

Paul W. Diehl Counsel-Midstream 412.395.5540 Direct 412.553.7781 Fax pdiehl@eqt.com

March 30, 2017

Ms. Kimberly D. Bose, Secretary Federal Energy Regulatory Commission 888 First Street, N.E. Washington, D.C. 20426

Re: Equitrans, L.P. Docket No. CP16-13-000 Equitrans Expansion Project – Response to data request OEP/DG2E/G3

Dear Ms. Bose:

On March 21, 2017, the Office of Energy Projects ("OEP") issued a data request to Equitrans, LP ("Equitrans") with respect to Equitrans' certificate application in Docket No. CP16-13-000. Attached is the response of Equitrans to that data request. Also attached are the verifications of the individuals providing those responses.

If you have any questions about the data response, please do not hesitate to contact me at (412) 395-5540 or pdiehl@eqt.com.

Respectfully submitted,

Equitrans, L.P.

Well

Paul W. Diehl Counsel-Midstream

Enclosures

cc: Paul Friedman – OEP (w/enclosures) Lavinia DiSanto – Cardno, Inc. (w/enclosures) Doug Mooneyhan – Cardno, Inc. (w/enclosures) Service list (w/enclosures)

Equitrans I 625 Liberty Avenue Suite 1700 I Pittsburgh, PA 15222-3111 T 412.553.5700 I F 412.553.5757 I www.eqt.com

VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, Stephanie Frazier, being duly sworn, upon her oath says that she is Supervisor Environmental Permitting; that she has read and is familiar with the foregoing response to the Commission's March 21, 2017 data request in Docket No. CP16-13-000; that the contents of the response are true and correct to the best of her knowledge, information and belief; and that she has full power and authority to prepare the response and execute this verification.

Stephanie Frazier Supervisor Environmental Permitting

Subscribed and sworn before me this $\frac{30}{2}$ day of March 2017.

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Notary Public

COUNTY OF ALLEGHENN STATE OF PENNSYLVANIA COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Noelle M. Nuckels, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Sept. 7, 2020 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

VERIFICATION

Pursuant to Rule 2005 of the Rules of Practice and Procedure of the Federal Energy Regulatory Commission ("Commission"), 18 C.F.R. § 385.2005, James Sabol, being duly sworn, upon his oath says that he is Project Manager; that he has read and is familiar with the foregoing response to the Commission's March 21, 2017 data request in Docket No. CP16-13-000; that the contents of the response are true and correct to the best of his knowledge, information and belief; and that he has full power and authority to prepare the response and execute this verification.

Sabol Jamie Project Manager

Subscribed and sworn before me this $\underline{30}$ day of March 2017.

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Notary Public

NOTARIAL SEAL Noele M. Nuckels, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Sept. 7, 2020 WEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

COMMONWEALTH OF PENNSYLVANIA

COUNTY OF ALLEGHENY STATE OF PENNSYLVANIA

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

<u>General</u>

1. Provide a copy of the Pennsylvania Game Commission letter dated October 4, 2016 referenced in updates to table 1.5-1 filed by Mountain Valley on March 3, 2017.

Response:

A letter was received from the Pennsylvania Department of Conservation and Natural Resources on October 4, 2016, not the Pennsylvania Game Commission. This letter was previously filed on October 31, 2016 (Accession number 20161031-5278) as Attachment General-1.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

2. Provide updated alignment sheets, so as to be referenced in table 2.4-2 of the environmental impact statement (EIS). Confirm that the alignment sheets depict adoption of the New Cline Variation as part of the EEP proposed pipeline route.

Response:

Attachment General-2 consists of a complete set of alignment sheets for the H-318 portion of the Project, incorporating the New Cline Variation as part of the EEP proposed pipeline route. Alignment sheets for the remainder of the Project have not been revised since the last filing on October 31, 2016 (Accession number 20161031-5278) as Attachment B-1 and B-2.

Respondent: James Sabol Position: Project Manager Phone Number: 412-395-3597 Date: March 30, 2017

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

3. Confirm that environmental surveys have been completed for the New Cline Variation, and reference where and when that data was filed with the FERC.

Response:

Environmental surveys have not been completed for the New Cline Variation at this time. Equitrans will submit the completed surveys to the FERC not later than the date it files its implementation plan.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

- 4. Provide updated and/or track change versions of the following draft EIS appendices:
 - a. Appendix Q Roads and Railways Crossed;
 - b. Appendix S Visual Simulations (including photo simulations and descriptive narrative text); and
 - c. Appendix T Traffic Counts.

Response:

- a. Equitrans filed a track changes version of Appendix Q-2, Public Roadways and Railroads Crossed by the Equitrans Expansion Project, with the FERC on February 16, 2017.
- b. There have been no changes to aboveground facilities since the issuance of the draft EIS; therefore, there are no updates needed to the visual simulations presented in Appendix S-2.
- c. Appendix T-2 has been updated and is included as Attachment General-4c.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

Water Resources

1. In its response to the January 30, 2017 EIR, Equitrans stated that public sources regarding water wells in Pennsylvania are not available and that there are no wells within 150 feet of the EEP construction workspace. However, in its June 24, 2016 filing with the FERC, Equitrans stated that 3 wells were identified within 150 feet on the construction area using the Pennsylvania Department of Conservation and Natural Resource's public well database. Clarify this apparent discrepancy.

Response:

The response to the January 30, 2017 EIR that public sources were not available in Pennsylvania for water wells was incorrect. The response provided for Resource Report 2 Water Resource comment #3 dated June 24, 2016 correctly identified the publicly accessible database from the Pennsylvania Department of Conservation and Natural Resources (PADCNR) website, which was the source for the locations provided for the 3 water wells located within 150 feet of the Project.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

2. Revise table 4.3.2-10 to reflect the current construction schedule which could include testing in 2018.

Response:

Attachment Water Resources-2 presents an updated version of Table 4.3.2-10, which reflects the current construction schedule for the Equitrans Expansion Project.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

<u>Soils</u>

1. Attachment DR4 General 3d filed by Mountain Valley on February 23, 2017 stated "EEP is developing a slip mitigation report that identifies slip-prone areas prior to construction and provides recommendations to mitigate the risk of slip." Provide a copy of the slip-prone soils mitigation report.

Response:

Equitrans is currently developing the Equitrans Expansion Project Slip Mitigation Report and anticipates filing this report in May 2017.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

2. Equitrans' response to Soils No. 1a regarding discrepancies between Appendix N-9 and summary table 4.2.1-2 stated that: "Milepost data only includes soils that hit, or touch the pipeline; not the outlying access roads, ATWS, yards, etc. Milepost data cannot be assigned to those features because they are not connected spatially." However, Appendix N-9 contains a general note that stated: "Includes acreages for associated yards, roads, and ATWS." Clarify this apparent discrepancy.

Response:

The note stating "Includes acreages for associated yards, roads, and ATWS" for Appendix N-9 was included in error and has been deleted as shown in Attachment Soils-2.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

3. Discrepancies appear to exist between updated table 4.2.1-2 and associated appendices N-9 through N-13. For example, table 4.2.1-2 indicates a total of 1.02 (0.56 permanent, 0.46 temporary) acres of soils with the potential for water erosion would be affected by construction and operation of the EEP H-305 pipeline and that total includes (according to the table note) associated ATWS, access roads, and yards. However, the total impacts due to the H-305 pipeline summed from appendices N-9, N-11, N-12, and N-13 (pipeline, ATWS, access roads, yards, respectively) indicated that 3.13 acres of soils that are potentially erodible by water would be impacted. Equitrans' response to Soils #1a indicates that Appendix N-9 only includes soils that would be affected by the pipeline and would not include outlying access roads, ATWS, yards, etc. because it is not spatially connected, therefore the addition of total impacts for the H-305 pipeline from each of the appendices should not "double count" any impacts. Clarify these apparent discrepancies, and provide error free soil tables and appendices. We recommend including subtotals for each facility within the appendices and using those subtotals to generate the summary table 4.2.1-2.

Response:

Attachment Soils-3 includes updated versions of table 4.2.1-2 and appendices N-10, N-11, N-12, and N-13 with previous discrepancies addressed. Attachment Soils-2 includes the updated version of appendix N-9. Subtotals were added to each appendix, for each facility within the appendix, and those subtotals were used to revise summary table 4.2.1-2.

Responses to Environmental Information Request Post-DEIS EIR #2 Dated March 21, 2017

Air Quality and Noise

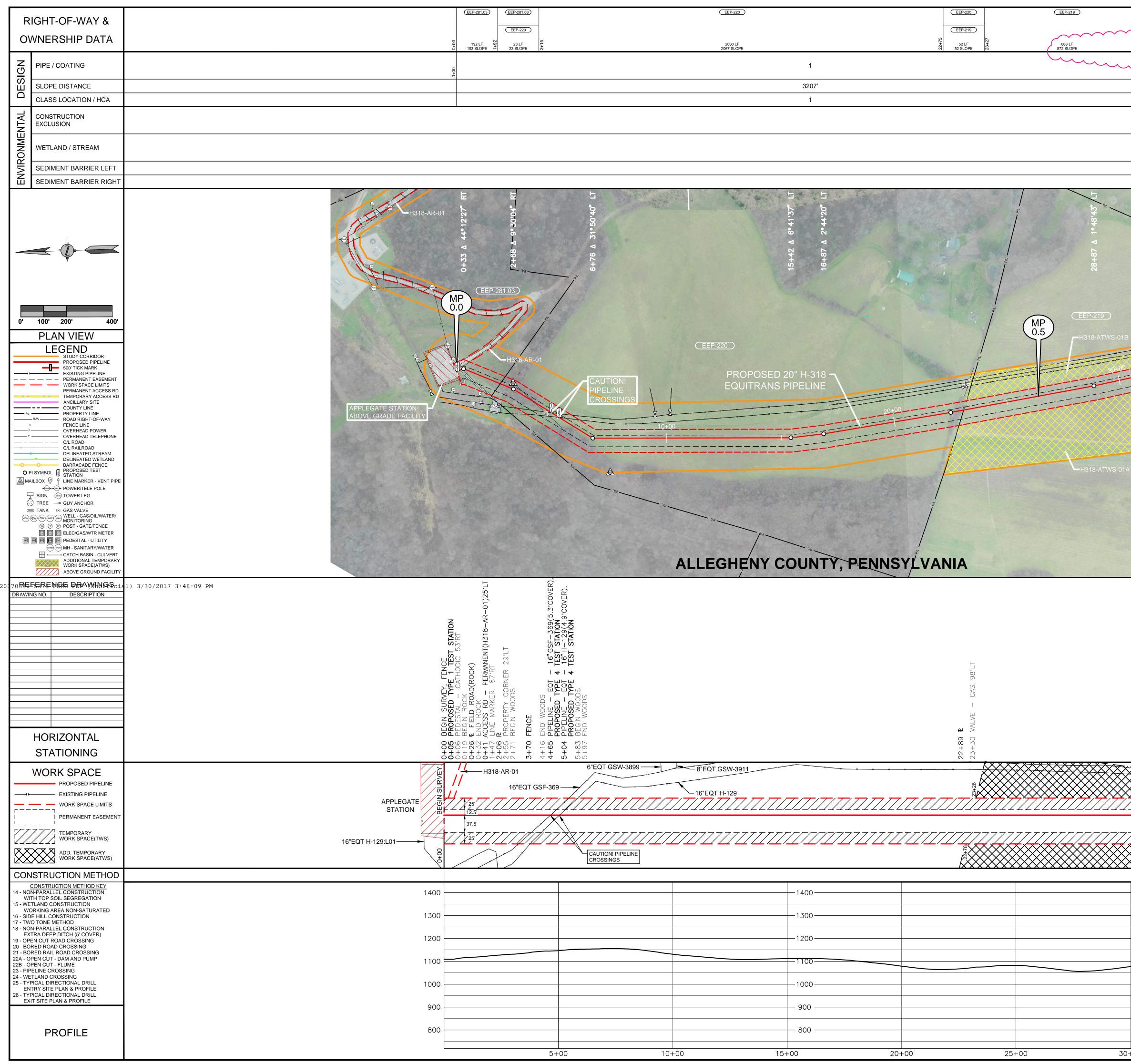
1. Provide a complete estimate of revised construction emissions for the project in order to update table 4.11.1-6. Estimate should account for the current construction schedule.

Response:

Attachment Air Quality-1 includes an updated version of table 4.11.1-6, which presents revised construction emissions accounting for the current construction schedule. Note that because so many values in this table changed, redline strikeout was not used.

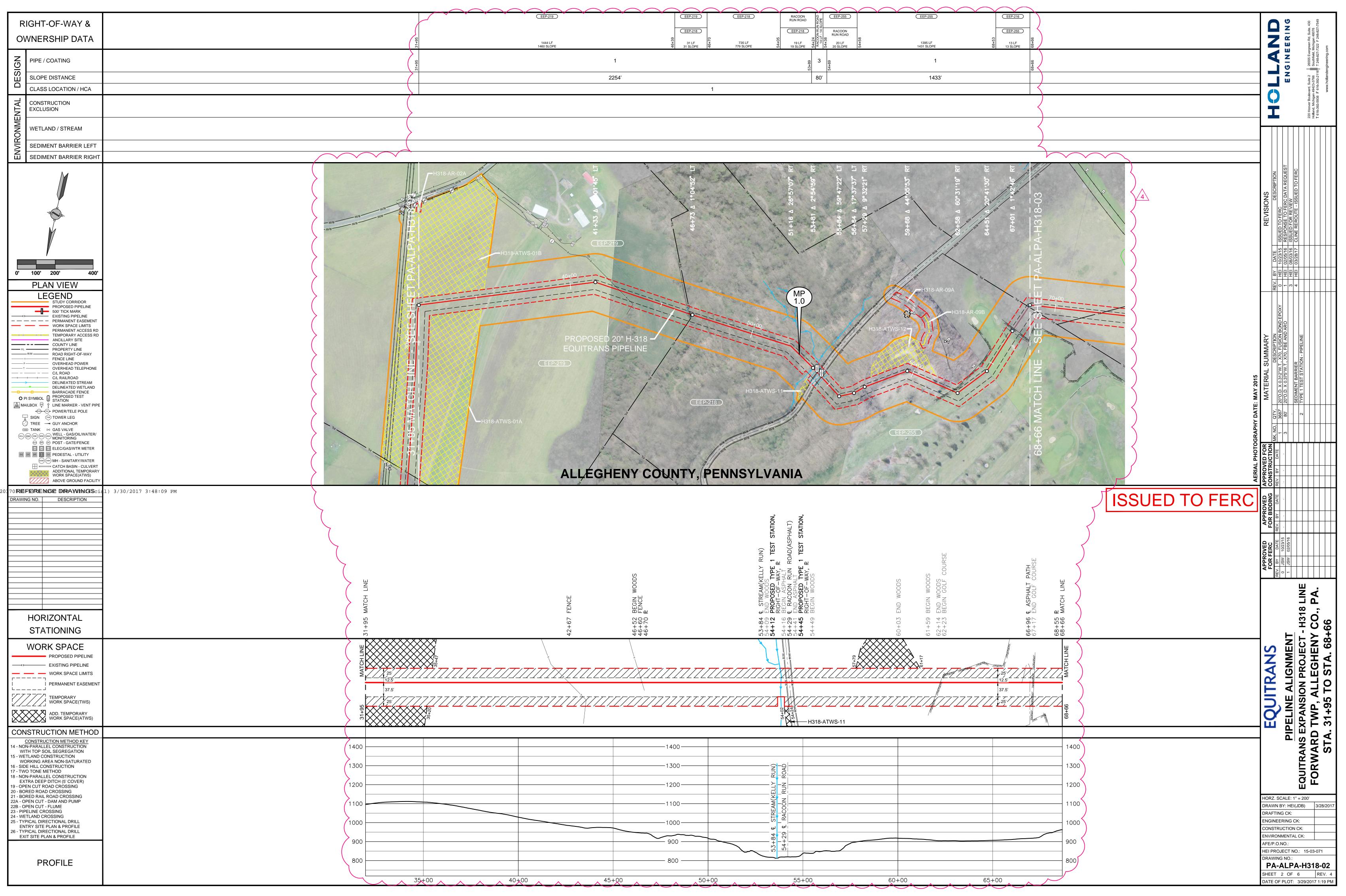
Attachment General-2

Project Alignment Sheets (H-318 Portion incorporating the New Cline Alternative)

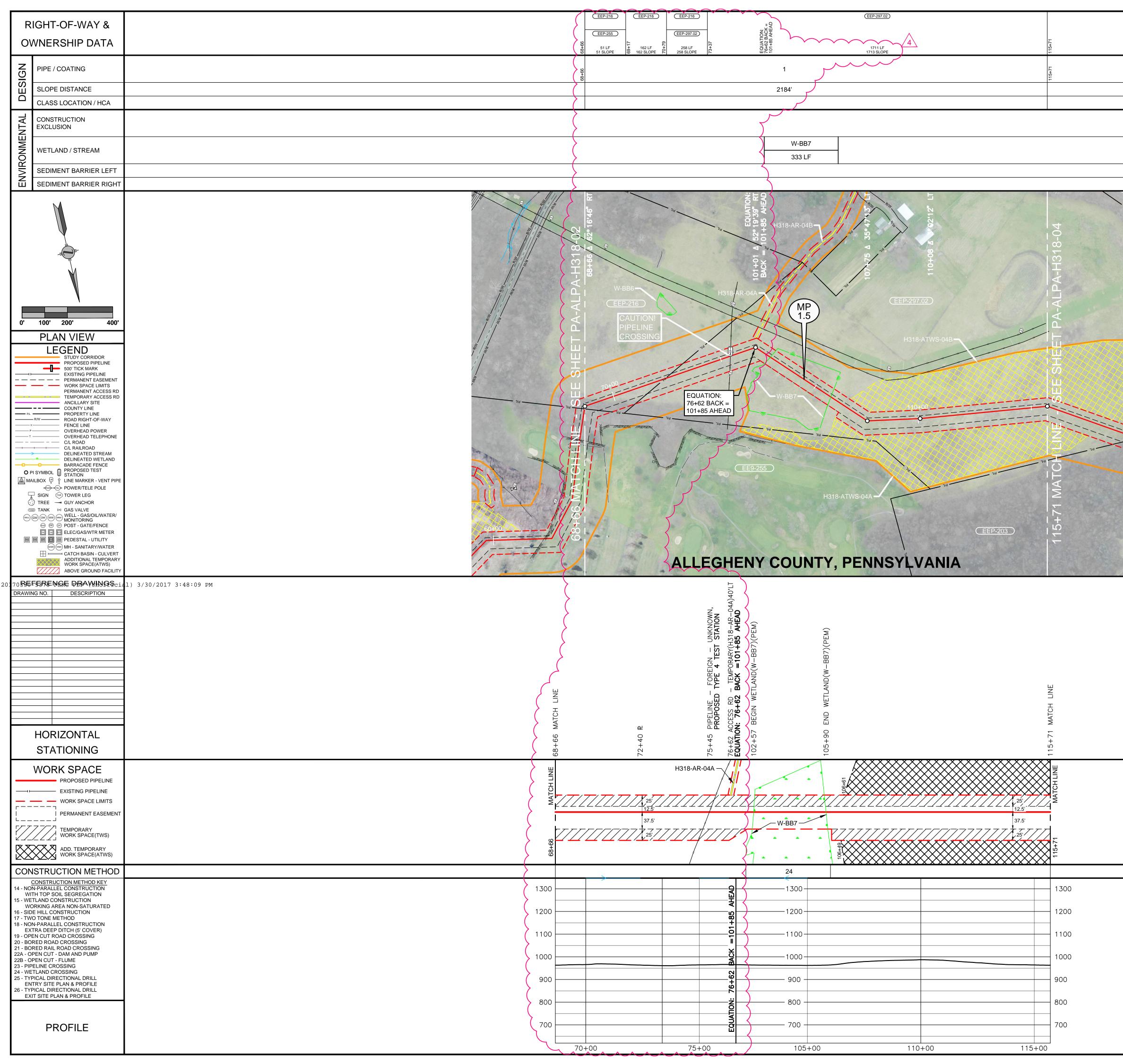


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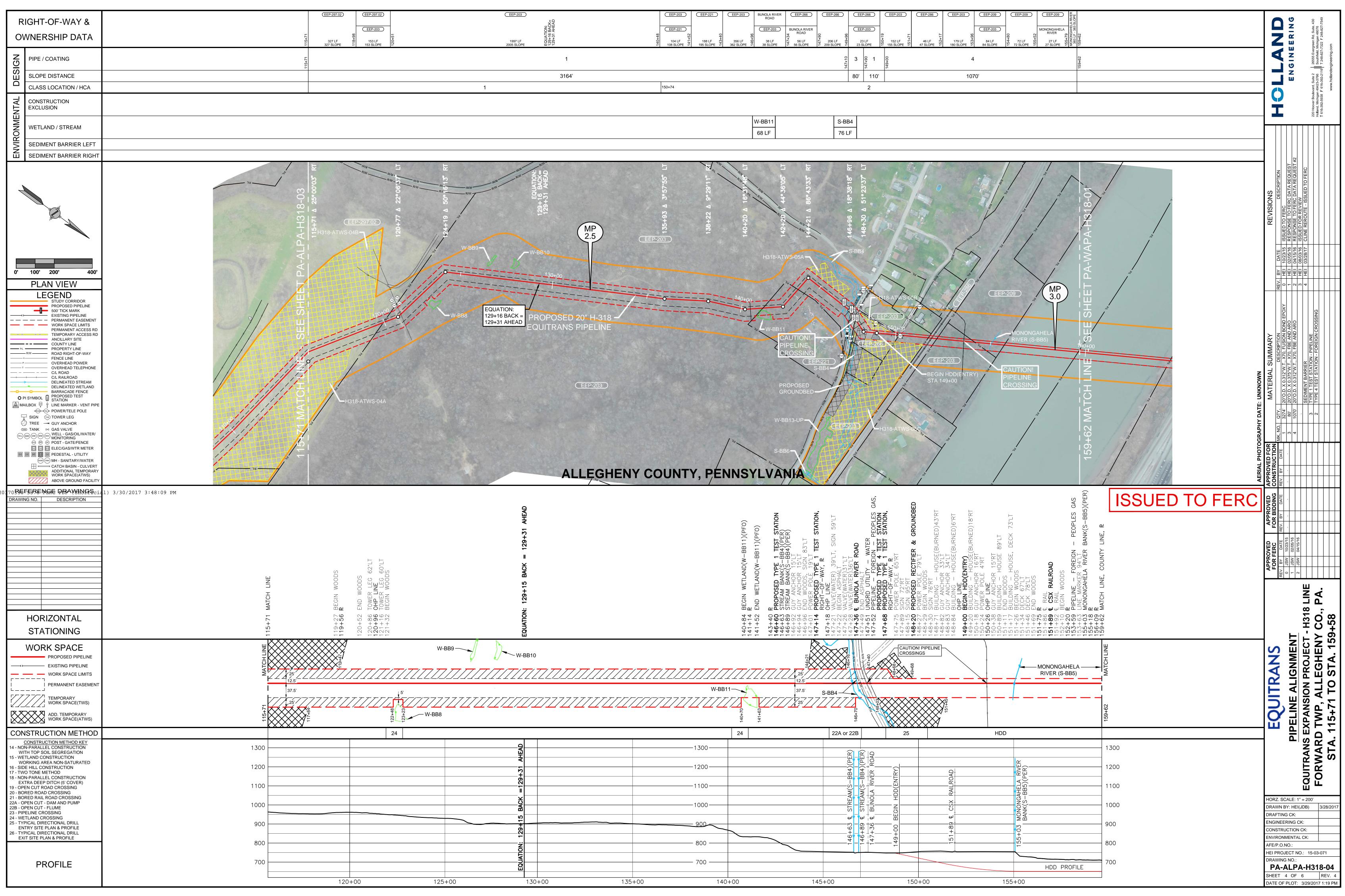
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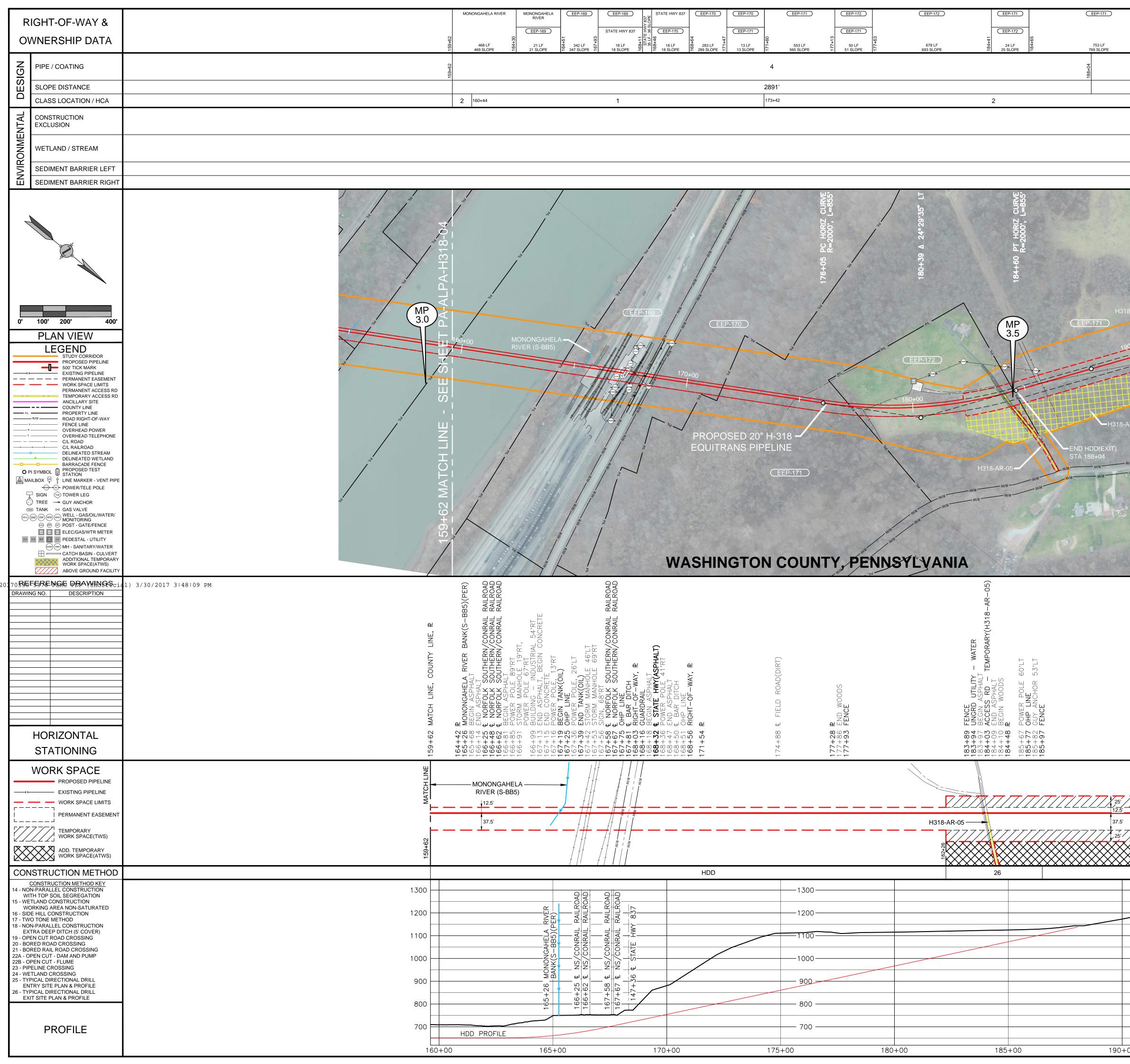
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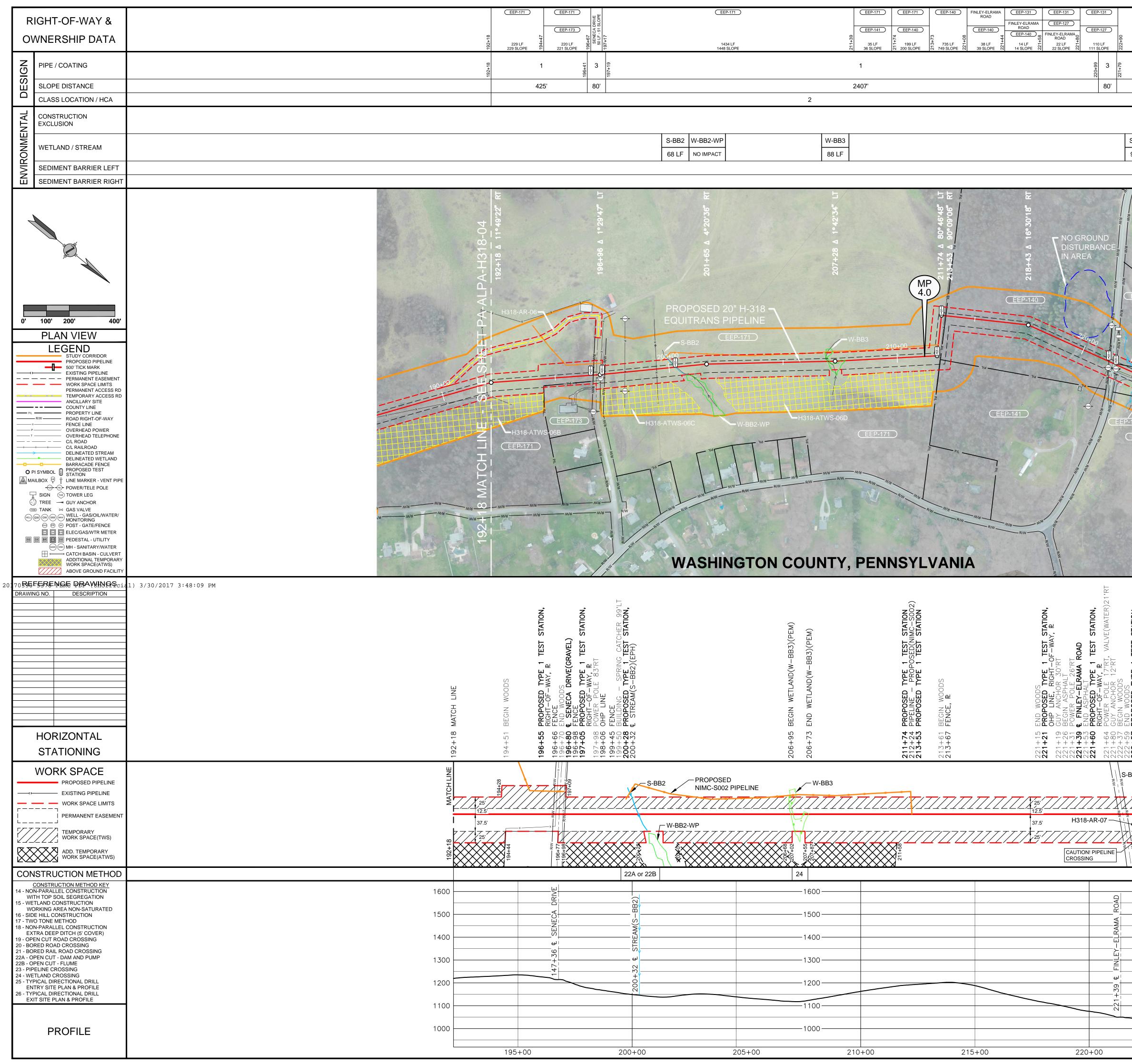
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Attachment General-4c

Appendix T-2 Access Road Traffic Counts for the Equitrans Expansion Project

(Track Changes and Changes Accepted)

				(Revised Ma	arch 30, 2017)		
		Access	s Road Traffic	Counts for	the Equitrans Expansion P	roject	
Jurisdiction	AADT a/	Year of AADT Records	Peak ADT	Route Number	Official DOT/911 Designation	Surface Type	County, State
State	1,000	2011	(4 pm) 160	CR-15	North Fork Road	Asphalt	Wetzel, WV
State	10	2011	1	CR-15/3	Mobley Run	Surface treatment	Wetzel, WV
Federal	16 12, 866 292	2016 2016	N/A	I-79	I-79	N/A	Greene, PA
State	8, 300 366	2016 2015	N/A	21/1 88	E. Roy Furman Highway	N/A	Greene, PA
State	7, 172 200	2016 2015	N/A	188	Jefferson Road	N/A	Greene, PA
County	N/A	N/A	N/A	N/A	Prison Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Homeville RD Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Baker Rd	Asphalt	Greene, PA
County	N/A 250	N/A 2015	N/A	N/A	Crayne School Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Ridge Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	McNeely Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Ankron Ankrom Rd	Asphalt	Greene, PA
State	8, 22 4806	2016 2015	N/A	43	PA 43 Turnpike	N/A	Washington, PA
State	3, 809 927	2016 2016	N/A	837	PA 837	N/A	Washington, PA
County	1, 299 300	2016 2015	N/A	1006	Finleyville-Elrama Road	N/A	Washington, PA
County	N/A	N/A	N/A	N/A	Gun Club Rd	Asphalt	Allegheny, PA
County	876 850	2016 2015	N/A	2001	Bunola River Road	N/A	Allegheny, PA
County	133 150	2016 2015	N/A	2003	Church Hollow Road	N/A	Allegheny, PA
County	N/A	N/A	N/A	N/A	McVicker Ln	Asphalt	Allegheny, PA
County	N/A	N/A	N/A	N/A	Ripple-Rippel Rd	Asphalt	Allegheny, PA
County	148 150	2016 2015	N/A	2005	Raccoon Run Road North	N/A	Allegheny, PA
County	N/A	N/A	N/A	N/A	Pangburn Hollow Rd	Asphalt	Allegheny, PA
County	198 200	2016 2015	N/A	2005	Raccoon Run Road South	N/A	Allegheny, PA

		Ac	cess Road Tr	affic Counts	for the Equitrans Expansion	Project	
Jurisdiction	AADT a/	Year of AADT Records	Peak ADT	Route Number	Official DOT/911 Designation	Surface Type	County, State
State	1,000	2011	(4 pm) 160	CR-15	North Fork Road	Asphalt	Wetzel, WV
State	10	2011	1	CR-15/3	Mobley Run	Surface treatment	Wetzel, WV
Federal	12,292	2016	N/A	I-79	I-79	N/A	Greene, PA
State	8,366	2015	N/A	21/1 88	E. Roy Furman Highway	N/A	Greene, PA
State	7,200	2015	N/A	188	Jefferson Road	N/A	Greene, PA
County	N/A	N/A	N/A	N/A	Prison Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Homeville Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Baker Rd	Asphalt	Greene, PA
County	250	2015	N/A	N/A	Crayne School Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Ridge Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	McNeely Rd	Asphalt	Greene, PA
County	N/A	N/A	N/A	N/A	Ankrom Rd	Asphalt	Greene, PA
State	8,806	2015	N/A	43	PA 43 Turnpike	N/A	Washington, PA
State	3,927	2016	N/A	837	PA 837	N/A	Washington, PA
County	1,300	2015	N/A	1006	Finleyville-Elrama Road	N/A	Washington, PA
County	N/A	N/A	N/A	N/A	Gun Club Rd	Asphalt	Allegheny, PA
County	850	2015	N/A	2001	Bunola River Road	N/A	Allegheny, PA
County	150	2015	N/A	2003	Church Hollow Road	N/A	Allegheny, PA
County	N/A	N/A	N/A	N/A	McVicker Ln	Asphalt	Allegheny, PA
County	N/A	N/A	N/A	N/A	Rippel Rd	Asphalt	Allegheny, PA
County	150	2015	N/A	2005	Raccoon Run Road North	N/A	Allegheny, PA
County	N/A	N/A	N/A	N/A	Pangburn Hollow Rd	Asphalt	Allegheny, PA
County	200	2015	N/A	2005	Raccoon Run Road South	N/A	Allegheny, PA

Attachment Water Resources-2

Table 4.3.2-10Hydrostatic Test Water Sources and Discharge Locations for the
Mountain Valley Project and the Equitrans Expansion Project

(Track Changes and Changes Accepted)

					Proposed Water	Source		Proposed Test W	/ater Discharg	e Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
Mountain Valley Proj	ect									
01A	0.0	12.2	4,367,359		Reuse from Test Section 1B	Fishing Creek	0.0	Fishing Creek	4,367,359	Oct/Nov 2017
01B	12.2	25.9	4,904,330	26.0	Salem Fork Creek	Tenmile Creek	12.2	Tenmile Creek	536,970	
02A	25.9	41.3	5,512,896	26.0	Salem Fork Creek	Tenmile Creek	25.9	Tenmile Creek		
02B	41.3	48.0	2,398,468		Reuse from Test Section 2A		41.3	Middle West Fork River	3,114,428	Oct/Nov 2017
03A	48.0	65.5	6,264,655	74.9	Little Kanawha River	Leading Creek	48.0	Leading Creek	2,398,468	
03B	65.5	77.6	4,331,561		Reuse from Test Section 3A		65.5	Upper Little Kanawha	1,933,094	Oct/Nov 2017
04A	77.6	87.7	3,615,601		Reuse from Test Section 4B		77.3	Upper Little Kanawha	7,947,162	
04B	87.7	104.7	6,085,665	87.4	Elk River	Middle Elk River	87.7	Middle Elk River	2,470,064	Oct/Nov 2017
05A	104.7	120.1	5,512,896	120.0	Little Laurel Creek	Birch Creek	104.7	Birch Creek		
05B	120.1	127.8	2,756,448		Reuse from Test Section 5A		120.1	Outlet Gauley River	2,756,448	Oct/Nov 2017

DEIS TABLE 4.3.2-10

					S TABLE 4.3.2-1	. ,				
				(Revised March	30, 2017)				
Hydrostatic Te	est Water	Source	s and Discha	rge Loc	ations for the M	Iountain Valle	ey Proje	ect and the Equit	rans Expans	ion Project
					Proposed Water	Source		Proposed Test Wa	iter Discharge	e Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
06A	127.8	143.7	5,691,886	143.7	Meadow River	Hominy Creek	127.8	Hominy Creek	2,756,448	
06B	143.7	154.5	3,866,187		Reuse from Test Section 6A		143.7	Meadow River	1,825,699	Oct/Nov 2017
07A	154.5	170.6	5,763,483	170.6	Greenbrier River	Meadow Rive	154.5	Meadow River	3,866,187	
07B	170.6	181.8	4,009,379		Reuse from Test Section 7A		170.6	Wolf Creek – Greenbrier River	5,763,483	Oct/Nov 2017
08A	181.8	191.0	3,293,419		Reuse from Test Section 8B		181.8	Indian Creek	3,293,419	
08B	191.0	204.7	4,904,330	181.9	Indian Creek	East River – New River	191.0	East River – New River	1,610,911	Oct/Nov 2018
09A	204.7	218.1	4,796,936		Reuse from Test Section 9B		204.7	Sinking Creek – New River	4,796,936	
09B	218.1	234.0	5,691,886	233.8	Roanoke River	Upper Craig Creek	218.1	Upper Craig Creek	894,951	Oct/Nov 2018
10A	234.0	247.1	4,689,542	262.8	Blackwater River		234.0	Mason Creek- Roanoke River		
10B	247.1	256.9	3,508,207		Reuse from Test Section 10A		247.1	Upper Blackwater	1,181,335	
10C	256.9	262.7	2,076,286		Reuse from Test Section 10B		256.9	Upper Blackwater	1,431,921	Oct/Nov 2018

					S TABLE 4.3.2-1	,				
		_			(Revised March				_	
Hydrostatic Te	est Water	r Source:	s and Discha	•	ations for the N Proposed Water			ect and the Equit Proposed Test Wa	•	-
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
11A	262.7	265.2	894,951		Reuse from Test Section 11B		262.7	Upper Blackwater		
11B	265.2	279.9	5,262,310	262.1	Blackwater River	Upper Blackwater	265.2	Upper Blackwater	715,961	
11C	279.9	292.6	4,546,350		Reuse from Test Section 11B		279.9	Upper Pigg River	1,539,315	
11D	292.6	301.0	3,007,034		Reuse from Test Section 11C		292.6	Cherrystone Creek – Banister River	3,007,034	Oct/Nov 2018
Equitrans Expansion	Project									
H-158	0	0.2	7,085	N/A	Municipal	N/A	-	Lower Monongahela	7,085	Nov 2017 April 2018
H-305	0	0.1	12,043	N/A	Municipal	N/A	-	Lower Monongahela	12,043	Nov 2017 April 2018
H-316	0	3.0	551,423	N/A	Municipal	N/A	-	Lower Monongahela	551,423	Nov 2017 May 2018
H-318	0	0.6	44,666	N/A	Municipal	N/A	-	Lower Monongahela	44,666	Nov 2017 May 2018
H-318	0.6	4.3	304,613	N/A	Municipal	N/A	-	Lower Monongahela	304,613	Nov 2017 May 2018
H-319	0	<0.1	1,900	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,900	Nov 2017 March 2018
M-80	0	<0.1	1,810	N/A	Municipal	N/A	-	Lower Monongahela	1,810	Nov 2017 April 2018

					Proposed Water	Source		Proposed Test Wa	ater Discharg	e Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
Mobley Tap	N/A	N/A	1,174	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,174	Nov. 2017 Jan 2018
Redhook Compressor Station	N/A	N/A	25,000	N/A	Municipal	N/A	-	Lower Monongahela	25,000	Nov 2017 Sep 2018
Webster Interconnect	N/A	N/A	1,565	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,565	Nov 2017Marc 2018

					Proposed Water	Source		Proposed Test W	/ater Discharg	e Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
Mountain Valley Proj	ect									
01A	0.0	12.2	4,367,359		Reuse from Test Section 1B	Fishing Creek	0.0	Fishing Creek	4,367,359	Oct/Nov 2017
01B	12.2	25.9	4,904,330	26.0	Salem Fork Creek	Tenmile Creek	12.2	Tenmile Creek	536,970	
02A	25.9	41.3	5,512,896	26.0	Salem Fork Creek	Tenmile Creek	25.9	Tenmile Creek		
02B	41.3	48.0	2,398,468		Reuse from Test Section 2A		41.3	Middle West Fork River	3,114,428	Oct/Nov 2017
03A	48.0	65.5	6,264,655	74.9	Little Kanawha River	Leading Creek	48.0	Leading Creek	2,398,468	
03B	65.5	77.6	4,331,561		Reuse from Test Section 3A		65.5	Upper Little Kanawha	1,933,094	Oct/Nov 2017
04A	77.6	87.7	3,615,601		Reuse from Test Section 4B		77.3	Upper Little Kanawha	7,947,162	
04B	87.7	104.7	6,085,665	87.4	Elk River	Middle Elk River	87.7	Middle Elk River	2,470,064	Oct/Nov 2017
05A	104.7	120.1	5,512,896	120.0	Little Laurel Creek	Birch Creek	104.7	Birch Creek		
05B	120.1	127.8	2,756,448		Reuse from Test Section 5A		120.1	Outlet Gauley River	2,756,448	Oct/Nov 2017

DEIS TABLE 4.3.2-10

					S TABLE 4.3.2-1	. ,				
				(Revised March	30, 2017)				
Hydrostatic Te	est Water	Source	s and Discha	rge Loc	ations for the M	Iountain Valle	ey Proje	ect and the Equit	rans Expans	ion Project
					Proposed Water	Source		Proposed Test Wa	iter Discharge	e Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
06A	127.8	143.7	5,691,886	143.7	Meadow River	Hominy Creek	127.8	Hominy Creek	2,756,448	
06B	143.7	154.5	3,866,187		Reuse from Test Section 6A		143.7	Meadow River	1,825,699	Oct/Nov 2017
07A	154.5	170.6	5,763,483	170.6	Greenbrier River	Meadow Rive	154.5	Meadow River	3,866,187	
07B	170.6	181.8	4,009,379		Reuse from Test Section 7A		170.6	Wolf Creek – Greenbrier River	5,763,483	Oct/Nov 2017
08A	181.8	191.0	3,293,419		Reuse from Test Section 8B		181.8	Indian Creek	3,293,419	
08B	191.0	204.7	4,904,330	181.9	Indian Creek	East River – New River	191.0	East River – New River	1,610,911	Oct/Nov 2018
09A	204.7	218.1	4,796,936		Reuse from Test Section 9B		204.7	Sinking Creek – New River	4,796,936	
09B	218.1	234.0	5,691,886	233.8	Roanoke River	Upper Craig Creek	218.1	Upper Craig Creek	894,951	Oct/Nov 2018
10A	234.0	247.1	4,689,542	262.8	Blackwater River		234.0	Mason Creek- Roanoke River		
10B	247.1	256.9	3,508,207		Reuse from Test Section 10A		247.1	Upper Blackwater	1,181,335	
10C	256.9	262.7	2,076,286		Reuse from Test Section 10B		256.9	Upper Blackwater	1,431,921	Oct/Nov 2018

				DEI	S TABLE 4.3.2-1	0 (continued)				
					(Revised March	30, 2017)				
Hydrostatic Te	est Wate	r Source	s and Discha	rge Loc	ations for the N	Iountain Valle	ey Proje	ect and the Equit	rans Expans	ion Project
					Proposed Water	Source		Proposed Test Wa	ter Discharge	Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
11A	262.7	265.2	894,951		Reuse from Test Section 11B		262.7	Upper Blackwater		
11B	265.2	279.9	5,262,310	262.1	Blackwater River	Upper Blackwater	265.2	Upper Blackwater	715,961	
11C	279.9	292.6	4,546,350		Reuse from Test Section 11B		279.9	Upper Pigg River	1,539,315	
11D	292.6	301.0	3,007,034		Reuse from Test Section 11C		292.6	Cherrystone Creek – Banister River	3,007,034	Oct/Nov 2018
Equitrans Expansion	n Project									
H-158	0	0.2	7,085	N/A	Municipal	N/A	-	Lower Monongahela	7,085	April 2018
H-305	0	0.1	12,043	N/A	Municipal	N/A	-	Lower Monongahela	12,043	April 2018
H-316	0	3.0	551,423	N/A	Municipal	N/A	-	Lower Monongahela	551,423	May 2018
H-318	0	0.6	44,666	N/A	Municipal	N/A	-	Lower Monongahela	44,666	May 2018
H-318	0.6	4.3	304,613	N/A	Municipal	N/A	-	Lower Monongahela	304,613	May 2018
H-319	0	<0.1	1,900	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,900	March 2018
M-80	0	<0.1	1,810	N/A	Municipal	N/A	-	Lower Monongahela	1,810	April 2018

DEIS TABLE 4.3.2-10 (continued) (Revised March 30, 2017)

Hydrostatic Test Water Sources and Discharge Locations for the Mountain Valley Project and the Equitrans Expansion Project

					Proposed Water	Source		Proposed Test Wa	ater Discharge	Location
Segment/Facility Name	Start MP	End MP	Required Water (gallons)	MP	Proposed Water	Watershed	MP	Watershed	Volume (gallons)	Proposed Discharge Month
Mobley Tap	N/A	N/A	1,174	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,174	Jan 2018
Redhook Compressor Station	N/A	N/A	25,000	N/A	Municipal	N/A	-	Lower Monongahela	25,000	Sept 2018
Webster Interconnect	N/A	N/A	1,565	N/A	Municipal	N/A	-	Little Muskingum- Middle Island	1,565	March 2018

Attachment Soils-2

Appendix N-9

Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres

(Track Changes and Changes Accepted)

							NDIX N-9 h 30, 2017	·)						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans Farmland	•	sion Pro	ject in	Acres	Soils		
Start MP	End I MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	of Statewide	Hydric		Rocky		Prone to Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
I	H-158/I Pipeliı													
0.0	0.0	0.0	CaD	Greene, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
0.0	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9 0.9
0.1	0.1	0.0	Nw	Greene, PA	Newark silt loam	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9
0.1	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9 0.9
0.1	0.2	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
0.2	0.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
					SUBTOTAL	. 1	1.9	0.0	0.0	0.0	0.0	6	4	6.8 8.8
H	305 Pi	peline												
0.0	0.0	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.3 1.9	0.0	0.0	0.0	0.0	1.3 1.9	1.3 1.9	1.3 1.9
0.1	0.1	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.3 0	1.3	1.3
					SUBTOTAL	0.0	1.9 1.3	0.0	0.0	0.0	0.0	1.9 2.6	3.2 2.6	3.2 2.6
H·	316 Pi	peline												
0.0	0.0	0.0	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
0.0	0.1	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.7 0.9	0.0	0.0	0.0	0.0	0.0	0.7 0.9	0.7 0.9	0.0

							NDIX N-9 h 30, 2017))						
				Soils	s and Soil Limitation Crosse	d by the	Equitrans Farmland	Expar	sion Pro	oject in	Acres	Soils		
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	of Statewide			Rocky	Drainage	Prone to Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
0.1	0.1	0.0	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	0.1 0.2	0.0	0.0	0.0	0.0	0.0	0.1 0.2	0.0	0.0
0.1	0.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.9 1.2	0.0	0.8 1.2
0.1	0.2	0.0	Du	Greene, PA	Dunning silt loam	0.0	0.0	0.6 0.8	0.6 0.8	0.0	0.6 0.8	0.0	0.6 0.8	0.6 0.8
0.2	0.2	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8 1.1
0.2	0.2	0.0	ÐtÐ	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.7
0.2	0.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5 0.6	0.0	0.5 0.6
0.3	0.5	0.2	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7 5.2	3.7 5.2
0.5	0.5	0.0	WeB	Greene, PA	Westmorel and silt loam, 3 to 8 percent slopes	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5 0.7	0.5 0.7
0.5	0.6	0.1	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7 2.5	1.7 2.5
0.6	0.9	0.3	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	5.4 2.6	0.0	0.0	0.0	0.0	5.4 2.6	5.4 2.6	5.4 2.6
0.9	1.0	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.5 0.5	0.0	2.5 0.5
1.0	1.0	0.0	UdB	Greene, PA	Udorthents , smoothed, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9 1.1	0.9 1.1
1.0	1.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.5 3.1	0.0	2.5 3.1
1.1	1.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.5 2.1	0.0	0.0	0.0	0.0	0.0	1.5 2.1	0.0	0.0

						-	NDIX N-9 h 30, 2017)							
	Soils and Soil Limitation Crossed by the Equitrans Expansion Project in Acres													
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime	Farmland of Statewide	Hydric	Shallow Depth to	Stony/ Rocky	Poor Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.2	1.2	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.4 0.6	0.0	0.0	0.0	0.0	0.4 0.6	0.0	0.4 0.6
1.2	1.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.6 0.8	0.0	0.6 0.8
1.3	1.3	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9 1.4
1.3	1.3	0.0	W	Greene, PA	Water	-	-	-	-	-	-	-	-	-
1.3	1.4	0.0	Nw	Greene, PA	Newark silt loam	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
1.4	1.4	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	8.0 6.0	0.0	0.0	0.0	0.0	0.0	0.6 0.8	0.6 0.8	0.0
1.4	1.5	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.4 2.0	0.0	1.4 2.0
1.5	1.5	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	1.0 1.2	0.0	0.0	0.0	0.0	1.0 1.2	0.0	1.0 1.2
1.5	1.6	0.1	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.7 3.4	0.0	2.7 3.4
1.6	1.6	0.1	AgB	Greene, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.2 2.1	1.2 2.1	0.0
1.6	1.6	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	0.9 1.2	0.0	0.0	0.0	0.0	0.9 1.2	0.9 1.2	0.9 1.2
1.6	1.7	0.0	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.7 0.7	0.0	2.7 0.7
1.7	1.7	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.4	0.0	1.4
1.7	1.7	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	0.9 1.2	0.0	0.0	0.0	0.0	0.9 1.2	0.9 1.2	0.9 1.2
1.7	1.8	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25- to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8

							NDIX N-9 h 30, 2017)						
Start MP	End MP	Distance (mile)	Map Unit Symbol	Soils	s and Soil Limitation Crosse	Prime	Farmland of Statewide	Hydric	Shallow Depth to	Stony/ Rocky	Poor Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.8	1.8	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.3 0.5	0.0	0.0	0.0	0.0	0.3 0.5	0.0	0.3 0.5
1.8	1.9	0.0	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5 0.7	0.0	0.5 0.7
1.9	2.0	0.1	AgB	Greene, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.9 2.6	1.9 2.6	0.0
2.0	2.1	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.1 1.6	0.0	0.0	0.0	0.0	0.0	1.1 1.6	0.0	0.0
2.1	2.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8 0.0
2.1	2.1	0.1	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	2.7 3.0	0.0	0.0	0.0	0.0	0.0	2.7 3.0	2.7 3.0	0.0
2.1	2.2	0.0	WeD	Greene, PA	Westmorel and silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.3 0.5	0.3 0.5	0.3 0.5
2.2	2.3	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8 2.8
2.3	2.3	0.0	W	Greene, PA	Water	-	-	-	-	-	-	-	-	-
<u>2.3</u>	2.4	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25- to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
2.4	2.5	0.1	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	0.5 1.0	0.0	0.0	0.0	0.0	0.5 1.0	0.5 1.0	0.5 1.0
2.5	2.6	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25- to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2
2.6	2.6	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8 0.0	0.8 0.0
2.6	2.6	0.0	BoB	Greene, PA	Brooke silty clay loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.2 0.5	0.2 0.5	0.2 0.5

						-	NDIX N-9 h 30, 2017))						
				Soils	s and Soil Limitation Crosse	d by the	Equitrans Farmland	Expan	ision Pro	oject in	Acres	Soils		
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	of Statewide			Rocky	Drainage	Prone to Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
2.6	2.7	0.1	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8 1.5	0.8 1.5
2.7	2.8	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2 1.9
2.8	2.8	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	1.0 1.5	0.0	0.0	0.0	0.0	0.0	1.0 1.5	1.0 1.5	0.0
2.8	3.0	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.2 3.5
н-	318 Pi	peline			SUBTOTAL	8.2 10.6	9.8 8.7	0.6 0.8	0.6 0.8	0 0	0.6 0.8	37.2 37.9	29.4 30.1	118.5 45.2
0.0	0.1	0.1	GuB	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes	1.2 1.0	0.0	0.0	0.0	0.0	0.0	1.2 1.0	1.2 1.0	0.0
0.1	0.1	0.1 0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.2 0.2	2.2 0.2	2.2 0.2
0.1	0.2	0.1	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	1.0 1.5	0.0	0.0	0.0	0.0	1.0 1.5	0.0	0.0
0.2	0.2	0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.2 3.2	2.2 3.2	2.2 3.2
0.2	0.3	0.1	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.4 0.6	0.4 0.6	0.4 0.6
0.3	0.4	0.1	CuD	Allegheny, P A	Culleoka- Dormont- Urban land- complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	<u>2.2</u>	<u>2.2</u>	<u>2.2</u>
0.4	0.6 0. 7	0.3	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	12.612.9 15 .6	0.0	0.0	0.0	0.0	12.612.9 15.6	0.0	0.0
0.6 0. 7	0.7	0.1 0.0	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	4.0 0.9	4.0 0.9	4.0 0.9
0.7	0.8	0.1	GuC	Allegheny, P A	Guernsey silt loam, 8 to 15- percent slopes	0.0	12.612.9	0.0	0.0	0.0	0.0	12.612.9	0.0	0.0

						-	NDIX N-9 h 30, 2017)						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans Farmland of	Expar	nsion Pro			Soils Brono to	Soils Prone	Door Do
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Statewide		Depth to	Rocky	Drainage	Erosion	to Compaction	vegetation
0.8	0.80. 9	0.1	GSFS mE	Allegheny, PA	Gilpin, Weikert, and Culleoka- shaly silt loams, very steep Strip- mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	2.13.5	0.0	2.13.5	0.03.5	2.13.5
0.8 0. 9	0.9	0.1 0.0	GuC S mD	Allegheny, PA	Guernsey silt loam, 8 to 15- percent slopes Strip mines, 8 to 25 percent slopes Strip	0.0	1.2 0.0	0.0	0.0	0.00.4 0 .6	0.0	1.2 0.0	0.00.4 0.6	0.00.4 0.6
0.9	1.0	0.1	CuDSf ₩	Allegheny,- P A	Culleoka- Dormont- Urban land- complex, 15 to 25 percent slopes Strip mines, 25 to 75 percent- slopes	0.0	0.0	0.0	0.0	0.03.5	0.0	1.93.5	1.93.5	1.93.5
1.0	1.1 1. 0	0.1 0.0	GSF G QF	Allegheny, PA	Gilpin, Weikert, and Culleoka- shaly silt loams, very steep Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	2.1 0.0	0.0	2.1 0.9	0.0 0.9	2.1 0.9
1.1	1.2 1. 1	0.1 0.0	DoCSf MSmF	Allegheny, PA	Dormont silt loam, 8 to 15- percent slopes Strip mines, 25 to 75 percent slopes	0.0	1.7 0.0	0.0	0.0	0.03.5 1 .2	0.0	1.73.5 1.2	1.73.5 1.2	1.73.5 1.2
1.2 1. 1	1.2 1, .1	0.1 0.0	CuD S mB	Allegheny, PA	Culleoka- Dormont- Urban land- complex, 15 to 25 percent slopes Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.90.0 3.4	1.90.0 3.4	1.90.0 3.4
1.21. 1	1.31. 2	0.1	DoCS mF	Allegheny, PA	Dormont silt loam, 8 to 15- percent slopes Strip mines, 25 to 75 percent slopes	0.0	1.60.0	0.0	0.0	0.03.5	0.0	1.63.5	1.63.5	1.63.5
1.31. 2	1.3	0.1	CwDS mB	Allegheny, PA	Culleoka-Westmorel and silt loams, 15 to 25 percent slopes- Strip mines, 0 to 8 percent- slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.70.0	0.70.0	0.70.0
1.3	1.4	0.0	DoB	Allegheny, PA	Dormont silt loam, 3 to 8 percent slopes	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0

						-	NDIX N-9 h 30, 2017)						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	oject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.4	1.4	0.0	DoD	Allegheny, PA	Dormont silt loam, 15 to 25- percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
1.4	1.5	0.1	DoB	Allegheny, PA	Dormont silt loam, 3 to 8 percent slopes	1.7	0.0	0.0	0.0	0.0	0.0	1.7	1.7	0.0
1.5	1.6	0.0	DoC	Allegheny, PA	Dormont silt loam, 8 to 15- percent slopes	0.0	0.8	0.0	0.0	0.0	0.0	0.5	0.5	0.5
1.6	1.6	0.1	DoD	Allegheny, PA	Dormont silt loam, 15 to 25- percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
1.6	1.7	0.1	DoE	Allegheny, P A	Dormont silt loam, 25 to 35- percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3
1.7	1.8	0.1	GSF	Allegheny, P A	Gilpin, Weikert, and Culleoka- shaly silt loams, very steep	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	1.7
1.8 1. 3	1.8 1. 3	0.1 0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	1.3 3.5	0.0	1.3 3.5	1.3 3.5	1.3 3.5
1.8 1. 3	1.9 1. 3	0.1 0.0	CwC	Allegheny, PA	Culleoka- Westmorel and silt loams, 8 to 15 percent slopes	0.0	0.9 0.5	0.0	0.0	0.0	0.0	0.9 0.5	0.0	0.9 0.5
1.9 1. 3	2.0 1. 5	0.1 0.2	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes Allegheny	4.8	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8 5.5
2.0 1. 5	2.2 1. 7	0.2	AgB	Allegheny, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	8.1 9.3	8.1 9.3	0.0
2.2 1. 7	2.2 1. 7	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3. 44.5	0.0	3. 44.5	3.4 4.5	3.4 4.5
2.2 1. 7	2.3 1. 8	0.1	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	4 .85.5 2.1	0.0	0.0	0.0	0.0	0.0	0.0	4 .85.5 2.1	4 .85.5 2.1
2.3 1. 8	2.4 1. 9	0.1	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3. 41.4	0.0	3.4 1.4	3. 41.4	3.4 1.4
1.9	1.9	0.0	SmB	Allegheny, PA	Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0 2.4	0.0 2.4	0.0 2.4

							NDIX N-9 h 30, 2017)						
				Soils	and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	oject in	Acres			
Start MP	End I MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky		Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.9	1.9	0.0	SmF	Allegheny, P A	Strip mines, 25 to 75 percent- slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4
2.4 1. 9	2.6 2. 2	0.3	SmD	Allegheny, PA	Strip mines, 8 to 25 percent slopes Strip	0.0	0.0	0.0	0.0	2.33.0 4 .6	0.0	0.0	2.33.0 4.6	2.33.0 4.6
2.62. 2	2.72. 2	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent- slopes	0.0	0.0	0.0	0.0	3.4	0.0	3.4	3.4	3.4
2.7 2. 2	2.8 2. 3	0.1	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	3.01.0 1.5	3.01.0 1.5	3.01.0 1.5
2.8 2. 3	2.8 2. 3	0.1 0.0	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	0.7 1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.7 1.6	0.7 1.6
2.8 2. 3	2.8 2. 3	0.0	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	1.0 0.1	1.0 0.1	1.0 0.1
2.8 2. 3	2.9 2. 4	0.1	URB	Allegheny, PA	Urban land- Rainsboro complex, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	1.8 2.6	0.0	0.0
2.92. 4	2.92. 4	0.0	RaB	Allegheny, P A	Rayne silt loam, 3 to 8 percent- slopes Rainsboro	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
2.9 2. 4	3.0 2. 5	0.1	RaA	Allegheny, PA	Rainsboro silt loam, 0 to 3 percent slopes	0.4 0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.4 0.7	0.0
3.0 2. 5	3.1 2. 6	0.2 0.1	W		Water	-	-	-	-	-	-	-	-	-
3.1 2. 6	3.2 2. 7	0.1	Us	Washington, PA	Udorthents , smoothed	0.6 1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.2 2. 7	3.3 2. 8	0.0 0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5 1.9
3.3 2. 8	3.4 2. 9	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	0.7 1.3	0.0	0.0	0.0	0.0	0.7 1.3	0.7 1.3	0.7 1.3
3.4 2. 9	3.5 3. 0	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5

							NDIX N-9 h 30, 2017)						
				Soils	s and Soil Limitation Crosse	d by the	•	Expar	sion Pro	oject in	Acres	0		
Start MP	End I MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
3.5 3. 0	3.6 3. 1	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	2.4 5.0	0.0	0.0	0.0	0.0	2.4 5.0	2.4 5.0	2.4 5.0
3.6 3. 1	3.7 3. 2	0.0 0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7 2.4
3.7 3. 2	3.7 3. 2	0.1 0.0	WeB	Washington, PA	Westmorel and silt loam, 3 to 8 percent slopes	1.1 1.5	0.0	0.0	0.0	0.0	0.0	1.1 1.5	1.1 1.5	1.1 1.5
3.7 3. 2	3.7 3. 2	0.0	WeC	Washington, PA	Westmorel and silt loam, 8 to 15 percent slopes	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
3.7 3. 2	3.8 3. 3	0.0 0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7 0.7
3.8 3. 3	3.8 3. 3	0.0	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
3.8 3. 3	3.8 3. 3	0.1 0.0	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.8 1.5	0.0	0.0	0.0	0.0	1.8 1.5	1.8 1.5	1.8 1.5
3.8 3. 3	3.8 3. 3	0.0	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7 0.2
3.8 3. 3	3.9 3. 4	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	1.8 2.2	0.0	0.0	0.0	0.0	1.8 2.2	1.8 2.2	1.8 2.2
3.9 3. 4	3.9 3. 4	0.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
3.9 3. 4	4.0 3. 5	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.3 1.6	0.0	0.0	0.0	0.0	1.3 1.6	1.3 1.6	1.3 1.6
4.0 3. 5	4.0 3. 5	0.1 0.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4 1.1	3.4 1.1	3.4 1.1
4.0 3. 5	4.1 3. 6	0.1	CaB	Washington, PA	Calvin silt loam, 3 to 8 percent slopes	0.0	0.9 1.4	0.0	0.0	0.0	0.0	0.9 1.4	0.9 1.4	0.9 1.4
4. 13. 6	4 <u>.23.</u> 7	0.1	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3. 4	3. 4

								NDIX N-9 h 30, 2017)						
Start MP	End MP	Distance (mile)	Map Unit Symbol			Limitation Crosse	Prime	Equitrans Farmland of Statewide Importance <u>a</u> /	Hydric	Shallow Depth to	Stony/ Rocky	Poor Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
4.2 3. 7	4.3 3. 8	0.1	Fa	Washington, PA	Fairpla	y (marl) silt loam	0.0	0.0	0.5 0.8	0.5 0.8	0.0	0.5 0.8	0.0	0.0	0.5 0.8
4 .3 3. 8	4.3 3. 8	0.0	WeD	Washington, PA		l and silt loam, 15 to percent slopes	0.6 0.8	0.0	0.0	0.0	0.0	0.0	0.6 0.8	0.6 0.8	0.6 0.8
						SUBTOTAL	. 16.3 13.6	37.3 31.7	0.5 0.8	0.5 0.8	34.5 15 8	. 0.5 0.8	102.2 75. 2	89.3 69.4	88.7 66.4
Н-	319 Pi	peline													
0.0	0.0	0.0	Sk	Wetzel. WV	Skidmo	ore gravelly loam	0.0	0.8 1.1	0.0	0.0	0.8 1.1	0.0	0.0	0.0	0.0
				SUE	BTOTAL	0.0	1.1 0.8		0.0	0.0	1.1 0.8	0.0	0.0	0.0	0.0
USDA	, 2015	a; 2015b													
		,		tly due to roundir	0										
		-		ciated Yards, Ro											
<u>a/</u> criteri				ne farmland and f SSURGO.	armland of s	statewide importance are	e identified a	is lands that m	neet the	"all prime fa	irmland"	or "farmland	l of statewic	le and local imp	ortance"
<mark>bg/</mark> deterr		eas identifie by SSURG		e a severe compa	action potent	ial are limited to silt loan	n or finer ba	sed on particle	e size an	nd ranked "s	omewha	t poor," "poo	or," and "ver	y poor" drainag	e as
<mark>cf/</mark>	Are	eas identifie	ed as high	nly water erodible	soils are ra	nked as "very severe" or	"severe" by	SSURGO ero	osion ha	zard (Off-R	oad, Off-	Trail) criteria			
<u>d/</u>	Are	eas identifie	əd as higł	nly wind erodible	soils have a	wind erodibility index of	1 or 2 as de	termined by S	SURGC).					
<u>eh/</u> deterr		eas identifie by SSURG		e poor revegetati	on potential	are lands that have a Ca	pability Cla	ss 3 or greate	r, a low a	available wa	ater capa	city and slop	bes greater	than 8 percent a	as
<u>fb/</u>		•		e a hydric rating i	nclude the a	II and partial criteria as d	letermined b	y SSURGO.							
g e/	Are	eas identifie	ed to have	e poor drainage p	otential are	ranked as "poor" or "very	/ poor" as de	etermined by S	SSURGO	Э.					
hd/	Are	eas identifie	ed to have	e stoneystony/roo	ky soils are	soils that as determined	by SSURG	O. Include sto	one, rock	ky or cobble	s in the s	soil name (d	oes not incl	ude rock outcro	ps).

							NDIX N-9 h 30, 2017)						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans Farmland	Expar	nsion Pro	oject in	Acres	Soils		
MP	MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	of Statewide			Rocky	Drainage	Prone to Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
ł	H-158/M Pipelir													
0.0	0.0	0.0	CaD	Greene, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	2.1
0.0	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.1	0.1	0.0	Nw	Greene, PA	Newark silt loam	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9
0.1	0.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
0.1	0.2	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
0.2	0.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
					SUBTOTAL	. 1	1.9	0.0	0.0	0.0	0.0	6	4	6.8
H-	305 Pij	peline												
0.0	0.0	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	0.1	0.1	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.9	0.0	0.0	0.0	0.0	1.9	1.9	1.9
0.1	0.1	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0	1.3	1.3
					SUBTOTAL	0.0	1.9	0.0	0.0	0.0	0.0	1.9	3.2	3.2
H-	316 Pij	peline												
0.0	0.0	0.0	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	0.3	0.0	0.0	0.0	0.0	0.3	0.3	0.3
0.0	0.1	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.9	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.0

						-	NDIX N-9 h 30, 2017)						
				Soils	s and Soil Limitation Crosse	d by the	•	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
0.1	0.1	0.0	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0
0.1	0.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2
0.1	0.2	0.0	Du	Greene, PA	Dunning silt loam	0.0	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8
0.2	0.2	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
0.2	0.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6
0.3	0.5	0.2	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	5.2
0.5	0.5	0.0	WeB	Greene, PA	Westmorel and silt loam, 3 to 8 percent slopes	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.7	0.7
0.5	0.6	0.1	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
0.6	0.9	0.3	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	2.6	0.0	0.0	0.0	0.0	2.6	2.6	2.6
0.9	1.0	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
1.0	1.0	0.0	UdB	Greene, PA	Udorthents , smoothed, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
1.0	1.1	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.1	0.0	3.1
1.1	1.2	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	2.1	0.0	0.0	0.0	0.0	0.0	2.1	0.0	0.0
1.2	1.2	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.0	0.6

							NDIX N-9 h 30, 2017))						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide I Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.2	1.3	0.0	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.8
1.3	1.3	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
1.3	1.3	0.0	W	Greene, PA	Water	-	-	-	-	-	-	-	-	-
1.3	1.4	0.0	Nw	Greene, PA	Newark silt loam	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.1
1.4	1.4	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0
1.4	1.5	0.1	DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	2.0
1.5	1.5	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	1.2	0.0	0.0	0.0	0.0	1.2	0.0	1.2
1.5	1.6	0.1	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	0.0	3.4
1.6	1.6	0.1	AgB	Greene, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1	0.0
1.6	1.6	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2
1.6	1.7	0.0	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7
1.7	1.7	0.0	AgC	Greene, PA	Allegheny silt loam, 8 to 15 percent slopes	0.0	1.2	0.0	0.0	0.0	0.0	1.2	1.2	1.2
1.8	1.8	0.0	DaC	Greene, PA	Dekalb channery loam, 8 to 15 percent slopes	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5
1.8	1.9	0.0	DaF	Greene, PA	Dekalb channery loam, 35 to 65 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.7

							NDIX N-9 h 30, 2017))						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky		Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.9	2.0	0.1	AgB	Greene, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	0.0
2.0	2.1	0.1	DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	1.6	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
2.1	2.1	0.0	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.1	2.1	0.1	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	3.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	0.0
2.1	2.2	0.0	WeD	Greene, PA	Westmorel and silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
2.2	2.3	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8
2.3	2.3	0.0	W	Greene, PA	Water	-	-	-	-	-	-	-	-	-
2.4	2.5	0.1	DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
2.6	2.6	0.0	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.6	2.6	0.0	BoB	Greene, PA	Brooke silty clay loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
2.6	2.7	0.1	DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5
2.7	2.8	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
2.8	2.8	0.0	GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	1.5	0.0	0.0	0.0	0.0	0.0	1.5	1.5	0.0

							NDIX N-9 h 30, 2017))						
				Soil	s and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
2.8	3.0	0.1	DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
ц Ц	240 0	ipeline			SUBTOTAL	10.6	8.7	0.8	0.8	0	0.8	37.9	30.1	45.2
п- 0.0	0.1	0.1	GuB	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes	1.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0
0.1	0.1	0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
0.1	0.2	0.1	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	1.5	0.0	0.0	0.0	0.0	1.5	0.0	0.0
0.2	0.2	0.0	CuD	Allegheny, PA	Culleoka- Dormont- Urban land complex, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.2	3.2	3.2
0.2	0.3	0.1	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
0.4	0.7	0.3	GuC	Allegheny, PA	Guernsey silt loam, 8 to 15 percent slopes	0.0	15.6	0.0	0.0	0.0	0.0	15.6	0.0	0.0
0.7	0.7	0.0	GuD	Allegheny, PA	Guernsey silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
0.9	0.9	0.0	SmD	Allegheny, PA	Strip mines, 8 to 25 percent slopes Strip	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.6
1.0	1.0	0.0	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9

							NDIX N-9 ch 30, 2017))						
				Soil	s and Soil Limitation Crosse	ed by the	-	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmlanc <u>a</u> /	Farmland of Statewide I Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.1	1.1	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	1.2	0.0	1.2	1.2	1.2
1.1	1,.1	0.0	SmB	Allegheny, PA	Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
1.3	1.3	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	3.5	0.0	3.5	3.5	3.5
1.3	1.3	0.0	CwC	Allegheny, PA	Culleoka- Westmorel and silt loams, 8 to 15 percent slopes	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	0.5
1.3	1.5	0.2	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes Allegheny	4.8	0.0	0.0	0.0	0.0	0.0	0.0	4.8	4.8
1.5	1.7	0.2	AgB	Allegheny, PA	Allegheny silt loam, 3 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	9.3	9.3	0.0
1.7	1.7	0.0	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	4.5	0.0	4.5	4.5	4.5
1.7	1.8	0.1	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	2.1	0.0	0.0	0.0	0.0	0.0	0.0	2.1	2.1
1.8	1.9	0.1	SmF	Allegheny, PA	Strip mines, 25 to 75 percent slopes	0.0	0.0	0.0	0.0	1.4	0.0	1.4	1.4	1.4

						IS APPEI sed Marc	NDIX N-9 h 30, 2017))						
				Soils	and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
1.9	1.9	0.0	SmB	Allegheny, PA	Strip mines, 0 to 8 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	2.4	2.4	2.4
1.9	2.2	0.3	SmD	Allegheny, PA	Strip mines, 8 to 25 percent slopes Strip	0.0	0.0	0.0	0.0	4.6	0.0	0.0	4.6	4.6
2.2	2.3	0.1	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
2.3	2.3	0.0	RaB	Allegheny, PA	Rayne silt loam, 3 to 8 percent slopes	1.6	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
2.3	2.3	0.0	GQF	Allegheny, PA	Gilpin- Upshur complex, very steep	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
2.3	2.4	0.1	URB	Allegheny, PA	Urban land- Rainsboro complex, gently sloping	0.0	0.0	0.0	0.0	0.0	0.0	2.6	0.0	0.0
2.4	2.5	0.1	RaA	Allegheny, PA	Rainsboro silt loam, 0 to 3 percent slopes	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
2.5	2.6	0.1	W		Water	-	-	-	-	-	-	-	-	-
2.6	2.7	0.1	Us	Washington, PA	Udorthents , smoothed	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.7	2.8	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
2.8	2.9	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	1.3	0.0	0.0	0.0	0.0	1.3	1.3	1.3
2.9	3.0	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
3.0	3.1	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	5.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0

							NDIX N-9 h 30, 2017)							
				Soils	s and Soil Limitation Crosse	d by the	Equitrans	Expar	nsion Pro	ject in	Acres			
Start MP	End MP	Distance (mile)	Map Unit Symbol	County	Soil Name	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /			Rocky	Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
3.1	3.2	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4
3.2	3.2	0.0	WeB	Washington, PA	Westmorel and silt loam, 3 to 8 percent slopes	1.5	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5
3.2	3.2	0.0	WeC	Washington, PA	Westmorel and silt loam, 8 to 15 percent slopes	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5	0.5
3.2	3.3	0.1	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
3.3	3.3	0.0	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.6	0.6
3.3	3.3	0.0	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.5	0.0	0.0	0.0	0.0	1.5	1.5	1.5
3.3	3.3	0.0	DtF	Washington, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
3.3	3.4	0.1	CaC	Washington, PA	Calvin silt loam, 8 to 15 percent slopes	0.0	2.2	0.0	0.0	0.0	0.0	2.2	2.2	2.2
3.4	3.4	0.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
3.4	3.5	0.1	DoC	Washington, PA	Dormont silt loam, 8 to 15 percent slopes	0.0	1.6	0.0	0.0	0.0	0.0	1.6	1.6	1.6
3.5	3.5	0.0	CaD	Washington, PA	Calvin silt loam, 15 to 25 percent slopes	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
3.5	3.6	0.1	CaB	Washington, PA	Calvin silt loam, 3 to 8 percent slopes	0.0	1.4	0.0	0.0	0.0	0.0	1.4	1.4	1.4
3.7	3.8	0.1	Fa	Washington, PA	Fairplay (marl) silt loam	0.0	0.0	0.8	0.8	0.0	0.8	0.0	0.0	0.8

					=	DEIS APPEI evised Marc)						
	End MP	Distance (mile)	Map Unit Symbol		and Soil Limitation Cros	Prime	Farmland of Statewide	Hydric	Shallow c Depth to	Stony/ Rocky	Poor Drainage	Erosion	Soils Prone to Compaction <u>g</u> /	vegetation
3.8	3.8	0.0	WeD	Washington, PA	Westmorel and silt loam, 15 t 25 percent slopes	to 0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
					SUBTOT	AL 13.6	31.7	0.8	0.8	15.8	0.8	75.2	69.4	66.4
Н-:	319 Pi	ipeline												
0.0	0.0	0.0	Sk	Wetzel. WV	Skidmore gravelly loam	0.0	1.1	0.0	0.0	1.1	0.0	0.0	0.0	0.0
				SUI	BTOTAL 0.0	1.1		0.0	0.0	1.1	0.0	0.0	0.0	0.0
USDA	, 2015	5a; 2015b												
Note:	Totals	may not su	um correc	tly due to roundi	ng.									
<u>a/</u> criteria		eas identifie etermined b			farmland of statewide importance	are identified a	is lands that m	neet the	"all prime fa	armland"	or "farmland	l of statewic	le and local imp	ortance"
<u>g/</u> detern		eas identifie by SSURG		e a severe comp	action potential are limited to silt lo	oam or finer ba	sed on particle	e size ar	nd ranked "s	somewha	t poor," "poo	or," and "ver	y poor" drainag	e as
<u>f/</u>	Are	eas identifie	ed as high	ly water erodible	e soils are ranked as "very severe"	or "severe" by	SSURGO ero	osion ha	zard (Off-R	oad, Off-	Frail) criteria	l.		
<u>h/</u> detern		eas identifie by SSURG		e poor revegetati	ion potential are lands that have a	Capability Clas	ss 3 or greate	r, a low a	available wa	ater capa	city and slop	oes greater	than 8 percent a	as
<u>b/</u>	Are	eas identifie	ed to have	a hydric rating	include the all and partial criteria a	s determined b	y SSURGO.							
<u>e/</u>	Are	eas identifie	ed to have	e poor drainage	potential are ranked as "poor" or "v	ery poor" as de	etermined by S	SSURG	0.					
<u>d/</u>	Are	eas identifie	ed to have	e stony/rocky soi	ils are soils that as determined by	SSURGO. Inc	lude stone, ro	cky or co	obbles in the	e soil nan	ne (does no	t include roo	ck outcrops).	

Attachment Soils-3

- Table 4.2.1-2Soil Limitations along the Equitrans Expansion Project in Acres
- Appendix N-10 Soils and Soil Limitation at the Equitrans Expansion Project Aboveground Facilities in Acres
- Appendix N-11 Soils and Soil Limitations at the Equitrans Expansion Project Additional Temporary Workspaces in Acres
- Appendix N-12 Soils and Soil Limitations at the Equitrans Expansion Project Access Roads in Acres
- Appendix N-13 Soils and Soil Limitations at the Equitrans Expansion Project Contractor Yards and Staging Areas in Acres

(Track Changes and Changes Accepted)

DEIS TABLE 4.2.1-2 (Revised March 30, 2017)

						Soi	I Limitations a	long the Equitra	ans Expa	nsion Project	in Acres <u>a/</u>							
Facility <u>b/</u>	Water Erosic	n Potential <u>c/</u>		Erosion ntial <u>d/</u>	Prime Fa	rmland <u>e/</u>	Farmland o Importa	f Statewide ance <u>e/</u>	Hydri	c Soils <u>e/</u>	Compaction	n Potential <u>f/</u>	Stony / Ro	cky Soils <u>e/</u>	Revegetation	n Potential <u>g/</u>		Drainage ential <u>e/</u>
	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp
H-305 Pipeline	0.56 0.6	0.46 1.83	0	0	0	0	0.55 0.6	0.46 1.83	0	0	0.56 0.66	1.67 3.88	0	0	0.61 0.66	1.85 3.88	0	0
H-316 Pipeline	10.87 11.18	19.90 33.50	0	0	2.76 3.07	5.15 10.47	3.76	7.25 8.61	0.26	0.32 0.54	9.72 10.05	11.57 27.80	0.34 0.26	0.57 0.54	18.20 12.91	32.80 53.2	0.26	0.32 0.54
H-318 Pipeline	16.62 17.62	43.82 89.44	0	0	4.67 4.94	7.31 13.60	6.22 6.26	17.67 38.14	0.26	0.26 0.54	15.62 10.20	36.27 84.82	2.89 6.14	1.73 10.39	19.14 5.58	49.21 96.17	0.26	0.26 0.54
H-319 Pipeline	0	0	0	0	0	0	0.29 0.63	0.53 0.84	0	0	0	0	0.29 0.63	0.53 0.84	0	0	0	0
H-158/M-80 Pipelines	1.73 2.85	2.87 5.58	0	0	0.69	0.76	0.38 1.45	1.58 1.80	0	0	0.79 0.85	4 .18 7.03	0	0.25	2.30 5.67	4 .72 7.66	0	0
Pratt Compressor Station	1.45	0	0	0	5.95	0	0.08	0	0	0	6.0 <mark>43</mark>	0	0	0	1.53	0	0	0
Redhook Compressor Station	24.88 9.19	0 18.72	0	0	15.26 7.09	0 8.33	7.89 1.94	0.92 6.9	0	0	17.65 7.2	0 3.42	0	0	11.00 6.46	1.50 17.15	0	0
Webster Interconnect	0	0.02 0.04	0	0	0	0	0.82 0.83	1.26 3.41	0	0	0	0	0.82 0.83	1.28 3.41	0	0.02 0	0	0
Mobley Tap Site (H-306)	0	0	0	0	0	0	0.72 0.5	1.14 2.7	0	0	0	0	0.720 0.5	1.14 2.7	0	0	0	0
Applegate L/R Site	0.40 0.39	0	0	0	0.40 0.39	0	0	0	0	0	0.40 0.39	0	0	0	0.40 0.39	0	0	0
Hartson L/R Site (H-148)	0.08	0	0	0	0	0	0	0	0	0	0.08	0	0	0	0.09	0	0	0
H-302 Tap L/R Site	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0
Subtotal	43.36 56.59	149.11 67.07	0	0	22.13 29.73	33.16 13.22	16.05 20.71	64.23 30.81	0.52	1.08 0.58	35.46 50.86	126.95 53.69	8.36 5.06	18.16 5.25	33.4 53.38	178.06 90.1 0	0.52 0.52	1.08 0.58
Total Acres	123.60	192.47		0	4 <u>2.9</u> 5	55.29	51.52	80.31	4	.1 1.6	104.5	5162.41	10.3 4	26.52	143.48	211.46	4.4	.41.6

Source: USDA, 2015a; 2015b

Note: The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding

a/ The soil limitation impacts presented are the total impacts due to construction and operation of the EEP.

b The list of facilities includes the associated access roads, additional temporary workspaces, yards, and staging areas in the acreage calculations for each facility.

c/ Based on K factor for the whole soil (Kw), the representative slope, and the non-irrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Non-irrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

d/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

e/ As designated by the NRCS.

<u>f/</u> Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles. <u>g/</u> Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Non-irrigated Capability Class of 3 or higher).

DEIS TABLE 4.2.1-2 (Revised March 30, 2017)

Facility <u>b/</u>	Water Erosic	on Potential <u>c/</u>		Erosion ntial <u>d/</u>	Prime Fa	rmland <u>e/</u>	Farmland o Importa		Hydric	Soils <u>e/</u>	Compactior	n Potential <u>f/</u>	Stony / Ro	cky Soils <u>e/</u>	Revegetation	n Potential <u>g/</u>		Drainage ntial <u>e/</u>
	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp	Perm	Temp
H-305 Pipeline	0.6	1.83	0	0	0	0	0.6	1.83	0	0	0.66	3.88	0	0	0.66	3.88	0	0
H-316 Pipeline	11.18	33.50	0	0	3.07	10.47	3.76	8.61	0.26	0.54	10.05	27.80	0.26	0.54	12.91	53.2	0.26	0.54
H-318 Pipeline	17.62	89.44	0	0	4.94	13.60	6.26	38.14	0.26	0.54	10.20	84.82	6.14	10.39	5.58	96.17	0.26	0.54
H-319 Pipeline	0	0	0	0	0	0	0.63	0.84	0	0	0	0	0.63	0.84	0	0	0	0
H-158/M-80 Pipelines	2.85	5.58	0	0	0.69	0.76	1.45	1.80	0	0	0.85	7.03	0	0.25	5.67	7.66	0	0
Pratt Compressor Station	1.45	0	0	0	5.95	0	0.08	0	0	0	6.03	0	0	0	1.53	0	0	0
Redhook Compressor Station	9.19	18.72	0	0	7.09	8.33	1.94	6.9	0	0	7.2	3.42	0	0	6.46	17.15	0	0
Webster Interconnect	0	0.04	0	0	0	0	0.83	3.41	0	0	0	0	0.83	3.41	0	0	0	0
Mobley Tap Site (H-306)	0	0	0	0	0	0	0.5	2.7	0	0	0	0	0.5	2.7	0	0	0	0
Applegate L/R Site	0.39	0	0	0	0.39	0	0	0	0	0	0.39	0	0	0	0.39	0	0	0
Hartson L/R Site (H-148)	0.08	0	0	0	0	0	0	0	0	0	0.08	0	0	0	0.09	0	0	0
H-302 Tap L/R Site	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.11	0	0	0
Subtotal	43.36	149.11	0	0	22.13	33.16	16.05	64.23	0.52	1.08	35.46	126.95	8.36	18.16	33.4	178.060	0.52	1.08
Total Acres	19	2.47		0	55	.29	80	.31		1.6	162	2.41	26	.52	21 [.]	1.46	1	1.6

Note: The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding

<u>a/</u> The soil limitation impacts presented are the total impacts due to construction and operation of the EEP.

b The list of facilities includes the associated access roads, additional temporary workspaces, yards, and staging areas in the acreage calculations for each facility.

c/ Based on K factor for the whole soil (Kw), the representative slope, and the non-irrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Non-irrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

d/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

e/ As designated by the NRCS.

<u>f/</u> Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles. <u>g/</u> Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Non-irrigated Capability Class of 3 or higher).

							APPENDIX N d March 30, 2								
			Soils and	I Soil Limita	tion at the E	quitrans	Expansion P	Project Aboveg	round Fac	ilities in Acres					
Soil Map Unit Symbol	County	Soil Map Unit Name	Tempora Acres	ry Impact % of Site	Permanen Acres	t Impact % of Site	Prime Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /	Hydric Soils <u>b</u> /	Shallow Depth to Groundwater <u>c</u> /	Stony/ Rocky Soils <u>d</u> /	Poor Drainage Potential <u>e</u> /	Soils Prone to Erosion by Water <u>f</u> /	Soils Prone to Compaction g/	Poor Revegetation Potential <u>h</u> /
Pratt Com	pressor Station														
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.61 1.45	21	1.61 1,45	21	0	0	0	0	0	0	1. 61 45	0	1. 614 5
Hu	Greene, PA	Huntington silt loam	5.96 5.95	78	5.96 5.95	78	6 5.95	0	0	0	0	0	0	5.9 <mark>65</mark>	0
Nw	Greene, PA	Newark silt loam	0.1 0.08	1	0.1 0.08	1	0	0	0	0	0	0	0	0. <mark>408</mark>	0. <mark>08</mark> 4
W	Greene, PA	Water	0.01	<0.01	0.01	<0.01	0	0	-	-	-	-	-	-	-
		SUBTOTAL	7.49		7.49		5.95	0	0	0	0	0	1.45	6.03	1.53
Redhook	Compressor Stati	on													
DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	3.08 3.07	17 9	3.08 2.58	17 9	0 5.65	3 0	0	0	0	0	3.08 5.65	0	0
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.68 1.56	9 4	1.68 0.16	9 4	0	0	0	0	0	0	1.68 1.72	0	1.68 1.72
DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	6 5.98	34 17	6 1.92	34 17	0	6 7.9	0	0	0	0	6 7.9	6 7.9	6 7.9
DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.14	4<0.01	0.14 0	1 0	0	0	0	0	0	0	0	0.14	0.14
DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	1.35 1.81	8 <0.01	1.35 0	80	0	0	0	0	0	0	0	0	1.81
GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	5.5 5.26	31 15	5.5 4.35	31 15	6 9.61	0	0	0	0	0	5.5 9.61	0	0 9.61
Nw	Greene, PA	Newark silt loam	0.9	<0.01	0	0	0	0	0	0	0	0	0	0.9	0.9
		SUBTOTAL	18.72		9.01		15.26	7.9	0	0	0	0	24.88	8.94	22.08
Webster I	nterconnect														
GpF	Wetzel, WV	Gilpin- Peabody complex, 35 to 70 percent slopes	0.02	<0.01	0.0 2	<0.01	0	0	0	0	0	0	0.02	0	0.02
Sk	Wetzel, WV	Skidmore gravelly loam	2.46 2.11	>99 71	2.46 0.82	>99 28	0	2 2.93	0	0	2.46 2.93	0	0	0	0
		SUBTOTAL	2.13		0.82		0	2.93	0	0	2.93	0	0.02	0	0.02
Mobley Ta	ap Site (H-306)														
Sk	Wetzel, WV	Skidmore gravelly loam	0.5 1.63	100 77	0.5	100 23	0	1 2.13	0	0	0.5 2.13	0	0	0	0
		SUBTOTAL	1.63		0.5		0	2.13	0	0	2.13	0	0	0	0
Applegate	e L/R Site														
Gub	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes SUBTOTAL	0.39 0 0	100 0	0.39 <mark>0.39</mark>	100	0	0	0	0	0	0	0.39 <mark>0.39</mark>	0.39 0.39	0
Hartson L	./R Site (H-148)		Ť												
	Washington, PA	Westmorel and silt loam, 15 to 25 percent slopes	0.11 0	100 0	0.11 0.08	100	0	0	0	0	0	0	0.11 0.08	0.11 0.08	0.11 0.08
		SUBTOTAL	0		0.08								0.08	0.08	0.08
H-302 Tap	D L/R Site	-													
DtF	Greene, PA	Dormont-Culleoka complex, 25 to 50 percent slopes	0.33 0	100 0	0.33 0.11	100	0	0	0	0	0	0	0	0	0.33 0.11
		SUBTOTAL	0		0.11		0	0	0	0	0	0	0	0	0.11

USDA, 2015a; 2015b

Note: Totals may not sum correctly due to rounding.

Note: Includes acreages for associated Yards, Roads, and ATWS.

<u>a/</u> Areas identified as prime farmland and farmland of statewide importance are identified as lands that meet the "all prime farmland" or "farmland of statewide and local importance" criteria as determined by NRCS, SSURGO. <u>bg/</u> Areas identified to have a severe compaction potential are limited to silt loam or finer based on particle size and ranked "somewhat poor," "poor," and "very poor" drainage as determined by SSURGO.

<u>ef/</u> Areas identified as highly water erodible soils are ranked as "very severe" or "severe" by SSURGO erosion hazard (Off-Road, Off-Trail) criteria.

d/ Areas identified as highly wind erodible soils have a wind erodibility index of 1 or 2 as determined by SSURGO.

eh/ Areas identified to have poor revegetation potential are lands that have a Capability Class 3 or greater, a low available water capacity and slopes greater than 8 percent as determined by SSURGO.

<u>**(b)</u>** Areas identified to have a hydric rating include the all and partial criteria as determined by SSURGO.</u>

<u>ge/</u> Areas identified to have poor drainage potential are ranked as "poor" or "very poor" as determined by SSURGO.

<u>hd/</u> Areas identified to have stoneystony/rocky soils are soils that as determined by SSURGO. Include stone, rocky or cobbles in the soil name (does not include rock outcrops).

							APPENDIX N d March 30, 2								
			Soils an	d Soil Limita	tion at the I	Equitrans	Expansion P	Project Aboveç	round Fac	ilities in Acres					
Soil Map Unit Symbol	County	Soil Map Unit Name	Tempor Acres	ary Impact % of Site	Permane	nt Impact % of Site	Farmland <u>a</u> /	Farmland of Statewide Importance <u>a</u> /	Hydric Soils <u>b</u> /	Shallow Depth to Groundwater c/	Stony/ Rocky Soils d/	Poor Drainage Potential <u>e</u> /	Soils Prone to Erosion by Water <u>f</u> /	Soils Prone to Compaction g/	Poor Revegetation Potential <u>h</u> /
-	npressor Station		/10/00	// 01 010	/ (0,00	0.10	<u>3</u>	<u>نه</u>	0010 0	<u>5</u>	<u>5</u>	1 010111101 <u>0</u> ,	by Water <u>v</u>	Compaction g	1 0tornitar <u>n</u> /
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.45	21	1,45	21	0	0	0	0	0	0	1.45	0	1.45
Hu	Greene, PA	Huntington silt loam	5.95	78	5.95	78	5.95	0	0	0	0	0	0	5.95	0
Nw	Greene, PA	Newark silt loam	0.08	1	0.08	1	0	0	0	0	0	0	0	0.08	0.08
W	Greene, PA	Water	0.00	<0.01	0.00	-0.01	0	0	-	-	-	-	-	-	-
••	Greene, i A	SUBTOTAL	7.49	<0.01	7.49	NO.01	5.95	0	0	0	0	0	1.45	6.03	1.53
Redhook	Compressor Stati		7.10		7.10		0.00	Ŭ	Ŭ	0	Ū	Ū	1.10	0.00	1.00
DaB	Greene, PA	Dekalb channery loam, 3 to 8 percent slopes	3.07	9	2.58	9	5.65	0	0	0	0	0	5.65	0	0
DaD	Greene, PA	Dekalb channery loam, 15 to 25 percent slopes	1.56	4	0.16	4	0	0	0 0	0	0	0	1.72	0	1.72
DoC	Greene, PA	Dormont silt loam, 8 to 15 percent slopes	5.98	17	1.92	17	0	7.9	0	0	0	0	7.9	7.9	7.9
DtD	Greene, PA	Dunmore channery silt loam, 15 to 25 percent slopes	0.14	<0.01	0	0	0	0	0	0	0	0	0	0.14	0.14
DtF	Greene, PA	Dormont- Culleoka complex, 25 to 50 percent slopes	1.81	<0.01	0	0	0	0	0	0	0	0	0	0	1.81
GdB	Greene, PA	Glenford silt loam, 3 to 8 percent slopes	5.26	15	4.35	15	9.61	0	0	0	0	0	9.61	0	9.61
Nw	Greene, PA	Newark silt loam	0.9	<0.01	0	0	0	0	0	0	0	0	0	0.9	0.9
		SUBTOTAL	18.72		9.01		15.26	7.9	0	0	0	0	24.88	8.94	22.08
Webster	Interconnect														
GpF	Wetzel, WV	Gilpin- Peabody complex, 35 to 70 percent slopes	0.02	<0.01	0.0	<0.01	0	0	0	0	0	0	0.02	0	0.02
Sk	Wetzel, WV	Skidmore gravelly loam	2.11	71	0.82	28	0	2.93	0	0	2.93	0	0	0	0
		SUBTOTAL	2.13		0.82		0	2.93	0	0	2.93	0	0.02	0	0.02
Mobley T	ap Site (H-306)														
Sk	Wetzel, WV	Skidmore gravelly loam	1.63	77	0.5	23	0	2.13	0	0	2.13	0	0	0	0
		SUBTOTAL	1.63		0.5		0	2.13	0	0	2.13	0	0	0	0
Applegate	e L/R Site														
Gub	Allegheny, PA	Guernsey silt loam, 3 to 8 percent slopes SUBTOTAL	0 0	0	0.39 0.39	100	0	0	0	0	0	0	0.39 0.39	0.39 0.39	0
Hartson I	_/R Site (H-148)	CODICINE	Ū		0.00								0.00	0.00	
WeD	Washington, PA	Westmorel and silt loam, 15 to 25 percent slopes	0	0	0.08	100	0	0	0	0	0	0	0.08	0.08	0.08
		SUBTOTAL	0		0.08								0.08	0.08	0.08
H-302 Tai	p L/R Site		c .												
DtF	Greene, PA	Dormont-Culleoka complex, 25 to 50 percent slopes	0	0	0.11	100	0	0	0	0	0	0	0	0	0.11
		SUBTOTAL	0		0.11		0	0	0	0	0	0	0	0	0.11
11604 30			-				-	-	-	-	-	-	-	-	

USDA, 2015a; 2015b

Note: Totals may not sum correctly due to rounding.

Note: Includes acreages for associated Yards, Roads, and ATWS.

<u>a/</u> Areas identified as prime farmland and farmland of statewide importance are identified as lands that meet the "all prime farmland" or "farmland of statewide and local importance" criteria as determined by NRCS, SSURGO. <u>g/</u> Areas identified to have a severe compaction potential are limited to silt loam or finer based on particle size and ranked "somewhat poor," "poor," and "very poor" drainage as determined by SSURGO. <u>f/</u> Areas identified as highly water erodible soils are ranked as "very severe" or "severe" by SSURGO erosion hazard (Off-Road, Off-Trail) criteria.

h/ Areas identified to have poor revegetation potential are lands that have a Capability Class 3 or greater, a low available water capacity and slopes greater than 8 percent as determined by SSURGO.

<u>b/</u> Areas identified to have a hydric rating include the all and partial criteria as determined by SSURGO.

<u>e/</u> Areas identified to have poor drainage potential are ranked as "poor" or "very poor" as determined by SSURGO.

d/ Areas identified to have stony/rocky soils are soils that as determined by SSURGO. Include stone, rocky or cobbles in the soil name (does not include rock outcrops).

							S APPENDIX N-11 ised March 30, 2017)						
				Soils and	Soil Limitations	at the Equitrans Ex	pansion Project Add	itional Temporary	Workspaces in A	cres			
		Total	Slopes >15	Designate	d Farmland c/		Shallow Depth to	Stony / Rocky	Poor Drainage	Soils Prone	to Erosion	Soils Prone to Soil	Poor
Facility a/	County	Area (acres)	percent b/ (acres)	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Groundwater d/ (acres)	Soils d/ (acres)	Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Compaction g/ (acres)	Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	1.01	0.82	0	0.19	0	0	0	0	0.19	0	1.01 1.0	1.01 1.0
H-316 Pipeline	Greene/PA	20.43	14.17	2.21 2.26	1.03	0	0	0	0	4.38 4.44	0	2.95 4.21	14.73 14.69
H-318 Pipeline	Allegheny, Washington/PA	44.44	7.39	3.61 3.25	12.06 12.27	0.01	0.01	0	0.01	18.81 29.47	0	10.30 17.22	11.04 26.62
H-319 Pipeline	Wetzel/WV	0.3 4	θ	0	0.09	0	0	0.09	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	3.87	0.05	0	0.48	0	0	0	0	0	0	0.48	0.53
Pratt Compressor Station	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	1.50	θ	0	0.92	0	0	0	0	0	0	1.50	1.50
Webster Interconnect	Wetzel/WV	1.55	0.02	0	1.53 1.18	0	0	0.02 1.18	0	0.02	0	1.53 0	0.02
Mobley Tap Site (H-306)	Wetzel/WV	0.11	θ	0	0.11 1.07	0	0	0.11 1.07	0	0	0	0.11 0	0
Applegate L/R Site	Allegheny/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	Φ	θ	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
	Total Acres	73.25	22.45	5.82 5.51	16.41 17.23	0.01	0.01	0.22 2.34	0.01	23.40 34.12	0	17.88 24.41	28.83 44.36
Percent of Total Acres			31%	8%	22%	0.01%	0.04%	0%	0.01%	32%	0%	24%	39%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher). Sources: Soil Survey Staff 2015a, 2015b

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					IS APPENDIX N-11 vised March 30, 2017)						
		Soils	and Soil Limitation	s at the Equitrans Ex	pansion Project Add	itional Temporary	Workspaces in A	cres			
		Designated	Farmland c/		Shallow Depth to	Stony / Rocky	Poor Drainage	Soils Prone	to Erosion	Soils Prone to Soil	Poor
Facility a/	County	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Groundwater d/ (acres)	Soils d/ (acres)	Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Compaction g/ (acres)	Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	0	0.19	0	0	0	0	0.19	0	1.0	1.0
H-316 Pipeline	Greene/PA	2.26	1.03	0	0	0	0	4.44	0	4.21	14.69
H-318 Pipeline	Allegheny, Washington/PA	3.25	12.27	0.01	0.01	0	0.01	29.47	0	17.22	26.62
H-319 Pipeline	Wetzel/WV	0	0.09	0	0	0.09	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	0	0.48	0	0	0	0	0	0	0.48	0.53
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	0	0.92	0	0	0	0	0	0	1.50	1.50
Webster Interconnect	Wetzel/WV	0	1.18	0	0	1.18	0	0.02	0	0	0.02
Mobley Tap Site (H- 306)	Wetzel/WV	0	1.07	0	0	1.07	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H- 148)	Washington/PA	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0
	Total Acres	5.51	17.23	0.01	0.01	2.34	0.01	34.12	0	24.41	44.36

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/ Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/ Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

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DEIS APPENDIX N-12

						D	EIS APPENDIX N-12						
						(Re	evised March 30, 2017)						
					Soils and Soil L	imitations at the I	Equitrans Expansion I	Project Access Roa	ads in Acres				
		Tatal	01	Designate	ed Farmland c/				De un Ducine de	Soils Prone	to Erosion		Poor
Facility a/	County	Total Area (acres)	Slopes >15 percent b/ (acres)	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Shallow Depth to Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Soils Prone to Soil Compaction g/ (acres)	Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	0.52	0.34	0	0	0	0	0	0	0.34	0	0.34	0.34
H-316 Pipeline	Greene/PA	3.43	1.47	0.68	0.63 0.82	0	0	0	0	2.15 2.34	0	1.44 1.72	2.41 4.40
H-318 Pipeline	Allegheny, Washington/PA	3.80	0.75	0.76 1.32	0.44 0.31	0	0	0.14 0.79	0	1.20 2.02	0	1.46 2.54	1.52 3.29
H-319 Pipeline	Wetzel/WV	0.02	θ	0	0.02	0	0	0.02	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	0.49	0.23	0	0.13 0.26	0	0	0	0	0.35 0.22	0	0.35 0.48	0.36 0.49
Pratt Compressor Station	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	θ	θ	0 0.16	0 0.02	0	0	0	0	0 0.18	0	0 0.18	0 0.03
Webster Interconnect	Wetzel/WV	0.12	θ	0	0.12	0	0	0.12	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	θ	θ	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
	Total Acres	8.38	2.79	1.44 2.16	1.3 41.55	0.00	0.00	0.28 0.93	0.00	4 .0 45.1	0	3.59 5.26	4 .63 8.55
Percent of Total Acres			33%	17%	16%	0.00%	0.00%	3%	0.00%	4 8%	0%	43%	55%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles. h/Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher). Sources: Soil Survey Staff 2015a, 2015b

				D	EIS APPENDIX N-12						
				(Re	evised March 30, 2017)					
			Soils and Soil L	imitations at the E	Equitrans Expansion	Project Access Ro	ads in Acres				
		Desigr	nated Farmland c/		Shallow Depth to	Stony / Rocky	Poor Drainage	Soils Prone	e to Erosion	Soils Prone to Soil	Poor
Facility a/	County	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Groundwater d/ (acres)	Soils d/ (acres)	Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Compaction g/ (acres)	Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	0	0	0	0	0	0	0.34	0	0.34	0.34
H-316 Pipeline	Greene/PA	0.68	0.82	0	0	0	0	2.34	0	1.72	4.40
H-318 Pipeline	Allegheny, Washington/PA	1.32	0.31	0	0	0.79	0	2.02	0	2.54	3.29
H-319 Pipeline	Wetzel/WV	0	0.02	0	0	0.02	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	0	0.26	0	0	0	0	0.22	0	0.48	0.49
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	0.16	0.02	0	0	0	0	0.18	0	0.18	0.03
Webster Interconnect	Wetzel/WV	0	0.12	0	0	0.12	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0
	Total Acres	2.16	1.55	0.00	0.00	0.93	0.00	5.1	0	5.26	8.55

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

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							DEIS APPENDIX N-13						
						(F	Revised March 30, 201	7)					
				Soils and	Soil Limitations	s at the Equitrans	Expansion Project Co	ontractor Yards and	Staging Areas in	Acres			
		Total	Slopes >15	Designated Farmland c/			Ohellen Derth (e	Of a must / Dia a line	De un Decimento	Soils Prone to Erosion		Ocile Dreve (c. Ocil	De en Deve netetion
Facility a/	County	Area (acres)	percent b/ (acres)	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Shallow Depth to Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Soils Prone to Soil Compaction g/ (acres)	Poor Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	θ	0	0	0	0	0	0	0	0	0	0	0
H-316 Pipeline	Greene/PA	1.82	θ	0	1.82	0	0	0	0	0	0	1.82	1.82
H-318 Pipeline	Allegheny, Washington/PA	6.21	2.19	0.37	0.12	0	0	0	0	0.37	0	3.41 5.86	5.84
H-319 Pipeline	Wetzel/WV	0.25	θ	0	0.25	0	0	0 0.25	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	3.3 4	1.88	0.00 0.76	0.71	0	0	0	0	1.45 2.21	0	2.16 2.92	2.59
Pratt Compressor Station	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Webster Interconnect	Wetzel/WV	θ	θ	0	0	0	0	0	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	θ	θ	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	θ	θ	0	0	0	0	0	0	0	0	0	0
	Total Acres	11.62	4. 07	0.37 1.13	2.90 2.9	0	0	0 0.25	0	1.82 2.58	0	7.39 10.60	10.25
Percent of Total Acres			35%	3%	25%	0%	0%	0%	0%	16%	0%	64%	88%

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher). Sources: Soil Survey Staff 2015a, 2015b

				I	DEIS APPENDIX N-13						
				(F	Revised March 30, 2017)					
		Soils a	and Soil Limitation	s at the Equitrans	Expansion Project Co	ntractor Yards and	Staging Areas in	Acres			
		Designated Farmland c/			Shallow Depth to	Stony / Dealer	De en Dreine ne	Soils Prone to Erosion		Osila Dasas (s. Osil	Beer Deve setation
Facility a/	County	Prime (acres)	Statewide Importance (acres)	Hydric Soils d/ (acres)	Groundwater d/ (acres)	Stony / Rocky Soils d/ (acres)	Poor Drainage Potential d/ (acres)	By Water e/ (acres)	By Wind f/ (acres)	Soils Prone to Soil Compaction g/ (acres)	Poor Revegetation Potential h/ (acres)
H-305 Pipeline	Greene/PA	0	0	0	0	0	0	0	0	0	0
H-316 Pipeline	Greene/PA	0	1.82	0	0	0	0	0	0	1.82	1.82
H-318 Pipeline	Allegheny, Washington/PA	0.37	0.12	0	0	0	0	0.37	0	5.86	5.84
H-319 Pipeline	Wetzel/WV	0	0.25	0	0	0.25	0	0	0	0	0
H-158/M-80 Pipelines	Greene/PA	0.76	0.71	0	0	0	0	2.21	0	2.92	2.59
Pratt Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0
Redhook Compressor Station	Greene/PA	0	0	0	0	0	0	0	0	0	0
Webster Interconnect	Wetzel/WV	0	0	0	0	0	0	0	0	0	0
Mobley Tap Site (H-306)	Wetzel/WV	0	0	0	0	0	0	0	0	0	0
Applegate L/R Site	Allegheny/PA	0	0	0	0	0	0	0	0	0	0
Hartson L/R Site (H-148)	Washington/PA	0	0	0	0	0	0	0	0	0	0
H-302 Tap L/R Site	Greene/PA	0	0	0	0	0	0	0	0	0	0
	Total Acres	1.13	2.9	0	0	0.25	0	2.58	0	10.60	10.25

* The values in each row do not necessarily add up to the total acreage for each facility, because of minor rounding or mapping inconsistencies.

a/ The list of facilities includes the associated access roads, additional temporary workspaces, contractor yards, and staging areas in the acreage calculations for each facility. However, the additional temporary workspaces, access roads, contractor yards and staging areas are also reported separately.

b/ Soils characterized by the NRCS as having representative slopes of 15 percent or greater.

c/ As designated by the NRCS.

d/ As designated by the NRCS.

e/ Based on K factor for the whole soil (Kw), the representative slope, and the nonirrigated land capability rating; a Kw rating of "moderate" was elevated to "high" when associated with steep slopes and when the Nonirrigated Capability Subclass included an "e," which indicates that erosion is a potential hazard for the soil type.

f/ Based on the Wind Erodibility Group scale; soils with a rating of 1 to 4 were ranked with a high potential for erosion due to wind.

g/Based on 1) soils with poor drainage (somewhat poorly drained to poorly drained), 2) a high clay content (greater than 20 percent), or 3) a surface soil texture characterized as sandy clay loam or dominated by finer particles.

h/Based on soils 1) that have a surface texture of sandy loam or coarser, 2) are somewhat excessively drained to excessively drained, 3) have slopes greater than 15 percent, or 4) have severe limitations (i.e., a Nonirrigated Capability Class of 3 or higher).

Sources: Soil Survey Staff 2015a, 2015b

Attachment Air Quality-1

Table 4.11.1-6Estimated Construction Emissions for the Equitrans Expansion
Project

DEIS TABLE 4.11.1-6 (Revised March 30, 2017)

Emission Source <u>a/</u>		Annual Pollutant Emissions (tpy)								
_	NOx	со	SO ₂	PM ₁₀	PM _{2.5}	VOC	GHG <u>b/</u>			
	Ye	ar 1 Constr	uction Emis	ssions						
H-318 Pipeline (Allegheny and W	ashington (Counties, Po	ennsylvania	ı) <u>c/</u>						
Construction Equipment	1.3	0.9	0.1	0.1	0.1	0.1	313.3			
Commuting Vehicles	0.1	0.3	<0.1	0.4	<0.1	<0.1	34.7			
Fugitive Dust				0.3	0.1					
H-316 Pipeline (Greene County, I	Pennsylvan	ia) <u>c/</u>								
Construction Equipment	1.3	0.9	0.1	0.1	0.1	0.1	310.2			
Commuting Vehicles	0.1	0.3	<0.1	0.4	<0.1	<0.1	34.7			
Fugitive Dust				0.3	0.1					
Mobley Tap (Wetzel County, Wes	t Virginia)									
Fugitive Dust				0.3	0.1					
Redhook Compressor Station, H	-305, H-158	, and M-80 F	Pipelines (G	reene Coun	ty, Pennsyl	vania) <u>c/</u>				
Construction Equipment	1.7	2.9	0.1	0.2	0.2	0.3	451.5			
Commuting Vehicles	<0.1	0.2	<0.1	0.1	<0.1	<0.1	18.9			
Fugitive Dust				0.1	0.1					
Webster Interconnect and H-319	Pipeline (W	etzel Count	y, West Vir							
Construction Equipment	0.7	1.3	<0.1	0.1	0.1	0.8	267.2			
Commuting Vehicles	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	2.6			
Fugitive Dust				0.2	0.1					
Year 1 Total Emissions (tpy)	5.1	6.8	0.2	2.7	1.1	0.7	1,433.1			
		ar 2 Constr	uction Emis				,			
H-318 Pipeline (Allegheny and W										
Construction Equipment	6.5	4.5	0.3	0.6	0.6	0.7	1591.3			
Commuting Vehicles	0.5	1.6	<0.1	2.1	0.2	0.1	366.4			
Fugitive Dust				2.0	0.6					
H-316 Pipeline (Greene County, I	Pennsylvan	ia) c/								
Construction Equipment	6.4	4.4	0.3	0.6	0.6	0.7	1575.8			
Commuting Vehicles	0.5	1.5	<0.1	2.1	0.2	0.1	366.4			
Fugitive Dust				1.9	0.6					
Mobley Tap (Wetzel County, Wes	t Virginia)			-						
Construction Equipment	10.9	12.1	0.8	1.5	1.5	1.7	4,450.3			
Commuting Vehicles	<0.1	0.2	<0.0	3.9	0.4	<0.1	16.4			
Fugitive Dust	NO.1	0.2	NO.1	2.0	0.6	\0.1	10.4			
Redhook Compressor Station, H	-305 H-158	and M-80 F	Pinelines (G			vania)				
Construction Equipment	10.3	17.8	0.5	1.1	1.1	1.6	2,844.6			
Commuting Vehicles	0.2	2.1	<0.5 <0.1	1.1	0.1	0.1	2,844.0			
Fugitive Dust	0.2	2.1	NO.1	1.3	0.1	0.1	190.0			
Webster Interconnect and H-319	Pinelina /M	atzal Court	V West Vir		0.4					
Construction Equipment	3.7	6.7	0.2	9 1114) 0.5	0.5	0.7	1,335.8			
	3.7 <0.1	6.7 0.1	0.2 <0.1	0.5 0.7	0.5 0.1	0.7 <0.1	1,335.8			
Commuting Vehicles	<0.1	0.1	<0.1			<0.1	13.0			
Fugitive Dust	20.2	E4 0	0 4	0.9	0.5	F 7	40 750 4			
Year 2 Total Emissions (tpy)	39.3	51.2	2.1	22.1	7.9	5.7	12,756.0			
Pratt Station Decommissioning (ar 3 Constr		ssions						
	vareene COL	nuv. renns	vivaillat							
Construction Equipment	6.2	12.8	0.4	0.7	0.7	1.1	2,229.3			

DEIS TABLE 4.11.1-6 (Revised March 30, 2017)

Estimated Construction Emissions for the Equitrans Expansion Project

Emission Source <u>a/</u>	Annual Pollutant Emissions (tpy)								
	NOx	СО	SO ₂	PM 10	PM _{2.5}	VOC	GHG <u>b/</u>		
Fugitive Dust				0.6	0.3				
Year 3 Total Emissions (tpy)	6.3	13.7	0.4	1.9	1.1	1.1	2,319.4		

<u>a/</u> Emission sources for each project component are sorted by type of construction activity, as follows: Construction equipment include tailpipe emissions from heavy equipment; Commuting Vehicles include fugitives from on-road and off-road vehicle travel; Fugitive Dust includes fugitive dust from earthmoving fugitives and wind erosion.

b/ GHG includes only CO₂ emissions.

C/ Pipeline emissions are total emissions from all segments covered, including all construction activities pertaining to pipeline installation and associated access roads and facilities, as indicated in the pipeline milepost numbers and/or the pipeline name. H-318 include pipeline construction in two counties in PA [Allegheny (MPs 0.00 to 3.03) and Washington (MPs 3.03 to 4.26)]; H-316 (MPs 0.0 to 2.99), H-305 (MPs 0.0 to 0.10), H-158 (MPs 0.0 to 0.24), and M-80 (MPs 0.0 to 0.24) include pipeline construction in Greene County, PA; and H-319 include pipeline construction in Wetzel County, WV.

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