the water withdrawal plan PennEnergy has proposed in keeping with the Pennsylvania riparian law?**

*The water management plan is compliant with Pennsylvania’s riparian laws. The proposed intake is temporary, located on private property and will not prohibit or impede access to the creek or the use of the waterway.*

**10. Has there been a flow study of Big Sewickley Creek?**

*Yes. A study for pass-by flow determination was completed as part of the Water Management Plan Application process.*

*See page 43 and 49 of 105 in the Big Sewickley Creek Water Management Plan Application for the USGS Stream Stats on Big Sewickley Creek and Pass-by Flow Determination.*

**11. Has an environmental impact study been conducted to evaluate the environmental impact of withdrawing the proposed amount from Big Sewickley Creek?**

*Yes. The impact analysis regarding the proposed withdrawal was completed as part of the Water Management Plan Application process.*

*See page 70 of 105 in the Big Sewickley Creek Water Management Plan Application for the Big Sewickley Creek – Withdrawal Impact Analysis.*

**12. How will the project affect the public fishing or other uses of the stream along Big Sewickley Creek?**

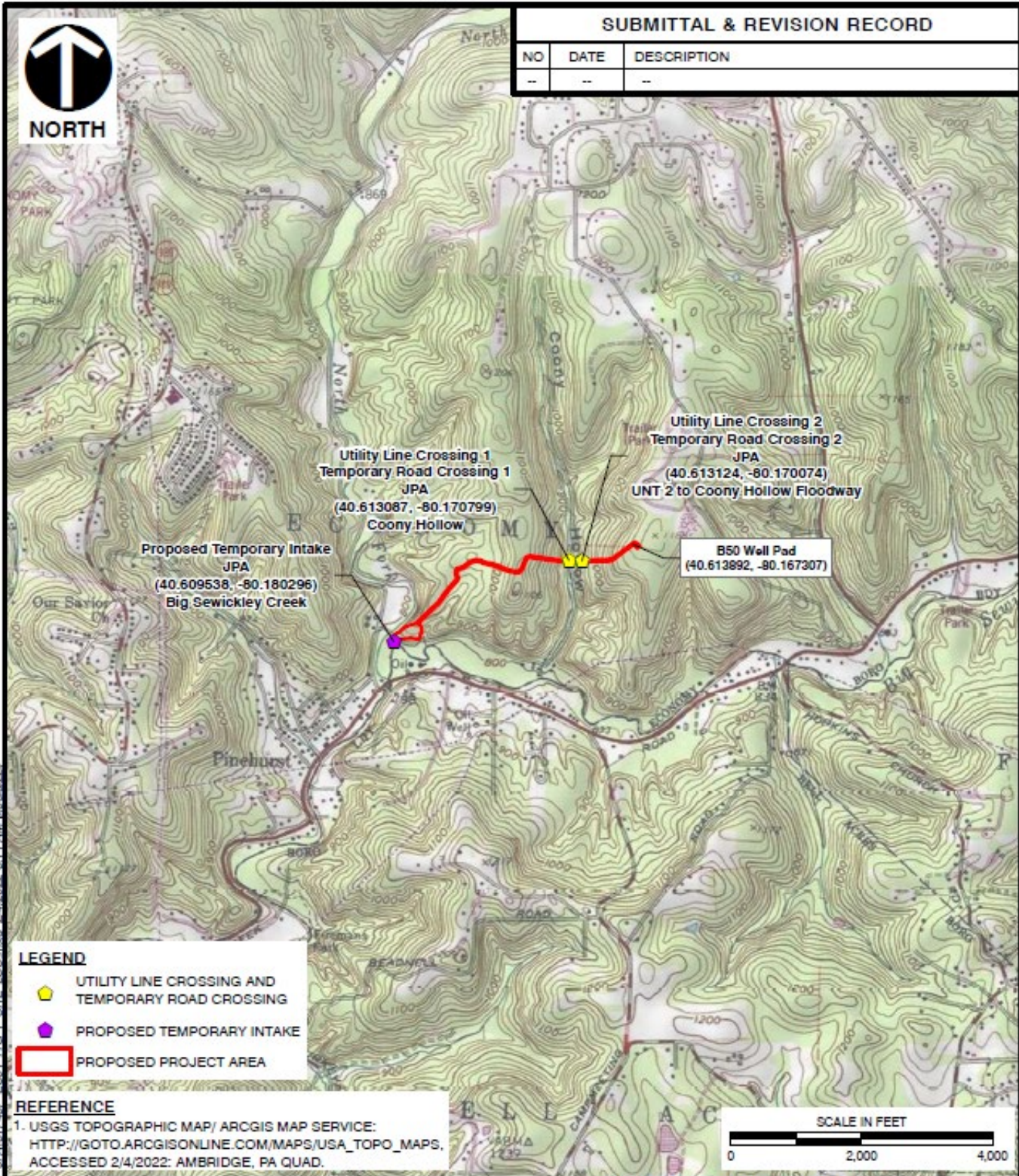
*The proposed withdrawal, public fishing, and other recreational uses of the stream can coexist on this private property. The equipment is temporary and will be removed when not in use. While equipment is present, PennEnergy will have personnel on site and passage will be maintained around the withdrawal. The private landowner will allow the public to use other available access points to the stream near the withdrawal location. PennEnergy will have all equipment fenced in and personnel present to ensure the safety of the public.*



NORTH

SUBMITTAL & REVISION RECORD

NO	DATE	DESCRIPTION
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LEGEND

- UTILITY LINE CROSSING AND TEMPORARY ROAD CROSSING
- PROPOSED TEMPORARY INTAKE
- PROPOSED PROJECT AREA

REFERENCE

1. USGS TOPOGRAPHIC MAP/ ARCGIS MAP SERVICE:  
[HTTP://GOTO.ARCGISONLINE.COM/MAPS/USA\\_TOPO\\_MAPS](http://gto.arcgis.com/maps/usa_topo_maps),  
 ACCESSED 2/4/2022: AMBRIDGE, PA QUAD.



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PENNENERGY RESOURCES, LLC  
 B50 TEMPORARY ABOVE-GROUND WATERLINE  
 ECONOMY BOROUGH  
 BEAVER COUNTY, PENNSYLVANIA

SITE LOCATION MAP

DRAWN BY:	KMC	CHECKED BY:	SVP	APPROVED BY:	PAK*	FIGURE NO:	1
DATE:	02/04/2022	SCALE:	1" = 2,000'	PROJECT NO:	317-457	* Hand signature on file	