

From: [Stahl, Megan D.](#)
To: [Jennifer Stanhope](#); [Amanda Mardiney](#)
Cc: [james.martin@ferc.gov](#); [Paul Friedman](#); [Lavinia DiSanto](#); [Cindy Schulz](#); [Troy Andersen](#); [John Schmidt](#); [Tiernan Lennon](#); [Eggerding, Matthew](#); [Rebeca Giacomani](#); [Jordan Richard](#)
Subject: RE: [EXTERNAL] RE: Mountain Valley Pipeline, LLC; Docket Number CP16-10-000: Formal Conference - Candy Darter
Date: Tuesday, August 14, 2018 3:09:42 PM
Attachments: [17-Attachment G5 - Giles and Craig County Delineation Final S-O13 data sheet.pdf](#)
[2018_02_17-S-O13 photos.pdf](#)

Jen,

I am providing the information that you requested for the Kimbalton Branch crossing in Giles County, VA (MP 199.065) with the attached data form (which shows width, depth, flow characteristics and substrate components) and attached pre-construction photos.

Please feel free to contact me if you need additional information.

Thank you,
Megan

From: Jennifer Stanhope <Jennifer_Stanhope@fws.gov>
Sent: Monday, August 06, 2018 4:37 PM
To: Stahl, Megan D. <MStahl@eqt.com>; Amanda Mardiney <Amanda.Mardiney@ferc.gov>
Cc: [james.martin@ferc.gov](#); [Paul Friedman](#) <Paul.Friedman@ferc.gov>; [Lavinia DiSanto](#) <Lavinia.DiSanto@cardno.com>; [Cindy Schulz](#) <cindy_schulz@fws.gov>; [Troy Andersen](#) <troy_andersen@fws.gov>; [John Schmidt](#) <john_schmidt@fws.gov>; [Tiernan Lennon](#) <tiernan_lennon@fws.gov>; [Eggerding, Matthew](#) <MEggerding@eqt.com>; [Rebeca Giacomani](#) <rebeca_giacomani@fws.gov>; [Jordan Richard](#) <jordan_richard@fws.gov>
Subject: RE: [EXTERNAL] RE: Mountain Valley Pipeline, LLC; Docket Number CP16-10-000: Formal Conference - Candy Darter

Megan,

Thank you for the information. We are currently reviewing the information you provided and have a follow-up question about the Kimbalton Branch crossing in Giles County, VA (MP 199.065), a tributary to Stony Creek. Could you provide information about this tributary crossing, for example size/width, depth, stream flow, sediment type, and photos?

Thank you for your help,
Jen

From: Stahl, Megan D. <MStahl@eqt.com>
Sent: Friday, July 27, 2018 2:43 PM
To: Jennifer Stanhope <jennifer_stanhope@fws.gov>; Amanda Mardiney

<Amanda.Mardiney@ferc.gov>

Cc: james.martin@ferc.gov; Paul Friedman <Paul.Friedman@ferc.gov>; Lavinia DiSanto <Lavinia.DiSanto@cardno.com>; Cindy Schulz <cindy_schulz@fws.gov>; Troy Andersen <troy_andersen@fws.gov>; Schmidt, John <john_schmidt@fws.gov>; Lennon, Tiernan <tiernan_lennon@fws.gov>; Eggerding, Matthew <MEggerding@eqt.com>

Subject: [EXTERNAL] RE: Mountain Valley Pipeline, LLC; Docket Number CP16-10-000: Formal Conference - Candy Darter

Jen and Amanda,

In response to the Candy darter comments received on April 23, 2018 (referenced in the emails below) I am providing Mountain Valley's responses in the attached document. This response will be filed on the docket as privileged and confidential on Monday.

Please review and feel free to reach out to me with any questions.

Thank you,
Megan

Megan Stahl
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From: James Martin [mailto:James.Martin@ferc.gov]

Sent: Monday, April 23, 2018 3:08 PM

To: Paul Friedman <Paul.Friedman@ferc.gov>; Lavinia DiSanto <lavinia.disanto@cardno.com>; Amanda Mardiney <Amanda.Mardiney@ferc.gov>

Cc: Eggerding, Matthew <MEggerding@eqt.com>

Subject: [EXTERNAL] Fw: Mountain Valley Pipeline, LLC; Docket Number CP16-10-000: Formal Conference - Candy Darter

Guess we'll need to discuss this tomorrow. Matt, can you let us know if any work has occurred at the streams mentioned by FWS? Thanks.

James Martin
Branch Chief
Gas Branch 3

From: Jennifer Stanhope <Jennifer.Stanhope@fws.gov>

Sent: Monday, April 23, 2018 3:03 PM

To: James Martin

Cc: Troy Andersen; Cindy Schulz; William.T.Walker@usace.army.mil; Paul Friedman; John Schmidt; Adams, Jennifer - FS; Brown, Clifford L; Aschenbach, Ernie (DGIF); rene.hypes@dcr.virginia.gov

Subject: Mountain Valley Pipeline, LLC; Docket Number CP16-10-000: Formal Conference - Candy Darter

Mr. Martin:

The signed subject document is attached.

Please let me know if you have any questions.

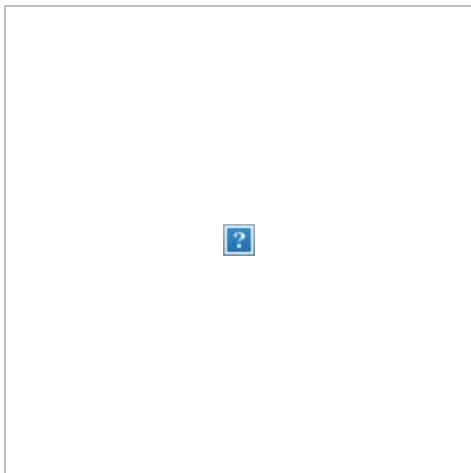
Sincerely,
Jen

Jennifer Stanhope
Fish and Wildlife Biologist
U.S. Fish and Wildlife Service
Virginia Field Office
6669 Short Lane
Gloucester, VA 23061
804-824-2408
<https://www.fws.gov/northeast/virginiafield/>

[Virginia Field Office | Northeast
Region, U.S. Fish and ...](#)

www.fws.gov

Web site of the U.S. Fish and Wildlife Service.
More Resources: See the Outdoors: Follow the
Mission. Connect with Us: Strategic Plan



STREAM ID S-Q13		STREAM NAME Kimballton Branch	
LAT 37.374335 LONG -80.681949		DATE 06/17/2015	
CLIENT MVP		PROJECT NAME MVP	
INVESTIGATORS A. Stott, A. Grech, L. Sexton			
FLOW REGIME Perennial ☒ Intermittent ☐ Ephemeral ☐		WATER TYPE TNW ☐ RPW ☒ NRPW ☐	

CHANNEL FEATURES	Estimate Measurements Top of Bank Width: <u>15.0</u> ft Top of Bank Height: LB <u>4.0</u> in RB <u>4.0</u> in Water Depth: <u>8.00</u> in Water Width: <u>13.0</u> ft High Water Mark: <u>2.0</u> ft Flow Direction: <u>South</u>		Stream Erosion ☐ None ☒ Moderate ☐ Heavy Artificial, Modified or Channelized ☐ Yes ☒ No Dam Present ☐ Yes ☒ No Sinuosity ☒ Low ☐ Medium ☐ High Gradient ☐ Flat (0.5/100 ft) ☒ Moderate (2 ft/100 ft) ☐ Severe (10 ft/100 ft)		
	Water Present ☐ No water, stream bed dry ☐ Stream bed moist ☐ Standing water ☒ Flowing water Velocity ☐ Fast ☒ Moderate ☐ Slow		Proportion of Reach Represented by Stream Morphology Types Riffle 75 % Run % Pool 25 % Turbidity ☒ Clear ☐ Slightly turbid ☐ Turbid ☐ Opaque ☐ Stained ☐ Other _____		
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)			ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)		
Substrate Type	Diameter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock			Detritus	sticks, wood, coarse plant materials (CPOM)	10
Boulder	> 256 mm (10")	20			
Cobble	64-256 mm (2.5"-10")	20	Muck-Mud	black, very fine organic (FPOM)	
Gravel	2-64 mm (0.1"-2.5")	30			
Sand	0.06-2mm (gritty)	30	Marl	grey, shell fragments	
Silt	0.004-0.06 mm				
Clay	< 0.004 mm (slick)				
WATERSHED FEATURES	Predominant Surrounding Landuse ☒ Forest ☒ Commercial ☐ Field/Pasture ☐ Industrial ☐ Agricultural ☐ Residential ☐ Other: _____		Indicate the dominant type (Check one) ☒ Trees ☐ Shrubs ☐ Grasses ☐ Herbaceous		
	Canopy Cover ☒ Partly open ☐ Partly shaded ☐ Shaded ☐ Open		Floodplain Width ☐ Wide > 30ft ☐ Moderate 15-30ft ☒ Narrow <16ft Wetland Present ☐ Yes ☒ No Wetland ID _____		
AQUATIC VEGETATION	Indicate the dominant type and record the dominant species present ☐ Rooted emergent ☐ Rooted submergent ☐ Rooted floating ☐ Free floating ☐ Floating algae ☐ Attached algae				

MACROINVERTEBRATES OR OTHER WILDLIFE OBSERVED/OTHER OBSERVATIONS AND NOTES	
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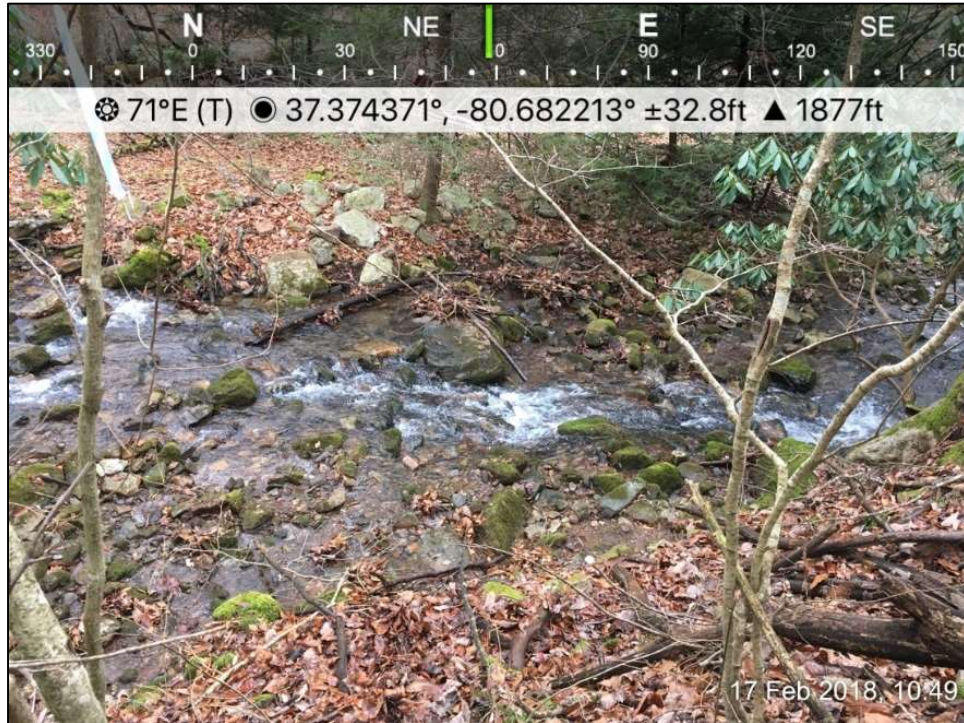


Photo Type: RB DS VIEW

Location, Orientation: Upstream on right bank at LOC looking NE downstream
02/17/2018, 10:49 AM



Photo Type: LB DS VIEW

Location, Orientation: Upstream on left bank at LOC looking S downstream
02/17/2018, 10:51 AM



Photo Type: RB CL

Location, Orientation: On right bank at pipe centerline looking NNE at stream
02/17/2018, 10:52 AM

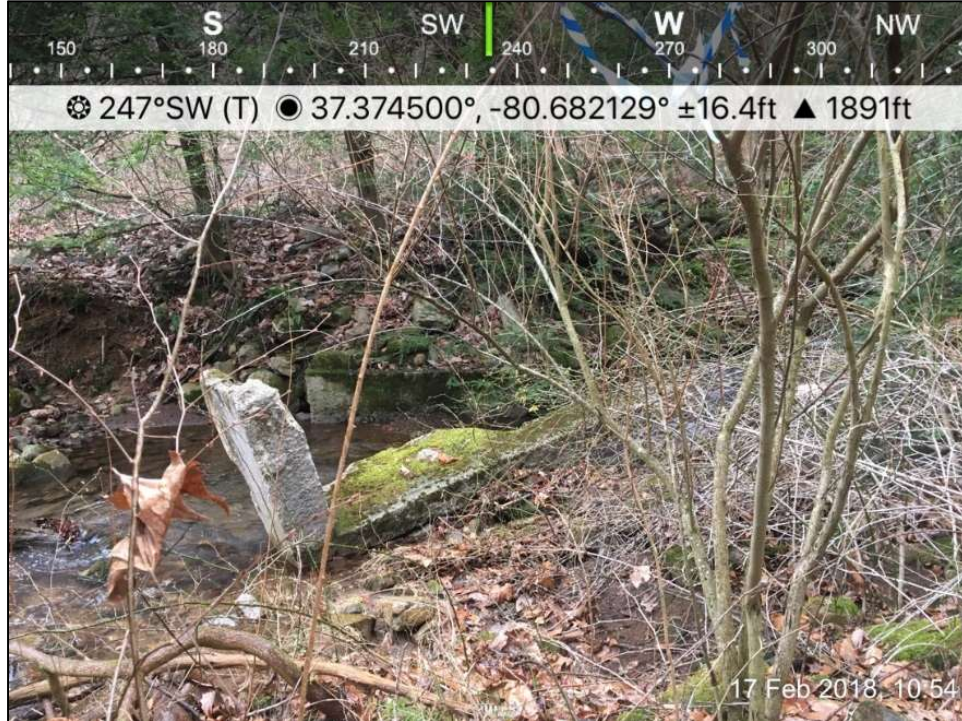


Photo Type: LB CL

Location, Orientation: On left bank at pipe centerline looking SW at stream
02/17/2018, 10:54 AM



Photo Type: RB US VIEW

Location, Orientation: Downstream on right bank at LOC looking N upstream
02/17/2018, 10:56 AM

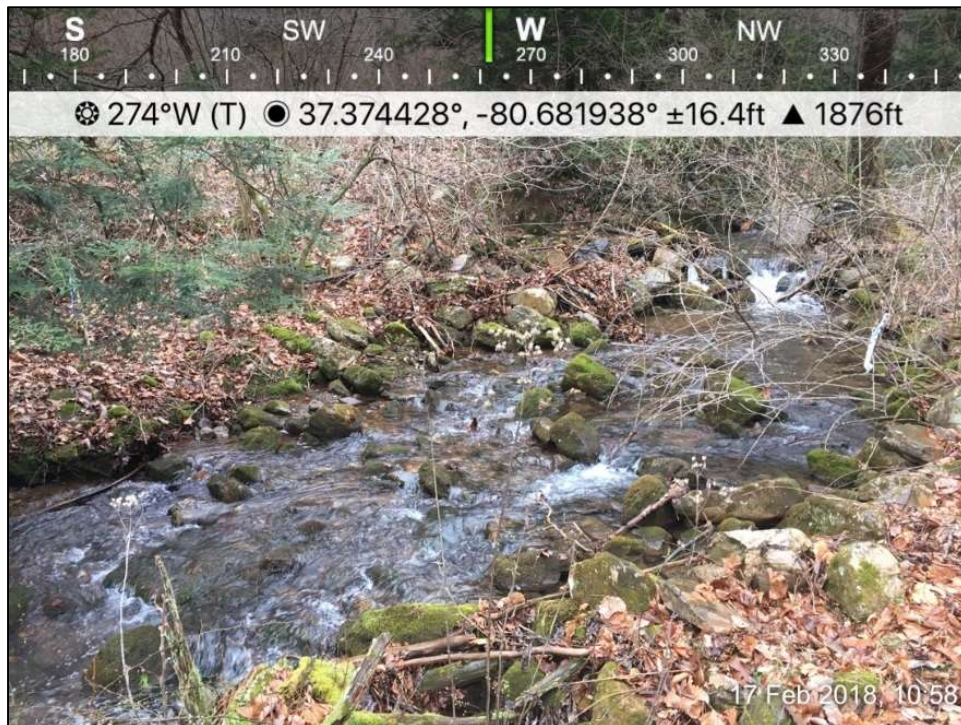


Photo Type: LB US VIEW

Location, Orientation: Downstream on left bank at LOC looking W upstream
02/17/2018, 10:58 AM



Photo Type: DS COND

Location, Orientation: Downstream at LOC looking SE downstream
02/17/2018, 10:59 AM