

From: [Raab, Dakota](#)
To: [Richard M. Watson](#)
Cc: [Scott M. Sweder](#); [Paul Martin](#)
Subject: RE: [External] Big Sewickley Creek Live Measurement Cross Section
Date: Monday, February 3, 2025 11:00:28 AM
Attachments: [image002.png](#)

Rich,

As long as you can find a cross section within that area that is free of obstruction and contains the entire flow of the stream channel as outlined in Rantz et al., I don't have any issues with it. There is one caveat. Sequential measurements must be made at the same spot i.e. the cross section should not change during a single water withdrawal event when the status (rising/declining) of the stream flow is being determined. However, if there is a gap between withdrawal events the cross section may be adjusted to account for changing morphology and to take advantage of the best cross sections available during that timeframe. Please let me know if you need any further clarification on this or want to discuss.

You can use this email as documentation of our coordination. Thanks for staying in touch with us through the process and making sure all of your bases are covered, it make it easier for us to do our job and protect the resource.

Dakota

Dakota Raab | Fisheries Biologist
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From: Richard M. Watson <RMWatson@pennenergyresources.com>
Sent: Monday, February 3, 2025 9:11 AM
To: Raab, Dakota <draab@pa.gov>
Cc: Scott M. Sweder <smsweder@pennenergyresources.com>; Paul Martin <PMartin@moody-s.com>
Subject: [External] Big Sewickley Creek Live Measurement Cross Section

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Good Morning, Dakota,

PennEnergy Resources, LLC and Moody and Associates, Inc., have been monitoring the stream section on Big Sewickley Creek near PennEnergy's proposed surface intake off Cooney

Hollow Road in Economy Borough, Evans City, and recognized the previously located “monumented cross section” location that was selected in June 2023, has since been affected by the stream morphology changes and no longer meets the desired criteria for an effective live measurement. Big Sewickley Creek’s ever-changing morphology in this area makes it challenging to select a specific location for live measurements will not change between now and the time of use. As such, we are proposing to conduct the live measurements for stream discharge at a point along the same stretch of stream, more closely defined as the area from the beaver dam pool to the intake point, that meets most of the desired criteria at the time the measurement is required. In other words, pick the best available section in the stream section that meets the highest number of desired criteria for the most accurate measurement possible.

Since PER coordinated closely with you on the selection of the monumented cross section detailed in the approved applications, we wanted to see if the revised, larger area for the live measurements is acceptable to determine the stream discharge. Can you please review the attached exhibit and let us know your thoughts as to if this is acceptable?

Feel free to call if anything warrants further discussion. I can set up a TEAMs meeting to discuss with the group or meet at the location if that would be helpful. Please advise when you can. Thanks!

Best Regards,
Rich

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