Resource Report 8
Land Use, Recreation, and Aesthetics

FERC Docket No. CP22-___-000

Equitrans, L.P.
Ohio Valley Connector Expansion Project
Greene County, Pennsylvania
Wetzel County, West Virginia
and Monroe County, Ohio

January 2022

EQUITRANS[SM]

Public Information

RESOURCE REPORT 8 - LAND USE, RECREATION AND AESTHETICS	
SUMMARY OF FERC FILING INFORMATION	
Information	**Found in**
Minimum Filing Requirements	
1. Classify and quantify land use affected by: Title 18 Code of Federal Regulations (CFR) part (§) 380.12 (j) (1) a. Pipeline construction and permanent rights-of-way; b. Extra work/staging areas; c. Access roads; d. Pipe and contractor yards; and e. aboveground facilities.	Section 8.1 Tables 8.1-1, 8.1-2, 8.1-4, 8.1-5 and 8.1-6
2. Identify by milepost all locations where the pipeline right-of-way would at least partially coincide with existing right-of-way, where it would be adjacent to existing rights-of-way, and where it would be outside of existing right-of-way - 18 CFR § 380.12 (j) (1).	Section 8.1.1.2 Table 8.1-3
3. Provide detailed typical construction right-of-way cross section diagrams showing information such as widths and relative locations of existing rights-of-way, new permanent right-of-way and temporary construction right-of-way - 18 CFR - § 380.12 (j) (1).	Resource Report 1, Appendix 1-A
4. Summarize the total acreage of land affected by construction and operation of the project -18 CFR § 380.12 (j) (1).	Section 8.1 Tables 8.1-2 and 8.1-5
5. Identify by milepost all planned residential or commercial/business development and the timeframe for construction - 19 CFR § 380.12 (j) (4).	Section 8.2.1 Resource Report 1
6. Identify by milepost special land uses (maple sugar stands, specialty crops, natural areas, national and state forests, conservation land) - 18 CFR § 380.12 (j) (4).	Section 8.3
7. Identify by beginning milepost and length of crossing all land administered by federal, state, or local agencies, or private conservation organizations - 18 CFR § 380.12 (j) (4).	Section 8.3
8. Identify by milepost all natural, recreational, or scenic areas, and all registered natural landmarks crossed by the project - 18 CFR § 380.12 (j) (4 & 6).	Section 8.3
9. Identify all facilities that would be within designated coastal zone management areas - 18 CFR § 380.12 (j) (4).	Not applicable
10. Identify by milepost all residences that would be within 50 feet of the construction right-of-way or extra work area - 18 CFR § 380.12 (j) (5).	Section 8.2.2
11. Identify all designated or proposed candidate National or State Wild and Scenic Rivers crossed by the project - 18 CFR - § 380.12 (j) (6).	Section 8.3
12. Describe any measures to visually screen aboveground facilities, such as compressor stations - 18 CFR § 380.12 (j) (11).	Section 8.4
13. Demonstrate that applications for rights-of-way or other proposed land use have been or soon will be filed with federal land-managing agencies with jurisdiction over land that would be affected by the project - 18 CFR § 380.12 (j) (12).	Not applicable

RESOURCE REPORT 8 - LAND USE, RECREATION AND AESTHETICS	
SUMMARY OF FERC FILING INFORMATION	
Information	**Found in**
Additional Information Often Missing and Resulting in Data Requests	
1. Identify all buildings within 50 feet of the construction right-of-way or extra work areas.	Section 8.2.2
2. Describe the management and use of all public lands that would be crossed.	Section 8.3
3 Provide a list of landowners by milepost or tract number that corresponds to information on alignment sheets.	Resource Report 1, Appendix 1-C (Privileged Information - Under Separate Cover)
4. Provide a site-specific construction plan for residences within 25 feet of construction or as requested by Federal Energy Regulatory Commission staff.	Not applicable

Table of Contents

Acronyms and Abbreviations

ATWS	Additional temporary workspace
CFR	Code of Federal Regulations
Equitrans	Equitrans, L.P.
FERC	Federal Energy Regulatory Commission
FRS	Facility Registry System
LOD	Limit of disturbance
MP	Milepost
NRCS	National Resources Conservation Service
OH	Ohio
ODNR	Ohio Department of Natural Resources
OVC	Ohio Valley Connector
PA	Pennsylvania
PAR	permanent access road
PADCNR	PA Department of Conservation and Natural Resources
PEM	palustrine emergent
PFO	palustrine forested
Plan	FERC's 2013 Upland Erosion Control, Revegetation and Maintenance Plan
Procedures	FERC's 2013 Wetland and Waterbody Construction and Mitigation Procedures
Project	Ohio Valley Connector Expansion Project
PSS	palustrine scrub-shrub
PUB	palustrine unconsolidated bottom
ROW	Right-of-way
SGL	State Game Lands
TAR	temporary access road
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
WV	West Virginia
WVDEP	West Virginia Department of Environmental Protection
WVDNR	West Virginia Division of Natural Resources

8.0 Land Use, Recreation, and Aesthetics

A detailed description and overview map of Equitrans, L.P.'s (Equitrans') Ohio Valley Connector Expansion (Project) are provided in Resource Report 1, General Project Description. Resource Report 8 is required for all applications except those involving only facilities that are of comparable use within the boundaries of existing compressor stations. Resource Report 8 describes the land use, recreation, and visual resources associated with the proposed construction and operation of the Project. Direct and indirect impacts as a result of such construction and operation are also discussed. The proposed Project will have minimal impact on land use, short-term temporary impacts on recreation sources, and short-term (temporary) visual impacts. Potential impacts will be mitigated as discussed in the following sections.

8.1 Land Use

The Project is located within Greene County, Pennsylvania (PA), Wetzel County, West Virginia (WV), and Monroe County, Ohio (OH) and traverses multiple land use types. Equitrans, L.P. (Equitrans) completed ground surveys of the Project area and documented the land uses traversed by the proposed Project. The following section provides a listing and description of land uses affected by the Project. Equitrans classified lands within the Project area into the following seven categories based on dominant land use and vegetative cover:

Forest: Upland dominated by trees greater than five meters in height, and having at least 60 percent canopy closure, and not being used for specific commercial purposes.

Open Land: Open fields, pasture, vacant land, herbaceous and scrub-shrub uplands, non-forested lands, and maintained utility rights-of-way (ROWs).

Agricultural Land: Actively cultivated land used for row crops, and hayfields.

Commercial/Industrial: Manufacturing or industrial plants, paved areas, landfills, mines, quarries, electric power or natural gas utility facilities, developed areas, paved roads, railroads and railroad yards, and commercial or retail facilities.

Residential: Residential yards, subdivisions and planned new residential developments.

Wetlands: Field-delineated palustrine emergent, palustrine scrub-shrub, palustrine forested, and palustrine unconsolidated bottom wetlands (PEM, PSS, PFO, and PUB, respectively). No PFO or PUB wetlands are affected by the Project.

Open Water: Field-delineated waterbodies.

8.1.1 Pipeline Facilities

Linear mileage and percentage of cover type crossed per each identified land use type is summarized in Table 8.1-1. Table 8.1-2 identifies the acreage affected by land use type during construction and operation of the Project. Mitigation measures to be implemented by Equitrans during construction and operation of the Project, to reduce effects on each land use type, are identified in Section 8.1.3 below.

8.1.1.1 Construction and Permanent ROW

Construction of the Project will require disturbance within the Project's limits of disturbance (LOD) which is detailed on the Construction Alignment Sheets provided in Resource Report 1, Appendix 1-A. The typical pipeline construction ROW will be 100 feet wide, which consists of a 50-foot-wide permanent ROW and a 50-foot-wide temporary ROW. Table 8.1-2 identifies the acreage affected by land use type during construction and operation of the Project. Typical construction ROW cross-section diagrams are provided in Resource Report 1.

Equitrans will operate and maintain the pipeline facilities in compliance with U.S. Department of Transportation regulations 49 Code of Federal Regulations (CFR) § 192, Federal Energy Regulatory Commission's (FERC's) regulations at 18 CFR § 380.15, and maintenance provisions of FERC's Plan and Procedures, and applicable laws and regulations. Activities associated with pipeline operation will be limited primarily to vegetative maintenance of the ROW, surveys (leak, corrosion, etc.), inspection, maintenance, and repair. Post-construction ROW maintenance will be conducted according to the time of year restrictions and methods described in FERC's *Upland Erosion Control, Revegetation and Maintenance Plan* (Plan), and where applicable FERC's *Wetland and Waterbody Construction and Mitigation Procedures* (Procedures).

8.1.1.2 Existing ROWs

Table 8.1-3 summarizes the types of existing ROWs co-located or adjacent to the Project and quantifies the amount of Project workspace overlapping existing ROWs. The proposed H-326, H-330, and H-330 Spur pipelines are collocated with existing pipelines for approximately 58.8 percent, 76.8 percent, and 88.9 percent of the proposed alignments, respectively.

Table 8.1-1

Land Crossed by the Pipelines[1, 2]

Facility/County, State	Forest		Open Land		Agricultural Land		Commercial/ Industrial		Residential		Wetlands		Open Water		Total	
	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent	Miles[3]	Percent
Pipeline																
H-327 and H-328 Pipelines, Greene County, PA[4]	0.33	71.26	0.13	28.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<0.01	0.35	**0.46**	**100.00**
H-326 Pipeline, Wetzel County, WV[5]	1.85	52.67	1.46	41.54	0.05	1.33	0.13	3.84	0.01	0.30	<0.01	0.07	<0.01	0.24	**3.51**[5]	**100.00**
H-329 Pipeline, Wetzel County, WV	<0.01	1.52	0.02	74.22	0.00	0.00	<0.01	24.26	0.00	0.00	0.00	0.00	0.00	0.00	**0.02**	**100.00**
H-330 Pipeline, Wetzel County, WV[5]	0.24	35.36	0.39	56.62	0.00	0.00	0.05	7.86	0.00	0.00	0.00	0.00	<0.01	0.17	**0.69**	**100.00**
H-330 Spur, Wetzel County, WV	0.00	0.00	0.04	45.26	0.00	0.00	0.05	54.74	0.00	0.00	0.00	0.00	0.00	0.00	**0.09**	**100.00**
Logansport Spur, Wetzel County, WV[6]	0.00	0.00	0.00	0.00	0.00	0.00	0.03	100.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.03**	**100.00**
Totals	**2.42**	**50.38**	**2.03**	**42.43**	**0.05**	**0.97**	**0.27**	**5.72**	**0.01**	**0.22**	**<0.01**	**0.05**	**0.01**	**0.23**	**4.81**	**100.00**

Notes:

1 The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the sum of the addends in all cases or in related tables.

2 Land classifications were measured in horizontal distance along the pipeline. Crossing lengths reflect where the pipeline centerline crosses the land use type.

3 Miles were measured in Geographic Information System using a 2-D shapefile.

4 The H-327 and H-328 Pipelines are parallel pipelines located within shared permanent pipeline ROW.

5 Portions of the H-326 and H-330 Pipelines that share ROW are accounted for under the H-330 Pipeline. For the purposes of this table reported length of the H-326 Pipeline is 3.51 miles however, the pipeline is 3.71 miles long.

6 Logansport Spur consists of modification within existing aboveground facility area to install approximately 160 feet of 12-inch diameter pipeline extending from the H-515 Pipeline to the H-306 Pipeline.

Table 8.1-2

Land Use Acreage Affected by Construction and Operation of the Project [1]

Facility/ County, State	Forest		Open Land		Agricultural Land		Commercial/ Industrial		Residential		Wetlands		Open Water		Total	
	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]
Pipeline Facilities																
H-327 and H-328 Pipelines, Greene County, PA [4]																
Pipeline	3.96	1.97	1.42	0.81	0.00	0.00	0.01	0.01	0.00	0.00	0.02	0.01	0.02	0.01	**5.43**	**2.81**
ATWS	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.10**	**0.00**
Deep Anode Groundbed	*None*															
Access Road[5]	0.01	0.01	0.35	0.35	0.00	0.00	0.29	0.29	0.00	0.00	0.00	0.00	<0.01	<0.01	**0.65**	**0.65**
Staging/Parking Areas	0.00	0.00	<0.01	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.05**	**0.00**
Contractor Yards[6]	0.16	0.00	0.03	0.00	0.00	0.00	5.02	0.00	3.34	0.00	0.00	0.00	0.00	0.00	**8.55**	**0.00**
H-327 and H-328 Pipelines Subtotals	***4.13***	***1.99***	***1.90***	***1.16***	***0.00***	***0.00***	***5.37***	***0.30***	***3.34***	***0.00***	***0.02***	***0.01***	***0.02***	***0.01***	***14.78***	***3.47***
H-326 Pipeline, Wetzel County, WV [7]																
Pipeline	29.39	12.54	11.47	7.77	0.42	0.28	0.81	0.60	0.14	0.07	0.03	0.02	0.09	0.05	**42.35**	**21.33**
ATWS	3.42	0.00	1.27	0.00	0.94	0.00	0.00	0.00	0.09	0.00	0.02	0.00	<0.01	0.00	**5.73**	**0.00**
Deep Anode Groundbed	*None*															
Access Road[5]	3.76	0.00	4.48	0.04	0.05	0.00	0.71	0.21	0.10	0.00	0.00	0.00	0.02	0.00	**9.13**	**0.25**
Staging/Parking Areas	0.56	0.00	0.64	0.00	0.00	0.00	0.57	0.00	0.10	0.00	0.00	0.00	0.00	0.00	**1.87**	**0.00**
Contractor Yards[6]	0.01	0.00	4.39	0.00	0.00	0.00	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**7.54**	**0.00**
H-326 Pipeline Subtotals	***37.14***	***12.54***	***22.26***	***7.81***	***1.41***	***0.28***	***5.22***	***0.81***	***0.43***	***0.07***	***0.05***	***0.02***	***0.11***	***0.05***	***66.61***	***21.58***
H-329 Pipeline, Wetzel County, WV																
Pipeline	<0.01	0.00	0.15	0.09	0.00	0.00	<0.01	<0.01	0.00	0.00	0.00	0.00	0.00	0.00	**0.15**	**0.09**
ATWS	*None*															
Deep Anode Groundbed	*None*															
Access Road[5]	0.00	0.00	0.14	0.14	0.00	0.00	0.12	0.12	0.00	0.00	0.00	0.00	0.00	0.00	**0.26**	**0.26**
Staging/Parking Areas	*None*															
Contractor Yards[6]	*None*															
H-329 Pipeline Subtotals	***<0.01***	***0.00***	***0.29***	***0.23***	***0.00***	***0.00***	***0.12***	***0.12***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.41***	***0.35***
H-330 Pipeline, Wetzel County, WV [7]																
Pipeline	2.96	1.48	4.78	2.38	0.00	0.00	0.28	0.22	0.00	0.00	0.05	0.04	0.01	<0.01	**8.08**	**4.11**
ATWS	0.10	0.00	0.28	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.10	0.00	**0.46**	**0.00**
Deep Anode Groundbed	*None*															
Access Road[5]	0.57	0.00	0.03	0.03	0.00	0.00	0.33	0.33	0.00	0.00	0.06	0.06	0.00	0.00	**0.99**	**0.42**
Staging/Parking Areas	0.07	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.32**	**0.00**
Contractor Yards[6]	*None*															
H-330 Pipeline Subtotals	***3.70***	***1.48***	***5.08***	***2.41***	***0.00***	***0.00***	***0.94***	***0.55***	***0.00***	***0.00***	***0.11***	***0.09***	***0.02***	***0.00***	***9.84***	***4.53***
H-330 Spur, Wetzel County, WV																
Pipeline	***0.00***	***0.00***	***0.22***	***0.12***	***0.00***	***0.00***	***0.08***	***0.08***	***0.00***	***0.00***	***0.10***	***0.02***	***0.00***	***0.00***	***0.40***	***0.21***
ATWS	***0.01***	***0.00***	***0.02***	***0.00***	***0.00***	***0.00***	***0.05***	***0.00***	***0.00***	***0.00***	***0.08***	***0.00***	***0.00***	***0.00***	***0.16***	***0.00***
Deep Anode Groundbed	*None*															
Access Road[5]	*None*															
Staging/Parking Areas	*None*															
Contractor Yards[6]	*None*															
H-330 Spur Subtotals	***0.01***	***0.00***	***0.24***	***0.12***	***0.00***	***0.00***	***0.13***	***0.08***	***0.00***	***0.00***	***0.18***	***0.02***	***0.00***	***0.00***	***0.56***	***0.21***

Table 8.1-2 (continued)

Facility/ County, State	Forest		Open Land		Agricultural Land		Commercial/ Industrial		Residential		Wetlands		Open Water		Total	
	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]	Construction[2]	Operation[3]
Logansport Spur, Wetzel County, WV [8]																
Pipeline	0.00	0.00	0.41	0.00	0.00	0.00	3.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**3.75**	**0.00**
ATWS	*None*															
Deep Anode Groundbed	*None*															
Access Road[5]	*None*															
Staging/Parking Areas	*None*															
Contractor Yards[6]	*None*															
Pipeline	*None*															
Logansport Spur Subtotals	***0.00***	***0.00***	***0.41***	***0.00***	***0.00***	***0.00***	***3.34***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***3.75***	***0.00***
Pipeline Facilities Subtotals	***44.98***	***16.01***	***30.18***	***11.73***	***1.41***	***0.28***	***15.12***	***1.85***	***3.77***	***0.07***	***0.36***	***0.14***	***0124***	***0.07***	***95.96***	***30.14***
Aboveground Facilities																
PA Aboveground Facilities																
Shough Creek Valve Yard, Greene County, PA[9]	0.00	0.00	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.06**	**0.06**
Cygrymus Compressor Station, Greene County, PA[10]	3.09	0.06	4.34	0.15	0.00	0.00	2.08	0.58	0.00	0.00	0.01	0.00	0.00	0.00	**9.51**	**0.80**
PA Aboveground Facilities Subtotals	***3.09***	***0.06***	***4.34***	***0.15***	***0.00***	***0.00***	***2.08***	***0.58***	***0.00***	***0.00***	***0.01***	***0.00***	***0.00***	***0.00***	***9.57***	***0.85***
WV Aboveground Facilities																
Corona Compressor Station, Wetzel County, WV	0.00	0.00	0.00	0.00	0.00	0.00	2.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**2.58**	**0.00**
Pickenpaw Interconnect, Wetzel County, WV	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.08**	**0.00**
Ohio Valley Connector Interconnect, Wetzel County, WV [11]	0.00	0.00	0.05	0.05	0.00	0.00	0.45	0.18	0.00	0.00	0.00	0.00	0.00	0.00	**0.49**	**0.22**
Mobley Run Tap Site, Wetzel County, WV	0.00	0.00	<0.01	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.25**	**0.00**
Liberty Valve Yard, Wetzel County, WV [9]	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	**0.02**	**0.02**
WV Aboveground Facilities Subtotals	***0.00***	***0.00***	***0.06***	***0.06***	***0.00***	***0.00***	***3.34***	***0.18***	***0.00***	***0.00***	***0.01***	***0.01***	***0.00***	***0.00***	***3.41***	***0.24***
OH Aboveground Facilities																
Plasma Compressor Station, Monroe, OH[12]	0.00	0.00	2.71	1.14	0.00	0.00	4.93	<0.01	0.00	0.00	0.00	0.00	0.00	0.00	**7.64**	**1.14**
OH Aboveground Facilities Subtotals	***0.00***	***0.00***	***2.71***	***1.14***	***0.00***	***0.00***	***4.93***	***<0.01***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***0.00***	***7.64***	***1.14***
Aboveground Facilities Subtotals	***3.09***	***0.06***	***7.17***	***1.41***	***0.00***	***0.00***	***10.34***	***0.76***	***0.00***	***0.00***	***0.02***	***0.01***	***0.00***	***0.00***	***20.62***	***2.23***
Project Totals	**48.07**	**16.07**	**37.35**	**13.14**	**1.41**	**0.28**	**25.46**	**2.61**	**3.77**	**0.07**	**0.38**	**0.14**	**0.44**	**0.07**	**116.58**	**32.38**

Notes:

1 The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the sum of the addends in all cases or in related tables.

2 Land affected during construction is comprised of permanent easement, temporary workspace, ATWS, staging areas, contractor yards, access roads, and aboveground facilities.

3 Land affected during operation includes permanent easement, new/expanded aboveground facility area and permanent access roads.

4 The H-327 and H-328 Pipelines are parallel pipelines located within shared permanent pipeline ROW, and therefore acreage is reported together.

5 Access roads have been designed to be expanded up to 40 feet wide.

6 Contractor yards in PA and WV are included within the reported acreage for contractor yards for the H-327 and H-328 pipelines (PA) and H-326 pipeline (WV). No contractor yards are proposed in OH.

7 Portions of the H-326 and H-330 Pipelines share Construction ROW for 0.20 miles. Shared construction and operational impacts for the H-326 and H-330 Pipelines are accounted for under the H-330 Pipeline.

8 Logansport Spur consists of modification within existing facility to install approximately 160 feet of 12-inch diameter pipeline. Reported acreage represents the existing aboveground facility area.

9 A portion of the facility is accounted for within the permanent pipeline ROW. The reported operational acreage represents the area of the facility that is located beyond the permanent pipeline ROW.

10 Operational acreage for Cygrymus Compressor Station represents the area required for expansion at the existing station.

11 Operational acreage for the Ohio Valley Connector Interconnect represents the area required for expansion at the existing facility.

12 Construction Acreage reported for Plasma Compressor Station consists of the existing permanent access road, existing facility area, facility expansion area and temporary workspace. Operational acreage for Plasma Compressor Station represents the area required for expansion at the existing station.

Table 8.1-3

Summary of Collocation of the Pipeline Facilities

County/State/Facility	Start MP[1]	End MP[1]	Approximate Total Miles	Type of ROW (Co-located Facility)	Position Related to Proposed Pipeline
Wetzel County, WV					
H-326 Pipeline	0.00	0.65	0.65	Natural Gas (Equitrans H306)	Parallel
	0.65	1.55	0.90	Natural Gas [EQM Gathering Opco (EQM) MOTAD001]	Parallel
	3.10	3.50	0.40	Natural Gas (EQM NIHAD001)	Parallel
	3.50	3.73	0.23	Natural Gas (Mountain Valley Pipeline H600)	Parallel
H-330 Pipeline	0.28	0.65	0.37	Natural Gas (Mountain Valley Pipeline H600)	Parallel
	0.28	0.44	0.16	Natural Gas (EQM NIHAD001)	Parallel
H-330 Spur	0.01	0.09	0.08	Natural Gas (Equitrans H306-GSF912)	Parallel and Crosses

Notes:

[1] Approximate milepost (MP) along the proposed pipeline.

8.1.1.3 Additional Temporary Workspace and Staging/Parking Areas

Equitrans has identified areas along its proposed pipeline construction corridors where extra workspace such as ATWS and staging/parking areas will be required. The acres affected by these extra workspaces are included in Table 8.1-4 (Appendix 8-A). The location of ATWS and staging/parking areas are shown on the Construction Alignment Sheets provided in Resource Report 1, Appendix 1-A. Additional workspaces are typically required at the following locations:

- mobilization and demobilization areas at each end of each construction spread;
- stringing truck turnaround areas;
- locations where the pipeline crosses under buried features, such as foreign pipelines, utility lines, drain tiles, and irrigation systems;
- locations where spread “move-arounds” and “turnarounds” are required;
- on both sides of roads, wetlands, and waterbodies;
- side slope areas to allow for grading to a level working ROW;
- areas where full ROW topsoil segregation will be performed (non-forested areas without significant previous topsoil disturbance); and
- other areas as determined by site-specific conditions required to provide extra space for spoil storage and construction activities.

The disturbance and use of these extra workspaces will be limited to the duration of construction and will be allowed to return to pre-construction or similar use following the installation of the facilities. Following construction, Equitrans will restore these areas in accordance with the FERC’s Plan or applicable federal, state, or local permits.

In accordance with the FERC’s Procedures, Equitrans has located extra workspace at least 50 feet from wetland or waterbody boundaries to the extent practicable. Proposed alternative measures to FERC’s Procedures are requested in Resource Report 1.

8.1.1.4 Contractor Yards

Equitrans has identified six contractor yards to provide workspace for equipment and material storage, as well as trailer locations for the construction contractor. The sites were selected based on proximity to the Project area and previous land uses. Three contractor yards in PA (CY-PA18-South, CY-PA221-East and CY-PA221-West) and one contractor yard (CY-WV20) in WV are existing. The remaining contractor yard in PA (CY-PA18-North) and contractor yard in WV (CY-WV19) will be new. CY-PA18-North is located within abandoned residential land and existing abandoned residential structures may be avoided or demolished during construction. CY-WV19 is located within a previously disturbed, majority open land area (existing utility ROW) that had been used previously as a contractor yard and has been recently restored.

Wetlands and streams within or immediately adjacent to the proposed contractor yards will be avoided and protected from construction using exclusion fencing and the installation of temporary erosion controls.

Within existing contractor yards, Equitrans will add gravel as needed and return to pre-construction condition or better following construction. Where present within new, temporary contractor yards, topsoil will be segregated and stored along the edge of the contractor yards. The contractor yards will then be covered with geotextile fabric and gravel will be installed. After construction has been completed, the gravel and geotextile fabric will be removed, topsoil redistributed, and the contractor yards will be returned to pre-existing conditions.

The contractor yard locations are depicted in Appendix 1-A of Resource Report 1 and are summarized, along with their acreages, in Table 8.1-5.

Table 8.1-5

Contractor Yards for the Project[1]

Contractor Yard ID, County, State	Nearest Milepost	Distance (miles) and Direction from Nearest Milepost	Total Acres[1]	Existing Land Use						
				Forested (acres)	Open Land (acres)	Agricultural Land (acres)	Commercial/ Industrial Land (acres)	Residential Land (acres)	Wetlands (acres)	Open Water (acres)
CY-PA221-East, Greene County, PA[2]	0.46 (H-327 and H-328)	18.79, Northeast	1.12	0.00	0.03	0.00	1.09	0.00	0.00	0.00
CY-PA221-West, Greene County, PA[2]	0.46 (H-327 and H-328)	18.61, Northeast	2.72	0.00	0.00	0.00	2.72	0.00	0.00	0.00
CY-PA18-North, Greene County, PA	0.46 (H-327 and H-328)	8.47, Northeast	3.50	0.16	0.00	0.00	0.00	3.34	0.00	0.00
CY-PA18-South, Greene County, PA	0.46 (H-327 and H-328)	2.55, North	1.21	0.00	0.00	0.00	1.21	0.00	0.00	0.00
CY-WV19, Wetzel County, WV	0.71 (H-326)	2.35, Northwest	4.33	0.01	4.13	0.00	0.19	0.00	0.00	0.00
CY-WV20 Wetzel County, WV[2]	0.00 (H-326)	West	3.21	0.00	0.19	0.00	3.02	0.00	0.00	0.00

Notes:

[1] The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the sum of the addends in all cases or in related tables.

[2] Acreages include contractor yard access roads.

8.1.1.5 Aboveground Facilities

As discussed in Resource Report 1, aboveground facilities for the Project will consist of proposed modifications at the existing Cygrymus Compressor Station, existing Corona Compressor Station, and existing Plasma Compressor Station. Ancillary aboveground facilities will include new facility area for Shough Creek Valve Yard and Liberty Valve Yard, expansion area proposed at the existing OH Valley Connect (OVC) Interconnect, and modifications within the existing Pickenpaw Interconnect and Mobley Run Tap Site. Further information regarding these ancillary aboveground facilities are detailed in Resource Report 1. Aboveground facilities and ancillary aboveground facilities are depicted on the USGS topographic, the Construction Alignment Sheets, and the preliminary plot plans for the compressor station modifications in Resource Report 1. Table 8.1-2 identifies the acreage affected by land use type during construction and operation of the Project's aboveground facilities. Table 8.1-5 summarizes the acreage affected by the construction and operation of the aboveground facilities specifying new land requirements.

Table 8.1-6

Acreage Affected by Construction and Operation of the Aboveground Facilities

Facility	County, State	Approximate MP	New Land Requirements (acres)[1]	Construction Requirements (acres)	Existing Land Use[2]
Shough Creek Valve Yard[3]	Greene County, PA	H-327 and H-328 MP 0.44	0.06	0.06	OL
Cygrymus Compressor Station	Greene County, PA	H-327 and H-328 MP 0.00	0.80	9.51	OL, F, CI, W
Corona Compressor Station	Wetzel County, WV	H-326 MP 0.00	0.00	2.58	CI
Pickenpaw Interconnect	Wetzel County, WV	H-329 MP 0.02	0.00	0.08	CI
OVC Interconnect	Wetzel County, WV	H-330 MP 0.65 and H-326 MP 3.71	0.22	0.49	CI, OL
Mobley Run Tap Site	Wetzel County, WV	H-330 MP 0.69	0.00	0.25	CI, OL
Liberty Valve Yard[3]	Wetzel County, WV	H-330 MP 0.00 and H-330 Spur MP 0.09	0.02	0.02	OL, W
Plasma Compressor Station[4]	Monroe County, OH	N/A	1.14	7.64	CI, OL

Notes:

1 Land necessary for aboveground facility outside of the pipeline permanent easement, and expansion areas required at existing facilities.

2 F = Forest; OL = Open Land; AG = Agricultural land; CI = Commercial/Industrial land; R = Residential; W = Wetland; and OW = Open Water.

3 A portion of the facility is accounted for within the permanent pipeline ROW. The reported acreage represents the area of the facility that is located beyond the permanent pipeline ROW.

4 Construction Acreage reported for Plasma Compressor Station consists of the existing permanent access road, Existing Facility Area, Facility Expansion Area, and temporary workspace.

8.1.1.6 Plasma Compressor Station

The Plasma Compressor Station is located within commercial/industrial and open land. Portions of open land within the permanent facility expansion area will be converted to commercial/industrial, which is similar to existing facilities in the general vicinity. Temporary workspace areas will be allowed to revert to open land following construction. Equitrans will access the Plasma Compressor Station via an existing permanent access road during operation.

8.1.1.7 Corona Compressor Station

The Corona Compressor Station modification is located within existing commercial/industrial land. No conversion of land use will occur from construction or operation of the site. Equitrans will access the Corona Compressor Station via the existing permanent access road during operation.

8.1.1.8 Cygrymus Compressor Station

The Cygrymus Compressor Station modification is located within commercial/industrial land, open land, forested land, and wetland. Equitrans will access the Cygrymus Compressor Station via the existing permanent access road during operation. Land use areas that are currently forested or open land will be converted to commercial/industrial land within the permanent facility area, which is similar to existing facilities in the general vicinity. The PEM wetland within the temporary workspace will be allowed to revert to PEM following construction. Other areas of temporary workspace will revert to open land with portions being replanted with trees in accordance with existing post construction stormwater requirements at the station, described further below.

At Cygrymus Compressor Station, tree plantings were previously installed as a part of the PA Department of Environmental Protection's Chapter 102 post-construction stormwater management for the existing compressor station site. Trees that were previously planted as a part of the post-construction stormwater management process and are affected by construction of the Project will be temporarily removed and stored onsite to be replanted or replaced following construction. Additional information regarding ongoing modification to the existing state permits is further discussed in Resource Report 6, Section 6.7.

8.1.1.9 Ancillary Aboveground Facilities

The ancillary aboveground facilities include Shough Creek Valve Yard in PA and Pickenpaw Interconnect, OVC Interconnect, Mobley Run Tap Site, and Liberty Valve Yard in WV. Shough Creek Valve Yard is located within existing open land, portions of which are existing utility ROW. Equitrans intends to utilize vegetated geoweb at the Shough Creek Valve Yard in lieu of gravel alone so the facility area is expected to re-establish vegetation cover. Pickenpaw Interconnect is in commercial/industrial land. OVC Interconnect and Mobley Run Tap Site are both located within commercial/industrial land with lesser components of open land. Liberty Valve Yard is within open land, portions of which are existing utility ROW, and wetland area. The areas that are currently open land will be converted to commercial/industrial land. A portion of the PEM wetland at the Liberty Valve Yard will be permanently impacted and applicable permits will be acquired. The remainder of wetland area will be temporarily impacted during construction of the pipeline and allowed to revert to PEM wetland following construction. Equitrans intends to utilize vegetated geoweb in lieu of gravel alone at the Liberty Valve Yard, so the facility area is expected to re-establish vegetation cover.

8.1.2 Access Roads

Beyond existing state, county, or local roads, Equitrans has identified potential access roads for use during the construction and operation of the Project.

The access road locations and approximate lengths are shown on the Construction Alignment Sheets (Resource Report 1, Appendix 1-A) and are summarized, along with the current land use and acreage affected, in Table 8.1-6. Access roads affecting wetland and waterbodies, including crossing methods and mitigation, are further discussed in Resource Report 2.

The access roads may be improved and widened for proper use up to 40 feet, if needed, during construction. Some of the access roads will be maintained after construction for permanent access to the Project facilities. Equitrans plans to restore temporary access roads (TARs) to existing conditions or better according to landowner agreements. Existing access roads range from approximately 12 to 30 feet in width. Existing roads may be improved through the addition of gravel and/or matting and widened up to 40 feet wide, if needed, during construction. PARs will typically be constructed up to 40 feet in width in limited areas to accommodate turns and public road entry of large equipment.

8.1.3 Cathodic Protection

As discussed in Resource Report 1, one deep anode groundbed is proposed for cathodic protection for the H-327 and H-328 Pipelines and will be located on the Cygrymus Compressor Station pad. No additional land impacts are required for construction or operation of the deep anode groundbed. More generally, the proposed pipelines in WV will utilize cathodic protection from other facilities within Equitrans' existing system.

Table 8.1-7

Access Roads for the Project[1]

Facility/County/State	Access Road ID	Approximate MP	New/Existing	Temporary/ Permanent	Existing Surface	Existing Land Use[2]	Length (feet)	Acres Affected		Road Justification
								Construction	Operation	
Pipelines[3]										
H-327 and H-328 Pipelines, Greene County, PA	PAR-327/328-01	0.00	Existing	Permanent	Gravel	CI, OL, F	420.23	0.39	0.39	Access to the Pipeline and Cygrymus Compressor Station
	PAR-327/328-02	0.46	Existing	Permanent	Gravel	OL, CI, OW	187.13	0.17	0.17	Access to the Pipeline and Shough Creek Valve Yard
	PAR-327/328-02	0.46	New	Permanent	Grass	OL, CI	135.47	0.10	0.10	Access to the Pipeline and Shough Creek Valve Yard
H-326 Pipeline, Wetzel County, WV	PAR-326-01	0.00	Existing	Permanent	Gravel	CI, OL	267.78	0.25	0.25	Access to the Pipeline and Corona Compressor Station
	TAR-326-01	0.05	Existing	Temporary	Gravel	OL, CI	56.60	0.05	0.00	Access to the Pipeline
	TAR-326-02	0.25	Existing	Temporary	Gravel	OL, CI	65.08	0.06	0.00	Access to the Pipeline
	TAR-326-03	1.22	New	Temporary	Grass	R, OW, CI	50.59	0.04	0.00	Access to the Pipeline and ATWS
	TAR-326-04	1.34	New/Existing	Temporary	Grass/Dirt	F, OL, R	1,595.85	1.45	0.00	Access to the Pipeline
	TAR-326-05	2.20	Existing	Temporary	Gravel	CI, AG, OL	531.48	0.49	0.00	Access to the Pipeline and ATWS
	TAR-326-06	2.22	Existing	Temporary	Dirt	F, OL	960.72	0.88	0.00	Access to the Pipeline and ATWS
	TAR-326-07	2.56	Existing	Temporary	Dirt	F, OL, CI, OW	3,115.17	2.86	0.00	Access to the Pipeline and ATWS
	TAR-326-08	3.10	Existing	Temporary	Dirt	OL, F, CI	3,310.77	3.05	0.00	Access to the Pipeline
H-329 Pipeline, Wetzel County, WV	PAR-329-01	0.02	Existing	Permanent	Gravel	OL, CI	237.95	0.26	0.26	Access to the Pipeline and Pickenpaw Interconnect
H-330 Pipeline, Wetzel County, WV	PAR-330-01	0.02	Existing	Permanent	Gravel	CI, OL, W	382.40	0.35	0.35	Access to the Pipeline and Liberty Valve Yard
	PAR-330-01	0.01	New	Permanent	Grass	W, CI, OL	59.85	0.05	0.05	Access to the Pipeline and Liberty Valve Yard
	PAR-330-02	0.67	Existing	Permanent	Gravel	CI	28.06	0.02	0.02	Access to the OVC Interconnect
	TAR-330-01	0.13	Existing	Temporary	Dirt	F, OW, CI	625.67	0.57	0.00	Access to the Pipeline
						Pipelines Subtotal	***12,030.78***	***11.03***	***1.58***	N/A
Aboveground Facilities[4,5]										
Plasma Compressor Station, Monroe County, OH	PAR-Plasma-01	N/A	Existing	Permanent	Gravel	CI, OL	789.94	1.27	1.27	Access to Plasma Compressor Station
						Aboveground Facilities Subtotal	***789.94***	***1.27***	***1.27***	N/A

Table 8.1-7 (continued)

Facility/County/State	Access Road ID	Approximate MP/Workspace ID	New/Existing	Temporary/ Permanent	Existing Surface	Existing Land Use[2]	Length (feet)	Acres Affected		Road Justification
								Construction	Operation	
Contractor Yards[4]										
CY-PA-221-East, Greene County, PA	TAR-CY-PA221-East	N/A	Existing	Temporary	Gravel	CI, OL	51.74	0.05	0.00	Access to the Contractor Yard
CY-PA221-West, Greene County, PA	TAR-CY-PA221-West-01	N/A	Existing	Temporary	Gravel	CI	66.71	0.06	0.00	Access to the Contractor Yard
CY-PA18-North, Greene County, PA	TAR-CY-PA221-West-02	N/A	Existing	Temporary	Gravel	CI	55.10	0.05	0.00	Access to the Contractor Yard
CY-PA-18, South, Greene County, PA	*No access road proposed.*									
CY-WV19, Wetzel County, WV	*No access road proposed.*									
CY-WV20, Wetzel County, WV	TAR-CY-WV-01	N/A	Existing	Temporary	Gravel	CI, OL	287.37	0.26	0.00	Access to the Contractor Yard
						Contractor Yards Subtotal	***460.92***	***0.42***	***0.00***	N/A
						Project Totals	**13,281.64**	**12.73**	**2.85**	N/A

Notes:

N/A = not applicable.

1 The numbers in this table have been rounded for presentation purposes. As a result, the totals may not reflect the sum of the addends in all cases or in related tables.

2 F = Forest; OL = Open Land; AG = Agricultural land; CI = Commercial/Industrial land; R = Residential; W = Wetland; and OW = Open Water.

3 H-330 Spur and Logansport Spur do not have access roads and are therefore not included in this table.

4 With exception to the Plasma Compressor Station and contractor yards, access roads proposed to be used for the Project are accounted for with their associated pipelines.

5 Existing access roads to the Cygrymus Compressor Station (PAR-327/328-01) and Corona Compressor Station (PAR-326-01) are accounted for with their associated pipeline.

8.1.4 Land Use Impacts and Mitigation

The Project will cross forest, open land, agricultural land, commercial/industrial land, residential, wetlands, and open water land use types. Descriptions of each land use category traversed by the pipeline are provided below.

Table 8.1-1 summarizes land use crossed in linear mileage and percent. The acreages of land affected by construction and operation of the Project by land use category is provided in Table 8.1-2. Table 8.1-5 summarizes the acreage affected by construction and operation of aboveground facilities including additional land requirements outside of the permanent pipeline ROW.

Following construction, the permanent ROW, TARs, and temporary workspaces including the temporary ROW, ATWS, staging areas and contractor yards will be restored to preconstruction contours to the greatest extent practicable and stabilized in accordance with the FERC Plan and other applicable federal, state, and local requirements. Existing access roads will be returned to preconstruction conditions or better following construction, and permanent access roads will be maintained for use during operation of the facilities. Wetland and waterbody crossings will be installed and subsequently restored according to the FERC Procedures and in compliance with applicable federal and state requirements. To implement operational safety and allow for routine maintenance of the pipeline permanent easement, Equitrans will maintain the permanent ROW according to the FERC Plan and Procedures.

Forest

Forest is defined as upland dominated by trees greater than five meters in height, having at least 60 percent canopy closure, and not being used for specific commercial purposes. Impacts to forest land have been minimized to the extent practicable through co-locating with existing ROWs and avoiding the fragmentation of undisturbed forest canopy where possible. Equitrans will use typical construction techniques as described in Resource Report 1, implement the FERC Plan as a minimum practice to control soil erosion, and restore disturbed areas following construction. Temporary workspaces cleared for construction will be restored and allowed to revert to forest after construction is complete. Forest revegetation in temporary workspaces to preconstruction condition, although temporary, could take years depending on the tree species cleared.

Equitrans will remove and dispose of timber from the right-of-way to the extent required by its agreements with landowners. If a landowner's agreement provides that timber may remain on the landowner's property, then Equitrans will stack the timber on or adjacent to the right-of-way with the appropriate gaps for the safe passage of wildlife. Equitrans' standard practice will also be to stack the timber at reasonable access points where the timber can be retrieved without adverse environmental impact to the right-of-way. After Equitrans disposes of the timber by stacking, the landowner, not Equitrans, determines the method for retrieving and timing for the beneficial reuse of the timber on the landowner's property. If the landowner's agreement does not provide that timber may remain on the landowner's property, then Equitrans will dispose of the timber in a timely manner, such as by removing the timber from the Project site, chipping, or burning.

Open Land

Open land is defined as upland that is actively maintained as scrub-shrub and herbaceous vegetation. Open land is mainly associated with existing ROWs, open fields, and pastures. As described in the FERC Plan, standard upland mitigation measures for minimizing erosion and enhancing revegetation will be utilized in these areas. Pipeline impacts on open land will be temporary, and disturbed areas will be restored and allowed to revert to open land following construction.

Agricultural Land

Common agricultural uses for the Project counties include forage-land for hay, haylage, grass silage, and greenchop; and livestock consisting of cattle and calves. Other top crop items include corn for grain, corn for silage, soybeans, wheat, vegetables, apples, and oats for grain; and other top livestock inventory includes sheep and lambs, layers, horses and ponies, goats, colonies of bees, and pheasants [U.S. Department of Agriculture (USDA) 2012]. Field surveys identified the primary use for agricultural fields crossed by the Project may be for cattle grazing.

A search of the USDA Organic Integrity Database did not identify USDA organic certified farms in the vicinity of the Project (USDA 2021). No specialty crops affected by the Project have been identified through field surveys nor landowner contacts. Within agricultural lands crossed by the Project, Equitrans will work with landowners to plan construction through active croplands and pasture to minimize impacts. Equitrans will work with landowners during easement negotiations and throughout construction and restoration to identify landowner-specific requests, and regarding potential damages or loss to the landowners'' productivity because of the construction of the Project. Following construction, crop production and livestock operations will be permitted to resume within the permanent right-of-way in accordance with landowner agreements.

To avoid and minimize affects to topsoil, Equitrans proposes to perform topsoil segregation in accordance with the FERC's Plan for the full construction ROW in non-forested areas without significant previous topsoil disturbance. A minimum of 12 inches of topsoil will be segregated in deep soils, and the entire topsoil layer, where possible, will be segregated in soils with less than 12 inches of topsoil. Additional information regarding typical construction procedures is provided in Resource Report 1 and proposed soil mitigation is provided in Resource Report 7.

Equitrans will work with landowners regarding the potential presence of drain tiles and irrigation systems in affected agricultural fields. If drain tiles or irrigation systems are damaged by construction of the pipeline, Equitrans will work with the landowner to repair or replace potentially damaged sections in accordance with FERC's Plan. Agricultural land will be restored to original contours, to the extent practicable, which will aid in promoting preconstruction hydrology.

Commercial / Industrial Land

Commercial / Industrial land affected by construction and operation of the pipeline is limited to existing or proposed electric power or natural gas utility facilities, and temporary or permanent access roads.

As detailed in Resource Report 1, the proposed pipeline will cross county roads in WV during construction. No public roads are crossed in PA or OH. No railroads are crossed by the Project. Equitrans proposes to open cut dirt and paved county roads and will maintain one lane of access at all times along with the appropriate safety signage and/or traffic control staff. Additional information pertaining to road crossings is provided in Resource Report 1.

Residential

Residential land is developed land that includes residential yards, both single and multiple family dwellings, and may contain developed subdivisions. Vegetation cover in residential lands generally consists of mowed lawns and landscaped areas. Impacts on residential areas and a discussion of the mitigation measures that will be implemented during construction to minimize these impacts is discussed in Section 8.2.1 below.

Wetlands

Wetlands include field-delineated PEM and PSS wetlands. Equitrans intends to implement FERC's Procedures as a minimum standard for crossing and restoring wetlands affected by

the Project. Typical wetland crossing procedures are discussed in Resource Report 1. In accordance with FERC's guidelines, a 10-foot wide corridor within the 50-foot permanent ROW centered over the pipeline will be maintained with an herbaceous vegetation cover within wetlands; therefore, permanent conversion of palustrine scrub-shrub wetlands will be minimized. Resource Report 2 provides a detailed description of potential wetland impacts to be associated with construction and operation of the Project, as well as impact minimization and wetland restoration techniques.

Open Water

Open water includes field-delineated waterbodies. Equitrans intends to implement FERC's Procedures as a minimum standard for crossing and restoring waterbodies affected by the Project. Typical waterbody crossing procedures are discussed in Resource Report 1. Additionally, Equitrans will implement best management practices and adhere to other authorized permit requirements to minimize impacts on open water resources and minimize erosion and sediment runoff. Additional information regarding waterbody crossing methods and impacts is provided in Resource Report 2. Following construction, Equitrans will conduct vegetation maintenance at waterbody crossings according to the FERC Procedures.

8.2 Residences and Planned Development

8.2.1 Planned Residential and Commercial Areas

Planned development includes residential or commercial development that is included in a master plan or is on file with the local planning board (18 CFR 380.12 (j)(3)). Information on planned developments has been sought from the counties and municipalities crossed by the Project. Copies of correspondence are included in Appendix 8-B. The results of this correspondence are summarized below.

No proposed residential or commercial developments within 0.25-mile of the Project were identified by Greene, Monroe, and Wetzel Counties Assessor's Offices. A broadband service expansion project slated for southern Greene County would include several townships near Project activities, however the line routing for that expansion is not yet available. Several natural gas actions are also planned within a mile of Project areas, however routing for those developments is also not yet available. Cumulative impacts are discussed further in Resource Report 1.

8.2.2 Existing Residences and Buildings

Equitrans reviewed the Project for residences and/or buildings within 50 feet (distances approximate) of the edge of the construction ROW and additional temporary workspaces. One farm house/hunting cabin had been identified within 50 feet of the H-326 Pipeline at approximate MP 1.20; however, Equitrans has consulted with the landowner and the structure is not an occupied residence and will not be utilized for hunting during active construction. The structure will be avoided during construction, and, as necessary, safety fencing or other barriers will be installed to protect the structure during active construction. Abandoned buildings are located in the LOD for contractor yard CY-PA18-North in PA and may be avoided or demolished during construction.

The Project route has been selected to avoid residential areas to the extent possible. Where unavoidable, construction within 50 feet or less of an occupied residence would be accomplished using additional construction restrictions and/or mitigation measures outlined in the FERC's Plan and described below.

The standard construction work hours are 7am to 7pm or sunrise to sunset, whichever is longer, seven days per week. Certain tasks could occur outside of these hours including: boring activities, hydrotesting activities, stream/wetland/water body crossing activities,

emergency environmental repairs and/or maintenance activities, roadway crossing and/or repair activities during non-peak traffic hours, commissioning activities, or other work necessary to ensure the health, safety, and welfare of the public and project employees. Equitrans does not intend to work outside the construction work hours of 7am to 7pm in residential areas.

The following describes how construction impact is minimized in residential areas:

- landowners would be notified of construction activities by Equitrans and would be given a general timeframe when work would begin;
- access and traffic flow maintenance during construction activities would be site-specific and would conform to local needs and/or agency specific roadway permits;
- the hazard of open ditches would be minimized in residential areas when construction activities are not in progress by erecting safety fence around the open ditch; and
- fugitive dust would be mitigated by wetting the disturbed ground surface when necessary (see Resource Report 9 for further discussion on fugitive dust minimization).

No residences are located within 50 feet of the construction work area.

8.3 Public Land, Recreation, and Other Designated Areas

There are no known public lands crossed by the Project. The Project is not within 0.25-mile of local, state, or national parks, nor is it within 0.25-mile of state forests (PA Department of Conservation and Natural Resources (PADCNR) 2021a; WV State Parks 2021; West Virginia Department of Environmental Protection (WVDEP) 2021; OH Department of Natural Resources (ODNR) 2021a; ODNR 2021b; ODNR 2021c; ODNR 2021d; (West Virginia Department of Natural Resources (WVDNR) 2021a).

The existing Plasma Compressor Station is located approximately 1.5 miles from Sunfish Creek State Forest (ODNR 2021d). Due to the distance from the Project, dense forest buffer, and the existing nature of the Plasma Compressor Station, Equitrans does not anticipate impacts to the state forest or its recreational areas.

One significant wildlife habitat is located near the Project in PA: State Game Lands (SGL) 179 (PA Commission 2021). SGL 179 is broken into two parcels of land situated on either side of PA Route 18 in Greene County. The southeastern portion of SGL 179 is located 1.6 miles east of the Cygrymus Compressor Station, 1.4 miles east of Shough Creek Valve Yard, and 1.0 mile east of contractor yard CY-PA18-South. The northwestern section of SGL 179 lies 1.6 miles to the west of contractor yard CY-PA18-North. This SGL is owned and operated by the PA Game Commission as a public hunting property. Due to the distance from the Project and surrounding forest buffers, Equitrans does not anticipate impacts to SGL 179.

The Project is not within 0.25-mile of National Wildlife Refuges, National Natural Landmarks, National Historic Landmarks, National Trails, National Parks, or federally designated wilderness areas. (United States Fish and Wildlife Service 2021; University of Montana 2021; National Park Service 2021a through 2021d).

The Project does not cross areas identified as wildlife management areas, nature preserves, or natural areas (PA Code 2006; WVDNR 2021a; WVDNR 2021b; The Nature Conservancy 2021; PADCNR 2021a; Gaia GPS 2021; WVDEP 2021). The Project does not cross National Wild and Scenic Rivers (National Wild and Scenic Rivers System 2021).

A single contractor yard (CY-WV20) is located within one mile of the Lewis Wetzel Wildlife Management Area and the adjacent Lantz Farm and Nature Preserve (WVDNR 2021b). The Wildlife Management Area is owned and managed by WVDNR Wildlife Resources Section as a public hunting and fishing area.

Because this Project component is temporary and lies in a previously disturbed area, no impacts are anticipated.

Review of the USDA National Resources Conservation Service (USDA-NRCS 2021) did not identify conservation easements affected by the pipeline. Equitrans in coordination with landowners identified a conservation easement approximate to MP 0.0 of the H-330 pipeline which resulted in route adjustment and the addition of the H-330 Spur to avoid the easement. The easement is administered by the WVDEP and the United States Army Corps of Engineers and restricts new construction, earth disturbance, topography changes, and vegetation removal unless maintaining existing utilities along an area of floodplain to North Fork Fishing Creek in Wetzel County, WV. Through coordination with the landowner and route adjustment no effects to the easement are proposed. At this time, no other conservation easements have been identified on the Project.

Oil and gas well location data and mined areas within 0.25-mile of the Project are identified in Resource Report 6.

8.3.1 Contaminated or Hazardous Waste Sites

Equitrans conducted research of federal and state government databases to identify potentially contaminated sites within 0.25-mile of the Project. Logansport Compressor Station, where Logansport Spur is proposed, was included on the United States Environmental Protection Agency's (USEPA) Facility Registry System (FRS) as an operating facility with an environmental interest in major air pollutants. However, according to the FRS, no violations have been noted for the facility (USEPA 2021c). No modifications or upgrades are proposed for Logansport Compressor Station as a part of this Project; therefore, the proposed construction is not anticipated to contribute to air pollutants at the site. Air quality is further discussed in Resource Report 9.

The Project is not located within a Superfund Contaminated Sediments Site or National Priority List Superfund Site (USEPA 2021a and 2021b).

A discussion of potential contaminated groundwater is provided in Resource Report 2, and contaminated soils are discussed in Resource Report 7. No concerns regarding groundwater contamination or contaminated soils have been identified within the Project area. Based on the status, location, and lack of violations, Equitrans does not anticipate impacts on the Project from contaminated sites.

Applicable requirements will be implemented to avoid conflict with Project activities and existing environmental conditions at Equitrans' facilities. Environmental inspectors will monitor trenching operations to identify potentially contaminated soils by visual inspection for stained soils, groundwater sheen, or open trenches with suspect odors. If suspect soils are encountered, the soil will be tested for contaminated materials. In the unlikely event that contaminated sites are encountered during construction, Equitrans will cease activities in that area and notify the applicable agencies. If the contamination is determined to be hazardous, an experienced hazardous waste contractor will be mobilized to handle the waste; the hazardous waste contractor will follow a site-specific health and safety plan and standard operating procedures for working in hazardous environments. Soils found to be contaminated will be managed properly and disposed of at an approved disposal facility licensed by the state of West Virginia, the Commonwealth of Pennsylvania, the state of Ohio, and other entities, as applicable. Equitrans will implement a Project-specific Spill Prevention Control and Countermeasure Plan (see Resource Report 2) to address issues such as fueling of equipment; storage of lubricants; chemicals or other hazardous materials onsite; and unanticipated release of oils, toxic, hazardous, or other polluting materials to the air, soil, surface water or groundwater. If contaminated sites unrelated to the Project become evident during field reviews or construction, a site-specific plan will be developed to address worker safety and environmental concerns.

The Project crosses abandoned mine lands which may include mine refuse piles. For a discussion on mitigation of mine contamination, please see Resource Report 6.

8.4 Visual Resources

This discussion on visual resources is generally confined to pipeline crossings and minor aboveground facilities in proximity to visually sensitive and residential areas. Visual resources can be defined as natural landforms, vegetation, water features, and human modifications that give the landscape within a region its visual aesthetic quality. Typically, undesirable visual resources are those that are incongruous with the surrounding landscape.

8.4.1 Pipeline Facilities

The Project will involve the clearing of forested areas which can have a significant impact on visual resources due to the clearing of unfragmented forest. This Project is anticipated to have a negligible effect on visual aesthetics caused by forest fragmentation due to the already existing fragmented landscape and similarly situated utility ROWs and facilities scattered within Project counties. Visual impacts associated with construction of the Project are anticipated to be short-term and temporary and will cease once post-construction restoration has been completed. Visual impacts associated with the minor aboveground facilities is not anticipated due to other similar facilities in the immediate vicinity to the Project.

Visual impacts from the construction of the aboveground facilities will be consistent with the adjacent viewshed given the existing oil and gas facilities located throughout the Project area.

Visual impacts on areas such as historic districts, traditional cultural properties, and places listed on, or eligible for listing on, the National Register of Historic Places are addressed in Resource Report 4.

8.4.2 Aboveground Facilities

Activities and facilities associated with natural gas production, gathering and storage are commonplace in areas traversed by the Project. Furthermore, proposed compression activities include modifications to existing stations. The existing Plasma Compressor Station is within a short distance from several third-party natural gas facilities, as are the existing Corona and Cygrymus compressor stations. Gas production wells and monitoring wells occur throughout the region and can be easily seen from public roads crossed by the Project.

Modifications to existing aboveground facilities include removal of compressors, addition of compressors, turbines, and mechanical and electrical equipment. The modifications at Corona Compressor Station will be constructed within the existing station limits; therefore, no impacts to visual resources are anticipated. Cygrymus Compressor Station and Plasma Compressor Station will both require expansions beyond their respective facility limits to accommodate the modifications. However, since these expansions occur adjacent to industrial/commercial and within mostly open land and only affect small sections of forested areas, impacts to visual resources will be minimal.

Equitrans has not been approached by landowners or other stakeholders regarding concerns of visual impacts posed by its existing aboveground facilities; however, Equitrans would work with the affected landowner(s) to resolve such concerns should they arise. Given the small footprint of the proposed ancillary aboveground facilities, use of re-vegetation techniques at new facilities including use of vegetated geoweb, and the expansion of existing ancillary facilities versus construction of new facilities, no significant impacts on visual resources are anticipated from the proposed ancillary aboveground facilities.

8.5 Applications for ROW and other Land Use

No federal or state lands are proposed to be crossed by the Project.

8.6 References

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APPENDIX 8-A
Tables

Table 8.1-4

ATWS and Staging/Parking Areas for the Project

ATWS, Staging/ Parking Area ID	Nearest MP	County/State	Reason Needed	Approximate Dimensions (width feet)	Approximate Dimensions (length feet)	Acres[1]	Land Use[2]
ATWS-327/328-01	0.45	Greene County, PA	Access Road Crossing	34.461	153.077	0.097	OL
SA-327/328-01	0.46	Greene County, PA	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	58.372	59.366	0.047	CI, OL
ATWS-326-01	0.22	Wetzel County, WV	Facilitate Bend/Mobilization/Demobilization/Turnaround	141.992	153.885	0.266	OL, F
ATWS-326-02	0.69	Wetzel County, WV	Facilitate Bend/Mobilization/Demobilization/Turnaround/Parking	105.175	219.756	0.317	OL, F
ATWS-326-03	1.19	Wetzel County, WV	Waterbody Crossing/Facilitate Bend	34.819	148.415	0.065	F
ATWS-326-04	1.21	Wetzel County, WV	Waterbody Crossing/Facilitate Bend/Road Crossing/Parking/Staging	121.926	243.044	0.442	OL, W, F, R, OW
ATWS-326-05	1.21	Wetzel County, WV	Access Road Crossing/Waterbody Crossing/Parking	47.630	115.698	0.082	R
ATWS-326-06	1.34	Wetzel County, WV	Access Road Crossing	21.336	145.416	0.039	F, OL
ATWS-326-07	1.57	Wetzel County, WV	Facilitate Bend	70.232	205.840	0.172	F, OL
ATWS-326-08	1.74	Wetzel County, WV	Facilitate Bend	62.694	229.676	0.165	F
ATWS-326-09	1.76	Wetzel County, WV	Facilitate Bend	73.937	241.423	0.262	F
ATWS-326-10	2.02	Wetzel County, WV	Facilitate Bend	98.845	114.597	0.219	F
ATWS-326-11	2.19	Wetzel County, WV	Road Crossing/Access Road Crossing/Mobilization/Demobilization/Turnaround/ Staging/Parking	159.237	272.375	0.936	AG
ATWS-326-12	2.31	Wetzel County, WV	Access Road Crossing/Mobilization/Demobilization/Turnaround/Staging/Parking	216.458	262.170	0.979	F
ATWS-326-13	2.42	Wetzel County, WV	Side Slope/Mobilization/Demobilization/Turnaround	145.521	309.802	0.602	F
ATWS-326-14	2.45	Wetzel County, WV	Side Slope/Mobilization/Demobilization/Turnaround	61.217	178.563	0.166	F
ATWS-326-15	2.57	Wetzel County, WV	Access Road Crossing/Facilitate Bend/Parking	80.449	82.301	0.133	F
ATWS-326-16	2.83	Wetzel County, WV	Waterbody Crossing/Terrain	67.982	234.941	0.301	F
ATWS-326-17	2.88	Wetzel County, WV	Waterbody Crossing/Terrain	71.623	193.305	0.233	F
ATWS-326-18	3.09	Wetzel County, WV	Access Road Crossing/Facilitate Bend/Parking/Staging	89.141	246.281	0.356	OL, F
SA-326-01	0	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	124.536	419.901	0.569	CI, OL

Table 8.1-4 (continued)

ATWS, Staging/ Parking Area ID	Nearest MP	County/State	Reason Needed	Approximate Dimensions (width feet)	Approximate Dimensions (length feet)	Acres[1]	Land Use[2]
SA-326-02	1.14	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	43.465	191.671	0.144	R, F
SA-326-03	1.43	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	35.432	42.223	0.027	F
SA-326-04	2.56	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	28.687	37.751	0.016	F
SA-326-05	3.02	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	178.036	274.720	0.820	F, OL
SA-326-06	2.75	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	91.431	101.224	0.122	OL, F, CI
SA-326-07	3	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	99.355	125.348	0.170	OL, F, CI
ATWS-330-02	0.02	Wetzel County, WV	Access Road Crossing	21.907	150.55	0.052	OL, CI
ATWS-330-03	0.07	Wetzel County, WV	Terrain/Mobilization/Demobilization/Turnaround	26.498	49.461	0.030	F
ATWS-330-04	0.28	Wetzel County, WV	Terrain/Facilitate Bend	74.252	161.796	0.237	OL, F
ATWS-330-05	0.44	Wetzel County, WV	Facilitate Bend	38.276	120.754	0.074	OL, F
ATWS-330-06	3.71	Wetzel County, WV	Road Crossing/Mobilization/Demobilization/Turnaround	49.743	81.520	0.046	OL, CI, F
ATWS-330-07	0.69	Wetzel County, WV	Road Crossing/Mobilization/Demobilization/Turnaround/Staging	28.364	32.635	0.020	CI
SA-330-01	0.03	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	96.819	109.068	0.174	CI
SA-330-02	0.06	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	50.471	86.320	0.076	CI
SA-330-03	0.09	Wetzel County, WV	Mobilization/Demobilization/Parking/Pull-Off/Turnaround	35.769	112.563	0.066	F
ATWS-330Spur-01	0.03	Wetzel County, WV	Pull-Off/Throughway to ROW	40.79	65.985	0.029	CI
ATWS-330Spur-02	0.00	Wetzel County, WV	Tie-in Workspace/Wetland Crossing	92.75	96.894	0.132	W, OL, CI, F

Notes:

[1] Acreage calculated from actual footprint, which may not correspond to the approximate dimensions.

[2] F = Forest; OL = Open Land; AG = Agricultural land; CI = Commercial/Industrial land; R = Residential; W = Wetland; and OW = Open Water.

APPENDIX 8-B
Correspondence

Greene County, PA

Telephone Call Record

Date/Time:	10/21/2021 12:40pm
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Jeremy L. Kelly
Company/Agency:	Greene County Department of Planning and Community Development
Phone No.:	724-852-5300
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

Mr. Kelly's voicemail was reached and a message was left requesting a callback. In the message, I explained I was calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Greene County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area.

cc:	

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Wetzel County, WV

Telephone Call Record

Date/Time:	10/25/2021 8:27am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Scott Lemley, County Assessor
Company/Agency:	Wetzel County Assessor's Office
Phone No.:	304-455-8215
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

Mr. Lemley returned my call regarding upcoming residential, commercial, and industrial developments in Wetzel County,WV. He said the new last residential development was completed in 2019, and there has not been any plans for new residential since then. He also was aware that the old RiteAid on Route 2 will have a new commercial occupant, but he has not received information on who that occupant will be; he confirmed it was an existing structure though..

cc:	

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Telephone Call Record

Date/Time:	10/21/2021 10:23am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	County Assessor
Company/Agency:	Wetzel County Assessor's Office
Phone No.:	304-455-8215
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

The County Assessor is out of the office until Monday according to the administrative assistant who answered the call. I let her know I was calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Wetzel County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area. She recorded my name, number, and reason for calling and said she would get the message to him when he returned to the office.

cc:	

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Telephone Call Record

Date/Time:	10/21/2021 10:35am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Carol S. Haught
Company/Agency:	Wetzel County Clerk's Office
Phone No.:	304-455-8205
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

The County Clerk is out of the office today according to the administrative assistant who answered the call. I let her know I was calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Wetzel County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area. The administrative assistant did not think Ms. Haught would be aware of upcoming developments and referred me to the County Commissioner may be a more appropriate contact for my inquiry. I let her know I already spoke with the Commissioner and thanked her for her time.

cc:	

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Telephone Call Record

Date/Time:	10/21/2021 10:00am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Jessica Davis, County Commissioner Administrative Assistant
Company/Agency:	Wetzel County Commission Office
Phone No.:	304-455-8206
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

Calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Wetzel County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area. I was advised that this phone number is incorrect and that I'd need to call 304-455-8217 to reach Ms. Davis, however, that number was previously called already. Following up by emailing Ms. Davis instead at jdavis@wetzelsv.com.

cc:	

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Telephone Call Record

Date/Time:	10/21/2021 9:50am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Carla L. McBee, County Commissioner
Company/Agency:	Wetzel County Commissioner's Office
Phone No.:	304-455-8217
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

Calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Wetzel County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area. Ms. McBee did not have any project information but she referred me to the County Clerk at 304-455-8205, the County Assessor at 304-455-8215, and/or the Assistant County Commissioner at 304-455-8206.

cc:	

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Monroe County, OH

Tiffany Anders

From: Econ Dev <econdev@monroecountyohio.com>
Sent: Thursday, October 21, 2021 5:41 PM
To: Tiffany Anders
Subject: Re: Monroe County, OH - Cumulative Impact Coordination

Hi Tiffany,

It was good talking with you today. Nice job putting the KMZ file together! Here's a couple of projects if you'd like to add them...both at the same property...Long Ridge Energy Terminal:

- https://www.timesleaderonline.com/news/local-news/2021/09/long-ridge-energy-terminal-developing-data-center-campus-in-hannibal-in-monroe-county/
- https://www.daily-jeff.com/news/20181209/20-million-approved-for-monroe-county-project

Construction has not yet begun on either of these projects.

Please let me know if I can be of further assistance.

Respectfully,

Jason Hamman
Economic Development Representative
Monroe County Commissioners & Port Authority
econdev@monroecountyohio.com
(440)292-5326

On Thu, Oct 21, 2021 at 1:09 PM Tiffany Anders <T.Anders@gaiconsultants.com> wrote:

> Mr. Hamman,
>
> Thank you for taking my call today. As discussed on the phone, GAI Consultants, on behalf of Equitrans, L.P., is gathering information upcoming developments within Monroe County, i.e., residential, commercial, or industrial developments. The project information we obtain is used as part of a cumulative effects analysis for the Project area. The attached KMZ contains locations for known, current projects and upcoming developments in Monroe County. Thank you for taking the time to review the projects we have currently gathered, and let us know if there are any other planned developments for consideration in our analysis. Thanks again.
>
> Best,
>
> Tiffany

Tiffany M. Anders, PWS
Senior Project Environmental Specialist

GAI Consultants, 2100 West Loop South, Suite 1400, Houston, TX 77027

D 346.231.7172

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GAI Consultants
ENGINEERING, PLANNING, AND ENVIRONMENTAL CONSULTING SINCE 1958

Telephone Call Record

Date/Time:	10/21/2021 11:18am
Project/Admin No.:	OVCX Project R210388.00
Call From:	Tiffany Anders
Company/Agency:	GAI Consultants, Inc.
Phone No.:	346-231-7172
Call To:	Jason Hamman
Company/Agency:	Monroe County Economic Development Representative
Phone No.:	440-292-5326
Subject:	Cumulative Impact Coordination

Summary of Discussions, Decisions, and Commitments:

Calling on behalf on Equitrans and trying to learn if there are any upcoming developments in Monroe County, i.e., residential, commercial, or industrial developments, so we can assess potential cumulative effects for the Project area. Mr. Hamman requested that I email him [econdev@monroecountyohio.com] the projects I have already gathered in the county and stated he would review them and let me know if there are any others he is aware of. I let him know to expect an email from me shortly.

cc:	

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