

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

**Supplemental Responses to Environmental Information Request
Dated February 13, 2019**

Federal Energy Regulatory Commission

Request:

General

1. File copies of, or provide an anticipated submittal date for all outstanding plans and studies that Mountain Valley indicated were pending, such as, but not limited to:
 - a. Project-specific Erosion and Sediment Control Plan (E&SCP) in compliance with Virginia and North Carolina erosion control regulations;
 - b. Compensatory Wetland Mitigation Plan;
 - c. Landslide Mitigation Plan;
 - d. Emergency Response Plan; and
 - e. Fugitive Dust Control Plan.

Response Submitted March 5, 2019:

- c. The Project is currently preparing a Landslide Mitigation Plan that will be submitted within a Supplemental Information Package in March 2019.

Supplemental Response submitted March 28, 2019:

The Project's Landslide Mitigation Report is in Attachment 1-1.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 1 – General Project Description

2. Regarding proposed contractor yards, provide the following information listed below.
 - a. Indicate the status of negotiations for landowner permission. Identify any issues that have been raised by landowners in opposition to placement of contractor yards and how those issues are being resolved.
 - b. Table 1.3-4 indicates extensive forested land is proposed to be cleared at contractor yards CY-01 (31.7 acres), CY-03 (4.2 acres), CY-07 (1.0 acre), and CY-09 (4.7 acres). If each contractor yard site cannot be configured to avoid forested impacts, provide site-specific justification for the clearing of forested areas at each of sites.
 - c. Evaluate alternative areas to place contractor yards that would avoid sensitive areas/resources (e.g. forest, environmental justice communities, public recreational areas, places of worship, etc.).

Response submitted March 5, 2019:

- a. The Project continues to refine the placement and location of contractor yards. The Project will provide an updated tabulation of contractor yards, including landowner status, and revised alignment sheets as part of the Supplemental Information Package to be submitted in March 2019. The Project will only seek to progress negotiations with landowners who are willing and interested in having this type of temporary workspace on their property.
- b. The Project is currently evaluating its proposed contractor yards and will provide an updated Table 1.3-4 within the Supplemental Information Package to be submitted in March 2019. Should contractor yard site(s) not be configured to avoid forested impacts, the Project will provide site-specific justification for the clearing of forested areas at each site.
- c. See Response 2.b.

Supplemental Response submitted March 28, 2019:

A Revised Table 1.3-4 - Contractor Yards along the MVP Southgate Project Pipeline is in Attachment Resource Report 1

Name of Respondent: Mr. James Sabol
Title: Project Manager
Phone Number: 412-395-3597

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Cumulative Impacts

11. Clarify which geographic scopes (or regions of influence) were used to identify the projects listed in table 1.10-2. If the geographic scopes requested by FERC staff in pre-filing comments on draft RR1, dated October 5, 2018, were not used, revise table 1.10-2 to include projects consistent with staff’s aforementioned request.

Response submitted March 5, 2019:

The geographic scopes (or regions of influence) used for the Project’s cumulative impact analysis are provided in Resource Report 1, Section 10.1(Table 1.10-1) and, apart from cultural resources, are consistent with the FERC staff in pre-filing comments on draft Resource Report 1, dated October 5, 2018. For cultural resources, the Project considered projects within 0.5 mile from centerline to take into account the maximum extent of the indirect effects area of potential effects (“APE”), rather than overlapping impacts within the Project APE (or direct effects), and considered the potential for cumulative visual impacts on architectural resources. The Project will provide an updated Table 1.10-2 within the Supplemental Information Package to be submitted in March 2019 to account for additional information acquired since the November 2018 filing.

Supplemental Response submitted March 28, 2019:

A Revised Table 1.10-2 - Projects with Potential Cumulative Impacts is in Attachment Resource Report 1.

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12. Include the information below in the revised table 1.10-2:
- a. the hydrologic unit code (HUC)-12 watershed that the identified project shares with the Southgate Project, and:
 - i. total acreage affected by the project within that shared HUC-12 watershed;
 - ii. acreage of forest cleared within the shared HUC-12 watershed where the Southgate Project affects forest; and
 - iii. acreage of wetlands (palustrine forested [PFO], palustrine scrub-shrub [PSS], and palustrine emergent [PEM]) affected within the shared HUC-12 watershed where the Southgate Project affects wetlands.
 - b. the HUC-10 watershed that the identified project shares with the Southgate Project, and:
 - i. total acreage affected by the project within that shared HUC-10 watershed; and
 - ii. number of waterbodies crossed within the shared HUC-10 watershed where the Southgate Project affects waterbodies.

Response submitted March 5, 2019:

The Project will provide an updated Table 1.10-2 within the Supplemental Information Package to be submitted in March 2019 that will include the requested acreage information for the HUC-12 and HUC-10 watersheds.

Supplemental Response submitted March 28, 2019:

A Revised Table 1.10-2 - Projects with Potential Cumulative Impacts is in Attachment Resource Report 1. The Updated Table 1.10-2 includes both the HUC-10 and HUC-12 for each project. Impacted acres within each watershed, for projects that overlap with the Southgate Project workspace are included in the updated Table 1.10-2. Additionally, streams crossed within each watershed that are also crossed by the Southgate Project workspace are included in revised Table 1.10-2.

Forested and wetland areas impacted by the Southgate Project and the projects that overlap with the Southgate Project workspace, are included in *New Table 12-1 – Cumulative Impacts Within HUC-10 Watersheds Affected by the Project* and *New Table 12-2 – Cumulative Impacts Within HUC-12 Watersheds Affected by the Project* in Attachment Resource Report 1.

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13. Provide a table that lists each HUC-12 watershed affected by the Southgate Project, and include the information below for each watershed:

- a. acres of forest, wetlands (PFO, PSS, PEM), and total acreage affected by the Southgate Project (permanent and temporary impacts);
- b. acreage of forest, wetlands (PFO, PSS, PEM), and total acreage affected by the projects combined in each HUC-12 watershed (permanent and temporary impacts) for all relevant projects identified in table 1.10-2;
- c. percent of the watershed that is affected by Southgate Project; and
- d. percent of the watershed that is affected by the other projects identified in the shared HUC-12 watershed.

Response submitted March 5, 2019:

The Project will provide new table within the Supplemental Information Package to be submitted in March 2019 that lists each HUC-12 watershed affected by the Project and include the requested wetland acreage and percent information.

Supplemental Response submitted March 28, 2019:

Forested and wetland areas impacted by the Southgate Project, the projects that overlap with the Southgate Project workspace, and percent of HUC-12 watersheds affected, are included in *New Table 12-2 – Cumulative Impacts Within HUC-12 Watersheds Affected by the Project* in Attachment Resource Report 1.

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14. Provide a table that lists each HUC-10 watershed affected by the Southgate Project, and include the information below for each watershed:

- a. number and type of waterbodies crossed by the Southgate Project;
- b. the total number and type of waterbodies crossed by the projects combined in each HUC-10 watershed for all relevant projects identified in table 1.10-2;
- c. percentage of the watershed that is affected by the Southgate Project; and
- d. percentage of the watershed that is affected by other projects identified in the shared HUC-10 watershed.

Response submitted March 5, 2019:

The Project will provide a new table within the Supplemental Information Package to be submitted in March 2019 that lists each HUC-10 watershed affected by the Project and include the requested number and type of waterbody and percent information.

Supplemental Response submitted March 28, 2019:

The number and type of waterbodies crossed by the Southgate Project and other projects that overlap the Southgate Project workspace in each HUC-10, is provided in *New Table 14-1 – HUC-10 Waterbodies for the Southgate Project and Other Relevant Projects* below. The percentage of HUC-10 watershed affected by the Southgate Project and the projects that overlap with the Southgate Project workspace are included in *New Table 12-1 – Cumulative Impacts Within HUC-10 Watersheds Affected by the Project* in Attachment Resource Report 1.

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New Table 14-1								
HUC-10 Waterbodies for the Southgate Project and Other Relevant Projects								
Watershed (10-Digit HUC)	Number of Waterbodies Crossed by the Southgate Project^{a/}				Number of Waterbodies Crossed by the Other Relevant Projects^{b/}			
	Ephemeral	Intermittent	Perennial	Pond	Ephemeral	Intermittent	Perennial	Pond
Cherrystone Creek-Banister River (0301010501)	0	13	10	1	0	9	5	0
Stinking River - Banister River (0301010502)	0	0	0	0	0	0	0	0
Headwaters Haw River (0303000202)	1	7	15	0	0	0	0	0
Total HUC 10 waterbodies crossed by Type	1	21	25	1	0	1	0	0
<p>^{a/} Field delineated streams through January 22, 2019 crossed by the MVP Southgate Project pipelines.</p> <p>^{b/} Includes other projects from Table 1.10-2 that overlap with the Southgate Project Workspace (i.e., the Mountain Valley Pipeline, Cypress Creek Renewables Solar Farm, and Husky Solar Farm). The limit of disturbance for the Cypress Creek Renewable Solar Farm and the Husky Solar Farm were digitized from project mapping available on the North Carolina Public Utilities Commission website. The USGS National Hydrography Dataset streams was used to determine number of stream crossings.</p>								

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Cumulative Impacts

15. For the resource-specific cumulative impacts analyses discussed in RR1, include additional information listed below (if available).

- a. Aquatic Resources: Identify if a perennial stream crossed by the Southgate Project has the potential to be crossed by another project within the same HUC-10 watershed. If so, give the distance between the crossings.
- b. Noise:
 - i. identify any potential sound-emitting projects within 0.5-mile of proposed drill or direct pipe sites and if cumulative noise levels could affect noise sensitive areas (NSA) identified within the construction noise geographic scope;
 - ii. identify all projects that could affect any NSAs within 1 mile of a noise emitting permanent aboveground facility; and
 - iii. calculate cumulative noise levels affecting NSAs for projects that meet the above criteria.
- c. Air:
 - i. identify all projects within 50 kilometers (km) of the Southgate Project operational facilities; and
 - ii. report emissions for each project within 50 km of a Southgate Project compressor station.

Response submitted March 5, 2019:

- a. The Project will provide a determination whether a perennial stream crossed by the Project has the potential to be crossed by another project in the same HUC-10 watershed within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

- a. The Mountain Valley Pipeline and the MVP Southgate Project pipeline both cross perennial streams Little Cherrystone Creek (S-F18-65, Project MP 0.4) and Cherrystone Creek (S-D18-18, Project MP 1.7) in the Cherrystone Creek-Banister River HUC-10 watershed. Neither crossing location is located within overlapping workspace areas for the projects. The Mountain Valley Pipeline crosses Little Cherrystone Creek approximately 3.5 miles upstream of the MVP Southgate Project pipeline crossing. The Mountain Valley Pipeline crosses Cherrystone Creek approximately 10.0 miles upstream of the MVP Southgate Project pipeline crossing. MVP

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proposes to construct the stream crossings for the projects in accordance with the FERC (2013) Wetland and Waterbody Construction Procedures to minimize impacts on the streams. The stream crossings are separated by construction schedule and distance, and the crossings will be restored and are expected to return to a pre-construction state over time. Therefore, no cumulative impacts on the streams are anticipated from construction or operation of the MVP projects.

Based on review of field survey data for the MVP Southgate Project, and review of the United States Geological Survey National Hydrography Dataset, there are no streams within the workspace for the Cypress Creek Renewables Solar Farm or the Husky Solar Farm; therefore, no cumulative impacts on surface waters are anticipated from construction of the projects.

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Request:

Resource Report 2 – Water Use and Quality

Water Resources

20. In response to the Virginia Department of Environmental Quality's (VADEQ) comments filed on January 10, 2019, address the items from their comments listed below and confirm that all laws, regulations, and permits required by the VADEQ would be followed.

- a. Wetlands and Water Quality: All comments, recommendations, and requirements in items 1(a) through 1(e).
- b. Erosion and Sediment Control and Stormwater Management: All comments, recommendations, and requirements in items 2(a) and 2(b).
- c. Water Supply: All comments, recommendations, and requirements in 3(a) and 3(b).
- d. Solid and Hazardous Wastes: All comments, recommendations, and requirements in 4(a) through 4(c).
- e. Water Planning and Monitoring: All comments, recommendations, and requirements in 5(a) through 5(c).

VADEQ Comment: Information presented in these resource reports is based on 77% completed wetland delineation as of September 2018.

Response submitted March 5, 2019:

The Project will provide updated delineation maps and acreages based on survey work completed through the end of January 2019 within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated delineation information (*Virginia Wetland and Waters Delineation Report Addendum 1*) incorporating changes made to delineated resources based on USACE site review and Project workspace shifts in Virginia is included in Attachment 20-1. The Project will continue to conduct environmental field surveys in April 2019 and will continue field survey efforts until complete.

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VADEQ Comment: It doesn't appear that dewatering proximate to wells and springs is addressed.

Response submitted March 5, 2019:

Section 2.2.4.1 of Resource Report 2 addresses potential impacts to wells from dewatering activities. It also includes measures that will be implemented to minimize or mitigate for impacts. The Project will provide an updated information on springs within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An updated *Table 2.2-2 - Private Wells within 150 feet of the MVP Southgate Project Construction Workspace* is in Attachment Resource Report 2. No springs have been identified within 150 feet of the Project construction workspace on parcels surveyed through January 22, 2019.

VADEQ Comment: 1(d) Agency Recommendations.

1(d)(i) Resource Report 1.

Confirm that surface waters were/will be delineated for all access roads, stockpile and materials storage areas, or other construction-related areas. This includes delineation of any isolated and spring-fed surface waters.

Response submitted March 5, 2019:

The Project will delineate all surface waters (including isolated or spring-fed surface waters) in areas that will be disturbed during construction, including access roads and stockpile and material storage areas. An updated delineation map and impact calculations for surface water features will be provided within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated delineation information (*Virginia Wetland and Waters Delineation Report Addendum 1*) incorporating changes made to delineated resources based on USACE site review and Project workspace shifts in Virginia is included in Attachment 20-1. The Project will continue to conduct environmental field surveys in April 2019 and will continue field survey efforts until complete.

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VADEQ Comment: Private water resources within 150 feet of the alignment work area should be identified. Table 2.2.2 lists the private wells identified by civil surveys where access currently has been granted. Update the information in Table 2.2.2 as it becomes available, and make it easily accessible on a web page, showing specifically which property owners have granted access and which have not.

Response submitted March 5, 2019:

The Project will provide an updated Table 2.2.2 (FERC Resource Report 2) within the Supplemental Information Package to be submitted in March 2019 and will add the updated information to its web page. The Supplemental Information Package will include information about which property owners have granted site access and which have not.

Supplemental Response submitted March 28, 2019:

An updated Table 2.2-2 - Private Wells within 150 feet of the MVP Southgate Project Construction Workspace is in Attachment Resource Report 2.

VADEQ Comment: DEQ is creating a database of springs throughout Virginia; however, that information is not available at this time. The database may not include all springs along the project corridor. Any springs and spring-fed isolated surface waters located near or within the project limits should be identified and delineated.

Response submitted March 5, 2019:

The Project will continue to delineate any spring or spring-fed isolated surface waters as part of its field surveys. The Project will provide an updated information on springs within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An updated Table 2.2-2 - Private Wells within 150 feet of the MVP Southgate Project Construction Workspace is in Attachment Resource Report 2. No springs have been identified within 150 feet of the Project construction workspace on parcels surveyed through January 22, 2019.

VADEQ Comment: All proposed surface water impacts should be categorized as either permanent or temporary impacts.

Response submitted March 5, 2019:

The Project will provide an updated impact table with delineation maps and impact tables for all surveyed resources within the Project limits through January 2019 within the Supplemental

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Information Package to be submitted in March 2019. This table will specify whether impacts are permanent or temporary. Appendix L-1 in the Standard Joint Permit Application filed with the USACE Norfolk District, VADEQ, and VMRC on November 30, 2018 identifies the Project's proposed impacts by type (temporary vs. permanent) for field-delineated and desktop-estimated resources within the Project limits as of September 2018.

Supplemental Response submitted March 28, 2019:

Updated delineation information (*Virginia Wetland and Waters Delineation Report Addendum 1*) incorporating changes made to delineated resources based on USACE site review and Project workspace shifts in Virginia is included in Attachment 20-1. The Project will continue to conduct environmental field surveys in April 2019 and will continue field survey efforts until complete.

Waterbodies affected by construction of the Project will be restored and are expected to return to a pre-construction state over time. Therefore, no permanent impacts on waterbodies are anticipated from operation of the Project. Additionally, palustrine emergent (PEM) and palustrine scrub-shrub (PSS) wetlands located within the operation corridor for the pipeline will continue to function as PSS and PEM wetlands during operation; therefore permanent impacts on PSS and PEM wetlands are not anticipated. Permanent palustrine forested (PFO) wetland impacts for the Project in Virginia will result from maintenance of the operation corridor for the pipeline. Permanent PFO wetland impacts associated with the Lambert Compressor Station are anticipated to be a conversion to PEM/PSS wetland, not permanent fill. Permanent PFO wetland impacts are summarized in *Revised Table 2.4-1 – Summary of Wetlands Crossed by the MVP Southgate Project* in Attachment Resource Report 2 and consist of 1.66 acres in Virginia.

VADEQ Comment: 1(e) Requirements.

1(e)(i) Wetlands.

Complete delineations of all surface waters, including isolated surface waters regulated by DEQ, are necessary to determine the proposed amount of impacts, both permanent and temporary, before any impact/compensation analysis can be performed.

Response submitted March 5, 2019:

The Project understands that complete delineations of all regulated surface waters within the Project limits is needed to determine final impacts and compensation. The Project will provide an update on surface water delineations, proposed impacts and compensation for all surveys completed through the end of January 2019 within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated delineation information (*Virginia Wetland and Waters Delineation Report Addendum 1*) incorporating changes made to delineated resources based on USACE site review and Project workspace shifts in Virginia is included in Attachment 20-1. The Project will continue to conduct

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environmental field surveys in April 2019 and will continue field survey efforts until complete and anticipates providing VADEQ with updated mitigation bank credit information for Project permanent impacts in PFO wetlands in May 2019.

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Resource Report 2 – Water Use and Quality

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22. Provide an updated table 2.2-2 to address “TBD” and include groundwater springs. Also file updates to this table as field surveys are completed.

Response submitted March 5, 2019:

The Project will provide an updated Table 2.2-2 within the Supplemental Information Package to be submitted in March 2019 that will address those cells previously identified as “To Be Determined” (TBD) and will include groundwater springs and resources identified during field surveys conducted subsequent to the November 2018 Project application.

Supplemental Response submitted March 28, 2019:

A Revised Table 2.2-2 - Private Wells within 150 feet of the MVP Southgate Project Construction Workspace is in Attachment Resource Report 2.

At this time, the type and status of wells remains “To be determined.” Water well information is being discussed with landowners during easement negotiations, which is actively on going. Additionally, no springs have been identified within 150 feet of the Project construction workspace on parcels surveyed through January 22, 2019.

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23. Provide any additional septic systems identified during subsequent surveys and provide a plan to minimize impacts on septic systems that are within or near Project workspaces.

Response submitted March 5, 2019:

The Project will provide any additional septic systems identified during subsequent surveys, a table that identifies septic systems within the construction workspace, by milepost, and plans to minimize impacts on septic systems that are within or near Project workspaces within the Supplemental Information Package to be submitted in March 2019 and a final table will be submitted with the Implementation Plan.

Supplemental Response submitted March 28, 2019:

To date, no new septic systems have been identified within the construction workspace. If septic systems are identified that may be affected by construction, the Project will first attempt to utilize a minor pipeline deviation to avoid direct impact on the septic system. If avoidance is not possible, the Project will work with the individual landowner to coordinate relocation and / or replacement of the septic system prior to construction.

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Water Resources

31. Revise appendix 2-A to include any timing windows for the waterbody crossings as required by the Virginia Department of Game and Inland Fisheries (VDGIF) and/or the VDCR per VADEQ comments.

Response submitted March 5, 2019:

The Project will provide an updated Appendix 2-A within the Supplemental Information Package to be submitted in March 2019 that will include any timing windows for the waterbody crossings as required by the Virginia Department of Game and Inland Fisheries (VDGIF) and/or the VDCR per VADEQ comments.

Supplemental Response submitted March 28, 2019:

An updated *Appendix 2-A - Waterbodies Crossed by MVP Southgate Project* is in Attachment Resource Report 2. No construction timing windows have been identified to date for the Project waterbody crossings. Construction timing windows for mussels may be applicable depending on final consultation with the applicable state agencies. The Project will provide FERC with a copy of the final consultation correspondence on mussels and any construction timing windows when received.

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Resource Report 2 – Water Use and Quality

Wetlands

33. Confirm that there are no wetland impacts (construction and operation) from contractor yards and cathodic protection. Table 3.4-1, notes 0.6 acre of wetland would be affected by contractor yards in North Carolina; however, no wetland impacts are accounted for in the wetland section and tables. Revise this section and update tables accordingly.

Response submitted March 5, 2019:

The Project is currently evaluating its proposed contractor yards and cathodic protection sites and will provide an updated Table 3.4-1 within the Supplemental Information Package to be submitted in March 2019. Should temporary wetland impacts be proposed within contractor yards and/or cathodic protection sites, the impacts will be accounted for within the applicable section of Resource Report 2 and associated tables.

Supplemental Response submitted March 28, 2019:

A Revised Table 3.4-1 - Vegetation Acreage Affected by Construction and Operation of the MVP Southgate Project is in Attachment Resource Report 3. No wetland impacts (construction or operation) from contractor yards are proposed. The only contractor yard remaining to be surveyed for environmental features to date is contractor yard CY-03. No approximated wetland or waterbody features were identified within the limits of CY-03 based on desktop review. One groundbed in Rockingham County impacts 0.02 acre of palustrine emergent wetland W-A19-277 at approximate milepost 41.8 (see Attachment Resource Report 2, Revised Appendix 2-B - Wetlands Crossed by the MVP Southgate Project).

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Wetlands

34. In compliance with the FERC Procedures, confirm that there are no temporary access roads proposed in wetlands. Additionally, for existing permanent access roads in a wetland, confirm that Mountain Valley would not do any improvements to the portions of these roads that occur in wetlands or provide justification for why improvements are needed in wetlands.

Response submitted March 5, 2019:

The Project is currently evaluating the temporary access roads proposed for use during construction and will provide updated information within the Supplemental Information Package to be submitted in March 2019. Should temporary wetland impacts be proposed within temporary access roads, the Project will request an alternative measure to the FERC Procedures. For each request, the Project will also provide justification as to why wetland impacts cannot be avoided and additional measures to be implemented to minimize impacts.

The Project will also provide an update on its permanent access roads within the Supplemental Information Package to be submitted in March 2019. For existing permanent access roads within wetlands, the Project confirms that no improvements to the portions of these roads that occur within wetlands will occur.

Supplemental Response submitted March 28, 2019:

Information on temporary access roads proposed for use during construction is provided in updated *Appendix I-F- Proposed New, Improved, and Private Roads for the MVP Southgate Project* is in Attachment Resource Report 1. Wetland impacts from temporary access roads are identified in *Revised Table 2-B – Wetlands Crossed by the MVP Southgate Project* in Attachment Resource Report 2.

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Resource Report 2 – Water Use and Quality

Wetlands

35. Update appendix 2-B to include:

- a. revised impact acreage to wetlands that are indicated as delineated by desktop analysis to include impact acreage based on actual field survey data where surveys have been completed; and
- b. impact acreage (construction and operation) to 2 decimal places for all impacts that are less than 1 acre in size.

Response submitted March 5, 2019:

The Project will provide an updated Appendix 2-B to include revised wetland impact acreages and report impact acreage to 2 decimal places for all impacts that are less than 1 acre in size within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A Revised Appendix 2-B - Wetlands Crossed by the MVP Southgate Project is in Attachment Resource Report 2.

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Request:

Resource Report 3 – Fish, Wildlife, and Vegetation

Vegetation and Wildlife

41. Identify whether Mountain Valley would clear vegetation for the path of the HDD guide wire and provide details if so.

Response submitted March 5, 2019:

As necessary, the Project intends to clear vegetation within a five-foot path between the HDD entry and exit workspace areas to allow for placement of the HDD guide wire. The proposed workspace will be depicted on revised alignment sheets to be submitted within the Supplemental Information Package to be filed in March 2019. The land use impacts associated with the workspace for the guide wire will be limited to construction only. The Project will not conduct periodic vegetation maintenance within the portion of the operational easement between the HDD entry and exit points. Updated impact tables that include the workspace for the HDD guide wire will also be included within the Supplemental Information Package.

Supplemental Response submitted March 28, 2019:

A Revised Table 3.4-1 - Vegetation Acreage Affected by Construction and Operation of the MVP Southgate Project is in Attachment Resource Report 3. Construction acres in revised Table 3.4-1 include a five-foot path between the HDD entry and exit workspace areas to allow for placement of the HDD guide wire.

Revised alignment sheets are provided in Attachment 140-1 of Question#140 within this supplemental response package.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 3 – Fish, Wildlife, and Vegetation

Vegetation and Wildlife

42. Provide location and acreage and/or linear feet of tree trimming, including along existing access roads. Include timing restrictions and whether sensitive or listed species would be affected (e.g., bats).

Response submitted March 5, 2019:

The Project will provide the location and acreage and/or linear feet of tree trimming, including along existing access roads and timing restrictions within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

At this time, the Project continues to gain access to existing access roads to determine if use of the road for the Project will require tree clearing or trimming only.

Revised Table 8.2-2 – Land Use Acreage Affected by Construction and Operation of the Proposed MVP Southgate Project Pipeline (provided in Attachment Resource Report 8) includes acreage of forest / woodland affected by the proposed 25-foot wide access roads based on recent aerial imagery. The Project proposes to clear the forest / woodland affected in Table 8.2-2, unless it is determined prior to construction that use of the road only requires trimming limbs along the edge of the existing road.

Currently, there is only one existing access road confirmed to require tree trimming only. Permanent access road PA-AL-194 to the T-21 Haw River Interconnect will require trimming the hedgerow in this location (approximately 110 linear feet).

The Project is currently in consultation with both agencies and will provide final correspondence regarding timing restrictions to FERC when received.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 3 – Fish, Wildlife, and Vegetation

Vegetation and Wildlife

47. Section 3.3.3.2 states approximately 18.5 acres of forest would be cleared within the Virginia Piedmont Forest Block Complex Important Bird Area (IBA), of which 10.5 acres would return to forested conditions over time. This statement implies that 8.0 acres of forest would be permanently converted to non-forested habitat; however, section 3.3.3.2 states that 8.2 acres of forest cover would be converted to non-forested cover within the IBA. Clarify this discrepancy.

Response submitted March 5, 2019:

The Project will provide an updated acreage of forested area to be cleared within the Virginia Piedmont Forest Block Complex Important Bird Area (IBA) within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated acreage of forested area to be cleared within the Virginia Piedmont Forest Block Complex IBA is included in *New Table 47-1 – Land cover and potential breeding habitat of Project-specific Migratory Bird Species* in Attachment Resource Report 3. Forest area affected by the Project was determined through review of Project aerial photography (April 2018), and field verification through January 22, 2019.

Approximately 41.2 acres of forest would be cleared within the Virginia Piedmont Forest Block Complex IBA, of which 25.8 acres would return to forested conditions over time, and 15.4 acres of forest cover would be converted to non-forested cover within the IBA as part of operational maintenance of the Project's permanent easement.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 3 – Fish, Wildlife, and Vegetation

Vegetation and Wildlife

50. Clarify the following regarding MBSC in section 3.3.3.3:
- a. the date range referred to as “peak” MBSC breeding season;
 - b. descriptions of the threats to the Project MBSC (i.e., why they have the conservation status they do, as noted in table 3.3-3);
 - c. acreage of suitable/occupied habitat that would be affected for each species;
 - d. provide a citation that supports the statement in section 3.3.3.3 that a 0.6-mile buffer reflects the distance at which noise impacts are unlikely to disrupt migratory bird nesting behavior;
 - e. whether Virginia state agencies would be solicited to determine appropriate conservation measures to minimize impacts on MBSC (currently only the U.S. Fish and Wildlife Service [FWS] and North Carolina Wildlife Resources Commission [NCWRC] are listed);
 - f. what the framework would be for how this agency coordination would occur and be implemented (i.e., will Mountain Valley develop a Migratory Bird Conservation Plan to codify the steps that would be taken to minimize impacts on the greatest extent practicable); and
 - g. if a Migratory Bird Conservation Plan will be developed, provide the date that it will be filed with the Commission.

Response submitted March 5, 2019:

- c. The Project will provide updated acreage amounts of suitable/occupied habitat that would be affected for each species within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated acreage amounts of suitable/occupied habitat that would be affected for each species is included in *New Table 47-1 - Land cover and potential breeding habitat of Project-specific Migratory Bird Species* in Attachment Resource Report 3.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 4 – Cultural Resources

63. File a table that lists all Project areas (e.g., pipeline areas, aboveground facilities, staging areas, ATWS, yards, and access roads) and indicate which areas have been surveyed for cultural resources and which remain to be surveyed.

Response submitted March 5, 2019:

Updated versions of Tables 4.5-5 and 4.5-6 listing the cultural resources survey status of all Project areas (e.g., pipeline areas, aboveground facilities, staging areas, ATWS, yards, and access roads) will be provided within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

The following updated tables are in Attachment Resource Report 4:

Revised Table 4.5-5 - Cultural Resources Survey Status of Pipeline Route (current as of March 15, 2019)

Revised Table 4.5-6 - Cultural Resources Survey Status of Aboveground Facilities (current as of March 15, 2019)

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

64. Update tables and appendices that list all previously recorded archaeological sites and historic architectural structures identified during the site file search and literature review within 0.5-mile of all Project components to include:

- a. resource number/name;
- b. cultural type;
- c. milepost;
- d. distance (in feet) from component;
- e. recorder/organization;
- f. date of recording;
- g. recorder evaluation; and
- h. SHPO evaluation.

Response submitted March 5, 2019:

The Project will provide updated versions of Tables 4.5-1, 4.5-2, 4.5-3, and 4.5-4 containing these data within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

The following updated tables are in Attachment Resource Report 4. Due to the sensitive nature of some of the material within the tables they are labeled “**CUI//PRIV – DO NOT RELEASE**” in accordance with FERC procedures and 36 CFR Part 800.11(c)(1):

Revised Table 4.5-1 - Previously Recorded Archaeological Resources within 0.5-mile of Project Components in Virginia (updated March 15, 2019)

Revised Table 4.5-2 - Previously Recorded Archaeological Sites within 0.5-mile of Project Components in North Carolina (current as of March 15, 2019)

Revised Table 4.5-3 - Previously Recorded Aboveground Resources within 0.5-mile of Project Components in Virginia (updated March 15, 2019)

Revised Table 4.5-4 - Previously Recorded Aboveground Resources within 0.5-mile of Project Components in North Carolina (current as of March 15, 2019)

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

65. File a list of all archaeological and historic architectural sites identified by Mountain Valley within the area of potential effects (APE) by milepost.

Response submitted March 5, 2019:

The Project will provide this information within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A table that list of all archaeological and historic architectural sites identified by the Project within the area of potential effects (APE) by milepost is included in *New Table 65-1 – Archaeological and Historic Architectural Sites Identified by Survey Listed by Milepost* (labeled “CUI//PRIV – DO NOT RELEASE”) in Attachment Resource Report 4.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

67. With regards to tables 4.5-1, 4.5-2, 4.5-3, and 4.5-4 in RR4, file a new table that lists all previously recorded archaeological and historic architectural sites that were located during Mountain Valley's surveys. The new table should list site number/name, cultural type, milepost or Project element (i.e., access road), original recorder/organization, original evaluation, Mountain Valley's new evaluation, and Mountain Valley's recommendation for future work.

Response submitted March 5, 2019:

The Project will provide updated versions of Tables 4.5-1, 4.5-2, 4.5-3, and 4.5-4 containing these data within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A table that lists all previously recorded archaeological and historic architectural sites that were located during the Project's surveys is provided is included in *New Table 67-1 – Previously Recorded Archaeological and Architectural Resources Identified by Survey (current as of March 15, 2019)* (labeled "CUI//PRIV – DO NOT RELEASE") in Attachment Resource Report 4.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

70. RR4 states that there are 94 previously recorded historic architectural sites within 0.5-mile of the pipeline in North Carolina. But the historic architectural survey reports state that there are 101 previously recorded sites in the APE. Clarify this discrepancy.

Response submitted March 5, 2019:

As stated in Resource Report 4, there are 94 previously recorded historic architectural resources within 0.5-mile of the Project in North Carolina, but 98 resources are listed in Table 4.5-4 in Resource Report 4. Both counts should be 101, as shown in Table 3.1 of the North Carolina architectural history report. Three resources were inadvertently omitted from Table 4.5-4 in Resource Report 4:

- RK1389 – House, Highway 29 (unassessed)
- RK1424 – House (unassessed)
- AM1589 – Hal Isley House (unassessed).

An updated version of Table 4.5-4 will be filed within the Supplemental Information Package to be submitted in March 2019

Supplemental Response submitted March 28, 2019:

A Revised Table 4.5-4 - Previously Recorded Aboveground Resources within 0.5-mile of Project Components in North Carolina (current as of March 15, 2019) (labeled “CUI//PRIV – DO NOT RELEASE”) is in Attachment Resource Report 4.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

72. For all archaeological and historic architectural sites, file plan-view maps showing the site boundaries in relation to the construction right-of-way or other Project elements (i.e., access roads).

Response submitted March 5, 2019:

The Project will provide this information within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Plan-view maps for all archaeological and historic architectural sites that show the site boundaries in relation to the construction right-of-way or other Project elements are in Attachment 72-1 (labeled “CUI//PRIV – DO NOT RELEASE”).

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Federal Energy Regulatory Commission

Request:

Resource Report 4 – Cultural Resources

74. Nineteen archaeological sites in Virginia and 10 archaeological sites in North Carolina are either potentially eligible or unevaluated. File plans to avoid those sites, or file the results of archaeological testing that leads to National Register of Historic Places (NRHP) evaluations.

Response submitted March 5, 2019:

Information on archaeological testing at three sites in Virginia is contained in the report titled *Phase II Archaeological Testing of Sites 44PY0271, 44PY0445, and 44PY0451, and Supplemental Phase I Deep Testing Investigations at Three Locations for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia* (Millis 2019), which is provided in Attachment 61-1 of Question#61 within this response package. NRHP eligibility evaluations and avoidance documentation and plans for additional sites will be filed within the Supplemental Information Package to be submitted in March 2019, and in subsequent filings.

Supplemental Response submitted March 28, 2019:

A Draft Report for *Supplemental Phase I Deep Testing Investigations and Phase II Archaeological Testing of Sites 44PY0375, 44PY0449, and 44PY0455 for the MVP Southgate Pipeline Project, Pittsylvania County, Virginia* are in Attachment 74-1.

A Draft Report for the *Phase II Archeological Testing of Sites 31RK221 and 31RK238 and Supplemental Phase I Deep Testing Investigations at Hogan’s Creek and Wolf Island Creek for the MVP Southgate Project, Rockingham County, North Carolina* and updated site forms for Sites 31RK221 and 31RK238 are in Attachment 74-1.

In addition, a Draft *Addendum I Phase I Archeological Survey for the MVP Southgate Project, Alamance, Guilford, and Rockingham County, North Carolina* is in Attachment 74-1.

These reports are labeled “CUI//PRIV – DO NOT RELEASE.”

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

76. Five historic architectural sites in Virginia, and 16 in North Carolina were recommended as potentially eligible or unassessed. File plans to avoid those sites, or file the results of investigations that fully evaluate their NRHP status.

Response submitted March 5, 2019:

Virginia and North Carolina SHPO reviews of the November 2018 Project Phase I historic architectural reports (Appendixes 4-F and 4-G) are provided in Attachment 60-1 of Question#60 within this response package and will result in some changes to these recommendations in the Final versions of those reports.

The Project will provide the Final versions of those reports within the Supplemental Information Package to be submitted in March 2019, and will file addendum architectural history reports, as well as plans to avoid or fully evaluate eligible, potentially eligible, or unassessed architectural resources in April 2019.

Supplemental Response submitted March 28, 2019:

The Project will provide the final versions of the Phase I historic architectural reports in April 2019 and addendum architectural history reports, as well as plans to avoid or fully evaluate eligible, potentially eligible, or unassessed architectural resources as they are complete.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Federal Energy Regulatory Commission

Request:

Resource Report 4 – Cultural Resources

78. In revisions to appendix 4-D and 4-E provide the following:

- a. clarification regarding the inconsistency of the 1-mile background search area and the 0.5-mile study area discussed in RR4;
- b. identify the survey area, APE, and Project area as these terms are used interchangeably;
- c. clarify the number of probes, negative and positive, for the entire survey;
- d. clarify the counts of resources found in Chapter 6 (appendix 4-D) and Chapter 7 (appendix 4-E) and update RR4 to match; and
- e. confirm that tribal coordination was not completed as part of the ethnographic study.

Response submitted March 5, 2019:

These revisions have been made to the revised Virginia and North Carolina archaeological survey reports, which are provided in Attachment 61-1 of Question#61 within this response package as appropriate. Information and citations are as follows:

- d. All counts of resources have been checked for consistency. The relevant Resource Report 4 tables will be updated within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Resource Report 4 Tables 4.5-7 and 4.5-8 have been checked for consistency against counts of resources in Appendix 4-D (Chapter 6) and Appendix 4-E (Chapter 7) and have also been updated to reflect Project work and SHPO evaluations received since November 2018. These tables are in Attachment Resource Report 4 and are labeled “CUI//PRIV – DO NOT RELEASE.”

Please note that Appendix 4-D Table 6.1 (NEW Table 79-1 in Attachment Resource Report 4) and Appendix 4-E Table 7.1 (NEW Table 79-2 in Attachment Resource Report 4) have been updated with distances from the construction corridor but not otherwise updated because these tables account for information reflected in the draft Phase I Archaeological survey reports filed with Resource Report 4 submitted as part of the certificate application.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 4 – Cultural Resources

79. Update the following tables to include the distance from construction corridor (in feet):
- a. appendix 4-D table 6.1;
 - b. appendix 4-E table 7.1;
 - c. appendix 4-F table 3.1 and table 6.1; and
 - d. appendix 4-G table 3.1 and table 7.1.

Response submitted March 5, 2019:

The Project will provide updated versions of Appendix 4-D Table 6.1, Appendix 4-E Table 7.1, Appendix 4-F Table 3.1 and Table 6.1, and Appendix 4-G Table 3.1 and Table 7.1 within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Resource Report 4 Tables 4.5-1 through 4.5-4 and Tables 4.5-9 and 4.5-10 have been checked for consistency against counts of resources in Appendix 4-D, 4-E, 4-F, and 4-G and have also been updated to reflect Project work and SHPO evaluations received since November 2018. These tables are in Attachment Resource Report 4 and are labeled “**CUI//PRIV – DO NOT RELEASE.**”

The corresponding Resource Report 4 tables are:

Please note that Appendix 4-F Table 3.1 (NEW Table 79-3), Appendix 4-F. Table 6.1 (NEW Table 79-4), Appendix 4-G. Table 3.1 (NEW Table 79-5), and Appendix 4-G Table 7.1 (NEW Table 79-6) have been updated with distances from the construction corridor but not otherwise updated because these tables account for information reflected in the draft Phase I Archaeological and Aboveground Resources Survey Report survey reports filed with Resource Report 4 submitted as part of the certificate application.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 4 – Cultural Resources

82. In appendix 4-G, provide forms as an appendix.

Response submitted March 5, 2019:

Historic architectural sites recorded in North Carolina are provided in as part of Attachment 71-1 of Question#71 within this response package. The site forms will be included in the Final Architectural History report for North Carolina within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

The Project will provide the final versions of the Phase I historic architectural reports in April 2019 and addendum architectural history reports, as well as plans to avoid or fully evaluate eligible, potentially eligible, or unassessed architectural resources as they are complete.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 5 – Socioeconomics

90. Clarify if Mountain Valley has accounted for socioeconomic and environmental justice impacts from all laydown/contractor yard/additional workspace areas, including those identified in RR1, table 1.3-4.

Response submitted March 5, 2019:

The Project considered environmental justice impacts for all laydown/contractor yard/additional workspace areas. The Project will provide updated information within the Supplemental Information Package to be submitted in March 2019 that will account for socioeconomic and environmental justice impacts from all laydown/contractor yard/additional workspace areas, including those identified in Resource Report 1, Table 1.3-4.

Supplemental Response submitted March 28, 2019:

A Revised Table 5.3-9 - EJ Block Group and Census Tracts for Counties Crossed by the MVP Southgate Project Facilities that includes all laydown/contractor yard/additional workspace areas is in Attachment Resource Report 5.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 5 – Socioeconomics

91. Provide an updated environmental justice analysis, including an impacts discussion, using the following criteria (recommended by the NCDEQ and U.S. Environmental Protection Agency's Environmental Justice Interagency Working Group Promising Practices for Environmental Justice Methodologies in NEPA Reviews) to identify environmental justice communities:

- a. census block groups that have a minority population of more than 50 percent;
- b. census block groups that have a household poverty rate of more than 20 percent; and
- c. census block groups that have a household poverty rate or minority population that is 10 percent higher than their respective county.

Response submitted March 5, 2019:

The Project will provide an updated environmental justice analysis within the Supplemental Information Package to be submitted in March 2019 to identify environmental justice communities.

Supplemental Response submitted March 28, 2019:

An updated environmental justice analysis is in Attachment Resource Report 5.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 6 – Geology

92. Provide the analysis of Light Imaging Detection and Ranging (LiDAR) imagery and field verification of steep slopes discussed in section 6.5.4. Based on Mountain Valley’s analysis of this site-specific data, provide a table that describes (by milepost) areas within or adjacent to the Project area with increased risk of slope instability. For each identified area, include a description and distance to nearby and downslope sensitive environmental resources (e.g., wetlands, waterbodies, residences).

Response submitted March 5, 2019:

The Project will provide the analysis of Light Imaging Detection and Ranging (LiDAR) imagery and field verification of steep slopes as discussed in section 6.5.4 within a Supplemental Information Package to be submitted in March 2019. Based on this analysis, the Project will provide a table within the Landslide Mitigation Report, also to be filed within the Supplemental Information Package that describes, by milepost, areas within or adjacent to the Project area with increased risk of slope instability.

Supplemental Response submitted March 28, 2019:

An analysis of Light Imaging Detection and Ranging (LiDAR) imagery and field verification of steep slopes is provided as Appendix A in the Project-specific Landslide Mitigation Report. The Project-specific Landslide Mitigation Report is in Attachment 1-1 of Question #1.c within this supplemental response package.

Name of Respondent: Mr. Neil Florentine
Title: Manager, Design Engineering
Phone Number: 412-553-5936

**Mountain Valley Pipeline, LLC
MVP Southgate Project
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Request:

Resource Report 6 – Geology

93. Address the following regarding landslide hazards, and steep and unstable slopes in a Landslide Mitigation Plan:

- a. provide additional assessment (such as field-based geotechnical investigations evaluating potential landslide areas) for sections of the pipeline route in areas with steep slopes;
- b. general guidelines defining where trench plugs, chips, and/or French plugs would and would not be used, or would be modified, to avoid water oversaturation of soils during significant or extended rainfall events which may result in increased pore pressure and potentially destabilize slopes (“bathtub effect”);
- c. locations where field (geologic mapping and measurements of bedrock bedding attitude) and/or geotechnical investigations would be conducted along the pipeline route to develop site-specific mitigation measures in areas with severe erosion potential, unstable, and/or steep slopes; and
- d. pre-construction, construction, and long-term (operational) monitoring and mitigation measures that would be used in areas characterized as landslide hazards, steep, and/or unstable slopes. (i.e., surface displacement surveys, manual or automated strain gauge monitoring, and groundwater level monitoring).

Response submitted March 5, 2019:

The Project is currently preparing a Landslide Mitigation Plan that address the concerns identified within the request above. The Project-specific Landslide Mitigation Plan will be submitted within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A Project-specific Landslide Mitigation Report is in Attachment 1-1 of Question #1.c within this supplemental response package.

Name of Respondent: Mr. Neil Florentine
Title: Manager, Design Engineering
Phone Number: 412-553-5936

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 6 – Geology

100. Confirm if any mineral resources are located within 0.25-mile of any aboveground facilities.

Response submitted March 5, 2019:

The Project will confirm if any mineral resources are located within 0.25-mile of any aboveground facilities within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Based on review of topographic maps, USGS information and state databases (USGS, 2016a and VDMME, 2018a), no mineral resources are located within 0.25-mile of any aboveground facilities.

No new mineral resources were identified within 0.25 mile of the revised pipeline alignment. There is no change in the Project distance from the sites identified in the Environmental Resource Reports submitted as part of the certificate application (i.e., 0.2 mile from the kiln plant at MP 26.6 and 0.1 mile from the East Alamance Quarry near MP 66.8).

References:

United States Geological Survey (USGS). 2016a. Mineral Resources Data System. Available online at: <https://mrdata.usgs.gov/metadata/mrds.html> Accessed July 18, 2018.

Virginia Department of Mines, Minerals and Energy (VDMME). 2018a. Division of Geology and Mineral Resources. Mineral Resources of Virginia. Available online at: <https://dmme.virginia.gov/gis/rest/services/DGMR/MineralResourcesOfVirginia/MapServer> Accessed July 16, 2018.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 6 – Geology

101. Provide the distance to Project workspaces of the East Alamance Quarry located near MP 66.8; and provide justification for the determination that the Project would have no effect on quarry operations.

Response submitted March 5, 2019:

The Project will provide the distance between workspaces and East Alamance Quarry located near MP 66.8; within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

The Southgate Project pipeline alignment is located approximately 0.1 miles from the East Alamance Quarry near MP 66.8 in Haw River, North Carolina. The Project is committed to working with East Alamance Quarry, will adhere to landowner easement agreements, and minimize impacts and inconveniences during operation of the Project. The Project continues to work with the East Alamance Quarry to ensure that there is minimal impact to the quarry to the extent practical. The Project will update the FERC when an agreement is finalized.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 7 – Soils

112. Update the “Percent of Project Area” values in table 7.2-1, specifically Prime Farmland or Farmland of Statewide Importance and Low Revegetation Potential to match the acreages in the table.

Response submitted March 5, 2019:

The Project will update the “Percent of Project Area” values in Table 7.2-1, specifically Prime Farmland or Farmland of Statewide Importance and Low Revegetation Potential to match the acreages in the table within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An updated *Table 7.2-1 - Summary of Soil Characteristics and Limitations for the MVP Southgate Project* is in Attachment Resource Report 7.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 7 – Soils

113. Provide total acreage of Prime Farmland and Farmland of Statewide Importance that would be permanently affected by aboveground facilities and permanent access roads associated with the Project.

Response submitted March 5, 2019:

The Project will provide total acreage of Prime Farmland and Farmland of Statewide Importance that would be permanently affected by aboveground facilities and permanent access roads associated with the Project within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A table providing the total acreage of Prime Farmland and Farmland of Statewide Importance that would be permanently affected by aboveground facilities and permanent access roads is included in *New Table 113-1 - Prime Farmland Permanently Affected by the MVP Southgate Project* in Attachment Resource Report 7.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Federal Energy Regulatory Commission

Request:

Resource Report 8 – Land Use, Recreation, and Visual Resources

114. Reconcile the discrepancy between the total number of acres affected during construction and operation between tables 1.3-1, 3.4-1, and 8.2-2.

Response submitted March 5, 2019:

The Project will reconcile the discrepancy between the total number of acres affected during construction and operation between Tables 1.3-1, 3.4-1, and 8.2-2 within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An updated *Table 1.3-1 - Land Requirements for the MVP Southgate Project Pipeline/Associated Workspace* is in Attachment Resource Report 1. Table 1.3-1 includes total number of acres affected by the Project pipeline facilities, Table 1.3-2 includes the total number of acres affected by the Project aboveground facilities. The sum of the totals in Table 1.3-1 and Table 1.3-2 equal the total acreage affected by the Project in Table 8.2-2.

An updated *Table 3.4-1 - Vegetation Acreage Affected by Construction and Operation of the MVP Southgate Project* is in Attachment Resource Report 3. The total number of acres affected in Table 3.4-1 only includes impacts on vegetated areas (i.e., excluding acres associated with commercial/industrial, open water, and residential areas) from the Project.

An updated *Table 8.2-2 - Land Use Acreage Affected by Construction and Operation of the Proposed Southgate Project* is in Attachment Resource Report 8. The total number of acres affected in Table 8.2-2 includes all areas affected by the Project.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 8 – Land Use, Recreation, and Visual Resources

117. Provide site-specific construction plans for all residences listed in table 8-D within 25 feet of construction workspace, including ATWS, access roads, aboveground facilities, and the pipeline right-of-way. Indicate on the plans whether the structures would be removed, relocated, or protected.

Response submitted March 5, 2019:

The Project will provide site-specific construction plans for all residences listed in Table 8-D within 25 feet of construction workspace, including ATWS, access roads, aboveground facilities, and the pipeline right-of-way. The plans will indicate whether the structures would be removed, relocated, or protected. These revised plans will be provided within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Site-specific construction plans for all residences listed in *Revised Table 8-D – Structures within 50 Feet of the Southgate Project* of Resource Report 2 within 25 feet of construction workspace, including ATWS, access roads, aboveground facilities, and the pipeline right-of-way are provided in updated *Appendix 8-C Site-specific Residential Construction and Mitigation Plans* is in Attachment Resource Report 8.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 8 – Land Use, Recreation, and Visual Resources

118. Table 8-D lists numerous structures that are within the construction workspace of the Project. Update the table to indicate whether those structures would be removed, relocated, or protected.

Response submitted March 5, 2019:

The Project will update the Table 8-D to indicate whether those structures would be removed, relocated, or protected within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A Revised Appendix 8-D Table 8-D - Structures within 50 Feet of the Proposed Pipeline Construction Work Area is in Attachment Resource Report 8.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 8 – Land Use, Recreation, and Visual Resources

121. Provide a table for all tracts that are part of a forest land management program (i.e. North Carolina's Forest Development Program) or any other conservation easement. Provide mitigation measures that would ensure that landowners are not removed/ineligible for these programs (i.e., due to tree clearing activities associated with the Project).

Response submitted March 5, 2019:

The Project will provide an updated Table 8.4-1 which provides a list of federal, state, recreation and conservation lands crossed by or located within 0.25 mile of the Southgate Project within the Supplemental Information Package to be submitted in March 2019. In addition, updated text for Section 8.4.1.1 will be provided to describe updated correspondence with easement holders and applicable minimization measures (if any) to be implemented.

Supplemental Response submitted March 28, 2019:

A Revised Table 8.4-1 - Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project is in Attachment Resource Report 8.

The Project has not identified any forest development programs at this time. The Project will provide information on Federal, State, Recreational, and Conservation Lands once title is complete. As such, the Project has not corresponded with the landowners concerning mitigation measures; however, discussions are on-going with the landowners and an agreement will be reached prior to construction.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

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Request:

Resource Report 8 – Land Use, Recreation, and Visual Resources

122. Describe measures that Mountain Valley would use to avoid or minimize potential impacts on conservation easements described in section 8.4.1 that are located within 500 feet of construction workspace, contractor yards, or access roads.

Response submitted March 5, 2019:

Conservation easements located within 500 feet of construction disturbance would not be crossed by the Project and therefore, not directly impacted by the Project. For conservation easements directly impacted by the Project, Mountain Valley will continue to coordinate with the easement holder to ensure use of this area during construction and operation of the Project is consistent with the conditions of the conservation easement.

The Project will provide an updated Table 8.4-1 which provides a list of federal, state, recreation and conservation lands crossed by or located within 0.25 mile of the Southgate Project within the Supplemental Information Package to be submitted in March 2019. In addition, updated text for Section 8.4.1.1 will be provided to describe updated correspondence with easement holders and applicable minimization measures (if any) to be implemented.

Supplemental Response submitted March 28, 2019:

A Revised Table 8.4-1 - Federal, State, Recreation, and Conservation Lands Crossed by or Located within 0.25 mile of the Southgate Project is in Attachment Resource Report 8.

The Project has not identified any forest development programs at this time. The Project will provide information on Federal, State, Recreational, and Conservation Lands once title is complete. As such, the Project has not corresponded with the landowners concerning mitigation measures; however, discussions are on-going with the landowners and an agreement will be reached prior to construction.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 9 – Air Quality and Noise

Air Quality

127. Provide any pertinent correspondence to and from the VADEQ regarding the Virginia air permit application and its completeness that has occurred since December 14, 2018.

Response submitted March 5, 2019:

The Virginia air permit application for the Lambert Compressor Station is currently under technical review by VADEQ after they received a response to their Initial Letter of Determination on December 14th. Additional VADEQ correspondence since December 14, 2018 will be provided to the FERC within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Additional VADEQ correspondence since December 14, 2018 is included in Attachment 127-1.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 9 – Air Quality and Noise

Noise

129. Provide an assessment of the applicability to the Pittsylvania County Noise Ordinance for the following activities:

- a. 24-hour construction of the Lambert Compressor Station/Interconnect;
- b. 24-hour construction of Railroad Crossings 1 and 2;
- c. maintenance blowdown at the Lambert Compressor Station; and
- d. emergency shutdown of the Lambert Compressor Station.

If applicable, include the calculated noise level at the property line of the NSA and compare to the associated limit to assess compliance. Include mitigation measures as needed.

Response submitted March 5, 2019:

The Project will continue to coordinate with Pittsylvania County to discuss the county noise ordinance's applicability to Project facilities and activities. Project representatives have met with County officials in December 2018 and the Project plans to meet with County officials again in March 2019.

Supplemental Response submitted March 28, 2019:

The Project continues its discussion with Pittsylvania County officials and will provide information on meeting results once available.

Name of Respondent: Mr. Neil Florentine
Title: Manager, Design Engineering
Phone Number: 412-553-5936

**Mountain Valley Pipeline, LLC
MVP Southgate Project
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Federal Energy Regulatory Commission

Request:

Resource Report 10 – Alternatives

134. As previously requested in our pre-filing comments on draft RR10, dated October 5, 2018, provide revisions to the comparison tables in 10.5, 10.6, and 10.7 to include the following information in each table:

- a. residential land, and commercial/industrial land;
- b. unlisted/potential eligible historic properties;
- c. national trails, recreation trails, and other recreational areas;
- d. forest areas; and
- e. consistent reporting of environmental impacts.

Response submitted March 5, 2019:

The Project will provide revisions to the comparison tables in 10.5, 10.6, and 10.7 to include the requested information this request. a through e within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

Updated comparison tables provided in Sections 10.5, 10.6, and 10.7 of Resource Report 10 are in Attachment Resource Report 10.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 10 – Alternatives

135. Reconcile the discrepancy between the number of acres required for construction between tables 1.3-2 and 10.7-2.

Response submitted March 5, 2019:

The Project will reconcile the discrepancy between the number of acres required for construction between Tables 1.3-2 and 10.7-2 within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An updated *Table 1.3-2 - Land Requirements for the MVP Southgate Project Aboveground Facilities* is in Attachment Resource Report 1.

An updated *10.7-1 - Comparison of the Proposed Lambert Compressor Station Site and Alternative 1* is in Attachment Resource Report 10.

The number of acres required for construction of the Lambert Compressor Station is reconciled in the two updated tables.

Name of Respondent: Mr. Alex Miller
Title: Environmental Manager
Phone Number: 713-374-1599

**Mountain Valley Pipeline, LLC
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Federal Energy Regulatory Commission

Request:

Resource Report 10 – Alternatives

136. In response to Ms. Katie Whitehead's comments submitted to the FERC Project Docket on September 11, 2018 (accession number 20180911-5002), address her concerns regarding an alternative route that avoids her property. Provide an analysis of route variations that were considered by Mountain Valley to avoid her property. Identify the alternative route that she states was provided to her at Mountain Valley's open house on June 28, 2018, and explain why this route variation was not incorporated into the final route.

Response submitted March 5, 2019:

The Project continues to evaluate a route variation that would avoid Ms. Katie Whitehead's property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An analysis of a route variation that would avoid Ms. Katie Whitehead's property is in Attachment Resource Report 10.

Name of Respondent: Mr. James Sabol
Title: Project Manager
Phone Number: 412-395-3597

**Mountain Valley Pipeline, LLC
MVP Southgate Project
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Request:

Resource Report 10 – Alternatives

137. In response to Mr. and Mrs. Shambley’s comments submitted to the FERC Project Docket on December 3, 2018 (accession number 20181203-5059), provide an analysis of route variations that would avoid or reduce impacts on the site where they are planning to construct a new home and install a septic system.

Response submitted March 5, 2019:

The Project is evaluating a route variation that would avoid Mr. and Mrs. Shambley’s property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

An analysis of a route variation that would avoid Mr. and Mrs. Shambley’s property is in Attachment Resource Report 10.

Name of Respondent: Mr. James Sabol
Title: Project Manager
Phone Number: 412-395-3597

**Mountain Valley Pipeline, LLC
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Request:

Resource Report 10 – Alternatives

138. Provide an analysis of route variations that would avoid or reduce impacts on groundwater wells and/or septic systems for the following property owners:

- a. Mr. Bombardier, comments submitted to the FERC Project Docket on August 20, 2018;
- b. Mrs. Moore, comments submitted to the FERC Project Docket on August 20, 2018;
- c. Mrs. Ore and Mr. Cowan, comments submitted to the FERC Project Docket on August 20, 2018;
- d. Mrs. Loeb, comments submitted to the FERC Project Docket on August 21, 2018;
- e. Mr. and Mrs. Marshall, comments submitted to the FERC Project Docket on August 21, 2018;
- f. Mr. and Mrs. Nicholson, comments submitted to the FERC Project Docket on August 21, 2018;
- g. Mr. and Mrs. Madrin, comments submitted to the FERC Project Docket on August 23, 2018; and
- h. Mr. Slade, comments submitted to the FERC Project Docket on August 23, 2018.

Response submitted March 5, 2019:

- a. The Project is evaluating a route variation that would avoid Mr. Bombardier's property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.
- b. The Project is evaluating a route variation that would avoid Mrs. Moore's property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.
- c. The Project is evaluating a route variation that would avoid Mrs. Ore and Mr. Cowan property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.
- f. The Project is evaluating a route variation that would avoid Mr. and Mrs. Nicholson property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.
- g. The Project is evaluating a route variation that would avoid Mr. and Mrs. Madrin property. The Project will provide an analysis of this variation within the Supplemental Information Package to be submitted in March 2019.

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Supplemental Response submitted March 28, 2019:

- a. An analysis of a route variation that would avoid Mr. Bombardier's property is in Attachment Resource Report 10.
- b. An analysis of a route variation that would avoid Mrs. Moore's property is in Attachment Resource Report 10.
- c. An analysis of a route variation that would avoid Mrs. Ore and Mr. Cowan property is in Attachment Resource Report 10.
- f. An analysis of a route variation that would avoid Mr. and Mrs. Nicholson property is in Attachment Resource Report 10.
- g. An analysis of a route variation that would avoid Mr. and Mrs. Madrin property is in Attachment Resource Report 10.

Name of Respondent: Mr. James Sabol
Title: Project Manager
Phone Number: 412-395-3597

**Mountain Valley Pipeline, LLC
MVP Southgate Project
Docket No. CP19-14-000**

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Federal Energy Regulatory Commission

Request:

Resource Report 11 – Reliability and Safety

139. Update and provide a revised table 11.2-1 that provides separate values by county for the Class 1 pipeline located at MPs 20.41 and 30.4.

Response submitted March 5, 2019:

A revised Table 11.2-1 will be provided within the Supplemental Information Package to be submitted in March 2019.

Supplemental Response submitted March 28, 2019:

A Revised Table 11.2-1 - MVP Southgate Project Pipeline Class Locations is in Attachment Resource Report 11.

Name of Respondent: Mr. Neil Florentine
Title: Manager, Design Engineering
Phone Number: 412-553-5936

**Mountain Valley Pipeline, LLC
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Request:

Appendix 1-A Alignment Sheets

140. Update and provide revised alignment sheets to correct the following noted discrepancies.
- a. From table 1.9-2, these items are not identified on the alignment sheets:
 - Ground Bed – 4, MP 60.2;
 - Ground Bed – 1, MP 10.8;
 - Ground Bed – 2, MP 21.1; and
 - Ground Bed – 3, MP 44.9;
 - b. From appendix 1-D, these items are missing:
 - table missing ATWS for H-605 Line; and
 - ATWS #1643, MP 68.8, mislabeled on alignment sheets as the arrow is not pointing to the correct feature;
 - c. From appendix 1-E:
 - MPs 14.1 to 14.7 – Williams Transco Pipeline not labeled; and
 - Duke Power Electric Transmission not labeled on the alignments;
 - d. From appendix 1-F, these items are missing from the alignments:
 - PA-PI-029, MP 12.4;
 - TA-PI-037, MP 15.2;
 - TA-PI-046A, MP 18.3;
 - TA-RO-072A, MP 27.0;
 - TA-RO-073A, MP 27.4;
 - PA-RO-000A, CY-08;
 - TA-RO-082A, CY-04;
 - TA-RO-082B, CY-07;
 - TA-RO-082C, CY-05;
 - TA-RO-082D, CY-05;
 - TA-RO-082E, CY-05;
 - PA-RO-114A, MP 42.2;
 - TA-RO-124A, MP 44.9; and
 - TA-GU-000, CY-09;
 - e. From table 2.3-9, these items are missing from alignments:
 - S-B19-14, MP 63.2, p. 2-31;
 - f. From appendix 2-A, these items are not labeled on the alignments:
 - S-E18-22, MP 10, on alignment sheet, not in table;
 - S-A18-140-2, MP 32;
 - S-A18-151-2, MP 33;
 - S-A18-154-2, MP 33;

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- S-A18-154-3, MP 33;
- S-C18-38-2, MP 34.6;
- S-C18-38-3, MP 34.8;
- S-C18-38-4, MP 35;
- S-B18-117-2, MP 37.7;
- S-A18-4-2, MP 38.5;
- S-B18-74-2, MP 39.6;
- S-A18-210-2, MP 40.4;
- AS-APS-01, MP 47.7;
- S-B18-59-2, MP 55.3;
- S-A18-125-2, MP 56.6;
- S-A18-125-3, MP 56.6;
- S-A18-125-4, MP 56.6;
- S-B18-22-2, MP 63.1;
- S-B18-12-2, MP 63.1;
- S-B18-12-3, MP 63.1;
- S-B18-12-4, MP 63.1;
- S-B18-12-5, MP 63.2;
- S-B18-12-6, MP 63.2;
- S-B18-14, MP 63.2;
- S-B18-14-1, MP 63.2;
- TA-PI-061, MPs 22.6 to 22.7, continues off map, S-E18-38, S-E18-39, and S-E18-40 not shown;
- TA-PI-063, MP 24, continues off map, S-E18-32 not shown;
- TA-PI-067, MP 25, continues off map, S-C18-88 not shown;
- TA-RO-073A, MP 27.4, AS-NHD-6003, AS-A18-40 not shown;
- TA-RO-076, MP 28.3, S-A18-24 not listed in table;
- PA-RO-000, MP 28.6, continues off map, AS-NHD-6002 not shown;
- TA-RO-089, MP 34.1, continues off map, S-C18-50 not shown;
- TA-RO-29, MP 46.7, continues off map, S-A18-239 not shown;
- TA-RO-139, MP 50.2, continues off map, S-C18-71 not shown;
- TA-AL-172, MPs 63.7 to 63.8, continues off map, AS-B18-138/AS-B18-137 not shown;
- TA-AL-179A, MP 66.5, continues off map, AS-NHD-7000 not shown;
- TA-AL-180, MP 67.3, continues off map, AS-APP-5006 not shown; and
- Aboveground facilities not on alignment sheets:
 - CY-05;
 - AS-NHD-115, MP 30.6;
 - AS-A18-248/S-A18-248, MP 30.6; and
 - AS-APP-1569, MP 30.7;
 - CY-06;
 - AS-A18-246/S-A18-246 MP 30.7; and
 - S-A18-247, MP 30.7;

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- g. From appendix 2-B, these items are not labeled on the alignments:
- AW-D18-23, MP 14.3;
 - W-A18-33, MP 28.3, mislabeled on the alignment sheets, arrow pointing to wrong feature;
 - W-B18-39, MP 30.2;
 - Aboveground facilities not on alignment sheets:
 - CY-05;
 - W-A18-249, MP 30.6;
 - AW-NWI-540, MP 30.7; and
 - AW-NWI-541, MP 30.7;
 - CY-06;
 - W-A18-245; and
 - T15 Dan River Interconnect;
 - AW-B18-36, MP 30.3;
 - TA-PI-043, MP 17.1, continues off sheet, W-F18-46 not shown;
 - TA-PI-052, MP 20.5, continues off sheet, W-F18-54 not shown;
 - TA-PI-061, MPs 22.6 to 22.7, continues off sheet, W-E18-37 not shown;
 - TA-PI-063, MP 24, continues off sheet, W-E18-31 not shown;
 - TA-PI-067, MP 25, continues off sheet, W-C18-87 not shown; and
 - TA-RO-080, MP 29.7, p. 2-B-9, continues off sheet, W-A18-20 not shown;
- h. From table 8.2-6, these items are not shown on the alignments:
- Southern Railroad, MP 25.9; and
- i. From appendix 8-B, these items are not shown on the alignments:
- State Road 1982/Wolf Island Road, MP 36.6, labeled as “Mount Island Rd” on alignment sheet 39, but “Wolf Island Rd” on sheet 40;
 - Hidden Valley Trail Road crossing (approx. MP 64.4), not identified in table;
 - Fauchette Lane/Jim Barnwell Rd intersection (approx. MP 64.8), Jim Barnwell Rd not identified in table; and
 - State Road 1935/Stone St., MP 69.8, not labeled in Horizontal Stationing.

Response submitted March 5, 2019:

The Project will provide necessary updated tables and appendices reflecting the Project’s revised alignment and newly obtained survey data within the Supplemental Information Package to be submitted in March 2019. Revised alignment sheets depicting this updated information and addressing the discrepancies identified as part of this request will also be provided within the Supplemental Information Package to be submitted in March 2019.

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**Supplemental Responses to Environmental Information Request
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Supplemental Response submitted March 28, 2019:

Revised alignment sheets are provided in Attachment 140-1 and filed under separate cover.

Name of Respondent: Mr. Neil Florentine
Title: Manager, Design Engineering
Phone Number: 412-553-5936