

Top Photo was taken by myself, 4-25-12 looking east across Pinchot Brook S010 and associated wetlands. The wetland crossing is 505' long and waterbody is 42' wide. The other 2 photos I scanned from the Wetland Delineation report NEUP Loop 323 "Site Photographs" Photo 1 (top photo next page) "Northeast view of W036, also associated with S010." Photo 2 (bottom photo next page) "South view of S010, Pinchot Brook also associated with W036." Look carefully all 3 photos taken from the same spot. I feel this is inaccurate information during photographing site locations whether it was intentional or not. The one "Y" tree left center first 2 photos and right center is what I used to determine both photos in Wetland Delineation Report are the same view. These pictures are in the TGP report. My photo you are looking across the "existing" ROW. The new ROW will clear 100' to the left in this photo or basically all the trees on the left in photo. Temporary Work Space and Additional Temporary Work Space are not "temporary" impacts! Note the ROW being used by off road vehicles.





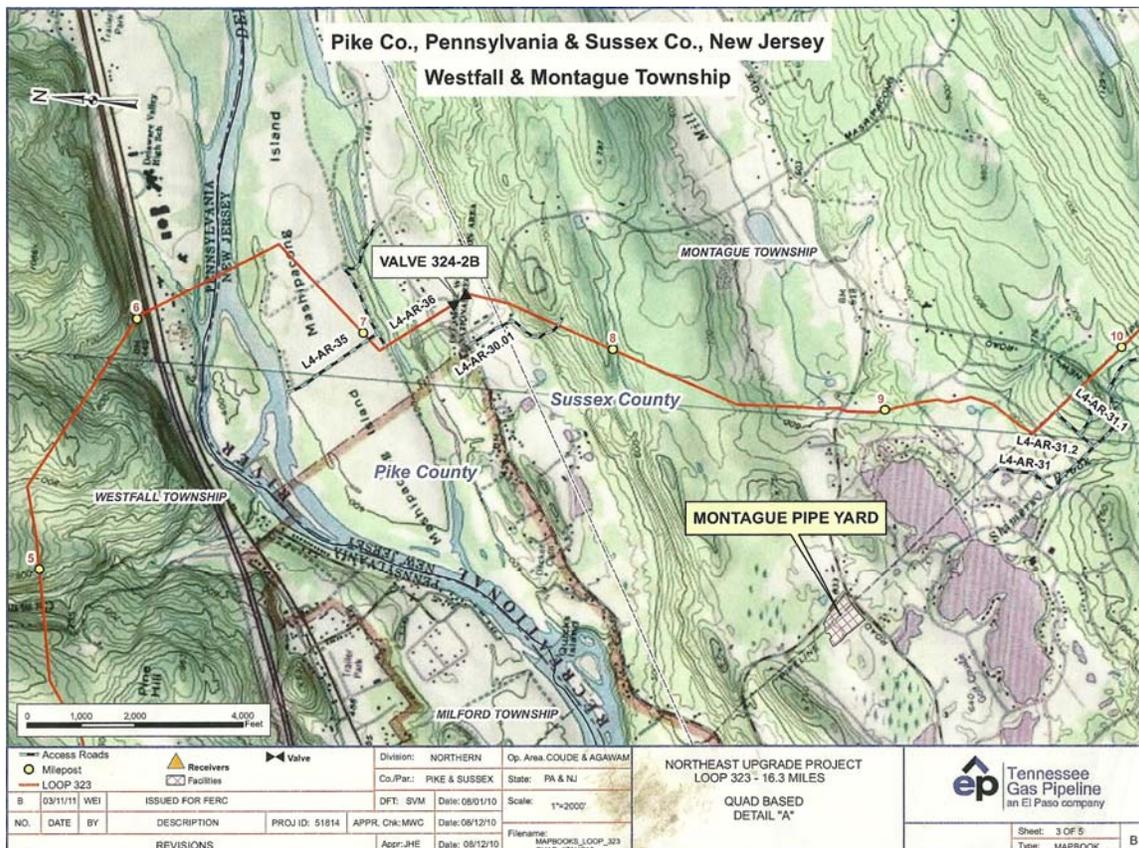
Photo 1: Northeast view of W036, also associated with S010



Photo 2: South view of S010, also associated with W036

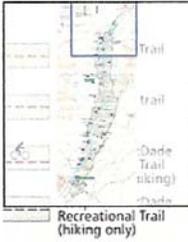
Table 2.2-2 states that L4-AR-35 “accesses Mashipacong Island and the Alternate row leading to the Delaware River directional drill site.” Map from wetland delineation report for NEUP shows AR-35 going directly to the recently approved water withdrawal site bisecting Mashipacong Island and does not go to the Delaware River crossing further up stream. NPS.Gov map includes the 2 islands on the northern boundary within the DWNRA directly across from the approved withdrawal site in a channel of the River. Note TGP’s map is inconsistent with the boundaries on the NPS map and has no access road going to the Delaware River Crossings.

Access Road ID	MP ^a	Township / County	Latitude Longitude	Temporary or Permanent	Length (ft)	Area Affected (acres)	Modifications Required	Comments
L4 AR10	0.03	Milford / Pike	41.37048 -74.84523	TBD	4,920	2.71	Portions to be widened, gravel, tree trimming	Part of the road is good quality gravel and turns into a two-track road with rock-base in areas. Additional rock and side trimming may be required
L4 AR21	1.70	Milford / Pike	41.35471 -74.82138	TBD	882	0.49	Portions to be widened; mats required across existing pipeline	Good quality gravel road
L4 AR21.05	2.12	Milford / Pike	41.351838 -74.814132	TBD	1,495	0.81	Portions to be widened through wooded area	--
L4 AR35	7.13	Montague / Sussex	41.33830 -74.74688	TBD	7,043	3.33	Portions to be graded	Access road is located off of River road. Good rock/gravel road that crosses a low water dam and accesses Mishipacong Island and the Alternate row leading to the Delaware River directional drill site.
L4 AR36	7.24	Montague / Sussex	41.33743 -74.74723	TBD	631	0.26	Portions to be widened and graded	15-foot wide that follows tree line to ROW



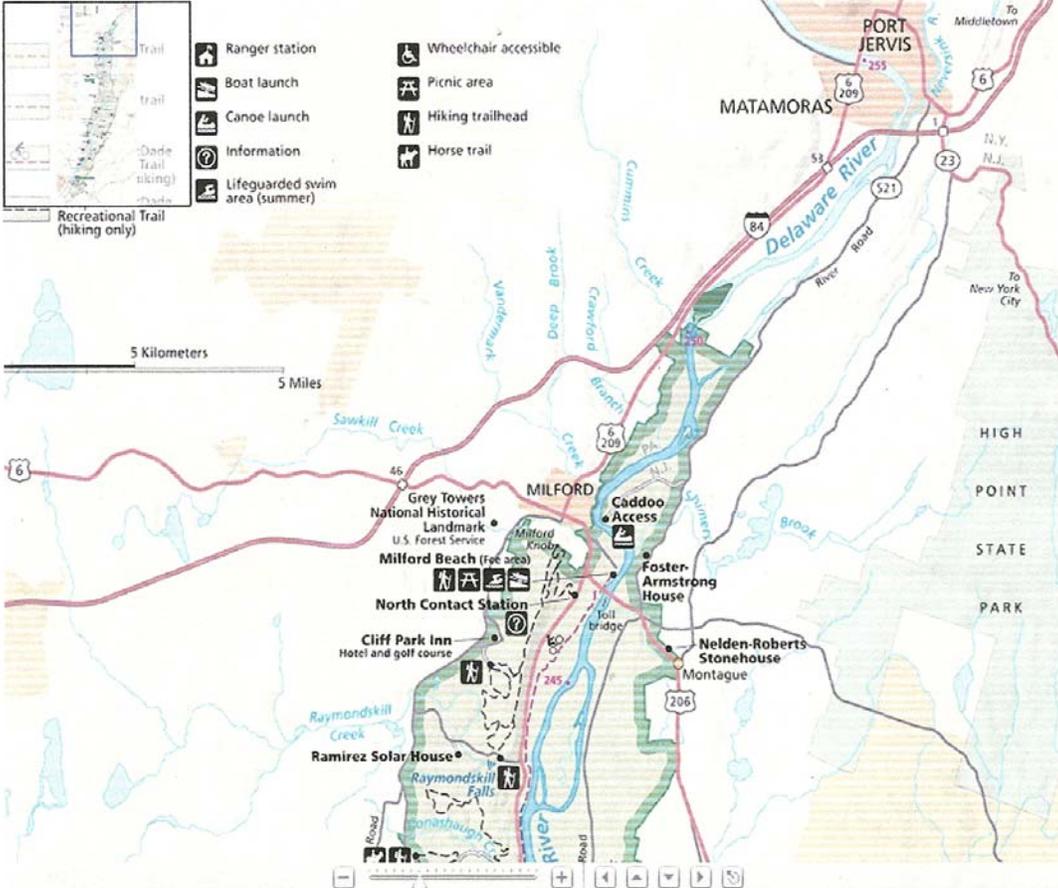
nps.gov

Delaware Water Gap Map



- Ranger station
- Wheelchair accessible
- Boat launch
- Picnic area
- Canoe launch
- Hiking trailhead
- Information
- Horse trail
- Lifeguarded swim area (summer)

5 Kilometers
5 Miles



Park Directions Page >>

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NPS 828-2253

July 22, 2012 visited Pinchot Brook L4 S010 and unnamed tributary of Pinchot Brook S011 with 2 associated wetlands L4 W035 and W036. Purpose was to photo document the stream/wetlands pre-construction. I took baseline reading with conductivity meter, TDS, and Salinity along with air and water temperatures. When approaching Pinchot Brook we (daughter Nickie) observed hundreds of small fish. We found a dead fish along the shore and using PAF&B guide identified it as a Bluntnose minnow *Pimephales notatus*. The sample was not preserved very well, distinguishable characteristics were faded and we used what we could to identify it. There are hundreds of maybe a thousand plus fishes in the new ROW construction. I would suggest a fish survey of this 550' waterbody/wetland crossing. These fish were observed during the benthic sampling with Faith Zerbe on 5-26-12. I used a section of a paper towel roll for reference.

Bottom photo note the clarity and flow of the stream this was during an extended heat wave and dry weather.



Top photo green frog “hanging out”
Bottom photo look center(round rock) and left center you can make out little fishes (use zoom)



September 30, 2012, I gained access to TGP in Montague NJ from Mountain Road (L4 AR 30.01) for a field survey and pre-construction documentation of TGP's NEUP. There are no coordinates in appendixes D or E of the Environmental Assessment (EA) for this section of pipeline which travels through New Jersey from the Delaware River (mp 6.4) across High Point State Park to the end of the 323 loop (16.3). My field survey which focused on mp 7.9 to mp 8.2 on appendix A maps (EA) which has ten (10) waterbodies listed in appendix D and eight (8) wetlands in appendix E. I identified and marked fifteen (15) waterbodies with my GPS unit. Appendix D lists ten (10) waterbodies with no identification numbers except for approximate mile post numbers. I was able to identify seven (7) wetland areas, one (1) not on appendix E and did not locate two (2) from the list.

*Waterbodies from 9/30/12 field survey listed randomly.

Appendix D	Field Survey 9/30/12	Appendix E	Field Survey 9/30/12
7.9 UNT to UN Backwater DR	S105	7.9 L4 W110	L4 W110
7.9 UNT to UN Backwater DR	S106	8.0 L4 W111	L4 W111
8.0 UNT to UN Backwater DR	S107B	8.0 L4 W114	L4 W114
8.0 UNT to UN Backwater DR	S108A	8.0 L4 W115	L4 W115
8.0 UNT to UN Backwater DR	S108	8.0 L4 W117	L4 W117 Didn't find
8.1 UNT to UN Backwater DR	S108B	8.1 L4 W118	L4 W118
8.1 UNT to UN Backwater DR	S110	8.1 L4 W112	L4 W112
8.1 UNT to UN Backwater DR	S111A107 C	8.2 L4 W119	L4 W119 Didn't find
8.1 UNT to UN Backwater DR	S11A	L4 W113 Missing	L4 W113
8.2 UNT to UN Backwater DR	S111E		
	S111F		
	S111D		
	S108 B		
	S111C		
	S111B		
	S107C		

All the waterbodies and wetlands listed from the field survey are all located at the bottom of the mountain on a flat area approximately 100' wide. The waterbodies are primarily springs bubbling up from the ground at the bottom of the mountain and the wetlands are scattered about over the 0.3 miles (mp 7.9 to 8.2). The pipeline (white flags) looks like it will be along the base of the mountain in this stretch with most workspace in the flat area to the west of the pipeline and will cut across all these waterbodies and wetlands with as little as 10'-20' separating many of these features.

Photo (100_1762) shows spring well house within permanent easement.

Photo (100_1782) shows large mature tree in Temporary Workspace.

Photo (100_1819) shows waterbody in Temporary Workspace

Note corners of TWS in photos.





During my pre-construction monitoring and photo documentation of the NEUP I have the following comments from observations and research of the documents.

Table A-Waterbody crossings associated with NEUP Loops 321 and 323 (Pike Co) Pa Bulletin
Chapter 93 Water Quality Designation/Fishery Classification
Timing restrictions differ between loop 321 and 323

- HQ-CWF/Class A Wild Trout Oct. 1-Apr. 1 loop 321
- HQ-CWF/MF/Wild Trout Oct. 1-Dec. 31 loop 323
- EV MF/Wild Trout Oct. 1 Dec. 31 loop 323

Note-I believe wild trout in part is what makes a Class A Stream...but the HQ streams in loop 321 have stricter restrictions than the EV and HQ streams with wild trout in loop 323.

Field visit 1-30-13 Access road AR10 had been recently flagged from Schocopee Road to MP 0.0 Note same access road used during 300 line construction ID was changed from AR 10 –AR 9A and gravel road was extended across pipeline after construction of 300 Line went into service.

Existing pipeline marked with small yellow flags but also has a Temporary Work Space (TWS) stake in the center of existing pipeline every 100' with some intermittent stakes eastward for approximately 5100' where workspace, wetland, stream flagging and delineations and ID's stopped. So TWS starts on top of the existing pipeline in the center of the existing ROW. Note- existing pipeline is recognized by a noticeable hump the majority of the existing pipeline across the River and along the NJ existing ROW. Note a citizen off of Foster Hill said the pipeline that's just a few feet from his barn is less than a foot under the surface.

L4 W035-was part of Wetland Delineation Report (WDR) March 2011 but was omitted from Notices Pa Bulletin (NPAB) Note my field observations identified L4-W035 with it extending into existing permanent easement which is marked by stakes with white/yellow flagging.

L4 W036-crossing length 504' (NPAB) observations in field have wetland ID signs L4 W036 at mp 0.17 and mp 0.35 or 0.18 miles which equals 950.40' this was confirmed with alignment sheets (PDF 20120808-5072 (274769000)) page 20/45 and notes provided. "9+47 entered wetland L4-W036" "18+51 exited wetland L4-W036" this information was included on stakes identifying TWS down the center of existing 24" pipeline Note the first number represents 100' increments from the start of the NEUP so 9+00 to 18+00 would be 900 ft

Permanent Existing Easement is 100' at the start of the NEUP (mp 0.0) with flagging off the cleared existing ROW and back into the trees on both sides but at TWS stake TWS 25+00 the Permanent Existing Easement shrinks to 50' or about the width of the cleared existing ROW. I believe the 100' Permanent Existing Easement was used for clearing on the 300 line also. Possibly this is allowing more trees to be cut with larger ROW since they are taking 25' of existing ROW which in some cases the EPE is located in the forested area outside the cleared area.

8+41 P.I. < 10'15'21" RT.

9+47 ENTER WETLAND L4 W036

10+52 TOP OF BANK
10+69 CL PINCHOT BROOK, (L4 S010) &
PROPERTY LINE

11+11 TOP OF BANK

14+43 P.I. < 6'27'04" RT.

14+86 P.I. < 9'23'30" RT.
15+10 PIPELINE MARKER 26' LT.

17+81 CL TRIBUTARY TO PINCHOT BROOK,
(L4 S011) & PROPERTY LINE
17+92 CL TRIBUTARY TO PINCHOT BROOK,
(L4 S011) & PROPERTY LINE

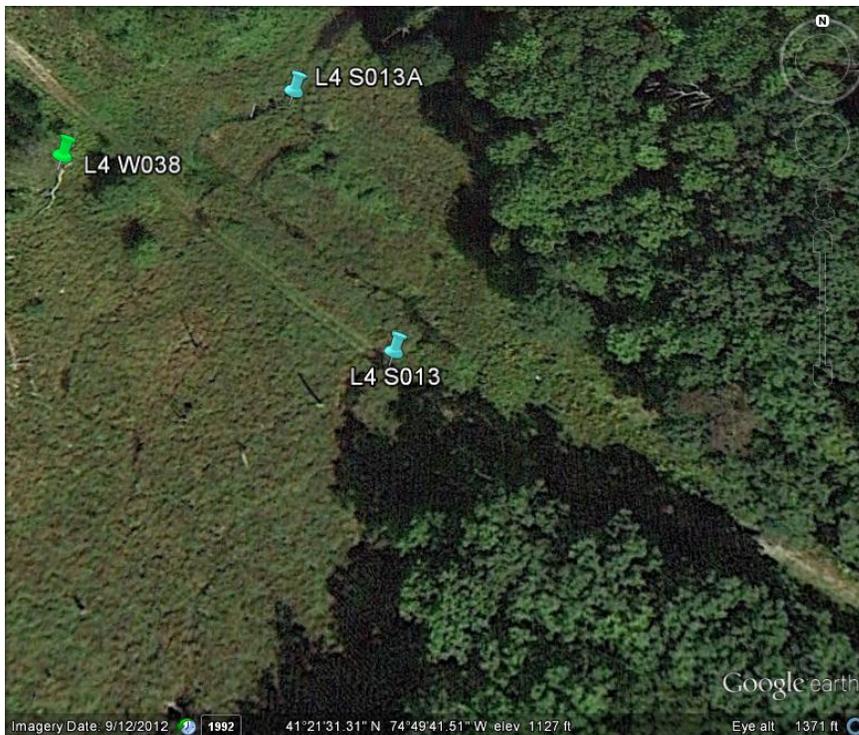
18+32 CL TRIBUTARY TO PINCHOT BROOK,
(L4 S011) & PROPERTY LINE
18+51 EXIT WETLAND L4 W036

Areas approaching S010 (Pinchot Brook) and east of S011 (UNT Pinchot Brook) before the Existing Permanent Easement (EPE) is adjusted from 100' to 50' measurements from EPE to ATWS range up to 200' Field measurements 1/30/13- south-north across ROW on DCNR lands (Delaware State Forests) 100' to EPE + 53' to center of pipeline + 50' to northern EPE 200' photo shows tape stretched out 200' from southern most flagging for TWS to the northern extent of EPE (white and yellow flagging) 25' of EPE is in forested area but still 175' from northern edge of cleared ROW to back line of TWS.

DRN/1-30-13 Survey Pinchot 100_3082



Flagging stops before Dimmick Meadow and 2 UNT tributaries of Dimmick Meadow, this is confirmed in TGP's 1/28/13 through 2/3/13 Weekly Status Report "Environmental signage has been installed from mp 0.0 to 1.00 to mp 1.50 to 2.93" but skips over Dimmick Meadow and its 2 tributaries. The wetland delineation report of March 2011 identified 2 tributaries S013 and S013A but S013A got eliminated in NPAB. I observed 2 distinct stream channels during my field visit 1/30/13. There was no environmental signage or clear delineations of stream(s) or wetlands. The alignment sheets indicate that W038 is entered 63+70 and exits at 66+69 or just short of 300'. NPAB has a crossing width of 210'. The alignment sheets show 2 distinct channels as well as Google Earth Image within the complex but only S013 noticed and referred to as East Branch of Dimmick Meadow. Notes from the top of alignment sheet (PDF 20120808-5072 (274769000)) page 21/45 for East Branch Dimmick Meadow S013/W038



63+70 ENTER WETLAND L4 W038

65+31 TOP OF BANK
 65+36 CL EAST BRANCH OF DIMMICK MEADOW
 BROOK (L4 S013), PROPERTY LINE
 65+43 TOP OF BANK
 66+69 EXIT WETLAND L4 W038

55+04 ENTER WETLAND L4 W037
 55+67 TOP OF BANK
 55+71 EDGE OF WATER
 55+77 CL DIMMICK MEADOW BROOK (L4 S012)
 PROPERTY LINE

55+83 EDGE OF WATER
 55+86 TOP OF BANK
 56+29 EXIT WETLAND L4 W037

Similar disagreements with S012/W037 "Enter W037 at 55+04 and Exit W037 at 56+29" which is equivalent to 125' NPAB has a crossing length of 72' or a difference of 53'.

I visited the Montague section of the TGP NEUP using Mountain Road (AR 30.01) and accessed the proposed ROW approximately at mp 7.8 using Mr. Merusi's property as access. I walked to approximately mp 8.2. The TGP weekly report on the NEUP dated 1/28/13 to 2/3/13 stated that environmental signage was installed from mp 7.81-8.11. The table on right is the notes at the top of the alignment sheet page 28/45 for this section. These notes determine where to install resource signage. At Mr. Merusi's spring house was a Blue Waterbody Sign but no ID number on it. During my survey and mapping in Sept. I identified this as S0105

- 416+29 ENTER WETLAND L4 W110
- 416+41 CL SPRING L4 S105
- 416+44 CL SPRING
- 416+94 EXIT WETLAND L4 W110
- 417+66 CL STREAM L4 S106
- 419+64 ENTER WETLAND L4 W111
- 420+53 EXIT WETLAND L4 W111
- 422+54 CL STREAM L4 S107B
- 422+80 ENTER WETLAND L4 W114
- 423+01 EXIT WETLAND L4 W114
- 423+27 ENTER WETLAND L4 W115
- 423+88 CL STREAM L4 S108A
- 424+43 ENTER WETLAND L4 W117
- 424+58 EXIT WETLAND L4 W115
- 424+69 CL STREAM L4 S108
- 424+70 EXIT WETLAND L4 W117
- 425+36 PROPERTY LINE
- 425+80 ENTER WETLAND L4 W118
- 426+07 CL CREEK
- 426+20 CL STREAM L4 S018B
- 426+42 PROPERTY LINE
- 426+73 CL STREAM L4 S110
- 426+77 PROPERTY LINE
- 427+55 CL STREAM L4 S111A
- 427+98 CL STREAM L4 S111A
- 428+36 EXIT WETLAND L4 W118
- 428+53 ENTER WETLAND L4 W118
- 428+96 PROPERTY LINE
- 429+10 CL CREEK
- 429+31 EXIT WETLAND L4 W118
- 429+70 ENTER WETLAND L4 W118
- 429+82 EXIT WETLAND L4 W118
- 430+48 CL STREAM L4 S111E
- 430+55 ENTER WETLAND L4 W118
- 431+24 EXIT WETLAND L4 W118
- 431+58 P.I. < 28'26'07" LT.
ENTER WETLAND L4 W119
- 431+66 CL TRAIL (DIRT)
- 432+08 EXIT WETLAND L4 W119

ID Signage I observed 2/08/13 Signage locations on alignment sheets

W110	W110
W114	W114
W115	W115
W117	W117
Missing	W118 (4)
Missing	W119
No ID (S105)	Missing (sign no ID)
S106	S106
S107A	Missing
S107B	S107B
S108	S108
S018B (Incorrect)	S018B
S110	S110
Missing	S108A
Missing	S111A (2)
Missing	S111E

On September 30, 2012 since there were no coordinates or identification numbers for this new ROW just MP numbers (mp 7.9-8.1) Appendix "D" had 9 Waterbodies and "E" had 7 Wetlands in that 0.3 miles. I marked locations using the surveyor's flags marking the numerous streams and wetlands in this 0.3 miles of new ROW. I identified 16 stream crossings and 7 wetlands. The 2 with (?) were labeled "L" but may be "C" The earlier delineation flagging still in place indicated ID S018B as S108B which I confirmed during the field visit.

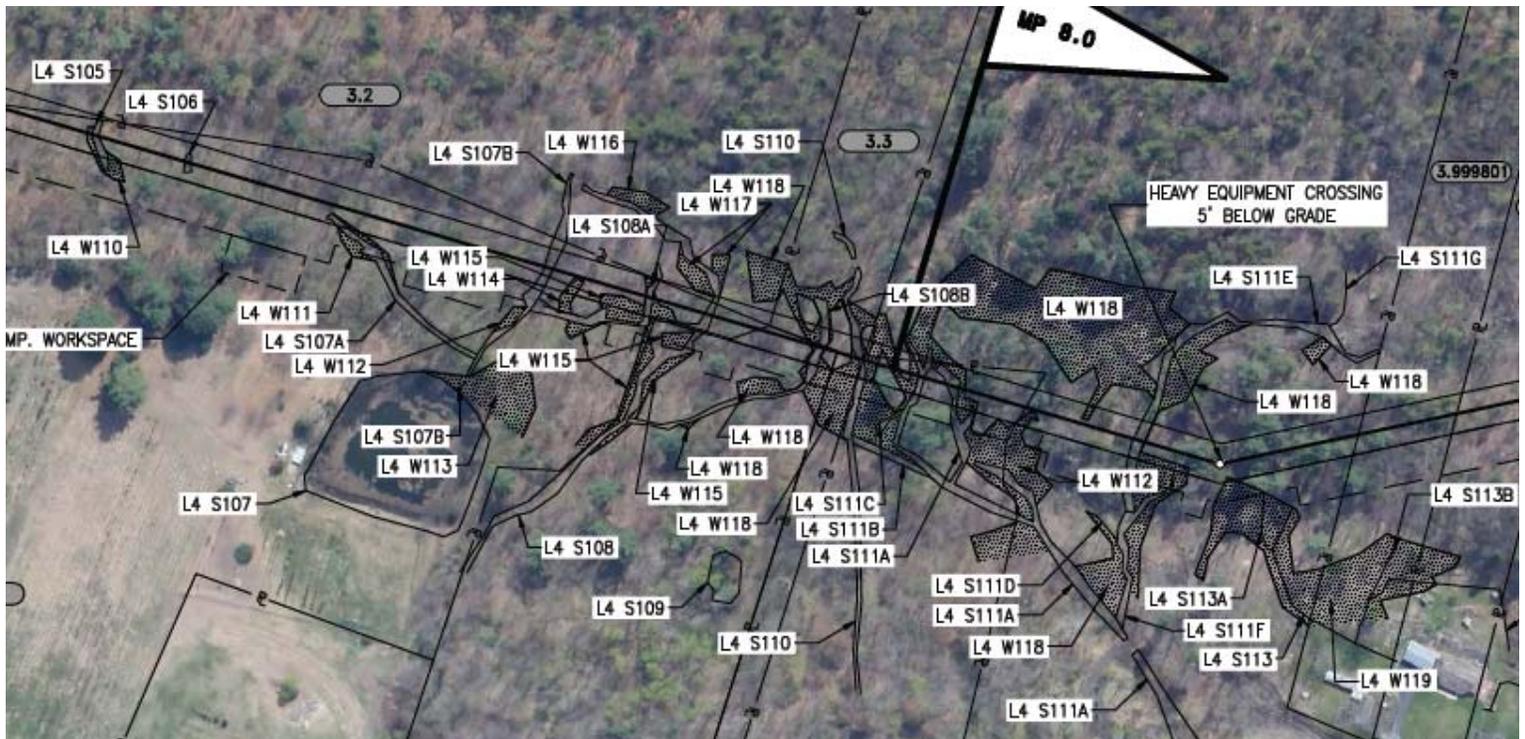
Resources I mapped from 9/30/12 field visit using flagging along proposed ROW

S105	S106	S107	S107A	S107B
S107(?)	S108	S108A	S108B	S110
S111A	S111B	S111(?)	S111D	S111E
S111F	W110	W111	W112	W113
W114	W115	W118		

Here's a partial copy of the alignment sheet for the Montague section off of Mountain Road. I walked to where I could see the turn in the ROW (Heavy equipment crossing 5' below grade) Note how complex this section is. I observed and photographed 4 wetland signs and 7 Waterbody signs (one w/no ID at spring house but believe its S105 (Sensitive Resource signage in place) Where there were Wetland Boundary signs there were no delineation flagging and hard to tell where most started or ended or how wide the crossing actually is. The permanent easements were also poorly marked.

The total footage from alignment sheet from S105 to W119 416+21 to 432+08=1587' add up the wetland footage from 7 wetlands W118 crossed 4 times)=785' or just shy of 50% of total length are wetland crossings plus from the alignment sheet there are 9 stream crossing with 11A being crossed 2 times. My observations are; this section is just about all wetlands from bottom of hillside to the TWS for 0.3 miles and alignment sheets confirm at least half the distance is wetlands plus numerous streams.

FYI- I can count 8 different L4 W118's on alignment sheet but failed to observe any resource signs during my field visit on 2/08/13. The alignment sheet had 4 W118's listed. The approved access road AR 30.01 was installed but on the end where it meets the pipeline and not at the intersection of Mountain Road and River Road...the coordinates are given at the end where it meets the pipeline. I would hope these Environmental Inspectors would have the common sense to place it at the turnoff of River Road and not where it meets the pipeline. Guess not?



Top left alignment sheets (PDF 20120808-5072 (274769000)) page 28/45 Top right-the TWS will come within few feet of homes of Geo & Ruth Feighner and Emil & Mary Merusi. TWS stake in front of trees from the Merusi home (top right) which is hidden under the canopy of trees on the alignment sheets and just a few feet from Feighner's barn bottom photos. The alignment sheet shows a 50' TWS then a 50' permanent easement and then 2-50' ATWS for a total of 150' of tree clearing up on the steep slope behind the two homes. Note the steepness in photo 100_3293 which will be leveled for "Temporary Work Space" and "Additional TWS".

DRN/2-8-13 survey Mt Road 100_3228



DRN/2-8-13 survey Mt Road 100_3226



DRN/2-8-13 survey Mt Road 100_3293



This was where resource signage was installed back to back “Exit W117” and Waterbody no ID on sign but is a small water fall over solid rock where the center of the pipeline will be installed (bottom photos with white flagging) so 25’ on both sides will take it to the top to where the big rock sets (permanent easement white/yellow flag on tree) disrupting the natural flow of this stream. Note wetland sign on slope 100_3269

DRN/2-8-13 Survey Mt. Road 100_3266



DRN/2-8-13 Survey Mt. Road 100_3267



DRN/2-8-13 Survey Mt. Road 100_3269



DRN/2-8-13 Survey Mt. Road 100_3268



Note top left photo Beech tree with white flagging is center of pipeline and 4 smaller streams come together to form one right in the middle of the permanent easement also there's a TWS at the point of confluence. Top right is a TWS stake at the location of an unmarked spring. Bottom photos are where signage stops. Note how this area has numerous springs forming small streams which are direct tributaries of the Delaware River.

DRN/2-8-13 Survey Mt. Road 100_3284

DRN/2-8-13 Survey Mt. Road 100_3259



DRN/2-8-13 Survey Mt. Road 100_3278

DRN/2-8-13 Survey Mt. Road 100_3279



Note active spring house with Sensitive Resource signage that will be in the permanent easement just uphill from the center of pipeline. Waterbody signage with no ID number installed on center line of pipeline. Wetland stakes in place without proper resource signage, stakes are marked 417+62 alignment sheets do not indicate entering or exiting a wetland at that marker. Bottom right note Wetland Boundary signage leaning against a rock up on hillside, no delineation flagging with signage

DRN/2-8-13 Survey Mt Road 100_3237

DRN/2-8-13 Survey Mt Road 100_3242



DRN/2-8-13 Survey Mt Road 100_3244

DRN/2-8-13 Survey Mt Road 100_3258



- 88+11 MLV 324-2A
- 88+42 ENTER WETLAND L4 W040
- 89+02 PIPELINE MARKER 25' LT.
- 89+05 VALVE FENCE CORNER (CHAINLINK) 10' LT.,
BEGIN PARALLEL
- 89+10 FENCE GATE
- 89+58 PROPERTY LINE
- 89+75 VALVE FENCE CORNER (CHAINLINK) 10' LT.,
END PARALLEL
- 90+64 P.I. < 0'05'38" RT.
- 93+70 P.I. < 2'37'02" LT.,
LEACH FIELD 86' RT.
- 93+79 EXIT WETLAND L4 W040
- 94+00 CORNER OF HOUSE 81' RT.
- 94+77 EDGE OF DRIVEWAY (GRAVEL) 49' RT.
- 94+99 GUY ANCHOR 67' RT.
- 95+07 POWER POLE 64' RT.
- 95+14 ENTER WETLAND L4 W041
- 95+73 PIPELINE MARKER 26' LT.
- 95+78 PIPELINE MARKER & COLUMBIA GAS PIPELINE
26' LT.
- 95+80 PIPELINE MARKER 54' LT.
- 96+00 EDGE OF DRIVEWAY (GRAVEL), BEGIN
DRIVEWAY ON LINE
- 96+09 CL DRAIN (BEGIN PARALLEL) 6' LT.
- 96+24 P.I. < 6'18'11" LT.
- 96+40 P.I. < 7'42'47" LT.
- 96+52 EXIT WETLAND L4 W041
- 96+56 P.I. < 1'02'57" LT.
- 97+05 P.I. < 4'05'03" LT.
- 97+53 END OF 12" CULVERT 9' LT.
- 97+86 SHED 60' LT.

The Pa. Bulletin Vol. 42, NO.49, December 8, 2012 Wetland Crossing # 35 L4 W041 has a crossing length of 22'. Photos 100_3328/100_3329 shows Wetland W041 spans across the cleared ROW of Columbia Gas Pipeline where it intersects the Tennessee Gas Pipeline NEUP. The alignment sheet for this section has wetland boundary signs located at 95+14 Enter Wetland L4 W041 and 96+52 Exit Wetland L4 W041 (photo 100_3324) The distance on the alignment sheet using figures and diagram provided has the crossing of 138' considerable more than the 22' listed on page 7481 of the Pa Bulletin. Note photos are of W041, no photos of W040 no access.

L4 W40 (#34) to the west has a crossing length of 380' listed in the Pa Bulletin, the alignment sheet Enters Wetland L4 W40 at 88+42 and Exits L4 W040 at 93+79 or 537' these figures listed on the alignment sheet are for placement of resource signage that's been installed by Environmental Inspectors as of TGP's Weekly Report 1/28 2/3/13.

The crossing length for L4 W041 Pa. Bulletin is 22' Alignment Sheet 138'
The crossing length for L4 W040 Pa. Bulletin is 380' Alignment Sheet 537'

DRN/Firetower Road Survey 100_3324 Looking West TGP



Alignment Sheet Appendix C Page 21/45
CP11-161 20120808-5072 (27476900)



DRN/Firetower Road Survey 100_3328 Northwest view

DRN/Firetower Road Survey 100_3329 North view



This information was sent to DRN staff in email 2/22/13 10:21 am.

Many of the resource signage is marked with mile posts (MP). The alignment sheets (Appendix C) use foot markers i.e. 00+00 is the start of the NEUP a mile 5,280 feet would be 52+80. MP's are not identified in the field and can be much more inaccurate than foot markers

Map Appendix A shows the pipeline travels in a southwest direction in the mp 7.9-8.2 section in Montague NJ.

Table 1 on right is extracted from Appendix C alignment sheet 20120808-5072(27476900)

TGP's weekly report February 21, 2013 responding to February 13, 2013 DRN letter states; the direction of view in TGP photo #1 was north my observations would indicate a southwest view looking into the sun with mountain on left side. In the description view of stream S108B, photo shows two streams with signage but lacking signage on the other side of the second stream in background.

TGP Photo #2 has a view more south than west (mountain on left) shadows indicate before noon. View of wetland W110 and stream S105, I *don't* see a Waterbody sign marking S105. Alignment sheets enter W110 at 416+29 and exit W110 at 416+94 or 65' long, however alignment sheet also has an unidentified spring at 416+44 and S105 at 416+41 or in between the wetland signage (see Table 1) photo shows one wetland sign and a waterbody sign (blue sign in the back ground) facing towards the stream; my point is no waterbody signage for the stream from the angle of TGP photo and should have a S0105 sign 12' (W110 416+29 S105 416+41) in front of the W110 and the S105 would be across the stream if they used the foot markers to install the resource signage.

Note S105 flows from Mr. Merusi's spring house that has a yellow Sensitive Resource sign posted at it. DRN/2-17-13 100_3484



TGP Photo #3 S113A is not listed in the notes on alignment sheet for a resource signage. 8.18 miles equals 43190 feet or 431+90 Table 1 does not have S113A listed at 431+90.

TGP Photo #4 No foot markers on signage just MP 8.03 marker. Mile posts are not used in the field for installing resource signage the alignment sheets use foot markers are on stakes marking every hundred feet at the TWS so every hundred feet is a "TWS 00.00 TWS 01+00 TWS 02+00" stake that is what is use in the field 8.03 = 42398' or 423+98 alignment sheet has S108A listed at 423+88 10' feet can mean a lot over the course of miles of construction workspace that is limited to 75' at resource locations.

TGP Photo 5-this sign is correct enter wetland W118 at 425+80 but alignment sheet has 3 other W118's that are listed as the alignment map 20120808-5072(27476900) shows 8 different W118's in this 0.3 miles (mp 7.9-8.1). Photo 6- I documented several different streams identified as S111A in the field alignment sheet has two listed.

416+29	ENTER WETLAND L4 W110
416+41	CL SPRING L4 S105
416+44	CL SPRING
416+94	EXIT WETLAND L4 W110
417+66	CL STREAM L4 S106
419+64	ENTER WETLAND L4 W111
420+53	EXIT WETLAND L4 W111
422+54	CL STREAM L4 S107B
422+80	ENTER WETLAND L4 W114
423+01	EXIT WETLAND L4 W114
423+27	ENTER WETLAND L4 W115
423+88	CL STREAM L4 S108A
424+43	ENTER WETLAND L4 W117
424+58	EXIT WETLAND L4 W115
424+69	CL STREAM L4 S108
424+70	EXIT WETLAND L4 W117
425+36	PROPERTY LINE
425+80	ENTER WETLAND L4 W118
426+07	CL CREEK
426+20	CL STREAM L4 S018B
426+42	PROPERTY LINE
426+73	CL STREAM L4 S110
426+77	PROPERTY LINE
427+55	CL STREAM L4 S111A
427+98	CL STREAM L4 S111A
428+36	EXIT WETLAND L4 W118
428+53	ENTER WETLAND L4 W118
428+96	PROPERTY LINE
429+10	CL CREEK
429+31	EXIT WETLAND L4 W118
429+70	ENTER WETLAND L4 W118
429+82	EXIT WETLAND L4 W118
430+48	CL STREAM L4 S111E
430+55	ENTER WETLAND L4 W118
431+24	EXIT WETLAND L4 W118
431+58	P.I. < 28'26"07" LT. ENTER WETLAND L4 W119
431+66	CL TRAIL (DIRT)
432+08	EXIT WETLAND L4 W119

Signage issues from field observations 2/17/13 after re-installment of resource signage by TGP.
Folder DRN/2-17-13 Signage Montague

- 100_3420-3421 Mud with rutting on access to pipeline 412+60 (Sediment issue at access road AR 30.01)
- 100_3422 Stake identifying placement for Wetland Sign 416+44 Alignment sheet has unidentified spring at that location back of Wetland Boundary sign installed right next to it.
- 100_3423 Stake for Wetland sign 417+62 Alignment sheet has no resource at that location
- 100_3424 Waterbody sign S0107A with no location markers
- 100_3425 The other S107A with no location markers
- 100_3428 Pink flagging laying on the ground (initial survey marker) "L4 W111 start" my field observations from 2-8-13 or 2-17-13 did not find signage installed for W111 (Enter at 419+64 Exit 420+53)
- 100_3429 Initial survey tape removed and discarded on ground, no way to double check signage with survey markers and Resource signage in the field
- 100_3431 Wetland Boundary signage W114 422+80 mp 8.01
- 100_3432 Wetland Boundary signage W114 423+01 mp 8.01
Note foot markers indicate 21' crossing with the same mp marker of 8.01 foot markers are what are used in the field for installing signage mile posts are approximate and used for larger scale mapping
- 100_3433 Wetland Boundary signage W115 423+27 mp 8.02 (enter on alignment sheet)
- 100_3435 Wetland Boundary signage Enter W117 424+43 mp 8.04
- 100_3436 Wetland Boundary signage Exit W115 424+58 mp 8.02
- 100_3437 Wetland Boundary signage Exit W117 424+70 no mp marker (signage is installed on same stake as a Waterbody sign facing into W117)
Enter W115 at 423+27 mp 8.02 Exit W115 424+58 mp 8.02 foot markers indicate 116' and mps are the same mp 8.02.
Enter W117 424+43 mp 8.04 (in between Wetland Boundary foot markers for W115)
Exit W117 424+70 Note-mp for W117 is 8.04 (0.01 equals 52') Enter and Exit W115 at mp 8.02
- 100_3440 Number of Waterbody signage scattered through this area
- 100_3441 Wetland Boundary signage W118 425+80 mp 8.06 (alignment sheet Exit W118 428+36 or 256')
Exit W118 was not observed in field on 2-17-13
- 100_3442 Waterbody signage S108B mp 8.07 no foot markers on signage
- 100_3443 Permanent Easement stake 426+00 (used for my reference point in field)
- 100_3444 Waterbody signage S108B mp 8.07 different sign no foot markers
- 100_3446 Waterbody signage S110 426+63 mp 8.08 Alignment sheet has installation point at 426+73
10' difference can mean a lot with tree clearing
- 100_3449 Waterbody signage S111A mp 8.10 no foot markers on signage
- 100_3450 Unidentified spring with no resource signage
- 100_3452-3453 Initial survey flagging for W118 on the ground with no Resource signage installed at location
- 100_3454 Location of initial survey flagging (pink flagging from previous photos 100_3452-3453)
- 100_3455 Stream no Resource signage
- 100_3456 Initial survey flagging on the ground for S111A
- 100_3458 Waterbody signage S111A mp 8.10 no foot markers
- 100_3459 Waterbody signage S111A mp 8.11 427+98
- 100_3460 Waterbody signage S111A no mp or foot markers on signage
- 100_3461 Waterbody signage S111A no mp or foot markers on signage
- 100_3462 Waterbody signage S111A no mp or foot markers on signage (different than others has snow by it)
- 100_3463 Two streams without Resource signage
- 100_3464 Stream with no Resource signage
- 100_3465 Stream with no Resource signage
- 100_3466 Stream with no Resource signage
- 100_3467 Waterbody signage S112 no mp or foot markers *not listed in Table 1 or on alignment sheet map*

Signage issues from field observations 2/17/13 after re-installment of resource signage by TGP.

Folder DRN/2-17-13 Signage Montague

100_3469 Wetland Boundary signage Exit W118 429+82 mp 8.14

100_3470 Wetland Boundary signage Enter W118 429+70 mp 8.14

W118 was listed on alignment sheet 4 times for Resource signage (see descriptions of photos 100_3441 and 100_3452-100_3454) I only observed 3 Resource signs one entering at 425+80 with no Exit signage observed, plus the one listed above with an Enter and Exit. I also observed initial survey flagging on the ground with no Resource signage installed. Note Resource signage usually installed on center line and does not accurately reflect the erratic nature of wetlands in the field. The W118 on the alignment sheet shows a much larger wetland in that location than the 12' at the center line.

100_3472 Waterbody signage S111E 430+48 mp 8.15 Alignment sheet does not show S111 only 7 tributaries (W111A-G) S111E appears to be way upstream and separated from the other S111 tributaries.

100_3474 Wetland Boundary signage Enter W118 430+55 mp 8.15 I didn't observe Exit signage for this W118

See comments for 100_3470 this would be an additional W118 with Enter signage but no Exit signage

100_3477 Waterbody signage STA 425++46 No Resource signage listed in Table 1 for this location

100_3478 Waterbody signage S108 no mp or foot markers on signage Note waterfall over solid rock at location

100_3479 Waterbody signage S108 no mp or foot markers on signage

100_3480 Waterbody signage S108 no mp or foot markers on signage

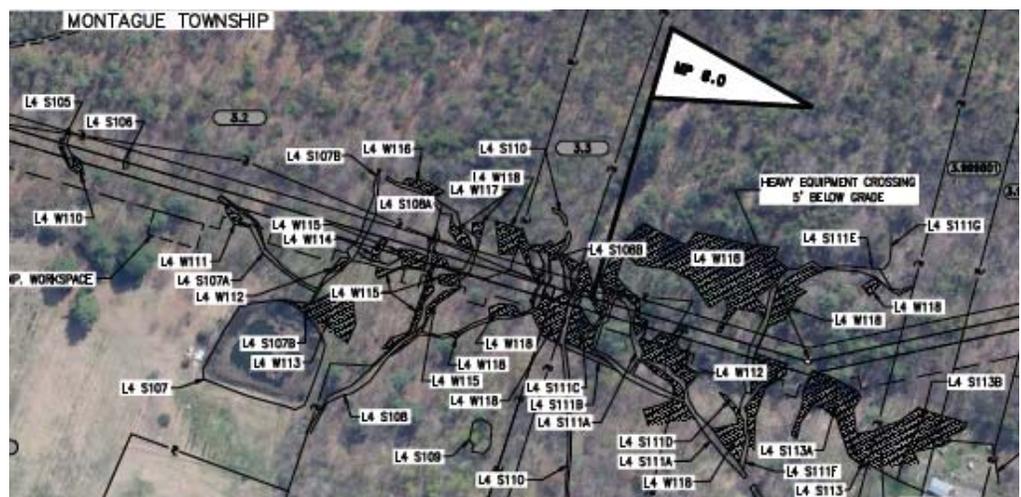
100_3481 Waterbody signage S108 no mp or foot markers on signage (S108 signage in 4 different locations)

100_3483 Permanent Easement flagging (yellow and white) removed and discarded on the ground

100_3484 Active spring house (S105) Sensitive Resource is in the Permanent Easement at mp 7.89

Conclusion: My field visit 2/17/13 reveals severe Resource signage problems from mp 7.89 to mp 8.15 or 0.26 miles which is approximately 1,372 feet. September 30, 2012 I mapped and identified resources in this area using the initial survey flagging in place at that time. My field report 037 2/11/12 that was submitted to FERC and ACOE along with a letter from Delaware Riverkeeper Network 2/12/13 contained a Table: Resources mapped from 9/30/12 field visit. I identified 16 waterbody and 7 wetland crossings in this small section of proposed ROW. Resource signage for many of these resources were not observed on 2/8/13 or on 2/17/13 this after TGP personnel reinstalled and adjusted signage in this area. The signage in place is lacking important information such as "foot markers" which are located on the alignment sheet and used for placement of signage in the field. Some signage has mile posts (mp) but is an approximate marker used on larger maps and is not represented in the field. Resources from my initial mapping are still missing. Signage is duplicated in the field for single resources. Wetlands overlap in the field with other wetlands. No wetland delineations in the field. The permanent easement markers and other initial survey flagging has been removed and discarded on the ground. Resources observed in the field lack resource signage. On 2/20/13 the day before TGP's weekly status report, I was refused access to that area even though I have Emil Merusi's permission to be on his land. 2/17/13 when I took additional photos of signage issues with several TGP personnel on site, I was allowed complete access.

The alignment sheet map shows how complex this area is with many streams, springs and wetlands in these 0.26 miles. Tree cutting has begun in this area with inadequate resource signage. It is extremely important that all these sensitive resources be correctly identified, marked and delineated in the field to assure that these resources are restored to their pre-construction condition as required.



2/24/13 Faith Zerbe is observed measuring from a white surveyor's flag (CL 9/10/12) to center of the stream (22'). Faith and I did a field visit to verify surveyor's flagging was not installed along L4 S059C from my previous field visit 2/19/13. No surveyor flagging or work space staking was observed except white surveyor's flagging marking a center line (CL). I revisited this area on 3/2/13 Temporary Work Space stakes with foot markers were installed approximately every 100' on **both sides** of the now cleared TGP ROW.

DRN/2-24-13 Evergreen Faith/100_3964
CL of pipeline to center of S059C is 22'

DRN/3-2-13 Evergreen/100_4213
TWS Stake 306+00 in center of stream



DRN/3-2-13 Evergreen/100_4225
TWS Stake 307+00 on opposite ROW from S059C

DRN/3-2-13 Evergreen/100_4216
Trees felled using TWS Stakes on both sides of the ROW



March 7, 2013 I accessed TGP on DCNR property at the point where the 300 line ends and NEUP begins. Tree cutters were just finishing, I heard them say that was the last tree and vehicles were gone when I returned to parking location. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging is used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage was started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities. With a 5 week delay in the tree felling schedule, the surveying and resource signage personnel had additional time to complete these important tasks for tree felling well ahead of the tree cutters. The following photos of tree felling activities are taken on the 300 Line side of AR 10. Each side of AR10 is now cleared for 250' from tree line to TWS stakes on 300 Line and NEUP at AR10.

DRN Photo 100_4255 Tree with Blue Blaze cut

DRN Photo 100_4254 location of tree on 300 Line side



DRN Photo 100_4256 trees cut off of permanent easement on 300 Line

DRN 100_4510 Duchess and trees cut outside the ROW of the 300 Line west of the valves

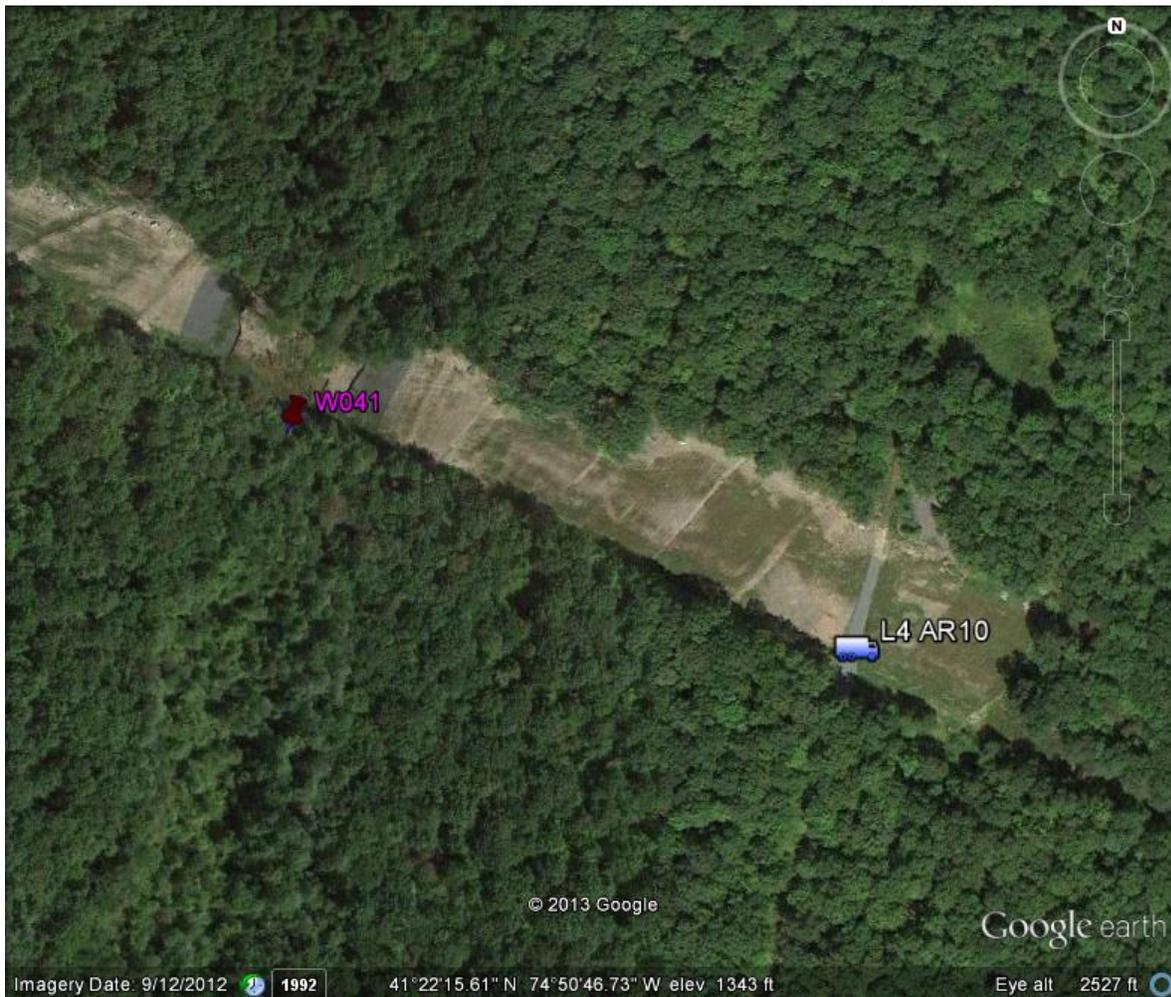


March 7, 2013 I accessed TGP on DCNR property at the point where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient. With a 5 week delay in the tree felling schedule, the surveying and resource signage personnel had ample time to complete these important tasks for tree felling well ahead of the tree cutters. The following photos of tree felling activities are taken on the TGP at AR10. Each side of AR10 is now cleared for 250' from tree line to TWS stakes on both sides of AR10 and TWS extends approximately 450' across AR10 into the 300 Line section. Note ATWS adjacent to both sides of W041 and large area at the end.

Google Earth image 9/12/12 is of where the 300 Line ends (mp 14.9) and the NEUP starts (mp 0.0) at AR10 (grey strip). November 6, 2012 measurements were taken at several locations with help by a volunteer monitor. Wetland W041 boundary markers can be seen as black strips (E&S controls) measurements taken tree line to tree line.

Table Field Measurements 11/6/12

Wetland W041	Westside of AR10	Eastside of AR10
Westside boundary 146'	Middle of hill at waterbar 200'	East of AR 10 200'
Across W041 103'	Top of hill at waterbar 200'	End of cleared ROW 235'
Eastside boundary 140'	West of AR10 200'	Existing ROW 45'



Report 041-1 Field Visit 3/7/13 AR 10 DCNR Property

Measurements are approximate taken with a 200 foot tape with exact locations of tree line varying. During the construction phase of Loop 323/300 Line tree clearing extended approximately 300' past the end of permitted length (mp 14.9) across AR 10 into the NEUP section which was not approved at that time. The Google Earth image shows the large area (200' by 300') east of AR 10 cleared as of 9/12/12.

TGP Environmental Construction Plans call for a workspace reduction of 75' at wetland boundaries; however measurements taken in the field on 11/6/12 had measurements of 146' and 140' at E&S controls still in place marking wetland boundaries at W041 and 103' across the center. Note the reason for E&S controls still in place as of 3/7/13 on Loop 323/300 Line is it is still in "Temporary Condition" associated with construction 15 months after the pipeline went into operation November 2011.

Tree felling was just finishing on this section on 3/7/13. Temporary Work Space (TWS) for the NEUP extended past AR 10 to the west to the first waterbar with additional trees being cut outside of the permanent easement of the 300 Line. The eastside of AR 10 also had additional trees cut 50' into the forest creating distances of 250' on both sides of AR 10. So the 300 Line encroached into the NEUP with clearing and now the NEUP is encroaching into the 300 Line felling trees outside the permanent easement for TWS beyond the current 200' width before the recent tree felling. TGP Environmental Construction Plan states upland areas will typically consist of 100' wide corridor which will be 50' of permanent ROW and 50' of TWS and construction ROW in Wetland and Waterbody areas will be 75' wide (ECP 2.0 Site Description).

My field observations and measurements indicate the Row as it currently exists is much larger at W041 and AR 10 then the permitted width in the ECP 2.0 Site descriptions. With plenty of workspace already cleared TGP encroached on the 300 Line and felled another 50' x 150' of trees for TWS outside of the Permanent Easement. TGP encroached on the NEUP by approximately 300' x 200' during construction of the 300 Line and cut an additional 50' of trees for TWS for the NEUP project making the total width approximately 250' of workspace.

DRN Photo 100_4501 looking North clearing is approximately 250' from TWS stake across ROW

DRN Photo 100_4520 looking Southeast across AR 10 TWS extends 50' past the 300 Line Permanent Easement



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

The first wetland listed for the NEUP is L4 W035 and was identified in the Wetland Delineation Report March 2011 and NJ Individual Freshwater Wetlands Permit October 2011. W035 is listed as “not impacted” in the Wetland Delineation Report and NJ Wetlands Permit. Field observations confirmed the identity of W035 and it is located adjacent just north of the permanent easement. The boundaries of W035 were not clearly marked and difficult to tell how far it extends towards the existing ROW. Since surveying of workspaces has been completed an ATWS is located on the north side of the existing 24” pipeline and just west of where the pipeline enters W036 (9+47). Pre-construction monitoring of this section I have observed and documented a moderate frequent flow down the ROW in the general area of this ATWS and the 2 wetlands W035 and W036. The surface flow enters Pinchot Brook (S010) in a relatively short distance. Directly across from the ATWS are a TWS and an ATWS attached to the TWS. During a field visit 11/6/12 measurements were taken with the help of a volunteer measuring the existing permanent easement first and then from TWS to the back of the ATWS. The distance between the permanent easements was 100’ and TWS measured 153’ with an additional 25’(178’) for the second ATWS at this location in close proximity of W035/W036 with the back edge relatively close to the open marsh of S010 downstream of the ROW.

In the first 900’ of the NEUP after tree felling was completed for this section there is a clearing for TWS approximately 250’ wide by 450’ long encroaching into the 300 Line at AR10 and an area 178’ wide and estimated to be more than 100’ long of TWS adjacent to W036 and close proximity to S010.

DRN Photo 100_4407 taken from
W035 across 178’ of ATWS/TWS

DRN Photo 100_4401 taken looking east
at 178’ of ATWS/TWS adjacent to W036



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

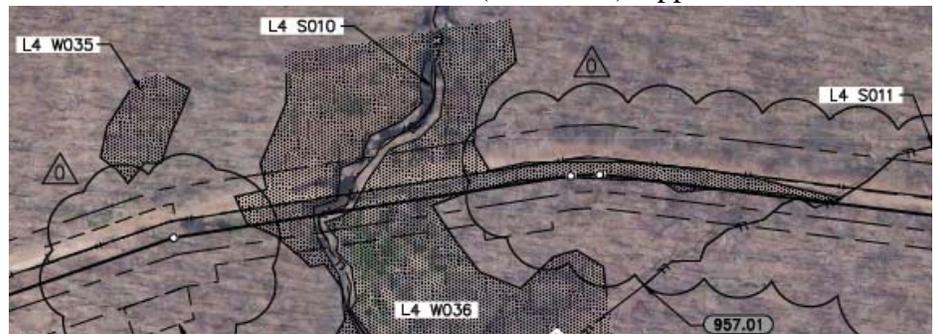
Approaching Pinchot Brook (S010) a No Refueling sign was installed in between W035 and W036. I visited Pinchot Brook several times over the past year and observed and documented surface water flowing down the existing permanent easement into Pinchot Brook from the west. Since resource signage is installed on the center of the pipeline I don't believe the installation of the Wetland Boundary sign for W036 accurately represents the actual wetland boundaries in the field. My observations had surface water and saturated soils closer to the TGP marker (orange and white post) in photo 100_3806 looking east. Note where the snow is melted starting to the right of the No Refueling sign from water that comes to the surface and flows down the existing ROW. Photo 100_3816 was taken looking west from the location of the Wetland Boundary signage for W036. Note the pattern of the snow line; the indent by TGP marker can be seen in the top of photo 100_3816 with moderate flow and green vegetation beyond where Duchess is looking and consistent with melted snow line east to Pinchot Brook.

Photos taken 2/23/13.



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The shaded area of alignment sheet is W036 that has resource signage at 903' apart. Pa Bulletin has a 505' crossing of W036 by TGP. The greenish area (wetland area) in ROW just left and outside of W036 shaded area would support my conclusion that signage for W036 is not accurately installed or delineated with my field observations.



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

Resource signage for Pinchot Brook (S010) had been removed from its previously installed location. The resource signage on 2/23/13 just prior to tree felling activities had signage back to back as were other signage across Pinchot Brook which is associated with W036. A stake with TWS 11+00 remains in the stream at the location. TWS within W036 expanded beyond the 75' construction work area on eastside of Pinchot Brook (see photo 100_4412). TWS stake in the middle Pinchot Brook and associated wetland W036.

DRN Photo 100_3812 pre-tree clearing



DRN Photo 100_3814 TWS 11+00

DRN Photo 100_4412 TWS stake in wetland
tree cutting in background beyond the 75'DRN Photo 100_4415 TWS stake set in stream
stake installed on top of the 24" pipeline (yellow flag)

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TWS was taken on the eastside of Pinchot Brook within the wetland boundaries. The additional workspace extends past the 75' work area for wetland and stream crossings. In the first 1100' of the NEUP after tree felling was completed for this section there is a clearing for TWS approximately 250' wide by 450' long encroaching into the 300 Line at AR10 and an area 178' wide and estimated to be more than 100' long of TWS on west side of S010, and on the eastside TWS is approximately 125' by an estimated 100'

DRN Photo 100_4425 additional TWS within boundaries of W036 (903' crossing)



DRN Photo 100_4451 TWS outside the wetland 75' workspace for wetlands and streams



DRN Photo 100_4452 TWS adjacent to wetlands and S010/S011 beyond the 75' workspace



DRN Photo 100_4470 Flagging can be confusing after tree felling especially at resource locations



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

DCNR property is the only locations that had blue blazes and flagging on trees not to be cut. The following photos are from the first 0.35 miles of the NEUP.

DRN Photo 100_3819 taken 2-23-13 (eastside of S010)



DRN Photo 100_4420 taken 3-7-13



DRN Photo 100_4252 Blue Blaze Mark
tree outside permanent easement of 300 Line

DRN Photo 100_4254 tree outside the permanent
easement Inspectors vehicle parked on AR10



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

DCNR property is the only locations that had blue blazes and flagging on trees not to be cut. Photos of corner trees on AR 10 on the 300 Line that were cut for the NEUP as TWS



DRN Photo 100_1964 taken 10-11-12

DRN Photo 100_4504 taken 3-7-13



DRN Photo 100_2144 taken 11-4-12

DRN Photo 100_4253 taken 3-7-13



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DCNR property is the only locations that had blue blazes and flagging on trees not to be cut. The following photos are from the first 0.35 miles of the NEUP.

DRN Photo 100_4452 tree with pink flagging cut in in TWS extending past 75' within wetland boundaries

DRN Photo 100_4462 tree with blue blaze and pink flagging (oak in foreground)



DRN 100_4451 Marked trees cut

DRN Photo 100_4467 blue blaze tree cut



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

DCNR property is the only locations that had blue blazes and flagging on trees not to be cut. The following photos are marked trees cut from the first 0.35 miles of the NEUP.

DRN Photo 100_4471



DRN Photo 100_4477



DRN Photo 100_4474



DRN Photo 100_4475



March 7, 2013 I accessed TGP on DCNR property at the location where the 300 line ends and NEUP begins. Since I have been monitoring resource signage prior to tree cutting this area on DCNR property is the only location where blue blaze marks and pink flagging was used to mark trees not to be removed. This was not observed in any other locations through Pa or NJ that I visited since resource signage started. As reported in previous reports that surveying and signage installation was almost simultaneously with tree felling activities and was inaccurate and deficient.

The marked trees that were cut are from what I observed surrounding Pinchot Brook and associated wetland W036. No way to be sure how many other marked trees got cut, blue blazes may be buried under trees. If this marked area has this much irresponsible cutting practices, how many perimeter trees have been cut where there has been inadequate resource signage and perimeter flagging documented on the NEUP.

DRN Photo 100_4479



DRN Photo 100_4480 Flagging on cut tree



DRN Photo100_4483 Pink flagging around tree



DRN Photo100_4499 Pink flagging on ground stump out of line with pink flagging marking boundary



Resource signage for S011 does not accurately show its location in the field. S011 flows onto the ROW and then follows ROW to Pinchot Brook. The stream channel appears to be changed by the existing original pipeline now flowing down the ROW.

DRN Photo 100_3075 taken 1-30-13



DRN Photo 100_3915 taken 2-23-13



DRN Photo 100_4413 S011 entering S010
Looking east across Pinchot Brook taken 3-7-13



DRN Photo 100_4438 S011 flowing down ROW
Looking west towards Pinchot Brook taken 3-7-13



Photos taken 12-16-12 of workspaces surveyed but before resource signage was installed and wetlands identified but not clearly delineated. Wetlands W044-W045 are listed as Isolated Wetlands “Not crossed by pipeline in workspace only”. Field observations and documentation shows these wetlands are associated with Laurel Swamp Brook (S020). Photo 100_2805 has wetland identification flagging (pink/black) hanging in foreground with S020 to the left. DRN volunteer standing next to mature oak tree in photo 100_2816 with wetland flagging hanging in foreground in TWS space. The bottom photos show W044 in ATWS/TWS corner markers can be seen in the background. My observations indicate these two wetlands are connected and are associated with S020 and not isolated as listed in Wetland Delineation Report March 2011.

DRN Photo 100_2805 Eastside of Laurel Brook

DRN Photo 100_2816 W045



DRN Photo 100_2817 W044

DRN Photo 100_2818 W044



March 22, 2013 I accessed Deep Brook (S045) and UNT of Deep Brook (S045A) from Route 84 and followed construction ROW east towards Crawford Branch (S046). W091 is adjacent to W090 the partial notes are from the alignment sheet (20120808-5072 (27476900)) page 23/45 shows that W090 does not extend to the west bank of Deep Brook S045 and does not have S045A listed as a TGP crossing. Field observations has W091 extending to the east to foot marker 194+00 connecting these associated wetlands and waterbodies for approximately 200' to the top of west bank S045 at 192+12. Pa Bulletin 12/8/12 has a combined total crossing width of only 61' permitted for these 4 resources. No field delineations for W090/W091 other than resource signage along the northern edge of ROW.

192+12 TOP OF BANK
192+22 CL DEEP BROOK (L4 S045), PROPERTY LINE
192+31 TOP OF BANK
192+39 ENTER WETLAND L4 W090
192+73 EXIT WETLAND L4 W090

193+18 ENTER WETLAND L4 W091
193+51 EXIT WETLAND L4 W091

DRN Photo100_4758 W091 west boundary

DRN Photo 100_4761 looking west towards W090/S045
Note green/blue signage towards stream stake is 193+00.



DRN Photo100_4765 looking west from east boundary W091

DRN Photo 100_4767 194+00



Table 4.3-2 Wetland Delineation Report March 2011

Resource ID	Mile Post	Comments
W035	Mp 0.16	Not impacted
W040	Mp 1.73	Isolated wetland feature
W041	Mp 1.81	Isolated wetland feature
W044	Mp 2.86	Isolated wetland feature/not crossed by pipeline in workspace only
W045	Mp 2.89	Not crossed by pipeline in workspace only
W092	Mp 3.86	Not impacted
W093	Mp 3.91	Not crossed by pipeline in workspace only
W094	Mp 3.97	Isolated not impacted
W101	Mp 5.11	Not impacted
Isolated WL	Mp 5.70	Isolated wetland mapped by FZ/JZ 8/24/12
S013A	Mp 1.22	Associated with W039 not crossed in workspace only
S014	Mp 1.91	Doesn't cross pipeline in workspace only
S015	Mp 2.04	Adjacent to W042/not impacted
S017	Mp 2.02	Adjacent to W042/not impacted

- 1) W035 not delineated is adjacent to an ATWS and close proximity to Pinchot Brook Complex
- 2) W040 is a 380' crossing near Vantine Creek upstream from Milford's water supply
- 3) W041 intersects CGP and field observations have it longer than the 22' listed and upstream Vantine Creek
- 4) W044 associated with Laurel Brook (EV) not delineated during tree felling 2/15/13
- 5) W045 associated with Laurel Brook (EV) not delineated during tree felling 2/15/13
- 6) W092 associated with Deep Brook (EV) not delineated during tree felling 2/15/13
- 7) W093 not crossed by pipeline in workspace only (not visited by DRN staff)
- 8) W094 Isolated not impacted (not visited by DRN staff)
- 9) W101 Not impacted but associated with W102, S056, S057 and S058 complex of streams and wetlands
- 10) Isolated wetland mapped by FZ/JZ 8/24/13 No signage or delineated prior to tree felling 2/24/13
- 11) Tributary of Dimmick Meadow (EV) not crossed in workspace only (2 streams cross pipeline in field)
- 12) S014 doesn't cross pipeline in workspace only/associated with W042
- 13) S015 Adjacent to W042 part of the Vantine complex feeds Milford's water supply
- 14) S017 Adjacent to W042 part of the Vantine complex feeds Milford's water supply
- 15) ATWS on stream bank of Vandermark Creek (EV)

Table 2.2-8

- 16) S059C is an UNT of the Delaware River not Cummins Creek
- 17) S059C crosses pipeline multiply times (stream parallels pipeline with TWS stake in stream)
- 18) S059 is an UNT of the Delaware River not Cummins Creek
- 19) Rosetown Creek is not crossed by the pipeline is enters the Delaware River 2 miles north

Table 2.2-8 Waterbodies Associated with the NEUP in Pa. (NJ FFW permit) October 2011

Table 2.2-8 Waterbodies Associated with the Northeast Upgrade Project in Pennsylvania – Loop 323												
Waterbody ID	Waterbody Name (where applicable) ^a	Approximate MP ^b	Latitude Longitude	Township / County	Quadrangle	Type ^c	Water Crossing Length ^d (feet)	FERC Class ^e	Ch. 94 Water Quality Designation / Fishery Classification ^f	Timing Restriction ^g	Crossing Method ^h	Comment
L4 S046	Crawford Branch	4.24	41.35111 -74.7889	Westfall / Pike	Milford	I	22	I	HQ-CWF	N/A	II	Field surveyed spring 2011.
L4 S055	Cummins Creek	4.9	41.35378 -74.7662	Westfall / Pike	Milford	P	32	I	HQ-CWF	N/A	II	Due to no-access; portions were digitized and will be field-delineated during Spring 2011 surveys -
L4 S056	UNT Cummins Creek	5.18	41.35453 -74.7609	Westfall / Pike	Milford	I	30	I	HQ-CWF	N/A	II	-
L4 S057	UNT Cummins Creek	5.22	41.35484 -74.7601	Westfall / Pike	Milford	I	5	MI	HQ-CWF	N/A	II	
L4 S058	UNT Cummins Creek	5.25	41.3547 -74.7596	Westfall / Pike	Milford	I	2	MI	HQ-CWF	N/A	II	Associated with W102
L4 S059C	UNT to Cummins Creek	5.72	41.35213 -74.7516	Westfall / Pike	Port Jervis South	I	19	I	HQ-CWF	N/A	II	L4 S059C crosses pipeline multiple times-
L4 S059C	UNT to Cummins Creek	5.74	41.35194 -74.7512	Westfall / Pike	Port Jervis South	I	65	I	HQ-CWF	N/A	II	L4 S059C crosses pipeline multiple times
L4 S059C	UNT to Cummins Creek	5.77	41.35173 -74.7506	Westfall / Pike	Port Jervis South	I	6	MI	HQ-CWF	N/A	II	L4 S059C crosses pipeline multiple times
L4 S059C	UNT to Cummins Creek	5.81	41.35149 -74.75	Westfall / Pike	Port Jervis South	I	17	I	HQ-CWF	N/A	II	L4 S059C crosses pipeline multiple times
L4 S059C	UNT to Cummins Creek	5.82	41.35144 -74.7499	Westfall / Pike	Port Jervis South	I	25	I	HQ-CWF	N/A	II	L4 S059C crosses pipeline multiple times
L4 S059	UNT to Cummins Creek	5.82	41.35139 -74.7498	Westfall / Pike	Port Jervis South	P	10	MI	HQ-CWF	N/A	II	-
L4 S047A	Rosetown Creek (Tributary 05267 to Delaware River)	6.29	41.34801 -74.7448	Westfall / Pike	Port Jervis South	I	37	I	HQ-CWF	N/A	HDD	-

March 22, 2013 I accessed the UNT (S059) of the Delaware River from Route 84 to where TGP crosses S059. After tree felling was completed a number of trees and logs still remain in the steep gorge of S059. On the south side of S059 TGP's construction ROW parallels S059C with trees cut right up to the stream's channel which is a steep slope draining down to S059C which TGP crosses further upstream. No signage or identification of a wetland Faith Zerbe and I mapped on 8/24/12 where TGP crosses S059C.

DRN Photo 100_4705 looking south
S059C is on right of tree clearing



DRN Photo 100_1413 8/24/12 Wetland identified
in field but not listed in TGP permits/plans



DRN Photo 100_4710 felled trees in S059 gorge



DRN Photo 100_4721 volunteer looking across S059 at
S059C with tree felling paralleling stream on right



March 22, 2013 I accessed Deep Brook (S045) and UNT of Deep Brook (S045A) from Route 84. TGP crosses S045/S045A. S045A is a small stream parallel to S045 at the crossing and is associated with W090. W090 is listed as a 21' wide crossing spanning both sides of S045 which is listed as a 20' wide crossing. Alignment sheets (20120808-5072 (27476900)) does not show W090 extending to the west of S045 or show S045A which does not have resource signage at TGP crossing. No delineation of W090 in the field confusing where W090 ends or where S045A begins but W090 is much larger than 21' wide crossing or a foot wider than S045 crossing width of 20'.

DRN Photo 100_4734 S045A no resource signage DRN Photo 100_4737 S045A buried under felled trees



DRN Photo 100_4742 W090 signage west side of S045 DRN Photo 100_4744 signage on east side of S045
Same ID for W090 on both sides of S045 with no field delineation other than the resource signage



March 22, 2013 I accessed Deep Brook (S045) and UNT of Deep Brook (S045A) from Route 84 and followed construction ROW east towards Crawford Branch (S046). W093 is listed as “not crossed by pipeline workspace only”. I believe an unidentified stream exiting south of TGP’s ROW is connected to W093 under the pile of felled trees. Field observations has surface water downhill from W093 resource signage crossing woods road in TGP’s ROW and exits as an unidentified stream. No field delineations for W093 and no identification for the stream exiting ROW however I believe they are connected crossing TGP’s ROW.

DRN Photo 100_4836 view northeast



DRN Photo 100_4833 view northeast



DRN Photo 100_4787 surface water crossing ROW



DRN Photo 100_4788 view southwest



March 22, 2013 I accessed Deep Brook (S045) and UNT of Deep Brook (S045A) from Route 84 and followed construction ROW east towards Crawford Branch (S046). W093 is listed as "not crossed by pipeline workspace only". Photo100_4792 shows Duchie drinking surface water at uprooted tree where photo 100_4796 shows volunteer standing between resource signage for W093 and uprooted tree with surface water flowing into ROW above where it crosses woods road on page 1 photo 100_4787 "surface water crossing ROW". Field observations has surface water extending outward from resource signage for W093 and that W093 does cross into ROW and is larger than signage indicates and impacted by pipeline.

DRN Photo100_4792 Duchie drinking surface water



DRN Photo 100_4796 west view of uprooted tree



DRN Photo 100_4798 surface water clearly flowing into ROW



DRN Photo 100_4800 surface water above the wetland boundary signage



March 22, 2013 I accessed Deep Brook (S045) and UNT of Deep Brook (S045A) from Route 84 and followed construction ROW east towards Crawford Branch (S046). W093 is listed as "not crossed by pipeline workspace only". Photos 100_4825 and 100_4775 note contrast between open clearing and forested wetland. Photos 100_4813 and 100_4810 has pink and black wetland delineation flagging in the middle of ROW tree felling with no resource signage or other identification associated with flagging.

DRN Photo 100_4825 W093 flowing into ROW



DRN Photo 100_4775 unidentified stream flowing out of ROW view south from ROW



DRN Photo 100_4813 unidentified wetland in ROW



DRN Photo 100_4810 wetland flagging (pink/black) in the middle of ROW west of Crawford Branch



March 24, 2013 I accessed TGP through land owner’s property west of Vandermark Creek (S019) in Milford Township. Laurel Swamp Brook (S020) has 3 wetlands associated with it W043, W044 and W045 with only W043 listed as impacted. Field observations before and after tree felling indicates wetlands W044 and W045 are crossed by the pipeline and will be impacted. They are listed as “isolated” but field observations show they are just upstream and have a hydrologic connection with Laurel Swamp Brook.

DRN Photo 100_4862 W043 extends across S020



DRN Photo 100_4863 East view wetland signage continuing upslope of S020 along existing ROW



DRN Photo 100_4874 Cut trees piled in W044



DRN Photo 100_4882 West view W045



March 24, 2013 I accessed TGP through land owner’s property west of Vandermark Creek (S019) in Milford Township. Laurel Swamp Brook (S020) has 3 wetlands associated with it W043, W044 and W045 with only W043 listed as impacted. Field observations before and after tree felling indicates wetlands W044 and W045 are crossed by the pipeline and will be impacted. Wetland boundary signs are adjacent to existing ROW where wetlands delineation and observations show they are also physically on opposite side of ROW. They are listed as “isolated” but field observations show they are just upstream and have a hydrologic connection with Laurel Swamp Brook. W044 is buried under felled trees and can’t be physically located.

DRN Photo 100_4896 W045



DRN Photo100_4900 W045 Workspace in wetland



DRN Photo 100_4903 W045 Delineation Flagging



DRN Photo 100_4905 W045 Flowing into ROW



April 6, 2013 I accessed TGP in High Point State Park at Sawmill Road. Silt fencing barriers are lining the road, I believe they are the “exclosures” to keep turtles and other amphibians out of the construction work areas as they come out of hibernation. The tree clearing where TGP crosses Sawmill Road on the Westside measured over 200’. They cleared a whole new ROW to the south of the existing line instead of paralleling the 24” line as shown in the alignment sheet 20120808-5072(27476900) page 34/45 below. The alignment sheet shows a very narrow workspace with the 30” line next to the existing 24” line.

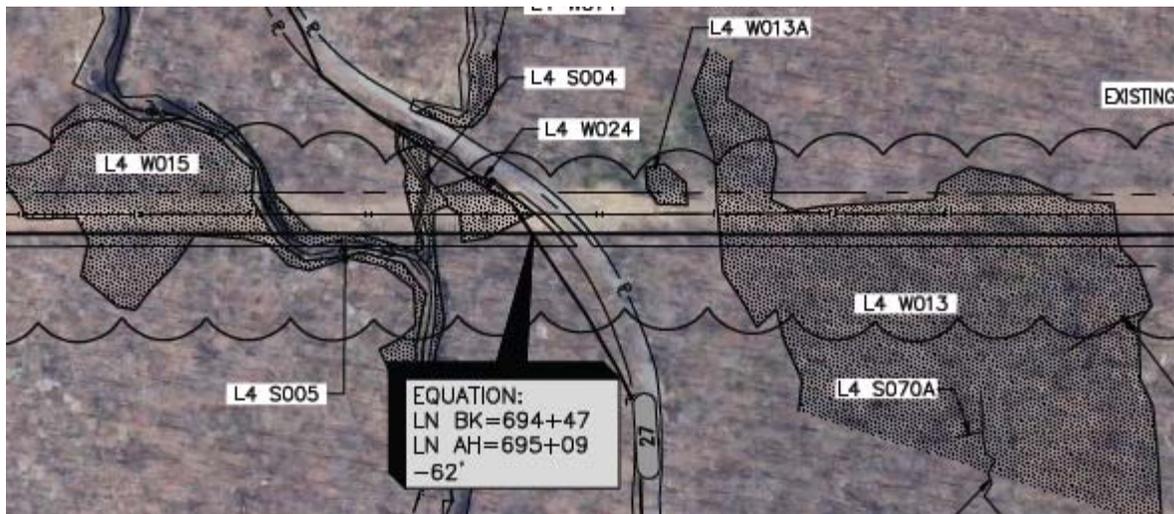


Photo 100_4955 shows the existing 24” line on the other side of my car and a 200’ tape measurer stretched out to its maximum length. Photo 100_4983 shows the existing ROW to the far right of photo the 24” line is on the other side of my car. TGP cut a “new” ROW (estimate 100+ feet and several hundred feet deep) off the existing ROW leaving a narrow strip of trees where the alignment sheet shows the narrow construction ROW. The alignment sheet shows the 30” line to the north of the big bend of Big Flat Brook (S005) but it is actually to the south and approximately 100’ wide where it crosses the Big Flat Brook.

DRN Photo 100_4955 looking north Sawmill Rd

DRN Photo 100_4983 looking west across Sawmill Rd



April 6, 2013 I accessed TGP in High Point State Park at Sawmill Road. Silt fencing barriers are lining the road, I believe they are the “exclosures” to keep turtles and other amphibians out of the construction work areas as they come out of hibernation. The tree clearing where TGP crosses Sawmill Road on the Westside measured over 200’. They cleared a whole new ROW to the south of the existing line instead of paralleling the 24” line as shown in the alignment sheet 20120808-5072(27476900) page 34/45 below. The alignment sheet shows a very narrow workspace with the 30” line next to the existing 24” line.

Notes alignment sheet

FWW Permit Environmental Report October 2011 Appendix C Table 2.2-9 “Waterbodies associated with the NEUP in NJ Loop 323” has L4 S005 Big Flat Brook mp 13.13 associated with W014. Table 2.3-7 “Wetlands associated with the NEUP Loop 323” does not have L4 W014 listed as a crossing but is shown on alignment sheet and crosses the pipeline ROW.

Alignment sheet also shows L4 W024 is entered at 693+61 and exits at 695+14 Table 2.3-7 does not list L4 W024 as being in the project area.

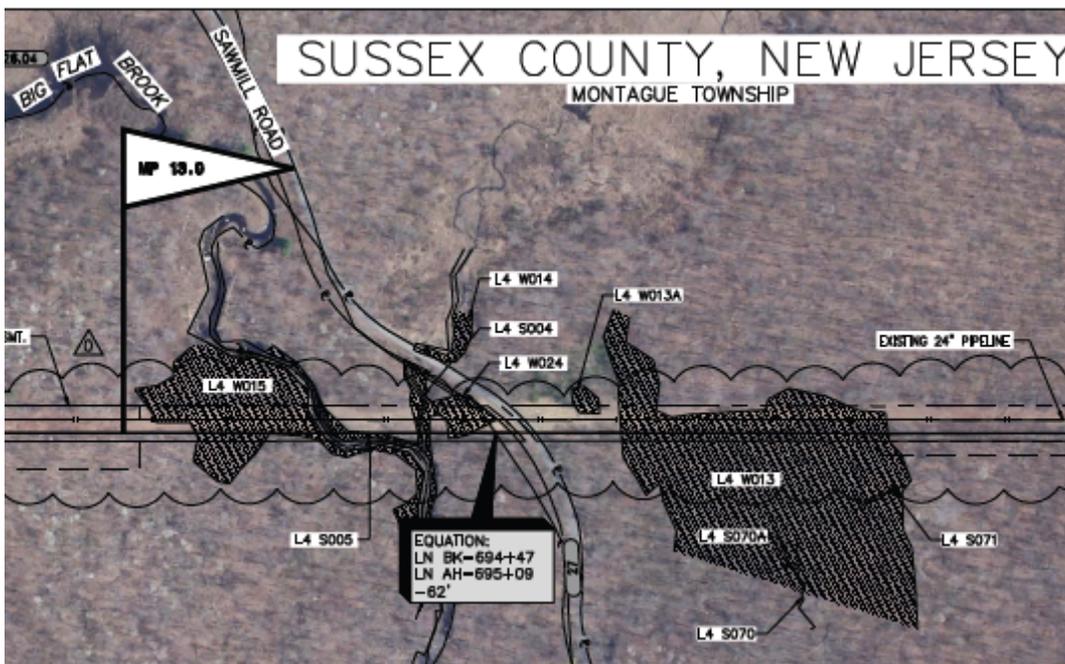
L4 W013A has resource signage in the field but not in table 2.3-7 or on the alignment sheets.

Resource signage in place and on the alignment sheet for S004 but not listed in Table 2.2-9 of FWW Permit

688+26 ENTER WETLAND L4 W015

691+31 TOP OF BANK
691+42 CL. BIG FLAT BROOK L4 S005, PROPERTY LINE
691+53 TOP OF BANK
692+88 EXIT WETLAND L4 W015
693+03 ENTER WETLAND L4 W015
693+15 CL. STREAM (L4 S004)
693+30 EXIT WETLAND L4 W015
693+61 ENTER WETLAND L4 W024
EQUATION 694+47 BK= 695+09 AHD (-62’)
695+14 EXIT WETLAND L4 W024
695+18 VENT PIPE 24’ LT.
695+40 PROPERTY LINE, EDGE OF ROW
695+53 EDGE OF ROAD
695+63 CL. SAWMILL ROAD (ASPHALT)
695+65 VENT PIPE 24’ LT.
695+74 EDGE OF ROAD
695+83 PROPERTY LINE & EDGE OF ROW
697+31 GUARD RAIL
697+31 GATE 8’ LT.
697+38 ENTER WETLAND L4 W013

702+48 EXIT WETLAND L4 W013



DRN Photo 100_4952 W024 Wetland Boundary
W024 is not listed in Table 2.3-7 FWW Permit



DRN Photo 100_4979 W013A Wetland Boundary
W013A is not listed in Table 2.3-7 or alignment sheet



DRN Photo 100_4984 S004 Waterbody
S004 is not listed in Table 2.2-9 FWW Permit



DRN Photo 100_4983 "New" ROW
South of Existing ROW-Construction area >200'
View looking west across Sawmill Road



Table 2.2-7 Wetlands associated with NEUP in NJ-Loop 323

Resource ID	Mile Post	Comments
L4 W060A	7.25	Associated with S050
L4 W060B	7.30	Isolated wetland/not crossed by <i>wetland</i> (?) in workspace only
L4 W060	7.32	Associated with S030
L4 W061	7.37	Associated with S032
L4 W110	7.88	Crossing length 5'
L4 W111	7.95	Crossing length 0'
L4 W114	8.01	Crossing length 0'
L4 W115	8.03	Crossing length 6'
L4 W117	8.04	Crossing length 0'
L4 W118	8.07	Crossing length 68'
L4 W112	8.13	Crossing length 1'
L4 W119	8.18	Crossing length 0'
L4 W121	9.20	Crossing length 198'
Weider Road		Crosses road then goes through Montague pipeyard
L4 W057	9.43	Crossing length 289'
L4 W033	9.56	Crossing length 106'
L4 W065	9.67	Crossing length 48'
L4 W058	9.82	Crossing length 110'
L4 W059	9.91	Crossing length 175'
L4 W075	10.04	Associated with S034, S034A, S034B, and S034C
L4 W076	10.24	Isolated wetland feature/Not crossed by pipeline in workspace only
L4 W077	10.35	Associated with S034, S034A, S034B, and S034C
L4 W063	10.43	Crossing length 366'
L4 W063D	10.49	Crossing length 6'
L4 W078	10.56	Associated with S040
L4 W030	10.67	Crossing length 229'
L4 W031	10.96	Crossing length 244'
L4 W025	11.31	Crossing length 207'
L4 W026	11.45	Isolated wetland feature/in workspace only
L4 W027	11.6	Associated with Shimers Brook
L4 W028	11.83	Isolated wetland feature/in workspace only
L4 W029	11.89	Crossing length 250'
L4 W032	11.93	Crossing length 62'
L4 W022	12.21	Not impacted
L4 W021	12.32	Crossing length 410'
L4 W020	12.50	Associated with S006
L4 W019	12.63	Not crossed by pipeline in workspace only
L4 W018	12.68	Not crossed by pipeline in workspace only
L4 W017	12.81	Isolated wetland feature
L4 W016	12.90	Crossing length 639'
L4 W015	13.10	Associated with S005
L4 W013	13.26	Crossing length 484'
L4 W011	13.90	Associated with S003
L4 W009	14.12	Associated with S002/S002A

Resource ID	Mile Post	Comments
L4 W008	14.24	Not crossed by pipeline in workspace only
L4 W008A	14.25	Workspace only
L4 W005	14.88	
L4 W003	15.50	Not crossed by pipeline in workspace only
L4 W002A	15.56	
L4 W002	16.04	Not crossed by pipeline in workspace only

FWW Permit October 2011
Table 2.2-9 Waterbodies associated with NEUP in NJ-Loop 323

Waterbody ID	Waterbody	Mile Posts	Timing restrictions	Comments
L4 S049	UNT Delaware River	6.57	N/A	Backwater area of Delaware River
L4 S050	UNT Delaware River	7.24	N/A	Associated with W060A
L4 S030	Unnamed Backwater	7.32	July 1-May 1	Associated with W060
L4 S105	UNT of Unnamed Backwater	7.89	July 1-May 1	Associated with W110
L4 S106	UNT of Unnamed Backwater	7.91	July 1-May 1	
L4 S107B	UNT of Unnamed Backwater	8.00	July 1-May 1	Associated with W112/W113
L4 S108A	UNT of Unnamed Backwater	8.03	July 1-May 1	Associated with W115
L4 S108	UNT of Unnamed Backwater	8.04	July 1-May 1	Associated with W115/W116/W117
L4 S108B	UNT of Unnamed Backwater	8.07	July 1-May 1	Associated with W118
L4 S110	UNT of Unnamed Backwater	8.08	July 1-May 1	Associated with W118
L4 S111A	UNT of Unnamed Backwater	8.10	July 1-May 1	Associated with W118
L4 S111A	UNT of Unnamed Backwater	8.10	July 1-May 1	Associated with W118
L4 S111E	UNT of Unnamed Backwater	8.15	July 1-May 1	Associated with W118
L4 S114	UNT of Unnamed Backwater	8.38	July 1-May 1	
	TGP Crosses Weider Road			
L4 S033	UNT Shimers Brook	9.44	March16-Sept 14	Associated with W057
L4 S036	Unnamed pond	9.93	July 1-May 1	
L4 S008	Holiday Lake	10.01	July 1-May 1	
L4 S034A	UNT to Shimers Brook UNT	9.98	March16-Sept 14	Associated with W075
L4 S034B	UNT to Shimers Brook UNT	10.02	March16-Sept 14	Associated with W075
L4 S035	Shimers Brook	10.34	March16-Sept 14	Associated with W077
L4 S035C	UNT to Shimers Brook UNT	10.35	March16-Sept 14	Associated with W077/Workspace only
L4 S035B	UNT to Shimers Brook UNT	10.36	March16-Sept 14	Associated with W077/Workspace only
L4 S040	Shimers Brook	10.56	March16-Sept 14	Associated with W078
L4 S062	Shimers Brook UNT	11.64	March16-Sept 14	
L4 S006	Parker Brook	12.47	March16-Sept 14	Associated with W020
L4 S005	Big Flat Brook	13.13	July 1-May 1	Associated with W014
L4 S003	Big Flat Brook UNT	13.91	July 1-May 1	Associated with W011
L4 S002	UNT to Big Flat Brook UNT	14.14	July 1-May 1	Associated with W009/S002A/S002B
L4 S001	Clove Brook UNT	14.63	July 1-May 1	Associated with W007
L4 S075	UNT Papakating Creek	15.59		Associated with W002A

The attached table and Loop 323 section are from the Environmental Assessment. Note in Table 2.4.3-1 High Point State Park starts at MP 10.0 also in the attached paragraph 323 Loop.

The FWW Permit Table 2.2-9 Waterbodies Associated with the NEUP in NJ-Loop 323 has L4 S008 (Holiday Lake) in High Point Country Club a private development and golf course at MP 10.1...

MP 10.01 would put Holiday Lake in High Point State Park approximately a mile away.

That would put L4S034A/W034B (several wetlands also) on the golf course and in Holiday Lake in the FWW Permit. 0.10 mile is 528' so they would come out of Holiday Lake at approximately mp 10.20 .

Table 2.2-9
Waterbodies Associated with the Northeast Upgrade Project in New Jersey – Loop 323

Waterbody ID	Waterbody Name (where applicable) ^a	Approximate MP ^b	Latitude Longitude	Township / County	Quadrangle	Type ^c	Water Crossing Length ^d (feet)	FERC Class ^e	Water Quality / Fishery Classification ^f	Timing Restriction ^g	Crossing Method ^h	Comment
L4 S008	Holiday Lake	10.01	41.30917 -74.7398	Montague / Sussex	Milford	Pond	1,151	MA	FW2-NT	July 1 - May 1	I	
L4 S034A	Unnamed tributary to Shimer's Brook UNT	9.98	41.30116	Montague / Sussex	Milford	I	13	I	FW2-TPC1	March 16 - September 14	I or II	Associated with W075
L4 S034B	Unnamed tributary to Shimer's Brook UNT	10.02	41.30073 -74.7444	Montague / Sussex	Milford	I	9	MI	FW1-TPC1	March 16 - September 14	I or II	Associated with W075

Loop 323

No Net Loss

As described below, several state-owned lands would be affected by the Project. Construction and tree removal on state-owned land would trigger New Jersey's NNRA. The NNRA states that trees must be replaced when they are removed during development projects involving 0.5 acre or more (NJDEP, 2011a). While the requirements of the act typically only apply to state entities, TGP has committed to complying with state requirements for these areas, which would involve the development of a reforestation plan for the tree impacts associated with the Project (NJDEP, 2011a).

High Point State Park

Loop 323 would cross High Point State Park at various locations between MPs 10.0 and 14.4 (see table 2.4.3-1). The park, which is managed by the NJDEP, Division of Parks and Forestry, is named for the highest peak in the State of New Jersey and part of the Kittatinny Mountain Range. Although not near the Project area, the park hosts the High Point Monument, a 220-foot-tall structure that offers views of the Pocono Mountains, the Catskill Mountains, and the Wallkill River Valley. Common recreational activities and facilities available to the public within High Point State Park includes camping, picnicking, hiking, mountain biking, horseback riding, cross-country skiing, snowshoeing, dog sledding, snowmobiling fishing, a homeowner firewood plan, interpretive educational programs, boating, and hunting. Peak use of the park is between June and August, with periodic high-use periods during the winter associated with ice fishing, snow shoeing, and cross-country skiing (NJDEP, 2011b). Within the park, Loop 323 would cross the Sawmill Loop Trail, the Appalachian Trail (MP 14.4; discussed below), and an unnamed trail, as well as several waterbodies, including Shimer's Brook (MP 10.6), Parker Brook (MP 12.5), and Big Flat Brook (MP 13.1). The nearest campground is located over 1.0 mile from the Project.

TABLE 2.4.3-1

Recreation and Special Interest Areas Crossed by the Project

State/Milepost	Name of Area	Land Ownership/ Management	Crossing Length (feet)	Area Affected (acres)	
				Const. ^a	Oper. ^b
Pennsylvania					
Loop 317					
0.2 – 0.4	Susquehanna River Water Trail, North Branch Section and Susquehanna River	State of Pennsylvania, Department of Conservation and Natural Resources, Bureau of Forestry/National Park Service (trail and waterbody) and Susquehanna Greenway Partnership (trail)	1,196	0.0 ^d	0.0 ^d
3.1	U.S. Route 6 Grand Army of the Republic Highway Recreational Trail	Pennsylvania Department of Transportation/Grand Army of the Republic Highway Association	291	0.0	0.0
Loop 323					
0.0 – 0.9	Delaware State Forest	State of Pennsylvania/ Department of Conservation and Natural Resources, Bureau of Forestry	4,655	10.9	2.6
New Jersey					
Loop 323					
14.4	Appalachian National Scenic Trail	State of New Jersey/New Jersey Department of Environmental Protection (NJDEP), Division of Parks and Forestry	2	<0.1	<0.1
10.0 – 10.3	High Point State Park	State of New Jersey/NJDEP, Division of Parks and Forestry	20,256	44.1	7.0
10.5 – 10.9					
11.1 – 11.9					
11.9 – 13.2					
13.2 – 14.4					
Loop 325					
0.0 – 7.6	Highlands Region	Various/NJDEP	40,311	83.4	14.8
0.0 – 0.2	Long Pond Ironworks State Park	State of New Jersey/NJDEP, Division of Parks and Forestry	4,174	8.1	1.0
0.5 – 1.1					
0.2 – 0.5	Monksville Reservoir	State of New Jersey/NJDEP	1,419	0.0 ^d	0.0 ^d
1.2 – 1.6	Waterview (Green Acres Program Property)	Passaic River Coalition	2,100	4.9	1.2
1.6 – 2.0	(Green Acres Program Property)	Passaic River Coalition	1,766	4.0	1.0
2.6 – 3.2	Wanaque Reservoir Watershed Property	North Jersey District Water Supply Commission	3,080	6.8	1.5
3.3 – 3.4 ^c	Baseball field	Borough of Ringwood	525	1.2	0.3
3.4 – 3.5	Ringwood State Park (partial Green Acres Program Property)	State of New Jersey/NJDEP, Division of Parks and Forestry	19,352	41.4	6.2
3.5 – 7.0					
7.0 – 7.5	Ramapo Valley County Reservation (Green Acres Program Property)	Bergen County, Department of Parks	2,600	6.0	1.5
^a Assumes a 100-foot-wide construction right-of-way, which includes 25 feet of existing permanent right-of-way, 25 feet of new permanent right-of-way, and 50 feet of temporary construction workspace. ^b Assumes 25 feet of new permanent right-of-way. ^c Includes mainline valve 328-2, which would be installed adjacent to the baseball field. ^d Direct impacts on the area would be avoided by use of the horizontal directional drill method.					

May 17, 2013 I visited land adjacent to TGP's ROW from the end of Mountain Road in Montague NJ. DRN representatives have written permission to access these properties adjacent to the ROW. This section of pipeline has several sensitive resources that are UNTs of Unnamed Backwater of the Delaware River and have "Timing Restrictions" for construction activities. The Timing Restrictions are July 1-May 1 when "construction activity can occur". Resource signage has been a continual problem in this area with several reports filed with inadequate with incomplete information.

1) The wetland delineation report Appendix "D" has 11 UNT to Unnamed Backwater of the Delaware River listed under Waterbody Name with no ID numbers assigned to them. Appendix "E" Wetlands lists 9 wetlands with no ID numbers assigned to them.

This is consistent with Tables 2.2-7 and 2.2-9 of the FWW Permit October 2011

2) September 29, 2012 I performed a survey of these waterbodies/wetlands using a GPS unit I mapped 25 resources identifying them by ID numbers using blue survey flags in the field, 16 waterbodies and 9 wetlands. See Report 022

3) Below is from the FWW Permit under Endangered and Threatened Special Conditions and has 31 Delaware River tributaries no wetlands listed.

#2

In order to protect **wood turtle (*Glyptemys insculpta*)** and its habitat **downstream of the following locations: Delaware River tributaries: L4 S105, L4 S106, L4 S107, L4 S107B, L4 S107C, L4 S108A, L4 S108B, L4 S110, L4 S111, L4 S111C, L4 S111A, L4 S111E, L4 S111F, L4 S111G, L4 S112, L4 S113, L4 S113A, L4 S113B, L4 S113C, L4 S113D, L4 S114, L4 S114A, L4 S114B, L4 S114C, L4 S114D, L4 S115, L4 S116, L4 S118, L4 S119, L4 S119A, L4 S119B; Shimers Brook tributaries: L4 S033, L4 S036A, L4 S036; Clove Brook tributary: L4 AR50 S007; the permittee must employ the most stringent soil erosion and sediment control BMPs available to ensure that there is no increase in sedimentation or turbidity downstream of the construction site.**

See Picasa Album "Inadequate Signage" for condition of Resource Signage after "Tree Felling" and prior to this stage of construction.

The rock construction entrance off of Mountain Road is a fine crusher dust which I don't believe meet specifications for size of rock that is required. The crusher dust does nothing to help remove mud/dirt from the tires of construction vehicles and resulted in dust particles to enter the air when trucks entered and left the site.

Picasa album Construction activity Merusi P1000650, 652, 653, 654, 655

Grading and clearing was taking place from the access road along the ROW towards Weider Road. Two pieces of equipment were operating in the ROW; a skidder and an excavator with logging and dump trailer trucks entering and exiting the site. The excavator was removing stumps, piling brush and tree debris as timber mats were being laid. The operator's vehicles were parked on the ROW in front of Mr. Merusi's backdoor, one pickup had a fuel tank on the back. I didn't observe any special areas for fueling especially with secondary spill containment areas. No supervisor/inspector on site.

Picasa album Construction activity Merusi P1000639-647

Perimeter E&S silt fence had been partially installed along the west or downhill side of the site but no controls where logs and debris were being staged for loading and transportation from the site. A skidder would take the pre-fabricated timber mats along the travel way and dropped them and then grab trees to haul back to the staging area. The uphill side lacks adequate E&S controls as is where the workspace is where these temporary bridges are being installed. I observed the excavator grubbing up this soil and just laying the timbers on the fresh soil with root and tree debris then packing it down banging it with the bucket. They had a couple resources staked out with a mix of; single layer of silt fencing, hay bales, some staked some not, fabric under some of the timbers with plywood side boards but limited protection to the waterbodies with all the open ground. I observed only the two equipment operators on site crossing these highly sensitive resources.

Picasa Album Signage

Waterbody L4 S105 flows from a fresh water spring house that's associated with L4 W110 wetland. Photos P1000516-521 627-633 shows the current condition of these 2 Sensitive Resources;

- 1) Timber bridge installed with sideboards but single layer of silt fencing, downstream side encloses the wetland but does not allow for the outlet of S105.
- 2) I didn't observe S106 or signage for it.
- 3) I observed signage for S107C but is not listed on FWW Permit 2011
- 4) The area ahead of the excavator had signage still trashed under the trees
- 5) E&S controls appear to be installed after the earth disturbance while clearing/grubbing
- 6) One wetland area had un-staked hay bales in disturbed soils
- 7) The grading appears to be eliminating and alternating this series of Sensitive Resources

Picasa Albums Stream and Pond

Photos of waterbodies adjacent to or just in front of the active construction equipment and pond photos show where a slight light coloring in the inlet to the pond and contributing waterbodies. Note the weather has been extremely dry so very little problems with sediment other than dust particles.

Conclusion:

My observations reveal poor use of BMP's in an area that the FWW Permit states TGP "must employ the most stringent E&S controls available to ensure that there is NO increase in sediment and turbidity downstream of the construction site." I don't believe that crusher dust is an approved E&S method (stone size) at the construction entrance. The amount of un-stabilized soil is certainly a pollution threat to these sensitive resources of the Delaware River. I believe construction activity is continuing in this area with timing restriction with clearing/grubbing and grading going on in and along these sensitive resources.

Picasa folder 5-21-13 Shimer Brook HPSP

I accessed L 4 S035 Shimer Brook in High Point State Park to find trenches open prior to pipe being delivered to ROW. There is considerable amount of disturbed soils without temporary stabilization allowing for possible sediment to enter the stream. The stream bank has been graded and cut down for easier access for construction equipment along ROW.

The ECP section 5.13.1.5 Clearing/Grading states; if “grading is necessary to install equipment bridges, the exposed soils shall be immediately stabilized”.

The equipment bridge E&S controls are in need of repairs; sections of side boards are missing, the ends of equipment bridge have inadequate E&S controls and can be potential areas for sediment to enter the stream.

Picasa folders 5-22-13 Wetlands HPSP

Picasa folders 5/22/13 HPSP Draining Wetlands /5/22/13 Draining Wetlands 2nd one

I accessed L 4 S035 High Point State Park from Ridge/Sawmill Roads to find trenches open prior to pipe being delivered to ROW. There is considerable amount of disturbed soils without temporary stabilization allowing for possible sediment to enter the stream. There are 2 trenches dug below wetland areas that are filled with water and overflowing at bottom of the trench.

Picasa folder 5/22/13 Solid Cribbing across W020/S006

Additional timber cribbing installed across Parker Brook S006 and associated wetland W020 (663' crossing)...timbers coated with sediment, no sideboards on equipment bridge. Additional timbers appear to be damming up wetlands/stream. It doesn't appear the west side of wetland has cement coated pipes...plain coated pipes extend into wetlands on west side.

Picasa folder 5-22-13 Ridge Rd crossing

The road has mud on it several hundred ft past the crossing, pipe trucks and the like enter ROW off of Sawmill drop their loads and proceed to Ridge Road and turn right to keep construction vehicles moving. The Porto John sits on ATWS TGP cut a perfect mature White Oak down for sitting a Porto John stump still visible...HPSP they area supposed to conserve tree cutting they have a zero net lose of trees. Open pits lacking adequate safety fencing along a State Park Road with Holiday weekend approaching. The worker is cleaning the tracks of the excavator in the wetland area with bucket lifting the machine is on the existing pipeline. Again considerable amount of workspace at Ridge Road.

Picasa folder 5-22-13 Wetland Disturbances

Wetland disturbance on both sides silt fencing in W020. Timber mats are laying on the wetland soils cause mud to ooze up and splash onto the silt fencing in W021 when equipment drives over it causing muddy water to flow through wetland.

Picasa folder 5-22-13 Sawmill Road crossing

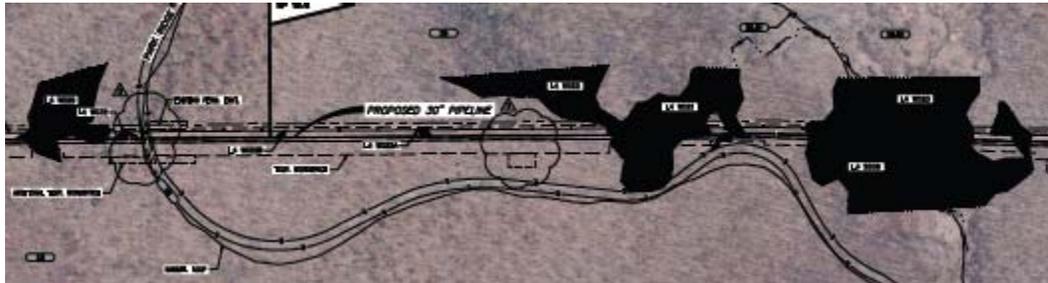
A complete new ROW was cleared even though the new pipe is crossing under the next to the existing pipeline. I believe several wetlands have be compromised and not listed on the FWW permit. Resource signage was in place and not on the FWW permit in this area. The large disturbance is located along S005 Big Flat Brook that has the July 1-May 1 timing restrictions. Open pits from the boring with inadequate fencing along the State Park Road on a Holiday weekend. Top soil looks like wetland soils grubbed up...appears to have a considerable amount of tree debris mixed in. Other photos show the additional construction workspace/ROW where it co-locates with the existing pipeline further to the west.

Picasa folder 5-22-13 inadequate E&S controls

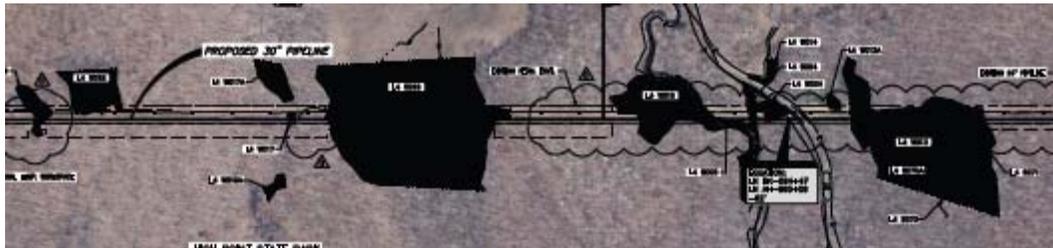
Hay bales are not staked down, wetland resource signage missing and stake knocked down. Several areas have rocks against silt fencing. Green filter socks don't appear to have adequate compost in them. There are many locations for sediment to enter wetlands from timber bridges.

Below are the alignment sheets for 5-22-13 Report 059

Appendix C alignment sheet page 33/45 Parker Brook west to Ridge Road crossing.



Appendix C alignment sheet page 34/45 Parker Brook/W020 east to Sawmill Road crossing



The look down showing 75' workspace at Sawmill Road crossing page 34/45

