

**From:** [Stahl, Megan D.](#)  
**To:** [Hoskin, Sumalee](#); [Tiernan Lennon](#)  
**Cc:** [Cindy Schulz](#); [Jennifer Stanhope](#); [Dawley, Joseph](#)  
**Subject:** RE: Responses to spreadsheet comments  
**Date:** Wednesday, November 08, 2017 4:14:12 PM  
**Attachments:** [BraxtonCo Mine Vicinity Map.pdf](#)

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Sumalee,

Here is the additional information for PS-WV3-Y-1 based on the site visit.

PS-WV3-Y-P1 is located in Braxton County, West Virginia just west of MVP near milepost [REDACTED] ESI identified the feature as a mine portal and potential bat hibernacula. MVP initiated a physical assessment of the feature on November 3, 2017 by Mike Futrell of Draper Aden Associates. The temperature was in the low sixties with intermittent rain.

Mr. Futrell discovered the opening to the mine portal (PS-WV3-Y1) and, after careful consideration, proceeded into the entrance room of the mine with helmet, lights, gloves, and camera. Survey equipment included a Leica Disto X310 fitted with a modified chip to provide Distance, Azimuth, and Inclination. This unit was chosen because it provides rapid sub-centimeter measurements and is the standard tool used in modern cave survey.

The portion of the mine that was visible from the near entrance area was mapped by taking measurements to distant walls and down tunnels. A companion sketch was made with the measurements (attached). The total length of the mine workings is therefore greater than the couple hundred feet that could be safely observed. A mine roof traverse was also made with the survey equipment remote sensing along the southern tunnel, and elevation results subtracted from LiDAR groundwater elevation data to estimate thickness of overburden.

The mine follows a nearly flat bedded coal seam approximately 3 feet thick. From the entrance the mine workings generally appear to trend easterly, north of the face of the hillside; other portions of the mine workings are northeasterly trending further (deeper) into the hillside. The observed tunnels vary from 5 to 10 feet wide.

At the furthest visible extents a few inches of standing water covered the floor. Rotting wooden shoring and some rock collapse was also observed in the distance. The mine had damp surfaces. No biology was noted other than a few crickets. No airflow was detected by feel.

There are no min records filed with the state of West Virginia for the area of PS-WV3-Y-P1 and no apparent infrastructure, which suggests this is not an extensive coal mining operation. It is likely a small coal excavation operation, performed by hand tools, used to support home and/or farm needs.

Please let me know if you need additional information.

Megan

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**From:** Stahl, Megan D.

**Sent:** Tuesday, November 07, 2017 2:46 PM

**To:** 'Hoskin, Sumalee' <sumalee\_hoskin@fws.gov>; Tiernan Lennon <tiernan\_lennon@fws.gov>

**Cc:** Cindy Schulz <cindy\_schulz@fws.gov>; Jennifer Stanhope <jennifer\_stanhope@fws.gov>; Dawley, Joseph <JDawley@eqt.com>

**Subject:** RE: Responses to spreadsheet comments

Sumalee and Tiernan,

The updated spreadsheet that addresses your comments is attached. The cells where updated information is provided are highlighted in yellow.

Please let me know if you have additional questions.

Megan

**From:** Hoskin, Sumalee [[mailto:sumalee\\_hoskin@fws.gov](mailto:sumalee_hoskin@fws.gov)]

**Sent:** Friday, November 03, 2017 4:09 PM

**To:** Stahl, Megan D. <[MStahl@eqt.com](mailto:MStahl@eqt.com)>; Tiernan Lennon <[tiernan\\_lennon@fws.gov](mailto:tiernan_lennon@fws.gov)>

**Cc:** Cindy Schulz <[cindy\\_schulz@fws.gov](mailto:cindy_schulz@fws.gov)>; Jennifer Stanhope <[jennifer\\_stanhope@fws.gov](mailto:jennifer_stanhope@fws.gov)>; Dawley, Joseph <[JDawley@eqt.com](mailto:JDawley@eqt.com)>

**Subject:** Re: Responses to spreadsheet comments

Megan,

My apologies, just noticed the spreadsheet didn't save correctly. Please delete the version I just send and reference the attached. To clarify, there are 5 remaining portals highlighted in yellow and 1 in red for a total of 6 outstanding portals.

Sumalee

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On Fri, Nov 3, 2017 at 3:34 PM, Sumalee Hoskin <[sumalee\\_hoskin@fws.gov](mailto:sumalee_hoskin@fws.gov)> wrote:

Megan,

Thanks for responding so quickly. I added 2 columns to your spreadsheet, "FWS Comments" and "FWS Notes" they were in the spreadsheet that Tiernan sent and it didn't appear as if they were incorporated into the one you sent this morning. I highlighted the cells in yellow that we have not provided our concurrence to your assessment because we are waiting for additional information. There are 5 remaining. I highlighted 1 cell red, Portal MVP-NI-151.02, to indicate Tiernan has not had the chance to review the additional information and determine if she agrees with the assessment.

I have re-named the spreadsheet (attached) to reflect it is the most recent version. I look forward to hearing the results from the field crew about portal PS-WV3-Y-1.

Regards,  
Sumalee

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**From:** Stahl, Megan D. [mailto:[MStahl@eqt.com](mailto:MStahl@eqt.com)]

**Sent:** Friday, November 03, 2017 7:37 AM

**To:** Hoskin, Sumalee; Lennon, Tiernan

**Cc:** Cindy Schulz; Jennifer Stanhope; Dawley, Joseph

**Subject:** Responses to spreadsheet comments

Tiernan and Sumalee,

As we discussed, I am providing information that I currently have to share on the spreadsheet so that you can continue your evaluation. The attached version is updated as indicated below. Please note that several cells are highlighted in yellow indicating where MVP still owes you information. As I mentioned to Tiernan yesterday, we will have a survey crew at PS-WV3-Y-1 this morning to collect additional data. We should be able to provide an update to you later today and a formal report on Monday.

1. PS-WV3-Y-1: portal evaluation data sheet, survey data sheets, and photos are attached
2. MVP-NI-151.02 now reads: no impact based on upgradient of existing access road, road will be widened and upgraded and will be supplemented with additional E&S controls near the potential portal location
3. Jones Cave now reads: no impact based on trend parallel to existing access road [REDACTED] that will not be upgraded or widened, and will be supplemented with additional E&S controls
4. Pedlar Hills: data from the detailed report from VSS was added

Please let me know if you need anything else.

Megan

Megan Stahl  
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**FIGURE NUMBER 1**

**Mine Portal**  
**PS-WV3-Y-P1**

11-07-17



### Legend

-  MVP Proposed Route  
with Mile Posts
-  MVP Proposed Access Roads
-  MVP Proposed Permanent Easement
-  MVP Proposed Temporary Work Space
-  Stations - Ceiling Elevation
-  Mine: Laser Measurements
-  Surface: Laser Traverse

